



CATALOGUE  
2024

# RBM

## **R.B.M. S.p.A.**

Subject to management and coordination  
pursuant to Article 2497-bis of the Italian  
Civil Code by GLBS S.r.l. a socio unico  
VAT No. 00551250988

## HEAD OFFICE

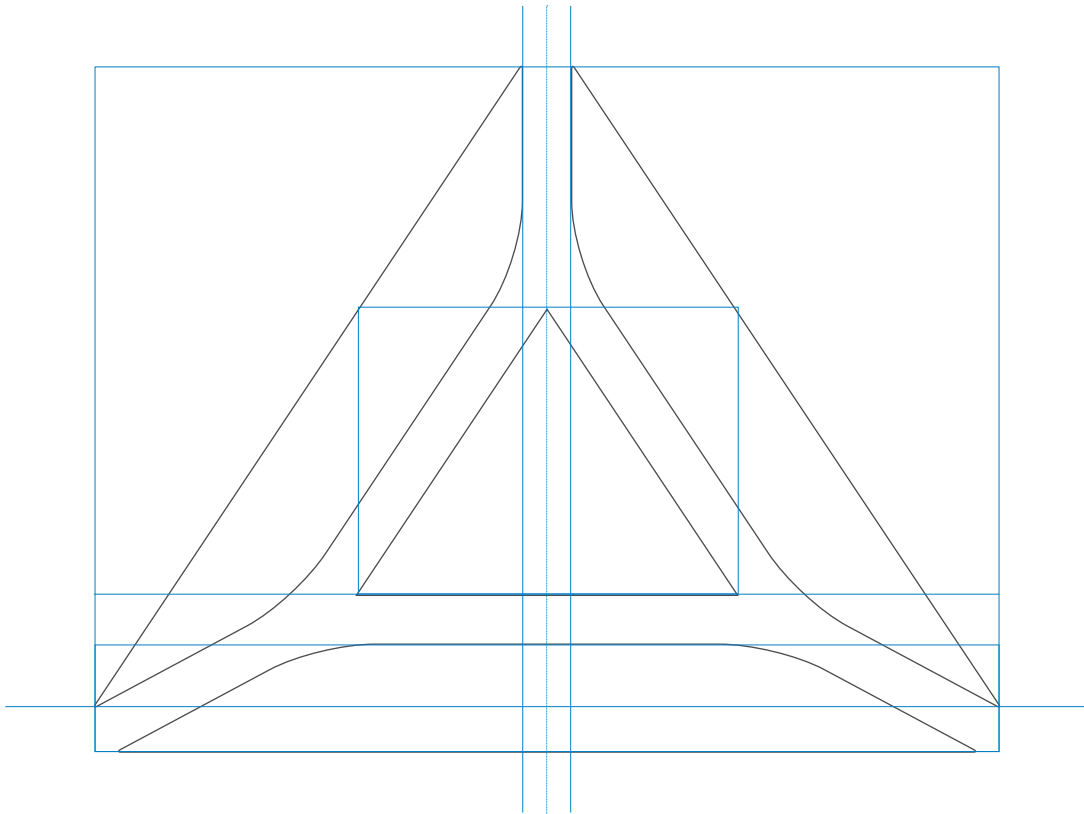
Via Industriale, 23  
25060 S.Giovanni di Polaveno  
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## ADMINISTRATIVE OFFICE

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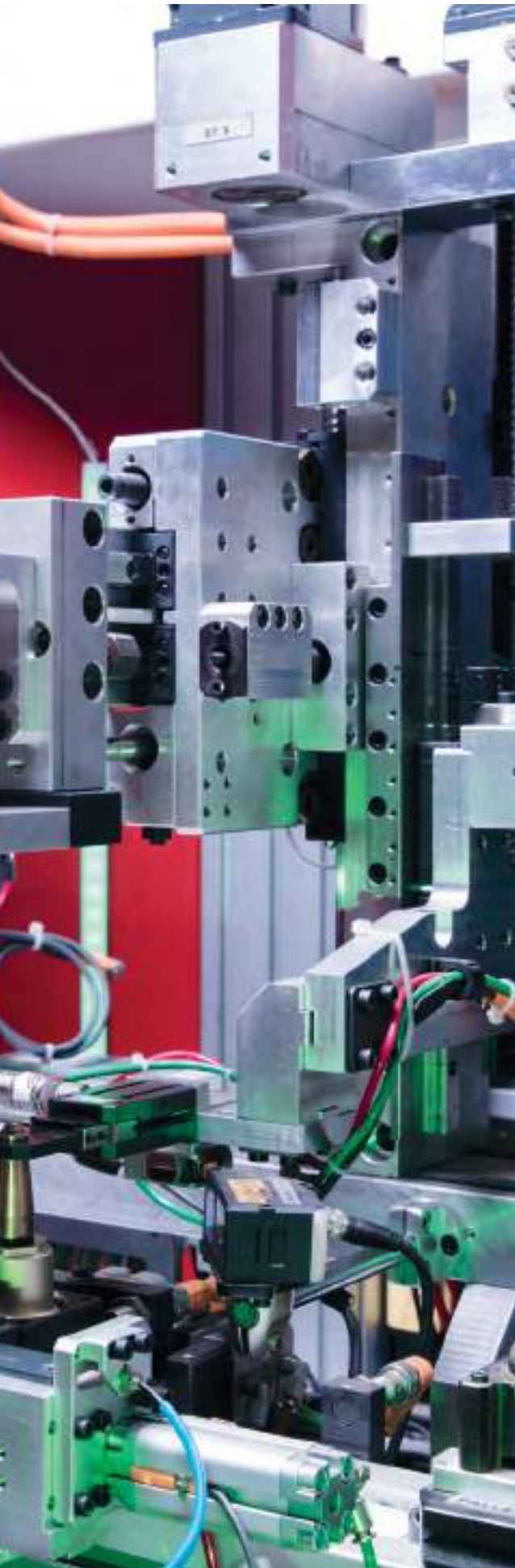
SHARE CAPITAL: 17.000.000€



**RBM**  
CAT 2024  
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## RBM

### CAT 2024

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RBM designs and manufactures **highly innovative components**, hydro-thermo-sanitary systems and climate wellness solutions, distinguished by their highly efficient performance and recognised effectiveness.

We have always focused on solutions that operate **invisibly and silently**, helping to simplify and improve quality of life, with an emphasis on features guaranteeing maximum ease of installation and use.

## Who We Are

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Founded in 1953 by the Bossini family in Lumezzane, RBM has become a leading company in the plumbing and heating industry, operating worldwide.

An advanced and continuously evolving company, which today boasts **5 production plants in the Brescia area** (3 dedicated to the production of brass components and 2 for the processing of plastics), **2 branches, 3 sales offices and over 300 employees.**

The company develops **all of its products at each stage**, with the aim of providing the best quality level on the market. From the mould designed in the internal technical department, the attention to each detail, up to the precise management of customer care processes.

RBM's experience has grown by keeping pace with a world undergoing constant changes, believing in and promoting the design and production of systems and components with the highest technological content, focusing on the development of state-of-the-art plumbing and heating systems, able to satisfy market needs, anticipate competition and be the first to oversee emerging sectors such as **climate comfort, plumbing and heating efficiency and the effective management of fluid distribution.**

RBM maintains the maximum quality control of its products via the constant development of internal skills and a **vertical integration of its production activities.**

## Products

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RBM manufactures **all the connection and management components of the modern plumbing and heating system.**

The product range has been developed following and anticipating the needs of the sector thanks to the work of the internal team that operate daily in the field.

The commitment of the **RBM Research and Development department** is aimed at the design of technologically advanced components and systems, capable of overcoming the increasingly more challenging tests and the pressing market needs.

The goal is to identify **solutions that are better, easier to use, more convenient and reliable to achieve** and maintain the trust of each customer over time.

### PRODUCT CERTIFICATIONS

RBM components are manufactured and tested in accordance with the main regulations and standards in force. Added to this is the guarantee of product certifications achieved internationally.

Most RBM products suitable for drinking water conveyance have achieved different certifications (e.g. DHW) which certify their suitability for use.

See the catalogue to check the certified products.

**PRODUCT APPLICATION FIELD:** Unless otherwise specified, RBM products are suitable for use with water and water + glycol.

### INSURED PRODUCTS

**RBM products are insured against product liability.**

In the event of a claim, it is recommended that it be reported within 72 hours of the event.

Any communication in this regard must necessarily be received within 72 hours of the damage verified.

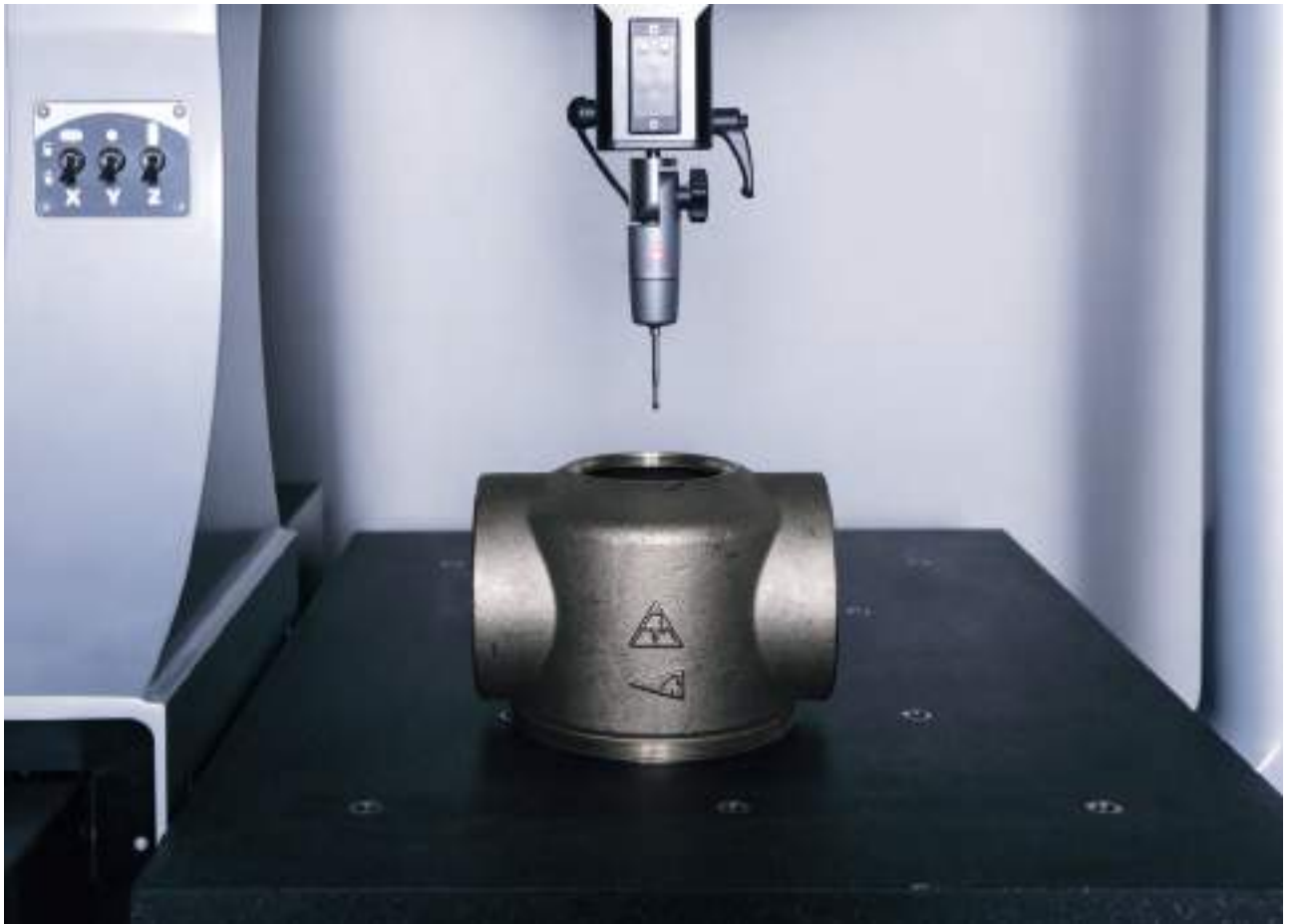
For details regarding the Product Liability Policy, please refer to the section 'Product Liability Policy' on the 'Quality Certificate' page at the end of this catalogue.

### COMPANY CERTIFICATION

RBM obtained the **UNI EN ISO 9001** certification in 1992, issued by ICIM and recognised by leading organisations in Italy and worldwide.









## R&D

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RBM I-BOX® is the place for **hydraulic research** where theoretical results derived from inventive and creative processes are transformed into technological innovation.

Over 1000 m<sup>2</sup> of continuous interaction between the **R&D, Laboratory, Training functions**, to develop and improve products for the HVAC sector (heating – ventilation and air conditioning).

RBM I-BOX® addresses each need on an experimental level, observing phenomena, formulating hypotheses and developing prototypes.

The tested hypotheses are the raw material of the **virtuous circle that leads to the identification of the best process/product**.

RBM I-BOX® is a team of **trained technicians, industry experts and new graduates**, who work in a **State-of-the-art laboratory**, capable of carrying out simulations, functional hydraulic tests, mechanical tests and endurance tests.

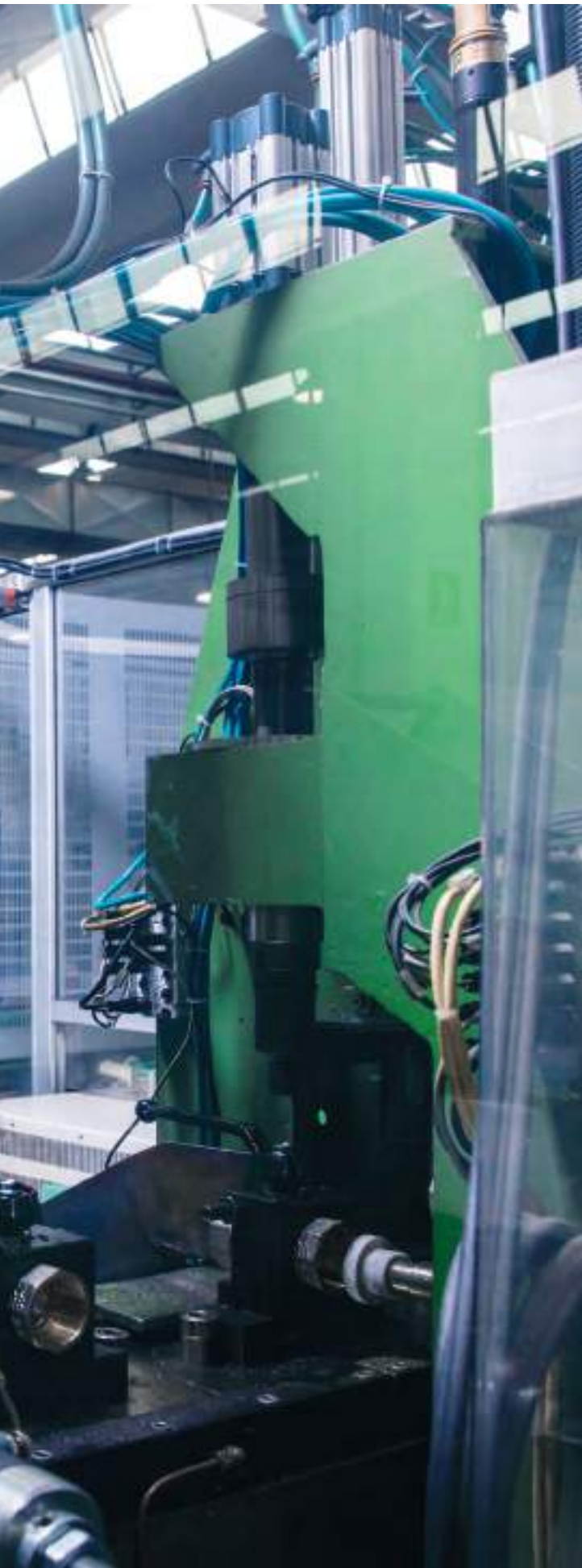
RBM I-BOX® is a **Training support area** where ideas are illustrated to technicians, installers, designers, customers, as part of training courses organised in a modern interactive classroom.

Training also includes the use of **EMOTIONAL BOXES** where the operation of various products can be observed in real time.

### **MAGNETIC FILTRATION AND EFFICIENCY**

RBM has invested considerable resources in the study of **mechanical magnetic filtration** thus defining the **concept of magnetic efficiency**. The constant and extensive research has led to the development of a series of magnetic filters among the most efficient on the market, with the aim of preserving boiler heat exchangers, improving their efficiency and useful lifespan.





## CSR policy

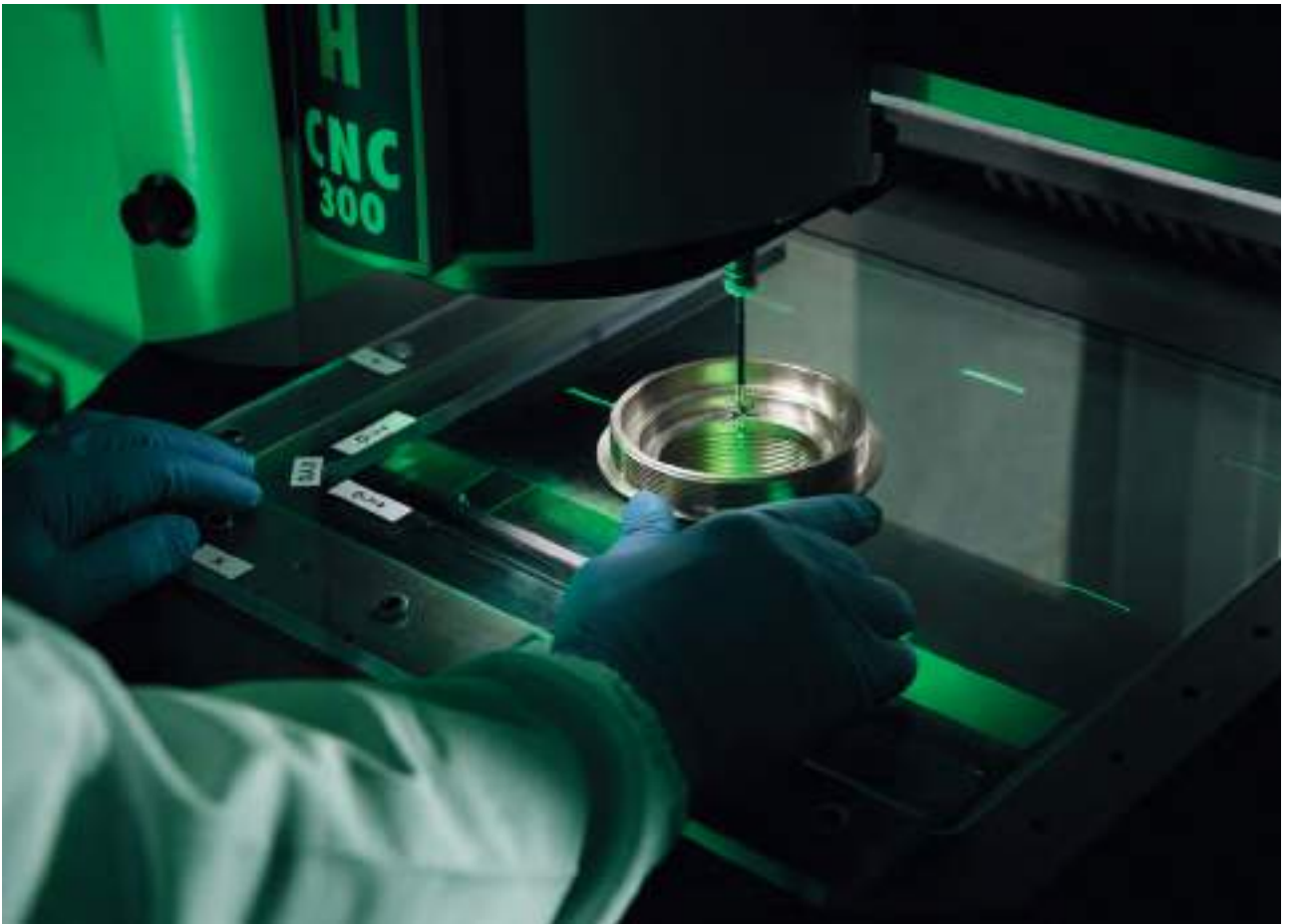
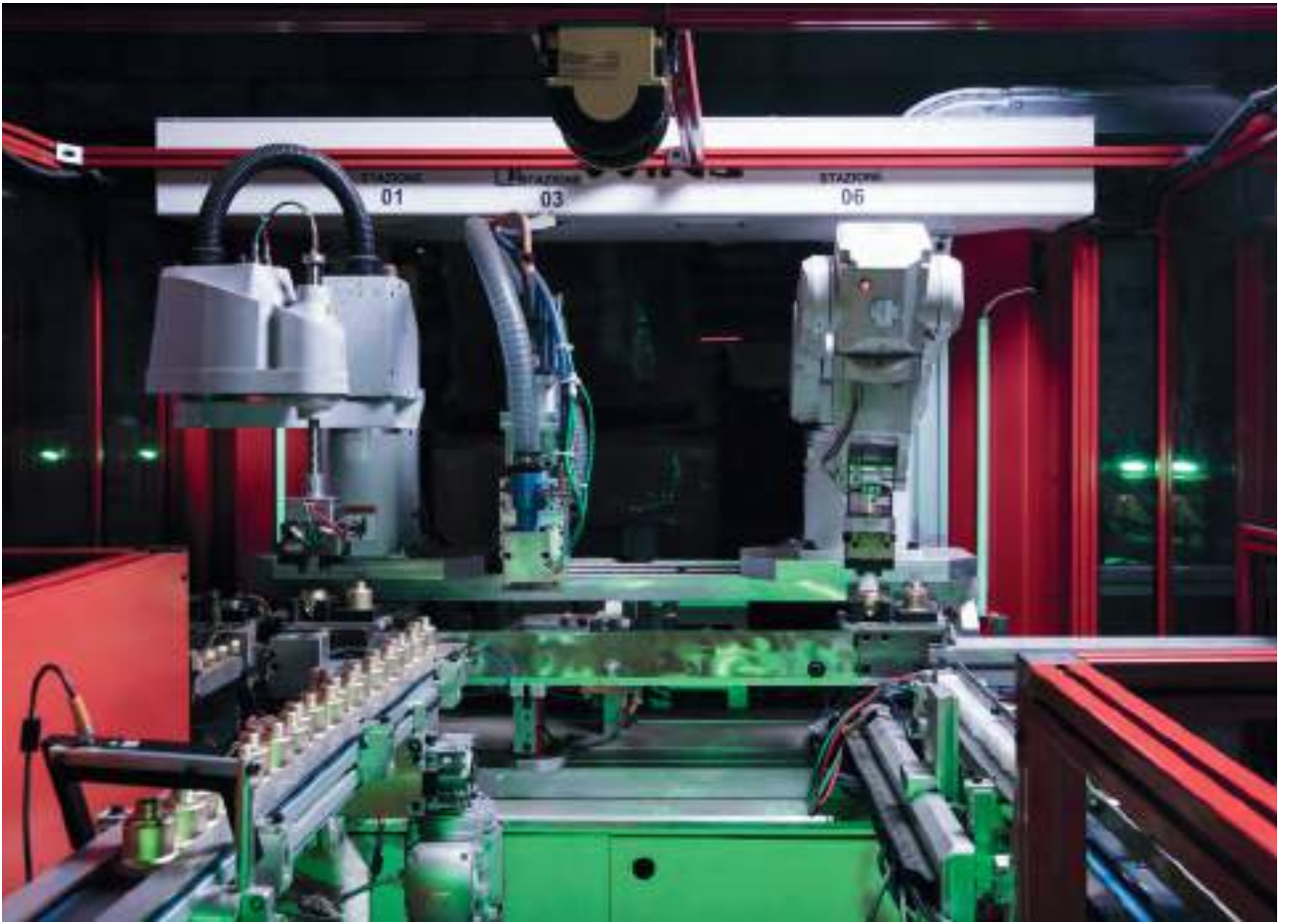
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We are convinced that spreading the **culture of climate welfare** and working concretely to make it possible for every individual we will be able to **CREATE A FUTURE** in which cutting-edge technology and sustainability support each other, increasing the mutual value and shared benefits.

We want to guarantee a governance marked by integrity, transparency and respect, in order to disseminate good business practices and inspire new sustainability standards.

That's why we have defined our CSR vision with a **5-pillar** strategy.







# RBM Vision

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## 1. GOING INTERNATIONAL

Opening up to international markets, both upstream and downstream, is essential to geographically diversify our business, spreading risks and investments across European and non-European markets.

This international outlook also helps to get to know and compare different cultural contexts in order to develop skills that will be useful in a changing, global environment.

## 2. INNOVATING

We are paying increasing attention to energy saving and to production strategies and processes that reduce the impact on the environment.

This standing innovation approach is on the increase, and will include partnerships with leading schools or with our customers and suppliers, to extend markets and enable new investments.

The Research and Development programme is also aiming to respond to new market needs in order to improve production processes, products and services. We want to make them more effective, more efficient and more environment-friendly.

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## 3. REDUCING OUR CARBON FOOTPRINT

Reducing our carbon footprint helps to fight climate change, and is a responsible way of increasing sales while improving environmental protection. Calculation of carbon footprint takes into account all sustainability issues, such as reducing energy consumption, transport, waste, circular economy, development of alternative construction systems, etc.

Reducing the carbon footprint is part of the European CO2 emissions reduction target (Fit for 55).

## 4. PARTNERSHIP - TERRITORY

Partnership and collaboration among industry players are the keys to success in developing RBM in an open, dynamic and adaptive way.

We want to make our partners, customers, suppliers and subcontractors aware of the ecological transition and encourage them to adopt good sustainability practices. In addition, we do not forget the context in which we operate: RBM is close to the territory and its communities through concrete support activities and participation and promotion of social, cultural and sporting initiatives.

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## 5. DEVELOPING QUALITY OF LIFE IN THE WORKPLACE

Quality of Life in the workplace is crucial if we are to keep our teams motivated and healthy over the long term. Our aim is to provide a safe and stimulating working environment where everyone can express their individual potential.

# **RBM**

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## **01. HYDROTHERMAL DISTRIBUTION**

- 01. Boiler room distribution
- 02. Zone valves
- 03. Utility systems
- 04. Radiator and fan coil distribution
- 05. Dhw distribution
- 06. Pressure reduction
- 07. Control and safety components
- 08. Ball valves, check valves and shut-off devices
- 09. Fittings
- 10. Water distribution
- 11. Equipment and tools

## **02. ENERGY EFFICIENCY**

- 20. Water treatment
- 21. Valves for radiator and terminal control
- 22. Hydraulic balancing

## **03. CLIMATE COMFORT**

- 30. Radiant climate control systems

## **SERVICE**

- 60. Service

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# INDEX CODE

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# INDEX CODE

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8520430	144	8600902	146	8905000	154	10070640	160
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8540542	144	8780015	146	8990000	156	10100610	161
8540632	144	8850432	146	9119003	156	10100640	161
8540642	144	8850442	146	9241005	156	10100660	161
8540732	144	8850452	146	9242005	156	10110610	161
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8540832	144	8850542	146	9320100	156	10110660	161
8540842	144	8850552	146	9331600	156	10120610	161
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8580402	144	8852025	146	9433005	156	10130640	161
8580412	145	8852035	146	9433005	156	10130660	161
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8580502	145	8860442	146	9631830	159	10280400	161
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8580602	145	8860632	146	9890432	159	11000600	166
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8580672	145	8860732	150	9890632	159	11380030	168
8580702	145	8860742	150	9890732	159	11390300	169
8580712	145	8860832	150	9992000	159	11390340	169
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8580802	145	8860932	150	10020610	159	11390400	169
8580812	145	8860942	150	10020640	159	11390440	170
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8580902	145	8870532	151	10030610	159	11390500	170
8580912	145	8870632	151	10030640	159	11390540	170
8580972	145	8870732	151	10030660	160	11390590	170
8600402	145	8901810	151	10040610	160	11470300	170
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# INDEX CODE

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11470900	172	13490902	186	14190610	198	15400650	213
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11500510	172	13510902	186	14190640	198	15411640	213
11500520	174	13520902	186	14200610	199	15412040	213
11500530	174	13530902	186	14200620	199	15412050	213
11500540	174	13540902	186	14200640	199	15412080	213
11500550	176	13550902	186	14201310	200	15412090	214
11500560	176	13560902	188	14201320	200	15412640	214
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11500640	177	13611000	188	14220200	205	15421630	215
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13380002	182	14130620	191	15310671	209	15442650	217
13390002	182	14130640	192	15320650	209	15443240	217
13401402	182	14140610	192	15320670	211	15443250	217
13401602	182	14140620	194	15330650	211	15451600	217
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# INDEX CODE

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15465000	221	19341602	226	20061602	230	20810400	236
15466300	221	19341802	226	20061802	231	20931500	236
15520002	221	19342002	226	20062002	231	20931520	236
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19303202	225	19462020	228	20370610	233	22500002	238
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19311802	225	19462620	228	20380610	233	22615502	238
19312002	225	19462630	228	20380620	233	22617002	238
19312602	225	19463220	229	20381310	233	22618502	238
19313202	225	19463230	229	20381320	233	22940032	238
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19321612	225	19727000	229	20381420	234	22950032	238
19321802	225	19728500	229	20780300	234	23190550	238
19321812	225	19782002	229	20780400	234	23190650	238
19322002	225	19783002	230	20790300	234	23190750	238
19322012	225	19784002	230	20790400	234	23430500	238

# INDEX CODE

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# INDEX CODE

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30862200	260	32040620	264	32360602	272	35280690	276
30863000	260	32040630	267	32370602	273	35290690	276
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31010400	260	32050600	267	32390502	273	35310690	276
31010500	260	32050610	268	32400502	273	35320690	276
31010600	260	32050620	268	32410502	273	35330690	276
31020720	260	32050630	268	32420002	273	35410910	276
31020730	260	32050690	269	32440002	273	35411010	276
31530400	260	32060610	269	32480600	273	35411110	276
31730400	261	32060690	269	32860500	273	35411310	276
31730500	261	32070610	269	32870516	273	35411410	276
31730600	261	32070690	270	32870520	273	35411510	276
31730700	261	32080610	270	32880516	273	35480500	276
31730800	261	32080690	270	32880520	273	35480600	276
31730900	261	32090610	270	32890000	273	35630390	276
31731472	261	32090690	270	32900000	273	35630490	276
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31740520	261	32110690	270	34050000	273	35740300	278
31740530	262	32120610	270	34060000	273	35740400	278
31890002	262	32120690	270	34630002	273	35740500	278
31890012	262	32130610	270	34650400	274	35761050	278
31890042	262	32130690	270	34650500	274	35761250	278
31890052	262	32140610	271	34650600	274	35761450	278
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31980600	262	32170600	271	35020002	274	36011002	278
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31990602	262	32220702	271	35020032	274	36011302	278
32010600	262	32220712	271	35088012	274	36011402	278
32010620	262	32230702	271	35090002	275	36011502	279
32010630	263	32240702	271	35090012	275	36020400	279
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32020610	263	32260702	271	35090032	275	36020600	279
32020620	263	32270002	272	35090042	275	36020700	279
32020630	264	32280702	272	35180402	275	36020800	279
32020690	264	32290702	272	35180502	275	36020900	279
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32030610	264	32320012	272	35230637	275	36110002	279
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# INDEX CODE

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36733002	280	36911160	288	37410612	306	38330600	311
36734002	280	36911170	289	37410712	306	38412000	311
36735002	280	36911200	289	37410902	306	38412010	311
36741002	280	36911250	289	37411002	307	38412500	312
36742002	280	36911260	289	37411102	307	38412510	312
36743002	280	36911270	289	37411302	307	38413300	312
36744002	280	36911300	289	37411402	307	38413310	312
36745002	280	36911350	289	37411502	307	38414800	312
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36910450	281	36990600	292	37450712	307	38980600	313
36910460	281	36990700	292	37460512	307	39021620	314
36910470	281	37010580	292	37470512	307	39021630	314
36910500	281	37010590	292	37580420	307	39022020	314
36910550	281	37020002	292	37580440	307	39022030	314
36910560	281	37150510	292	37580520	307	39022630	314
36910570	281	37170550	292	37580540	307	39022640	315
36910600	281	37170560	300	37691200	307	39070200	315
36910650	281	37170570	300	37730700	307	39070210	315
36910660	281	37390412	300	37730710	307	39170002	315
36910670	281	37390512	300	37730720	307	39180002	315
36910700	281	37390612	300	37800000	309	39180012	316
36910750	286	37390712	300	37810000	309	39190002	316
36910760	286	37390812	300	37820000	309	39240390	316
36910770	286	37390912	300	37840010	309	39240490	316
36910800	286	37400412	301	37840020	309	39250390	317
36910850	286	37400512	306	37850000	309	39250490	317
36910860	286	37400612	306	37860000	309	39280400	317
36910870	286	37400712	306	38130900	309	39300600	317
36910900	286	37400812	306	38150000	309	39390600	318
36910950	288	37400902	306	38160520	309	39541600	318
36910960	288	37400912	306	38272900	310	39541610	318
36910970	288	37401002	306	38273900	310	39541620	318
36911000	288	37401102	306	38274900	310	39541700	318
36911050	288	37401302	306	38282900	310	39541710	318

# INDEX CODE

CODE	P	CODE	P	CODE	P	CODE	P
39541720	318	41622200	333	3085 04I	343	3373 04NI	347
39542000	319	41622800	338	3085 10I	343	3373 10NI	347
39542030	319	41960000	338	3085 12I	343	3373 12NI	347
39670002	319	58973015	338	3085 20I	343	3373 14NI	347
39740902	319	03121560*	338	3085 34I	343	3373 20NI	347
40270002	319	03121590**	338	3085 38I	343	3373 34NI	347
40280002	319	10111005*	338	3086 02I	343	3373 38NI	347
40290500	320	1240500*	339	3086 04I	344	3374 10NI	348
40300500	320	1240600*	339	3086 10I	344	3374 12NI	348
40310600	320	1240700*	339	3086 12I	344	3374 14NI	348
40320600	320	1242200**	339	3086 20I	344	3374 34NI	348
40360300	321	15411650*	340	3086 34I	344	3374 38NI	348
40360400	321	15441650*	340	3086 38I	344	3386 09NI	348
40370300	321	1600400*	340	30870000**	344	3386 A1NI	348
40370400	321	1650450*	340	31730972*	344	3386 A2NI	348
40380300	324	1790300*	340	31731072*	344	34990002*	348
40380400	324	1790400*	340	31731172*	344	35000002(a)	348
40390300	325	1800300*	340	31731372*	344	35000012(b)	348
40390400	325	1800400*	341	320300*	344	35000022(c)	348
40510000	326	1810020*	341	320400*	344	35000032(d)	348
40540310	326	1810030**	341	32180002**	344	35030102*	348
40540410	326	19461620*	341	32180012*	345	35038002**	348
40540460	327	19461630*	341	3255 10NI	345	35040102*	348
40540510	327	19475702***	341	3255 12NI	345	35048002**	348
40540560	327	20010000*	341	3255 34NI	345	35050102*	348
40540660	327	20010060**	341	3256 10NI	345	35060102*	349
40540760	327	20034202*	341	3256 12NI	345	35068002**	349
40540860	327	200520*	341	3256 34NI	346	35070102*	349
40540960	328	2110400*	342	3371 02NI	346	35078002**	349
40660002	328	2110450*	342	3371 04NI	346	35170002**	349
40930600	328	2130400*	342	3371 10NI	347	35370100*	349
40930700	328	2130450*	342	3371 12NI	347	35370200**	349
41200000	328	2140400*	342	3371 14NI	347	3615R0300	349
41200000	329	2140450*	342	3371 20NI	347	3615R1000	349
41241000	329	2230400*	342	3371 22N	347	3615R1100	349
41244000	329	2230450*	342	3371 30N	347	3615R1200	349
41246000	329	22500012*	342	3371 34NI	347	3615R1300	349
41248000	329	2250400*	342	3371 38NI	347	3615R1400	349
41610400	330	2250450*	342	3371 40N	347	3615R400	349
41610500	330	2273005**	342	3372 04NI	347	3615R5300	349
41610600	332	2274005*	342	3372 10NI	347	3615R600	349
41612200	332	26330000*	342	3372 12NI	347	3615R700	349
41612800	332	26330000*	342	3372 14NI	347	3615R800	349
41620400	332	28270310*	342	3372 34NI	347	3615R900	349
41620500	333	28280310*	343	3372 38NI	347	3623500*	349
41620600	333	3085 02I	343	3373 02NI	347	3625000*	349

# INDEX CODE

CODE	P
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CODE	P
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37050002*	350
37050002*	350
37050002*	350
37050002*	350
37050002*	350
37050002*	350
37050012**	350
37050012**	350
37050012**	350
37841010*	350
37841410**	351
3834R1012	351
3834R4012	351
3834R6012	351
3834R8012	351
3844R1002	352
3844R1202	352
3844R8002	352
39370000*	352
3950300*	352
3950400*	352
4021015*	352
4683902**	352
4684500*	353
4800002**	353
480300*	353
480400*	353
4832502*	353
4833202**	353
490300*	353
490400*	353
5031B	354
5041B	354
5051B	354
5061B	354
5071B	354
5081B	354
5091B	354
571600*	354
571800**	354
5770002*	354
5770012**	354
5900000*	354
5900010*	354
5900050*	354
6210150*	355

6260210*	355
7200030*	355
7351610*	355
7351620*	355
8188005*	355
8550332*	355
8550342*	355
8621610*	355
8622010*	355
8622442**	355
863500*	355
864000*	355
865000*	355
865800*	355
867500*	355
875003*	355
8850332*	355
8850342*	355
8860332*	355
8860342*	355
8870332*	355
92900003*	355
92900013**	355
92900053*	355
92900063**	356
9890332*	356
2210400	356



# RBM

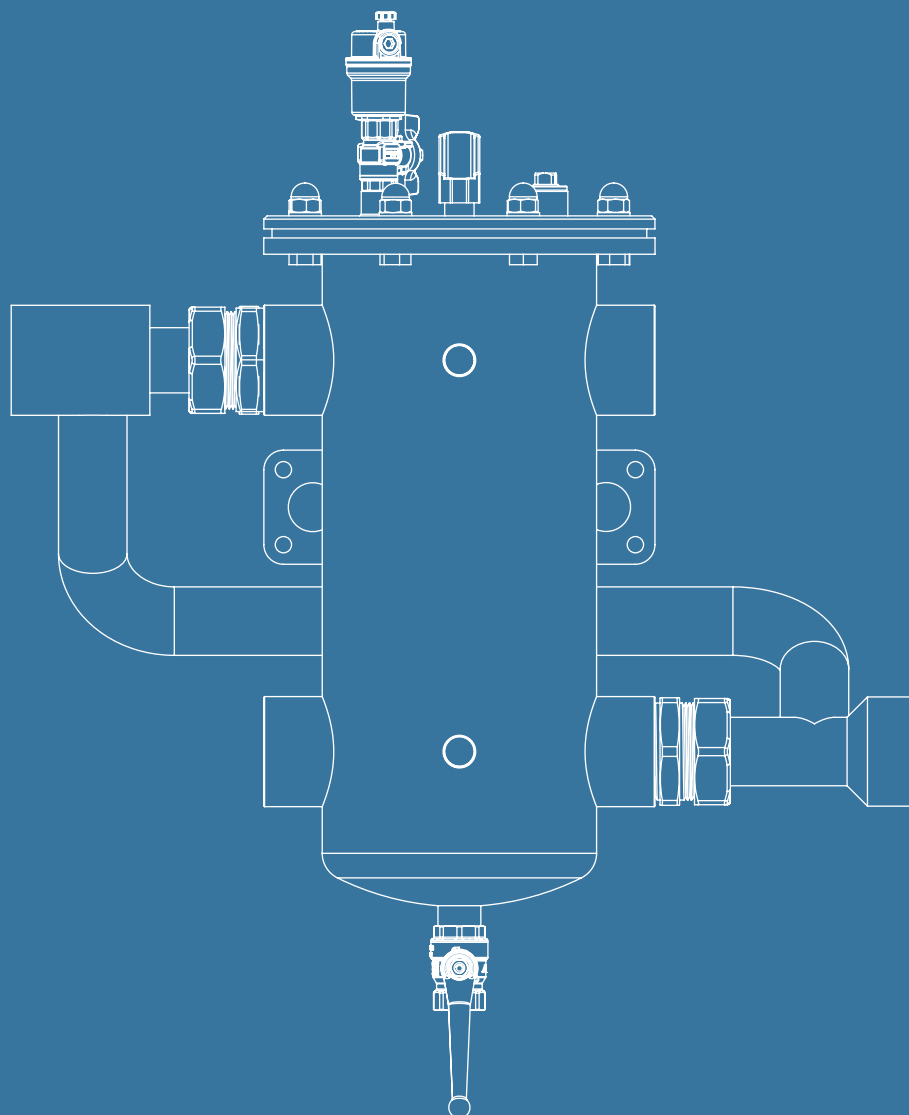
## 01. HYDROTHERMAL DISTRIBUTION

GROUP		CATEGORY		LINE	
<b>01. Boiler room distribution</b>	8	<b>01.01</b> Boiler room distribution	10	Hydraulic separators	10
				Magnetic hydraulic separators	12
				Multimix booster units DN25	14
				Multimix booster units DN32	18
				Accessories for multimix booster units	23
<b>02. Zone valves</b>	24	<b>02.01</b> Zone valves	26	Compact zone valves	26
				Actuators for compact zone valves	28
<b>03. Utility systems</b>	29	<b>03.02</b> Utility satellites	30	Utility satellites	30
<b>04. Radiator and fancoil distribution</b>	34	<b>04.01</b> Radiator and fancoil distribution	35	Manifolds for air-conditioning systems	35
				Manifolds for large flow rates	39
				Accessories for manifolds	40
				Plastic housing boxes	43
<b>05. Dhw distribution</b>	44	<b>05.01</b> Dhw distribution	45	Manifolds for dhw systems	45
				Plastic housing boxes	48
				Thermostatic mixers	51
<b>06. Pressure reduction</b>	52	<b>06.01</b> Pressure reduction	54	Diaphragm pressure reducing valves	56
				Piston-operated pressure reducing valves	62
				Water hammer damper	66

GROUP		CATEGORY		LINE	
<b>07. Control and safety components</b>	69	<b>07.01</b> Pressure control and safety	70	Safety relief valves	70
				By-pass valve	75
				Filling units	76
		<b>07.03</b> Fluids security control	80	Leak detectors	80
		<b>07.04</b> Temperature control and safety	83	Anti-freeze valves	83
<b>08. Ball valves, check valves and shut-off devices</b>	85	<b>08.01</b> Ball valves, check valves and shut-off devices	86	Ball valves	86
				Check valves	94
				Accessories	95
<b>09. Fittings</b>	96	<b>09.01</b> Fittings	97	Fittings for valves and piping	97
				Fittings for manifolds	106
<b>10. Water distribution</b>	109	<b>10.01</b> Multi-layer pipes	110	PE-Xc bare multi-layer pipe	110
				PE-Xc multi-layer thermally coated pipe	111
				PE-Xc multi-layer pipe with anti-condensation coating	112
				PE-RT bare multi-layer pipe	113
				PE-RT multi-layer thermally coated pipe	114
				PE-RT multi-layer pipe with anti-condensation coating	115
		<b>10.02</b> Fittings for multi-layer pipes	117	Press fittings for multi-layer pipes	118
				Shut-off taps	127
<b>11. Equipment and tools</b>	131	<b>11.01</b> Equipment and tools	132	Equipment for compression valves and fittings	132
				Equipment for multi-layer system	133
				Equipment for radiant system	137

# 01. HYDROTHERMAL DISTRIBUTION

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## 01. BOILER ROOM DISTRIBUTION

### 01.01 BOILER ROOM DISTRIBUTION

10

Hydraulic separators

Magnetic hydraulic separators

Multimix booster units DN 25

Multimix booster units DN 32

Accessories for multimix booster units



### Series 617.A

#### Threaded, pre-dimensioned hydraulic separator.

Painted steel body.  
Valves and degasser are made of brass.  
PTFE ball valves seals.  
Elastomer degasser seals.  
Threaded union connections F UNI-EN-ISO 228.  
Front connection for 1/2" F UNI-EN-ISO 228 accessories.

Max operating pressure:

- Separator body 10 Bar
- Ball valve 25 Bar
- Degasser 10 Bar

Allowed temperatures:

- Degasser 0 ÷ +115 °C
- Ball valve -15 ÷ +120 °C

Code	Measure	Flow rate (l/h)	Pack	Outer	Cat.
<b>617.06.12</b>	1"	2.500	1	60	01.01
<b>617.07.12</b>	1"1/4	4.000	1	60	01.01
<b>617.08.12</b>	1"1/2	6.000	1	42	01.01
<b>617.09.12</b>	2"	8.500	1	30	01.01



Supplied complete with MEGALUFT degasser, ball valve to discharge bottom and mud drainage and thermal insulation shell.



### Series 617.B

#### Flanged, pre-dimensioned hydraulic separator.

Painted steel body.  
Valves and degasser are made of brass.  
PTFE ball valves seals.  
Elastomer degasser seals.  
PN16 flanged connections.  
Connection for 1/2" F UNI-EN-ISO 228 accessories.

Max operating pressure:

- Separator body 10 Bar
- Ball valve 25 Bar
- Degasser 10 Bar

Allowed temperatures:

- Degasser 0 ÷ +115 °C
- Ball valve -15 ÷ +120 °C

Code	Measure	Flow rate (l/h)	Pack	Outer	Cat.
<b>617.09.72</b>	DN 50	9.000	1	1	01.01
<b>617.10.72</b>	DN 65	18.000	1	1	01.01
<b>617.11.72</b>	DN 80	28.000	1	1	01.01
<b>617.13.72</b>	DN 100	56.000	1	1	01.01
<b>617.14.72</b>	DN 125	75.000	1	1	01.01
<b>617.15.72</b>	DN 150	110.000	1	1	01.01



Supplied complete with MEGALUFT degasser, ball valve to discharge bottom and mud drainage and thermal insulation shell.

Flange suitable for coupling with counter-flange UNI EN 1092-1.





# HYDRAULIC SEPARATOR



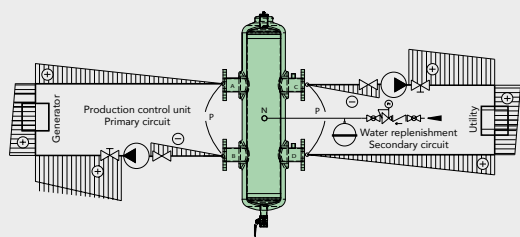
The **Hydraulic separator** is a pre-dimensioned manifold with the task of making the primary and secondary circuits independent if, hydraulically connected, they are equipped with their own circulation pumps.

## THE PURPOSE

Insertion of the Separator, as a component of hydraulic separation between the two circuits, mainly provides the following functions:

- **cancel the mutual influence between the pumping stations of the different circuits;**
- **promote the sedimentation, the collection and discharging of micro-impurities suspended in the fluid;**
- **promotes the deaeration of the circuits** by means of the automatic removal of the dissolved gases.

To facilitate the assembly of auxiliary components, such as temperature and pressure control components, system filling circuit, safety pipe for connection to expansion tank, etc... all RBM Hydraulic separators are supplied with threaded sleeves.



Typical diagram of insertion of the hydraulic separator which separates the primary and secondary circuit

## THE CHOICE

The Hydraulic separator is chosen based on the maximum flow rate recommended for the connection nozzles. During the designing phase, pay special attention to possible temperature variations which the circuits can undergo due to induced mixing inside the Hydraulic separator. A secondary circuit with flow rate higher than that circulating in the primary circuit (fig. 2), generates, in fact, through the Hydraulic separator, a flow temperature below that of the primary circuit.

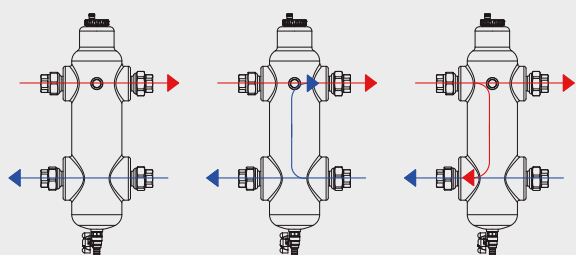
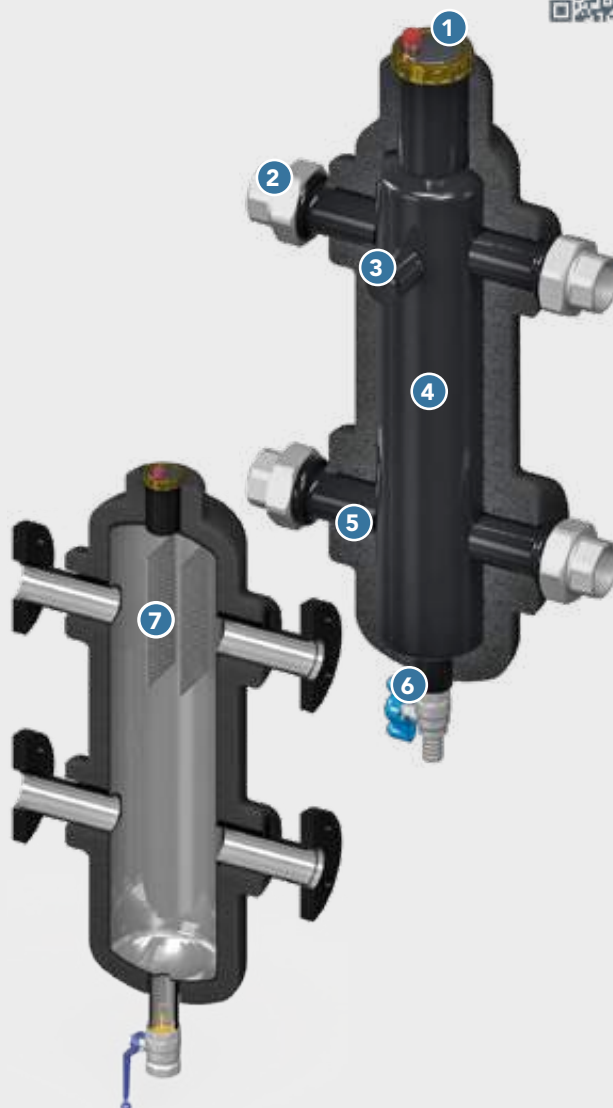


Fig. 1

Fig. 2

Fig. 3



- 1 Air venting valve
- 2 Threaded / flanged connections to connect primary and secondary circuits
- 3 Threaded sleeve to install accessories
- 4 Burnished steel body
- 5 Thermal insulation shell
- 6 Ball valve to discharge sludge
- 7 Double internal sludge/flow septum

Installation and maintenance facilitated by F union connections with flat seat;

Self-cleaning: equipped with discharge cock;

Supplied in a kit complete with insulation shell and gas exhaust device.



### Series 3813

#### Sep MG Compact Inspectable hydraulic separator with compact magnetic sludge remover filter for thermo-cooling control units.

Main body in painted steel on the outside.  
Steel cover painted on the outside.  
Ball valve body and air vent valve in brass.  
Elastomer seals.  
AISI stainless steel filter basket.  
Threaded process connections UNI EN ISO 228.

- Pressure class PN10
- Max operating temperature 95 °C
- Neodymium magnet
- Degree of filtration 100 µm

Features:



Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Outer	Cat.
3813.09.00	G 2"	87,00	1	1	01.01

*Patented.*

Hydraulic separation.  
Direct magnetic filtration.  
Inspectionability.  
Degassing.  
Sludge removal.  
Pressure gauges not supplied, must be ordered separately, code 2549.005 for scale 0-4 bar - code 2579.005 for scale 0-10 bar



### Series 3974

#### Thermal shell Insulation casing consisting of semi- casings and expanded polyethylene cover with external antiscratch coating.

Half-bearings fixed with double-sided adhesive tape already applied.

- Fire behaviour class I
- Density 33 kg/m<sup>3</sup>
- Max operating temperature -40 ÷ +90 °C

Code	Measure	Pack	Outer	Cat.
3974.09.02	2"	1	1	01.01



Thermal insulation suitable for insulating the Sep MG Compact magnetic hydraulic separator



## SEP MG COMPACT

### Hydraulic separator, degasser and magnetic sludge remover filter



**SEP MG Compact** concentrates in a single compact component the functions of a hydraulic separator, magnetic sludge remover filter and degasser, suitable for protecting and separating the primary and secondary circuits of central heating and cooling unit plants.

**SEP MG Compact** allows you to solve:

- hydraulic separation system problems where, among other things, a constant power supply temperature to the utilities is required for the absence of uncontrollable mixing phenomena;
- the elimination of pollution by sand and rust particles formed as a result of corrosion and scaling, reducing the danger of wear and consequent damage to all components making up the system.



Ensures hydraulic separation between the primary and secondary circuits

Removes any impurity

It ensures the energy and functional efficiency of the system

Typical application in industrial, commercial and medium and large-scale civil systems

Reinforced stainless steel filtering mesh with 100 micron filtering degree

Equipped with an easily accessible dosing point for adding treatment chemicals

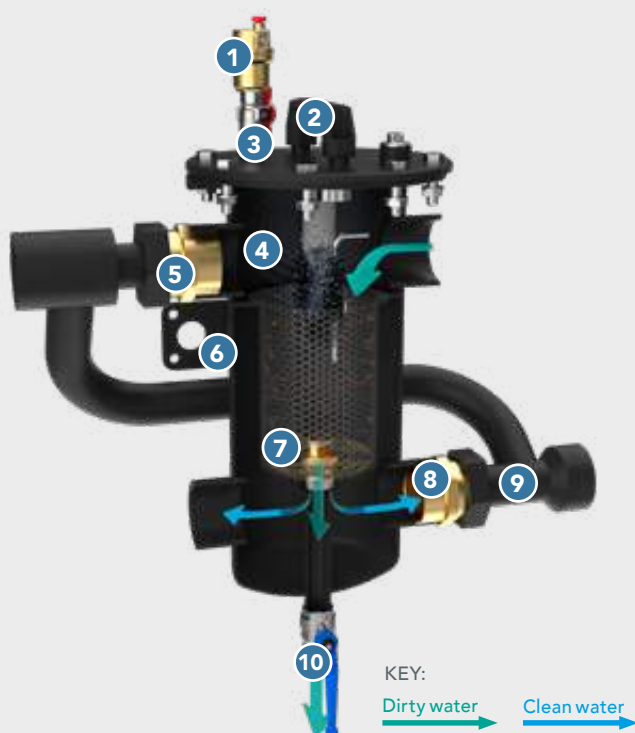
Limited overall dimensions (in relation to the product category)

Reversible connections

Optional in-line installation on boiler rooms

Reduced maintenance costs:

- > magnet protected from contact with water, easy to clean
- > the large removable basket with bottom check valve prevents impurities from falling into the cylindrical body
- > the large filtering surface reduces the frequency of filter maintenance
- > the possibility of cleaning the filter without emptying completely reduces the amount of chemical additives to be replenished after each maintenance operation.
- > filter clogging control gauges on request.



- 1 Automatic air venting valve**  
to eliminate air at the filling stage, complete with the ball shut-off valve
- 2 Inspection cover**
- 3 Magnetic filtering unit**  
powerful neodymium magnet to capture ferrous particles such as rust that form due to corrosion during normal operation of a system, metal debris, processing residues, etc... The magnet is protected from direct contact with water by a removable conduit that facilitates cleaning the filter
- 4 Sudden section increase**  
it causes the fluid to slow down. The settling of particles due to the effect of gravity is favoured
- 5 Injection and separation kit**  
Anchorage of the KIT with unused sleeve shut-off fitting can.
- 6 Wall fixing bracket**
- 7 Filtering wire mesh**  
stainless steel stretched mesh (100 micron filtration degree) contained in a basket that can be easily pulled out from above. This is equipped with an automatic closing shutter, located at the bottom, to prevent impurities from leaking during maintenance
- 8 Revolving fitting**  
for the reversibility of the injection and separation kit
- 9 Injection and separation kit:**
  - It prevents parasitic mixing with the return fluid from the air conditioning system, typical of traditional 4-pipe hydraulic separators, with the consequent inability of the system to guarantee a constant temperature on the secondary circuit;
  - Eliminates thermal stratification phenomena and eliminates the need to reverse the connections for hot and cold distribution;
  - Absence of any reciprocal influence between the primary and secondary circuit pumping system;
  - Absence of a return circulation even if one of the two circuits stops pumping completely.
- 10 Bottom valve**  
for draining the separated, decanted and accumulated material inside the basket.



### Series 3195

#### Multimix Multimix booster unit.

Wall-mounted hydraulic manifold for 2 or 3 zones for heating/cooling systems.

Black water-painted steel body.

Module supplied complete with EPP insulation casing (density 60 g/l) serving as casing and wall support of the whole mixing and booster unit.

Manifold can be transformed, as needed, into manifold/hydraulic separator by the manual opening of a shutter on the manifold (supplied in manifold/separator configuration).

1" M threaded connections from the heat generator. Connections on the user side with 1 1/2" F threaded unions.

Connection set-up for 3/4" F safety unit (delivery) and connection for 3/4" F expansion tank (return). Manifold can be coupled to RD25 - RF MIX25 - RM MIX25 modules.

- Maximum operating pressure 6 bar
- Maximum operating temperature 110 °C
- Minimum cooling temperature 7 °C
- Size l x h x p: 402x525x250 mm (2 branches) - 555x525x250 mm (3 branches)

Code	Measure	Ways	Pack	Outer	Cat.
3195.06.02	DN25	2	1	1	01.01
3196.06.02	DN25	3	1	1	01.01



### Series 3197

#### RD RD Direct booster unit.

High temperature unit for heating/cooling systems complete with:

- High efficiency circulator model model Wilo Yonos Para 25/6;
- 2 shut-off ball valves on system delivery and return with built-in thermometer - 1" F connection;
- Check valve built into system return ball valve, can be excluded for counter washing.

- Maximum operating pressure 6 bar
- Maximum operating temperature 110 °C
- Minimum cooling temperature 7 °C

Code	Measure	Pack	Outer	Cat.
3197.06.02	DN25	1	1	01.01



### Series 3198

#### RF MIX mixing unit.

Fixed point mixed unit for heating only systems, complete with:

- 3-way mixer valve and thermostatic actuator;
- Safety contact thermostat on supply pipe (only model RF MIX B.T.);
- High efficiency circulator model model Wilo Yonos Para 25/6;
- 2 shut-off ball valves on system delivery and return with built-in thermometer - 1" F connection;
- Check valve built into system return ball valve, can be excluded for counter washing.

- Maximum operating pressure 6 bar
- Maximum operating temperature 110 °C

#### RF MIX B.T. - Low Temperature Fixed Point Booster

Code	Measure	Pack	Outer	Cat.
3198.06.00	DN25	1	1	01.01

Supply inclusive of thermostatic head model TL50.  
Temperature adjustment range 25÷52 °C

#### RF MIX A.T. - High Temperature Fixed Point Booster

Code	Measure	Pack	Outer	Cat.
3198.06.10	DN25	1	1	01.01

Supply inclusive of thermostatic head model TL70S.  
Temperature range 40÷70 °C



Kit components (booster module and thermostatic head) supplied in 2 separate packages.





### Series 3199

#### RM MIX

##### RM MIX mixing unit.

Mixed unit designed for shifting temperature for heating/cooling systems, complete with:

- 3-way mixer valve (Actuator to couple separately depending on electronic temperature control chosen - see range of actuators);
- High efficiency circulator model model Wilo Yonos Para 25/6;
- 2 shut-off ball valves on system delivery and return with built-in thermometer - 1" F connection;
- Check valve built into system return ball valve, can be excluded for counter washing.
- Maximum operating pressure 6 bar
- Maximum operating temperature 110 °C
- Minimum cooling temperature 7 °C

Code	Measure	Pack	Outer	Cat.
3199.06.02	DN25	1	1	01.01



Optional actuator series 3232 and 3233 to be ordered separately depending on the electronic temperature control chosen.





## MULTIMIX DN25



**RBM MULTIMIX** is a hydronic distribution unit for thermal systems capable of managing 2 or 3 zones. It is characterised by compact size allowing it to be installed right below the boiler.

The different thermal zones can be supplied by 3 different types of booster unit.

The types of booster units are as follows:

- **RD:** direct booster unit (without mixing, for zones supplied with water at the same temperature(\*) as the one produced by the heat generator).
- **RF MIX:** booster unit mixed at fixed point (constant temperature). RF MIX is supplied with two different thermostatic control models for heating only systems in high or low temperature.
- **RM MIX:** modulating mixed booster unit (shifting temperature). Can be coupled to different electric rotary actuators, chosen depending on the type of temperature control selected.

(\*) minus the natural "thermal drop" on the hydraulic separator.



Combined and modular distribution system

Modular insulation shell (in EPP 40 g/l) with self-bearing function for wall mounting

Hydraulic distribution manifold/separator. RBM MULTIMIX DN25 is equipped with an innovative system which, through the manual intervention of a threaded shutter, can separate or joint the supply chamber with the return chamber, thus transforming the manifold/separator into a simple manifold and vice versa

Possibility of installing module even underneath boiler thanks to its compact size

Simplified hydraulic connections and seals ensured by flat stops

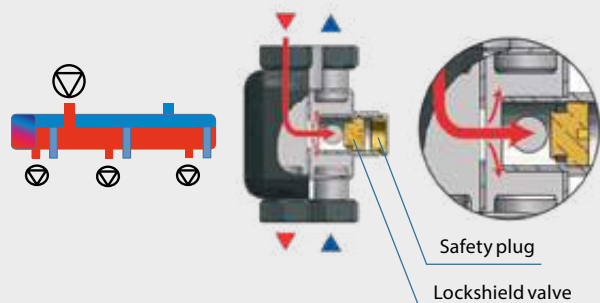
Possibility of simultaneous installation of different types of booster units according to different requirements (e.g. 3 direct / 3 mixed / 2 direct + 1 mixed / 1 direct + 2 mixed)

Set up for installation of a automatic temperature control unit with external probe for shifting temperature mixing unit.



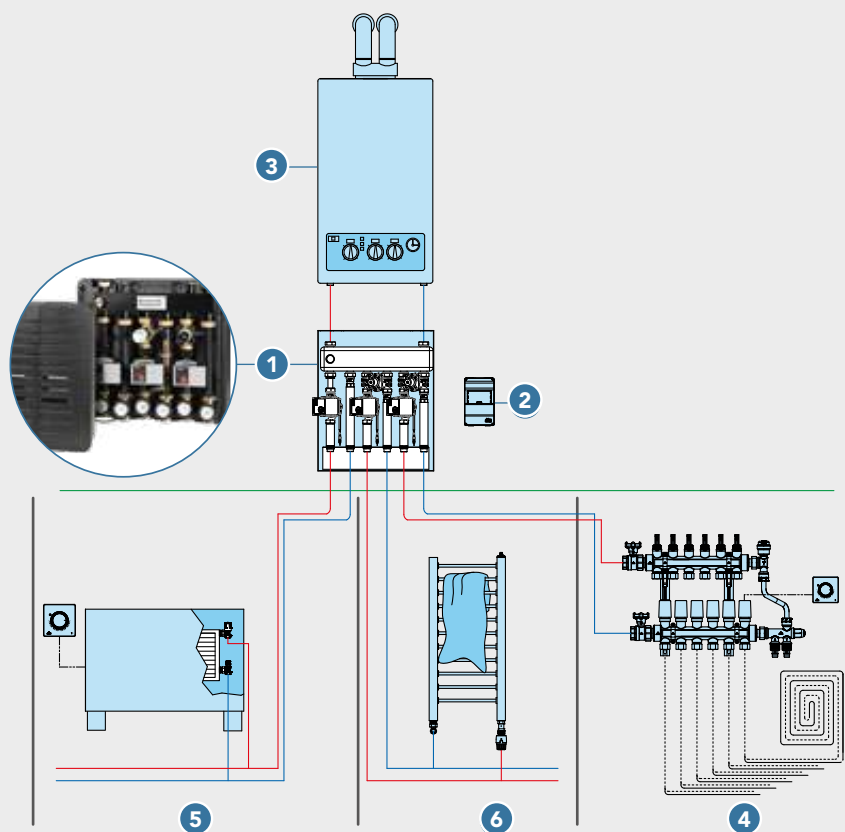
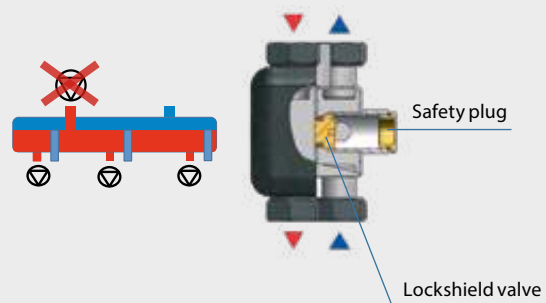
**CONFIGURATION WITH SHUTTER OPEN:  
"COMMUNICATING CHAMBERS"**  
(standard configuration in which the module is supplied).

The communication between the supply and return chambers makes it possible to manage a system with one or more circulators which interact upstream and downstream of the manifold/separator.



**CONFIGURATION WITH SHUTTER CLOSED:  
"SEPARATE CHAMBERS"**  
(configurazione standard in cui viene fornito il modulo).

Configuration necessary when there is no circulator upstream of the manifold which supplies it directly.



1 RBM MULTIMIX distribution unit

2 Temperature control

3 Boiler

4 Underfloor circuit (RM MIX low temperature)

5 Fan-coil circuit (RD high temperature)

6 Radiator circuit (RF MIX high temperature)



### Series 3219

#### Multimax S32 Hydraulic separator MULTIMIX S32.

Hydraulic separator with 1"1/2 M threaded connections, body made of galvanised steel (Fe 37.1) colour RAL 9004, complete with polyurethane foam insulation covered with aluminium sheet. Complete with set-up for:

- Air vent 1/2" F connection (unplugged when supplied - any plug to be provided by the installer);
  - 1/2" F safety unit connection (unplugged when supplied - any plug to be provided by the installer);
  - System sludge drain (2" F hole complete with plug when supplied and positioned on the opposite side of the separator with respect to the manifold);
  - 1"1/4 F threaded blind hole on the bottom for fastening the support foot (foot not included).
- Qn max 6.5 m<sup>3</sup>/h
  - Maximum operating pressure 6 bar
  - Maximum operating temperature 120 °C

Code	Measure	Pack	Outer	Cat.
3219.07.02	DN 40	1	1	01.01



### Series 3222

#### Insulated pipe kit to connect Multimax S32 vertical separator and Multimax C32 zone manifold.

Pipes supplied complete with 2 1"1/2 x 2" reducing couplings for connection on Multimax S32 hydraulic separator side.

- Qn max 6.5 m<sup>3</sup>/h
- Maximum operating pressure 6 bar
- Maximum operating temperature 100 °C
- Capacity 4.8 l

Code	Measure	Ways	Pack	Outer	Cat.
3222.07.02	DN 32	2-3	1	1	01.01
3222.07.12	DN 32	4-5	1	1	01.01



### Series 3223

#### Multimax C32 Multimax C32 zone manifold.

Wall-mounted zone manifolds with double chamber for 2, 3, 4 and 5 zones for heating/cooling systems.

2" M threaded connections from the heat generator - centre distance 125 mm, connections to the areas with 2" F threaded fittings - centre distance 125 mm.

Steel body in black water paint (ST37.1 - RAL 9004), complete with black EPP insulation (density 40 g/l). Square profile manifold.

Supply chamber equal to Ø52 mm (for DN50).

Return chamber equal to Ø41 mm (for DN40).

1" F connection for safety unit (delivery).

3/4" F connection for expansion tank (return).

Possibility of screwing mixing units set up for metering RD25 CONT, RF25 CONT and RM25 CONT by means of specific reductions code 3237.06.02

- Maximum power 120 kW (Δt 20 °C)
- Maximum operating pressure 6 bar
- Maximum operating temperature 120 °C
- Minimum operating temperature 7 °C

Code	Measure	Ways	Pack	Outer	Cat.
3223.07.02	DN 32	2	1	1	01.01
3224.07.02	DN 32	3	1	1	01.01
3225.07.02	DN 32	4	1	1	01.01
3226.07.02	DN 32	5	1	1	01.01





### Series 3227

**Wall support kit for Multimix C32 zone manifold.**

Code	Pack	Outer	Cat.
3227.00.02	1	1	01.01



### Series 3228

#### RD32

**RD32 Direct booster unit.**

High temperature unit for heating/cooling systems complete with:

- High efficiency circulator, model Wilo Yonos Para 30/1-6;
- Ball valve with thermometer on system supply and return line;
- Spacer fitting with check valve;
- Black EPP insulation (density 40 g/l).

Maximum flow rate 3000 l/h  
 Maximum power ( $\Delta t = 20^\circ\text{C}$ ) 69,7 KW  
 DN32 - 1"1/4 nominal diameter  
 Brass ball valves  
 Check valve in acetalic resin (POM)  
 Elastomer gaskets  
 1"1/4 F x 2" M connections

- Maximum operating pressure 6 bar
- Maximum operating temperature 120 °C
- Minimum cooling temperature 11 °C

Code	Measure	Pack	Outer	Cat.
3228.07.02	DN 32	1	1	01.01



### Series 3229

#### RM MIX32

**RM MIX32 mixing unit.**

Mixing unit for heating/cooling system complete with:

- 3-way mixer valve (Actuator to couple separately according to temperature control chosen - see range of actuators);
- High efficiency circulator, model Wilo Yonos Para 30/1-6;
- Ball valve with thermometer on system supply and return line;
- Spacer fitting with check valve;
- Black EPP insulation (density 40 g/l).

Maximum flow rate 2400 l/h  
 Maximum power ( $\Delta t = 20^\circ\text{C}$ ) 41.3 kW  
 DN32 - 1"1/4 nominal diameter  
 Brass ball valves  
 Check valve in acetalic resin (POM)  
 Elastomer gaskets  
 1"1/4 F x 2" M connections

- Maximum operating pressure 6 bar
- Maximum operating temperature 120 °C
- Minimum cooling temperature 11 °C

Code	Measure	Pack	Outer	Cat.
3229.07.02	DN 32	1	1	01.01



Optional actuator series 3232 and 3233 to be ordered separately depending on the electronic temperature control chosen.





### Series 3234

#### RD25 CONT

##### Direct booster unit, set up for heat metering, RD25 CONT.

High temperature unit for heating/cooling systems complete with:

- High efficiency circulator, model Wilo Yonos Para 25/1-6;
- 2 1" F ball valves on system delivery and return, each complete with thermometer;
- Check valve built into the system return ball valve (can be excluded for counter washing);
- 1" - L 130 mm polymer template on system return line for future calorimeter installation with nQ 2.5 m<sup>3</sup>/h /Microclima HC25 model (various models available);
- Delivery probe holder well for calorimeter;
- Insulation in black EPP (density 40 g/l).

Nominal diameter: DN25 - 1"

Brass ball valves

Check valve in acetal resin (POM)

Elastomer gaskets

1" F x 1 1/2 M connections

- Maximum operating pressure 6 bar
- Maximum operating temperature 120 °C

Code	Measure	Pack	Outer	Cat.
3234.06.02	DN 25	1	1	01.01



Unit set up for installation on Multimix C32 series 3223 central manifold



For installation on DN32 manifold, provide specific reduction code 3237.06.02  
For the meter range, see Group 3 - Utility systems.



### Series 3235

#### Fixed point booster unit, set up for heat metering RF25 CONT.

Fixed point mixed unit for heating only systems, complete with:

- High efficiency circulator, model Wilo Yonos Para 25/1-6;
- 3-way mixer valve equipped with upper bypass (mixed system side) and thermostatic actuator;
- Safety contact thermostat on supply pipe (only model RF MIX B.T)
- Polymer template on system 1" - L 130 mm return line for future calorimeter installation with nQ 2.5 m<sup>3</sup>/h /Microclima HC25 model (various models available);
- Delivery probe holder well for calorimeter;
- Insulation in black EPP (density 40 g/l).

Nominal diameter: DN25 - 1"

Brass ball valves

Acetal resin (POM) check valve

Elastomer gaskets

1" F x 1 1/2 M connections

- Maximum operating pressure 6 bar
- Maximum operating temperature 120 °C

RF25 CONT B.T. - Low Temperature Fixed Point Booster designed for metering purposes

Code	Measure	Pack	Outer	Cat.
3235.06.00	DN 25	1	1	01.01

Supply inclusive of thermostatic head model TL50.  
Temperature adjustment range 25÷52 °C

RF25 CONT A.T. High Temperature Fixed Point Booster designed for metering purposes

Code	Measure	Pack	Outer	Cat.
3235.06.10	DN 25	1	1	01.01

Supply inclusive of thermostatic head model TL70S.  
Temperature range 40÷70 °C



Unit set up for installation on Multimix C32 series 3223 central manifold



For installation on DN32 manifold, provide specific reduction code 3237.06.02  
For the meter range, see Group 3 - Utility systems.  
Kit components (booster module and thermostatic head) supplied in 2 separate packages.







### Series 3236

#### RM25 CONT

##### Climatic booster unit, set up for heat metering.

Mixing unit with shifting temperature or heating/cooling systems, complete with:

- High efficiency circulator, model Wilo Yonos Para 25/1-6;
- 3-way mixer valve (Actuator to couple separately according to temperature control chosen - see range of actuators);
- 1" polymer template on system - L 130 mm return line for future calorimeter installation with nQ 2.5 m<sup>3</sup>/h / Microclima HC25 model (various models available);
- Delivery probe holder well for calorimeter;
- Insulation in black EPP (density 40 g/l).

Nominal diameter: DN25 - 1"

Brass ball valves

Acetal resin (POM) check valve

Elastomer gaskets

1" F x 1 1/2" M connections

- Maximum operating pressure 6 bar
- Maximum operating temperature 120°C

Code	Pack	Outer	Cat.
3236.06.02	1	1	01.01



Unit set up for installation on Multimix C32 series 3223 central manifold



For installation on DN32 manifold, provide specific reduction code 3237.06.02

For the meter range, see Group 3 - Utility systems.

Optional actuator series 3232 and 3233 to be ordered separately depending on the electronic temperature control chosen.



## MULTIMIX DN32

**RBM MULTIMIX DN32** is a hydronic system used in the distribution and management of zone system utilities both for winter heating and summer cooling.

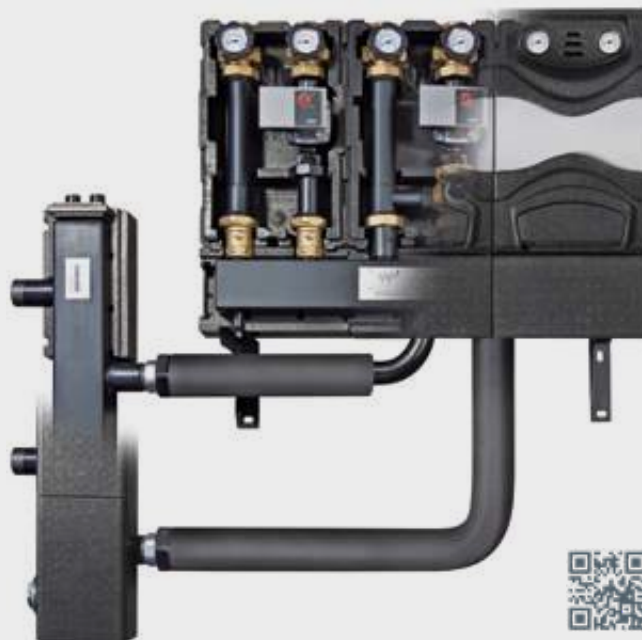
It consists of a hydraulic separator and a distribution manifold (from 2 to 5 zones) connected one to another by pre-insulated pipes and relative booster units, available in two versions:

- **RD:** Direct booster unit (without mixing, for zones supplied with water at the same temperature<sup>(\*)</sup> as the one produced by the heat generator).

- **RF MIX:** Modulating mixed booster unit (shifting temperature). Can be coupled to different electric rotary actuators, chosen depending on the type of temperature control selected.

In addition, DN25 booster units designed for metering are available, requiring a specific reducer for connection to the MULTIMIX C32 manifold.

(\*) minus the natural "thermal drop" on the hydraulic separator.



Combined and modular distribution system

Manifold, separator, connection pipes and booster units thermally insulated with EPP 40 g/l shells

Simplified hydraulic connections and seals ensured by flat stops

Rationalisation of space in boiler room

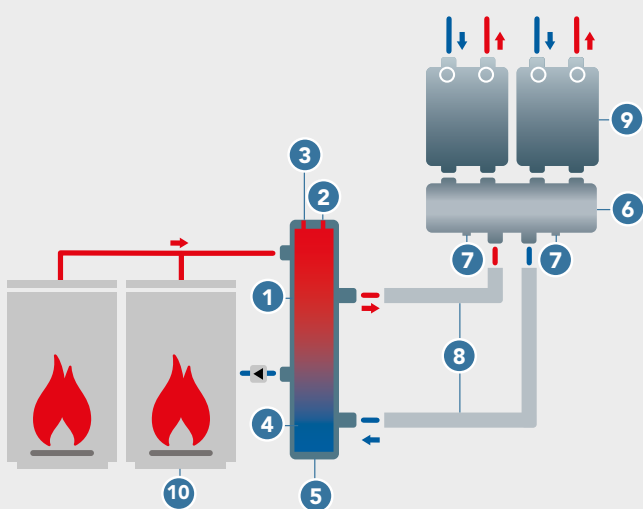
Set up for installation of one or more temperature control units for shifting temperature mixing unit

Up to 5 thermal zones

High flow rates

Possibility of direct metering to divide consumptions (only with DN25 booster unit)

### FUNCTIONAL HYDRAULIC DIAGRAM MULTIMIX DN32 UNIT



- 1 Hydraulic separator MULTIMIX S32 code 3219.07.02
- 2 Connection for air vent
- 3 Connection for temperature probe holder
- 4 System load-drain / sludge discharge
- 5 Connection for support foot (foot not supplied)
- 6 MULTIMIX C32 zone manifold (2-3-4-5 utilities)
- 7 Wall manifold support connection
- 8 Connection piping kit code 3222.07.X2
- 9 Direct booster unit RD32 code 3228.07.02 / mixed RM MIX32 code 3229.07.02
- 10 Heat generator

**Series 3237**

**Pair of reduction fittings for connection of DN25 units on DN32 manifold.**

Code	Size A	Size B	Pack	Outer	Cat.
<b>3237.06.02</b>	2" M	1"1/2 F	1	1	01.01

**Series 3232**

**Electric rotary actuator for mixer valves.**

- Power supply: AC 24V
- Motor starting time: 120s
- Protection class: IP54
- Operating torque: 5Nm
- Operation: manual with push button, fixed or temporary.
- NR 230V - 3 Points - 120s - 5Nm
- NR 2V - 3 Points - 120s - 5Nm
- NR 24V - 0÷10V - 120s - 5Nm

Code	Power supply	Pack	Outer	Cat.
<b>3232.00.02</b>	230V 3 POINTS	1	1	01.01
<b>3232.00.12</b>	24V 3 POINTS	1	1	01.01
<b>3232.00.22</b>	24V 0÷10V	1	1	01.01

**Series 3233**

**Electric rotary actuator for mixer valves equipped with built-in fixed point adjustment.**

Fixed point adjustment in heating/cooling.  
Including delivery probe

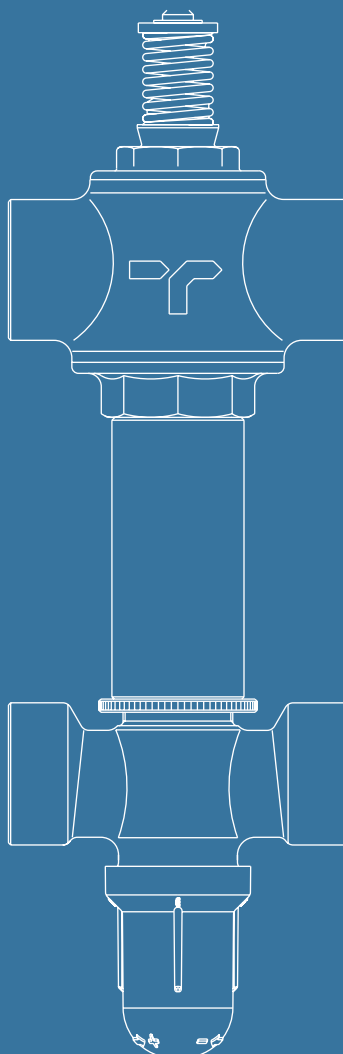
- NR 230V - 120s - 6Nm

Code	Power supply	Pack	Outer	Cat.
<b>3233.00.02</b>	230V	1	1	01.01



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## 02. ZONE VALVES

### 02.01 ZONE VALVES

26

Compact zone valves

Actuators for compact zone valves



### Series 814

**2-way motorised compact zone valve. Normally closed with actuator not powered.**

Nickel brass body.  
Obturator and seal in elastomer.  
Elastomer rod seals.  
Stainless steel springs.  
Handwheel for manual opening in ABS.  
Threaded connections MM UNI-EN-ISO 228.

- Max operating temperature 95 °C
- Max operating pressure 10 Bar
- Max differential pressure 1 Bar

Code	Measure	Pack	Outer	Cat.
814.04.20	G 1/2"	1	10	02.01
814.05.20	G 3/4"	1	10	02.01
814.06.20	G 1"	1	10	02.01



Prearranged for thermo-electric actuators code 2944.00.X2



### Series 813

**3-way motorised compact zone valve. Normally closed on straight way with actuator not powered.**

Nickel brass body.  
Obturator and seal in elastomer.  
Elastomer rod seals.  
Stainless steel springs.  
Handwheel for manual opening in ABS.  
Threaded connections MM UNI-EN-ISO 228.

- Max operating temperature 95 °C
- Max operating pressure 10 Bar
- Max differential pressure 1 Bar

Code	Measure	Pack	Outer	Cat.
813.04.20	G 1/2"	1	10	02.01
813.05.20	G 3/4"	1	10	02.01
813.06.20	G 1"	1	10	02.01



Prearranged for thermo-electric actuators code 2944.00.X2



### Series 736

**4-way motorised compact zone valve. Normally closed on straight way with actuator mounted, not powered. Can be coupled to Monoblock coplanar manifolds.**

Nickel brass body.  
Obturator and seal in elastomer.  
Elastomer rod seals.  
Stainless steel springs.  
Handwheel for manual opening in ABS.  
In-line threaded union couplings FF UNI-EN-ISO 228.  
Centre distance 50 ÷ 55mm.

- Max operating temperature 95 °C
- Max operating pressure 10 Bar
- Max differential pressure 1 Bar

Code	Measure	Ways	Pack	Outer	Cat.
736.04.20	G 1/2"	4	1	10	02.01
736.05.20	G 3/4"	4	1	10	02.01
736.06.20	G 1"	4	1	10	02.01



Prearranged for thermo-electric actuators code 2944.00.X2







### Series 3758.A

**Fancoil 2-way motorised zone valve.  
Normally closed with actuator not powered.**

Nickel brass body.  
EPDM+PEROX shutter and seal.  
EPDM+PEROX rod seals.  
AISI302 stainless steel springs.  
Cap for manual opening in ABS.  
Threaded in-line connections FF UNI-EN-ISO 228.

- Max operating temperature +95 °C
- Max operating pressure 10 Bar
- Max differential pressure 1 Bar

Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Cat.
3758.04.20	G 1/2"	1.64	1	02.01
3758.05.20	G 3/4"	2.87	1	02.01



### Series 3758.B

**Fancoil 4-way motorised zone valve.  
Normally closed with actuator not powered.**

Nickel brass body.  
EPDM+PEROX shutter and seal.  
EPDM+PEROX rod seals.  
AISI302 stainless steel springs.  
Cap for manual opening in ABS.  
Threaded in-line connections FF UNI-EN-ISO 228.

- Max operating temperature +95 °C
- Max operating pressure 10 Bar
- Max differential pressure 1 Bar

Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Cat.
3758.04.40	G 1/2"	1.31	1	02.01
3758.05.40	G 3/4"	2.98	1	02.01





### Series 2944.A

**Thermo-electrically controlled actuator for compact zone valves, complete with valve body clamping ring nut and electric power cable.**

Normally closed valve position when power missing.

- Power supply 24/230 V
- Consumption 2,5 W
- Frequency 50/60 Hz
- Electric protection IP54
- Operating temperature  $+5 \div +50$  °C
- Switch contact rating (0.5A) 1 A (if any)
- 5 mm stroke
- Size (l x h x p): 44x52x60 mm

Certifications:



#### Thermo-electrically controlled actuator

Code	Power supply	Pack	Outer	Cat.
<b>2944.00.02</b>	230V AC	1	50	02.01
<b>2944.00.12</b>	24V AC	1	50	02.01

*Version without auxiliary microswitch (2 wires)*

#### Thermo-electrically controlled actuator with auxiliary microswitch

Code	Power supply	Pack	Outer	Cat.
<b>2944.00.42</b>	230V AC	1	50	02.01
<b>2944.00.52</b>	24V AC	1	50	02.01

*Version supplied with auxiliary microswitch (4 wires)*



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**03. UTILITY SYSTEMS**

**03.02 UTILITY SATELLITES**

30

Utility satellites

## Series 3239



Code	Measure	DHW (kW)	Pack	Outer	Cat.
3239.05.02	3/4"	40	1	1	03.02

### Micromega NEW zone module. For heating and Domestic Hot Water instant production.

Recessed substation for heating and instantly producing domestic hot water, suitable for installation in flats and detached houses with centralised systems.

Consisting of:

Brazed stainless steel heat exchanger, 20 plates;  
 DHW outlet thermostatic valve probe holder well;  
 Variable-calibration differential valve 5-30 kPa;  
 3-way valve with proportional thermostatic regulation;  
 Manual air vent valve;  
 Template for meter AFS L 80 mm, 3/4" M connections;  
 Template for thermal energy meter L 110 mm, connections 3/4" M;  
 Meter delivery probe well;  
 Primary delivery Y filter;  
 Heating circuit ON-OFF 2-way valve;  
 230 V or 24 V electric actuator (actuator supplied separately, see accessories section);  
 Balancing lockshield valve.

- Primary fluid maximum operating temperature 85 °C
- Maximum operating pressure 10 Bar
- Power supply 230 V
- Minimum domestic cold water temperature 10 °C
- Domestic hot water maximum temperature 50 °C
- Exchanger nominal power 40 kW
- Dimensions 570x800x160 mm



Domestic Hot Water instant production  
 Thermo-electric actuator series 2881 to be ordered separately (see page 243).



## Series 3240



Code	Measure	DHW (kW)	Pack	Outer	Cat.
3240.05.02	3/4"	40	1	1	03.02

### Micromega MIX zone module. For heating and Domestic Hot Water instant production.

Recessed substation for heating and instantly producing domestic hot water, suitable for installation in flats and detached houses with centralised systems.

Consisting of:

Brazed stainless steel heat exchanger, 20 plates;  
 DHW outlet thermostatic valve probe holder well;  
 Variable-calibration differential valve 5-30 kPa;  
 3-way valve with proportional thermostatic regulation;  
 Manual air vent valve;  
 Template for meter AFS L 80 mm, 3/4" M connections;  
 Template for thermal energy meter L 110 mm, connections 3/4" M;  
 Meter delivery probe well;  
 Primary delivery Y filter;  
 3-way mixing valve on heating side. Fixed point management (Thermostatic control supplied separately, see accessories section);  
 High-efficiency electronic circulator Wilo Para SC 15/6;  
 Check valve.

- Primary fluid maximum operating temperature 85 °C
- Maximum operating pressure 10 Bar
- Power supply 230 V
- Minimum domestic cold water temperature 10 °C
- Domestic hot water maximum temperature 50 °C
- Exchanger nominal power 40 kW
- Dimensions 570x800x160 mm



Domestic Hot Water instant production  
 Thermostatic control model TL50 or TL70 M to be ordered separately (see page 345).



**Series 3241**

Code	Pack	Outer	Cat.
3241.05.02	1	1	03.02

**Installation and shut-off template for Micromega 3239 and 3240 Series modules.**

Shut-off kit consisting of a galvanised steel template, ball valves and check valves downstream of the module.

- Ball valves, 3/4" F connection

**Series 3242**

Code	Pack	Outer	Cat.
3242.00.02	1	1	03.02

**Series 3239 and 3240 Micromega module recessed box.**

Galvanised steel recessed containment box complete with frame and door.

- Colour: white
- Dimensions (lxhxd): 570x800x160 mm





## Series 3891



Code	Measure	DHW (kW)	Pack	Outer	Cat.
3891.00.00	3/4"	80	1	1	03.02

### HIUltra

#### Utility satellite for instantaneous production of domestic hot water and winter climate control.

It is the ideal solution for distributing, regulating and metering the thermal energy produced in centralised system contexts.

The satellite is designed to meet the heating and domestic hot water needs which, like for a wall-mounted boiler, is produced instantaneously on demand by the utility.

RBM's HIUltra is equipped with an electronic regulator which, through the return temperature control of the system, performs single control functions to optimise performance and operation.

Hydraulic units featuring an advanced technology structure that is widely established in the world of wall boilers

Full adjustment of the heating and DHW functions

Optimisation of the heating control also with climate compensation and on the system return line

DHW production function quick response

Set up to manage system functions with prepaid mode

Complete with fully insulated box

Equipped with dynamic balancing function and regulation with pressure independent valve (PICV)

- Maximum primary circuit pressure (DH) 16 bar
- Maximum primary circuit temperature (DH) 90° C
- Maximum primary circuit differential pressure (DH) 4 bar
- Max heating (RISC) circ. pressure/relief valve setting 3 bar
- Max DHW output at 1300 l/h with 80° C primary circuit (DH) and ΔT 40° C: 80 kW
- Max HEAT output at 1300 l/h with 80° C primary circuit (DH): 30 kW
- Dimensions 585x465x265 mm



For further technical information, see the use and installation manual MI3891.0\_00 HIUltra utility satellite.

Certifications:



# 01. HYDROTHERMAL DISTRIBUTION

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## 04. RADIATOR AND FAN COIL DISTRIBUTION

### 04.01 RADIATOR AND FAN COIL DISTRIBUTION

35

Manifolds for air-conditioning systems

Manifolds for large flow rates

Accessories for manifolds

Plastic housing boxes



### Series 34

#### Monoblock® Single modular manifold, with in-line connections and unilateral junctions.

Nickel brass body.  
Junction connections, centre distance 37 mm  
threaded M standard RBM, for copper,  
polyethylene and multilayer pipe fittings.  
Threaded in-line connections MF UNI-EN-ISO 228.

- Max operating temperature 110°C
- Max operating pressure 10 Bar



Code	Measure	Ways	Pack	Outer	Cat.
34.05.00	G 3/4"	1	10	40	04.01
35.05.00	G 3/4"	2	10	40	04.01
36.05.00	G 3/4"	3	10	40	04.01
34.06.00	G 1"	1	10	40	04.01
35.06.00	G 1"	2	10	40	04.01
36.06.00	G 1"	3	10	40	04.01
35.07.00	G 1"1/4	2	10	40	04.01
36.07.00	G 1"1/4	3	10	40	04.01

Standard RBM thread W24.5x19F junction side



Use fittings with RBM Standard thread for pipe connection.  
Please use brackets cod. 129.0X.00 for fixing in plastic boxes or  
brackets cod. 899.00.00 for fixing in metal boxes.



### Series 35.A

#### Monoblock® Module for G1/2" modular simple manifold, female junctions

Nickel brass body.  
FG1/2" threaded junction connections, centre  
distance 37 mm, UNI-EN-ISO 228.  
Threaded in-line connections MF UNI-EN-ISO 228.

- Max operating temperature 110°C
- Max operating pressure 10 Bar

Certifications:



Code	Measure	Ways	Pack	Outer	Cat.
35.05.40	G 3/4" MF	2x1/2"F	10	40	04.01
36.05.40	G 3/4" MF	3x1/2"F	10	40	04.01
35.06.40	G 1" MF	2x1/2"F	10	40	04.01
36.06.40	G 1" MF	3x1/2"F	10	40	04.01

Junctions side thread FG1/2"



Please use brackets cod. 129.0X.00 for fixing in plastic boxes or  
brackets cod. 899.00.00 for fixing in metal boxes.



### Series 35.B

#### Monoblock® Module for modular simple manifold, G1/2" male junctions

Nickel brass body.  
M G1/2" threaded junction connections, centre  
distance 37 mm, for multilayer pipe fittings.  
Threaded in-line connections MF UNI-EN-ISO 228.

- Max operating temperature 110°C
- Max operating pressure 10 Bar

Certifications:



Code	Measure	Ways	Pack	Outer	Cat.
35.05.50	G 3/4" M	2x1/2"M	10	40	04.01
36.05.50	G 3/4" M	3x1/2"M	10	40	04.01
35.06.50	G 1" M	2x1/2"M	10	40	04.01
36.06.50	G 1" M	3x1/2"M	10	40	04.01

Junctions side thread M G1/2"



Use series 2796 fittings with G1/2" thread (see page 105) for pipe  
connection.  
Please use brackets cod. 129.0X.00 for fixing in plastic boxes or  
brackets cod. 899.00.00 for fixing in metal boxes.





### Series 63

#### Monoblock® Manifold, single, with in-line connections and unilateral junctions.

Nickel brass body.  
Junction connections, centre distance 37 mm  
threaded M standard RBM for copper,  
polyethylene and multilayer pipe fittings.  
Threaded in-line connections FF UNI-EN-ISO 228.

- Max operating temperature 110°C
- Max operating pressure 10 Bar

Certifications:



Code	Measure	Ways	Pack	Outer	Cat.
63.05.00	G 3/4"	4	3	12	04.01
63.05.20	G 3/4"	5	3	12	04.01
64.05.00	G 3/4"	6	3	12	04.01
64.05.20	G 3/4"	7	3	12	04.01
65.05.00	G 3/4"	8	3	12	04.01
63.06.00	G 1"	4	3	12	04.01
63.06.20	G 1"	5	3	12	04.01
64.06.00	G 1"	6	3	12	04.01
64.06.20	G 1"	7	3	12	04.01
65.06.00	G 1"	8	3	12	04.01
66.06.00	G 1"	10	3	12	04.01



Use fittings with RBM Standard thread for pipe connection.  
Please use brackets cod. 129.0X.00 for fixing in plastic boxes or  
brackets cod. 899.00.00 for fixing in metal boxes.



### Series 1150

#### Insulation shell for RBM Single Monoblock manifold made up from expanded polyethylene half-bearings with external antiscratch coating.

Complete with clips to fix half-bearings.

- Fire behaviour class I
- Density 33 kg/m<sup>3</sup>
- Max operating temperature -40 ÷ +90°C

Code	Measure	Ways	Pack	Outer	Cat.
1150.05.00	3/4"	2	5	5	04.01
1150.05.10	3/4"	3	5	5	04.01
1150.05.20	3/4"	4	5	5	04.01
1150.05.30	3/4"	5	1	5	04.01
1150.05.40	3/4"	6	5	5	04.01
1150.05.50	3/4"	7	1	20	04.01
1150.05.60	3/4"	8	1	1	04.01
1150.06.00	1"	2	1	5	04.01
1150.06.10	1"	3	1	5	04.01
1150.06.20	1"	4	1	5	04.01
1150.06.30	1"	5	1	5	04.01
1150.06.40	1"	6	1	5	04.01
1150.06.50	1"	7	1	1	04.01
1150.06.60	1"	8	1	1	04.01
1150.06.80	1"	10	1	30	04.01
3102.07.20	1"1/4	2	1	15	04.01
3102.07.30	1"1/4	3	1	10	04.01



Thermal insulation suitable for manifolds with junction  
connections 37 mm centre distance.



### Series 293

#### Module for modular simple manifold, centre distance 50mm, flat seat, G 1/2"

Nickel brass body.  
Junction connections, M G 1/2", flat seat for  
copper, polyethylene and multilayer pipe fittings.  
Centre distance 50 mm.

- Max operating temperature 110°C
- Max operating pressure 10 Bar

Certifications:



Code	Size A	Size B	Ways	Pack	Outer	Cat.
293.05.00	G 3/4"	G 1/2"	3	10	40	04.01
294.05.00	G 3/4"	G 1/2"	4	10	40	04.01
295.05.00	G 3/4"	G 1/2"	5	8	32	04.01
296.05.00	G 3/4"	G 1/2"	6	5	20	04.01
297.05.00	G 3/4"	G 1/2"	7	5	20	04.01
298.05.00	G 3/4"	G 1/2"	8	5	20	04.01

Junctions side thread M G 1/2" (flat seat)



Use fittings with G1/2" thread, flat seat (see page 104) for pipe  
connection.  
Please use brackets cod. 899.00.00 for fixing in metal boxes.





### Series 100

#### Single modular manifold, with in-line connections and one-way lateral junctions.

Nickel brass body.  
Euroconus M3/4" threaded junction connections, centre distance 50 mm, for copper, polyethylene and multilayer pipe fittings.  
Threaded in-line connections MF UNI-EN-ISO 228.

- Max operating temperature 110°C
- Max operating pressure 10 Bar

Certifications:



Code	Measure	Ways	Pack	Outer	Cat.
<b>100.06.50</b>	G 1"	2x3/4"	10	10	04.01
<b>101.06.50</b>	G 1"	3x3/4"	8	8	04.01
<b>102.06.50</b>	G 1"	4x3/4"	3	3	04.01

EUROCONUS thread G3/4" UNI-EN-ISO 228



Use fittings with Euroconus G3/4" thread for pipe connection.  
Use brackets cod. 219.OX.00 for metal case fastening.



### Series 3202.A

#### Modular brass manifold kit.

Each kit contains:  
n° 1 multi-way manifold unit complete with micrometric lockshield valves with graduated handwheel;  
n° 1 multi-way manifold unit complete with valves with thermostatic option with hand wheel;  
1 pair of steel brackets for fixing manifolds.

- Temperature range 0÷100°C
- Max operating pressure 10 Bar

Code	Measure	Ways	Pack	Outer	Cat.
<b>3202.06.90</b>	1"	2+2	1	1	04.01
<b>3203.06.90</b>	1"	3+3	1	1	04.01
<b>3204.06.90</b>	1"	4+4	1	1	04.01
<b>3205.06.90</b>	1"	5+5	1	1	04.01
<b>3206.06.90</b>	1"	6+6	1	1	04.01
<b>3207.06.90</b>	1"	7+7	1	1	04.01
<b>3208.06.90</b>	1"	8+8	1	1	04.01
<b>3209.06.90</b>	1"	9+9	1	1	04.01
<b>3210.06.90</b>	1"	10+10	1	1	04.01
<b>3211.06.90</b>	1"	11+11	1	1	04.01
<b>3212.06.90</b>	1"	12+12	1	1	04.01
<b>3213.06.90</b>	1"	13+13	1	1	04.01
<b>3214.06.90</b>	1"	14+14	1	1	04.01

Centre distance between connections via distribution manifolds 37 mm - threading Standard RBM W24,5x19F

Manifold kit can be inserted in walls constructed in 8 cm box, plastered.



Composition with adjustable lockshield valves with graduated handwheel.

Use fittings for multilayer pipe with Standard RBM thread for pipe connection.

Use fittings for polyethylene pipe with Standard RBM thread for pipe connection.



Set up Series 3189 thermo-electric actuators to automatically shut off the single circuits.



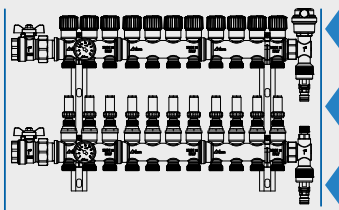
# MODULAR COMPACT BRASS MANIFOLD KIT

(37mm C.T.C.)

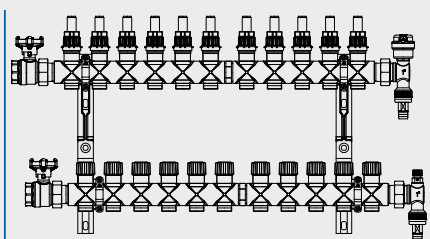


## SUPER COMPACT

37 mm c.t.c. manifold



50 mm c.t.c. manifold



Compact: manifold kit can be inserted in 80 mm housing boxes (Box1 series 2606)

Manual/Automatic on-off interception of the circuits

Nickel plated brass manifolds: high quality material for best reliability through time; not affected by corrosion that could weaken system efficiency

- 1 Dedicated actuators Series 3189
- 2 Manifold 1"
- 3 Suitable for ball valves with M inlet coupling (without OR seals)
- 4 Standard RBM threaded connections W24.5x19F
- 5 Compact: 37 mm c.t.c.



### Series 227

#### Basic 1"1/4 manifold kit

Nickel-plated brass manifolds.  
Steel brackets.  
EUROCONUS M 3/4" threaded junction connections, centre distance 50 mm for copper, polyethylene and multilayer pipe fittings.  
Threaded in-line FF connections (UNI-EN-ISO 228).

- Max. temperature: 110° C
- Maximum operating pressure: 1000 kPa

Code	Measure	Ways	Pack	Outer	Cat.
227.07.80	G 1"1/4	3	1	1	04.01
228.07.80	G 1"1/4	4	1	1	04.01
229.07.80	G 1"1/4	5	1	1	04.01
230.07.80	G 1"1/4	6	1	1	04.01
231.07.80	G 1"1/4	7	1	1	04.01
232.07.80	G 1"1/4	8	1	1	04.01
233.07.80	G 1"1/4	9	1	1	04.01
234.07.80	G 1"1/4	10	1	1	04.01
235.07.80	G 1"1/4	11	1	1	04.01
236.07.80	G 1"1/4	12	1	1	04.01

*Euroconus G3/4" thread - UNI-EN-ISO 228*



### Series 196

#### FF 1"1/4 Simple MONOBLOCK manifold produced from casting, with in-line connections and one-way lateral junctions.

Nickel brass body.  
EUROCONUS M 3/4" threaded junction connections, centre distance 50 mm for copper, polyethylene and multilayer pipe fittings.  
Threaded in-line connections FF UNI-EN-ISO 228.

- Max. temperature: 110° C
- Maximum operating pressure: 1000 kPa

Code	Measure	Ways	Pack	Outer	Cat.
196.07.30	G 1"1/4	3	3	3	04.01
197.07.30	G 1"1/4	4	2	2	04.01
198.07.30	G 1"1/4	5	3	3	04.01
199.07.30	G 1"1/4	6	2	2	04.01
200.07.30	G 1"1/4	7	3	3	04.01
201.07.30	G 1"1/4	8	2	2	04.01
202.07.30	G 1"1/4	9	2	2	04.01
203.07.30	G 1"1/4	10	2	2	04.01
204.07.30	G 1"1/4	11	2	2	04.01
205.07.30	G 1"1/4	12	2	2	04.01

*Euroconus G3/4" thread - UNI-EN-ISO 228*





**Series 3769**

**Single insulation shell for 1"1/4 manifold, made of expanded polyethylene half-bearings with external antiscratch coating.**

Fire behaviour class I  
Density 33 kg/m<sup>3</sup>  
Max operating temperature -40 ÷ +90 °C

Code	Ways	Pack	Outer	Cat.
3769.12.00	12	1	1	04.01



To insulate a complete manifold kit, order 2 pieces.

**Series 3781**

**Insulation shell for thermometer holder well consisting of expanded polyethylene half-casings with external antiscratch coating.**

Fire behaviour class I  
Density 33 kg/m<sup>3</sup>  
Max operating temperature -40 ÷ +90 °C

Code	Measure	Pack	Outer	Cat.
3781.00.00	G 1"1/4	1	1	04.01

**Series 3780**

**Insulation shell for automatic air vent valve/degasser consisting of expanded polyethylene half-casings with external antiscratch coating.**

Fire behaviour class I  
Density 33 kg/m<sup>3</sup>  
Max operating temperature -40 ÷ +90 °C

Code	Measure	Pack	Outer	Cat.
3780.00.00	1"1/4	1	1	04.01

**Series 3782**

**Insulation shell for discharge terminal unit consisting of expanded polyethylene half-casings with external antiscratch coating.**

Fire behaviour class I  
Density 33 kg/m<sup>3</sup>  
Max operating temperature -40 ÷ +90 °C

Code	Measure	Pack	Outer	Cat.
3782.00.00	1"1/4	1	1	04.01

**Series 070**

**T-terminal fitting with plugged junctions, suitable for the possible connection of air vent valve and cock**

Nickel brass body.  
Junction connections, F 3/8" and F 1/2".  
Threaded connections M UNI-EN-ISO 228.

- Max. temperature: 110 °C
- Max pressure: 1000 kPa

**T-shaped terminal fitting**

Code	Measure	Pack	Outer	Cat.
70.07.10	1"1/4	10	10	04.01

**T-shaped terminal fitting**

Code	Measure	Pack	Outer	Cat.
70.07.00	1"1/4	10	10	04.01





### Series 96

**Multifunction line fitting with plugged junction. Suitable for the possible connection of air vent valve, thermometer or discharge cock**

Nickel brass body.  
F 1/2" junction connections.  
Threaded connections MF UNI-EN-ISO 228.

- Max. temperature: 110°C
- Max pressure: 1000 kPa

Code	Measure	Pack	Outer	Cat.
96.07.00	1"1/4	10	10	04.01



### Series 219

**Pair of steel brackets to fixing single manifolds in metal boxes (for boxes code 2606.XX.02).**

- Centre distance 220 mm

Code	Measure	Pack	Outer	Cat.
219.06.00	1"	1	50	04.01
219.07.00	1"1/4	1	50	04.01



### Series 105

**Simple adjustment straight shut-off valve for branch circuits from modular manifolds with standard RBM connections.**

Nickel brass body.  
Elastomer seals.  
Shockproof ABS handwheel.  
Rotary connection to manifold, threaded F standard RBM with seal.  
Threaded M standard RBM connection for copper, polyethylene and multilayer pipe fittings.

- Max operating temperature 110°C
- Max operating pressure 10 Bar

Certifications:



Code	Measure	Pack	Outer	Cat.
105.00.00	RBM	10	10	04.01

*RBM Standard Thread (W24,5x19F)*



### Series 106

**Simple adjustment straight shut-off lockshield valve for branch circuits from modular manifolds with standard RBM connections.**

Nickel brass body.  
Elastomer seals.  
Shockproof ABS handwheel.  
Rotary connection to manifold, threaded F standard RBM with seal.  
Threaded M standard RBM connection for copper, polyethylene and multilayer pipe fittings.

- Max operating temperature 110°C
- Max operating pressure 10 Bar

Certifications:



Code	Measure	Pack	Outer	Cat.
106.00.00	RBM	10	10	04.01

*RBM Standard Thread (W24,5x19F)*





### Series 556

#### Thermostatically controlled straight valve for branch circuits from modular manifolds with standard RBM connections

Nickel brass body.  
Elastomer seals.  
Shockproof ABS handwheel.  
Rotary connection to manifold, threaded F standard RBM with seal.  
Threaded M standard RBM connection for copper, polyethylene and multilayer pipe fittings.

- Max operating temperature 110°C
- Max operating pressure 10 Bar

Code	Measure	Pack	Outer	Cat.
556.00.00	RBM	10	10	04.01

RBM Standard Thread (W24,5x19F)



Can be coupled to thermoelectric actuators RBM code 306.00.X2



### Series 899

#### Pair of plastic brackets to fix Single manifolds in metal boxes (for boxes code 2606.XX.02).

Bracket centre distance 220 mm.

Code	Measure	Pack	Outer	Cat.
899.00.00	3/4" ÷ 1"	1	1	04.01





### Series 85

**Manifold plastic containment and inspection box without bottom, complete with removable cover with ventilation slots, counter frame, fixing screws and removable protection for plastering.**

Flush mount installation, paintable cover

Code	LxH (mm)	Model	Pack	Outer	Cat.
<b>85.35.00</b>	250x350	SF	24	24	04.01
<b>85.50.00</b>	250x500	SF	18	18	04.01
<b>85.58.00</b>	310x580	SF	13	13	04.01
<b>85.40.00</b>	400x500	SF	13	13	04.01
<b>85.75.00</b>	360x750	SF	14	14	04.01



### Series 86

**Manifold plastic containment and inspection box with bottom, complete with removable cover with ventilation slots, counter frame, fixing screws and removable protection for plastering**

Flush mount installation, paintable cover

Code	LxH (mm)	Model	Pack	Outer	Cat.
<b>86.35.00*</b>	250x350	CF	18	18	04.01
<b>86.50.00*</b>	250x500	CF	11	-	04.01
<b>86.58.00*</b>	310x580	CF	10	10	04.01
<b>86.40.00*</b>	400x500	CF	9	9	04.01
<b>86.75.00*</b>	360x750	CF	10	10	04.01

\*Adjustable depth 85-100 mm

\*\*Adjustable depth 95-120 mm



### Series 362

**Manifold plastic containment and inspection box with bottom and side closures, complete with removable cover with ventilation slots, brackets and fixing screws for simple manifolds  $\varnothing 3/4"$  centre distance 37 mm.**

Flush mount installation, paintable cover

Code	LxH (mm)	Model	Pack	Outer	Cat.
<b>362.35.00*</b>	250x350	CFC	10	10	04.01
<b>362.50.00*</b>	250x500	CFC	4	4	04.01

\*Fixed depth 100 mm



### Series 128

**Pair of plastic brackets to fix one-sided and two-sided manifolds in plastic boxes (for boxes code 86.XX.00).**

Bracket centre distance 50 mm (3/4") 55 mm (1").

Code	Measure	Pack	Outer	Cat.
<b>128.05.00</b>	3/4"	1	10	04.01
<b>128.06.00</b>	1"	1	10	04.01



### Series 129

**Pair of plastic brackets to fix Single manifolds in plastic boxes (for boxes code 86.XX.00).**

Bracket centre distance 114,5 mm.

Code	Measure	Pack	Outer	Cat.
<b>129.05.00</b>	3/4"	1	10	04.01
<b>129.06.00</b>	1"	1	10	04.01



# 01. HYDROTHERMAL DISTRIBUTION

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## 05. DHW DISTRIBUTION

### 05.01 DHW DISTRIBUTION

45

Manifolds for dhw systems

Plastic housing boxes

Thermostatic mixers



### Series 171

**Simple modular manifold with in-line connections, used for domestic water circuit distribution. Unilateral junctions complete with built-in micrometric shut-off valves.**

Nickel brass body.  
Elastomer seals.  
Shockproof ABS handwheel.  
RBM standard threaded M junction connections, centre distance 37 mm, for copper, polyethylene and multilayer pipe fittings, or M G1/2" (according to version).  
In-line threaded connections MF UNI-EN-ISO 228.

- Max operating temperature 95 °C
- Max operating pressure 10 Bar

Certifications:



#### Modular manifold, Standard RBM connections

Code	Measure	Ways	Pack	Outer	Cat.
171.05.00	G 3/4"	2	5	5	05.01
172.05.00	G 3/4"	3	5	5	05.01
1330.05.00	G 3/4"	4	5	5	05.01
171.06.00	G 1"	2	5	5	05.01
172.06.00	G 1"	3	5	5	05.01
1330.06.00	G 1"	4	5	5	05.01

Standard RBM thread W24.5x19F junction side

#### Modular domestic water manifold, G 1/2" connections

Code	Measure	Ways	Pack	Outer	Cat.
2793.05.50	G 3/4"	2	5	5	05.01
2794.05.50	G 3/4"	3	5	5	05.01
2795.05.50	G 3/4"	4	5	5	05.01
2793.06.50	G 1"	2	5	5	05.01
2794.06.50	G 1"	3	5	5	05.01
2795.06.50	G 1"	4	5	5	05.01

Thread MG 1/2" junctions side



Use fittings with RBM standard thread or G 1/2" thread series 2796 (see page 105) for pipe connection, according to versions. O.R. seal manifold.



### Series 181

**Buried connection elbow for DHW and heating systems.**

Internal elbow in OT58, threaded M standard RBM (pipe side) and F 1/2" UNI-EN-ISO 228 (cock side). Shockproof PP container.

- Max temperature 90 °C
- Maximum operating pressure 1000 kPa

Certifications:



Code	Figure	Measure	Pack	Outer	Cat.
181.00.20*	1	RBM 1/2" F	1	20	05.01
181.00.30**	2	RBM 1/2" F	1	20	05.01

\*For flush wall mounting

\*\*For flush tile mounting

Standard RBM thread (W24.5x19F) pipe side



### Series 186

**Connection elbow for double outlet DHW systems**

Internal elbow in OT58 threaded F 1/2" UNI-EN-ISO 228 (cock side) and double connection threaded M standard RBM (pipe side). Shockproof PP container.

- Max temperature 90 °C
- Maximum operating pressure 1000 kPa

Certifications:



Code	Measure	Pack	Outer	Cat.
186.00.00	RBM 1/2" F	1	20	05.01

Standard RBM thread (W24.5x19F) pipe side





### Series 182

#### Buried connection elbow for DHW and heating systems.

Internal elbow in OT58, threaded M standard RBM (pipe side) and F 1/2" UNI-EN-ISO 228 (cock side). Shockproof PP container.

- Max temperature 90 °C
- Maximum operating pressure 1000 kPa

Certifications:



Code	Figure	Measure	Model	Pack	Outer	Cat.
<b>182.00.00</b>	1	-	Fig.1	10	-	05.01
<b>183.00.00</b>	2	1/2"	Fig.2	20	600	05.01

*\*For flush wall mounting*

*\*\*For flush tile mounting*

*Standard RBM thread (W24.5x19F) pipe side*



### Series 185

#### Buried connection elbow for DHW and heating systems.

Internal elbow in OT58, threaded M standard RBM (pipe side) and F 1/2" UNI-EN-ISO 228 (cock side). Shockproof PP container.

- Max temperature 90 °C
- Maximum operating pressure 1000 kPa

Certifications:



Code	Measure	Model	Pack	Outer	Cat.
<b>185.00.20</b>	RBM 1/2" F	Plastic wall plate	4	16	05.01

*\*For flush wall mounting*

*\*\*For flush tile mounting*

*Standard RBM thread (W24.5x19F) pipe side*





# MODULAR MANIFOLD FOR SANITARY SYSTEMS



**RBM modular manifolds** make it possible to implement compositions suitable for the control and distribution of sanitary water.

They are equipped with shut-off valves and indication of the utility supplied on each junction way.



## PRACTICAL INSTALLATION:

When assembling several elements one to another, the connections of the junctions are always perfectly aligned.



## PRODUCTION RANGE:

**RBM modular manifolds** are made in sizes 3/4" and 1" with male and female connections at the ends. They are available in versions with 2, 3 and 4 distribution ways.

The junction connections are available with two different threads: standard RBM W24.5x19F or gas M G1/2".

To complete the range, plastic housing boxes and relative fixing brackets are available to make installation of the manifolds easy and quick.



Manifold with o-ring seat;

Micrometric shut-off valves on each junction;

Indication of utility supplied on each junction.



### Series 3828

#### Sanitary manifold box.

Plastic box.  
Removable cover included.  
Paintable cover.  
Maximum adjustable height 100 mm  
Can also be inserted in partition walls with 8 cm boxed structures, plastered on both sides.

Code	LxH (mm)	Pack	Outer	Cat.
<b>3828.29.00</b>	290x270	1	1	05.01
<b>3828.39.00</b>	390x270	1	1	05.01
<b>3828.49.00</b>	490x270	1	1	05.01

Bottom depth 80 - 92 mm



Brackets for fixing manifolds supplied separately.  
Removable frame 12 mm.



### Series 1942

#### Pair of plastic brackets to fix simple modular manifolds in plastic boxes (for 3828 series boxes).

Code	Measure	Pack	Outer	Cat.
<b>1942.05.00</b>	3/4"	1	20	05.01
<b>1942.06.00</b>	1"	1	20	05.01



### Series 3827

#### BiBox Box for sanitary manifold, classic installation and flush with the wall.

Reversible and telescopic frame.  
Suitable for classic installations with external cover plate or flush with the wall.  
Can also be inserted in partition walls with 8 cm boxed structures, plastered on both sides. Can be inserted in plasterboard with 75 mm or longer uprights.

Code	LxH (mm)	Pack	Outer	Cat.
<b>3827.29.00</b>	290x270	1	1	05.01
<b>3827.39.00</b>	390x270	1	1	05.01
<b>3827.49.00</b>	490x270	1	1	05.01

Bottom depth 80 - 92 mm

Frame adjustment stroke 35 mm

Patented



Presence of 3 guides for the manifold support to be secured.  
On all sides there are removable inserts for the pipes to be passed.  
Threads M6 pitch 1 to adjust the telescopic frame.  
On the external part of the bottom there is a grid to facilitate adhesion of the mortar in masonry works.  
Pre-holes for suitable dowels or screws to be used to be secured in the plasterboard or accessory use.  
Removable frame (12 mm).  
Use Series 1942 brackets for fixing manifolds supplied separately.



## BiBox

### Reversible housing box for manifolds for sanitary systems.



**Reversible housing box** for sanitary system manifolds.

Suitable for **flush wall installations** or with **external door**. Can be inserted in partition walls with 80 mm boxed structures or in plasterboard with 75 mm uprights.

Suitable for plasterboard and masonry walls +

**Reversible cover:** flush wall installation or with external door

**Universal:** for all types of manifolds

**Adjustable depth**

**Lightweight structure** that can be installed using dowels and self-tapping screws

**Paintable cover**

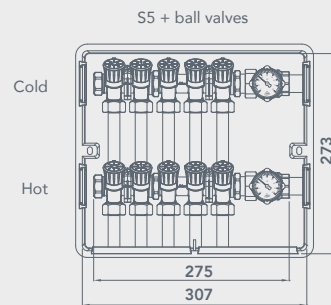
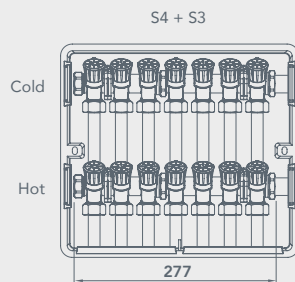
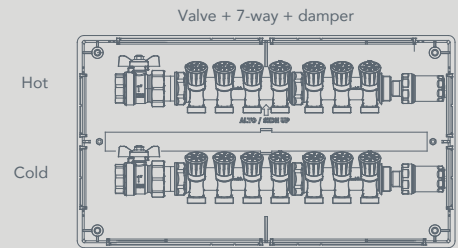
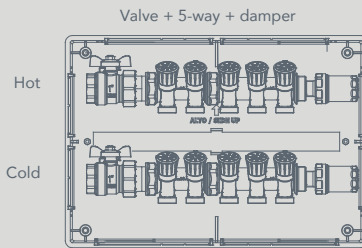
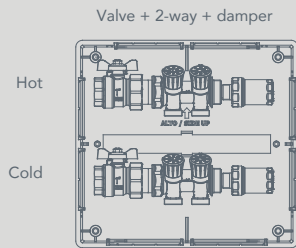
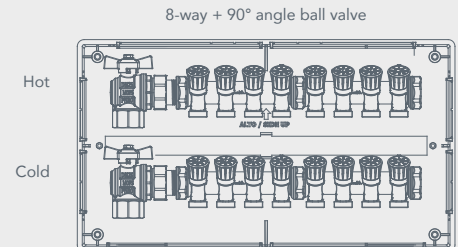
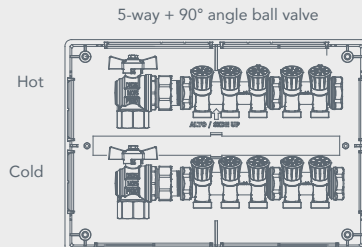
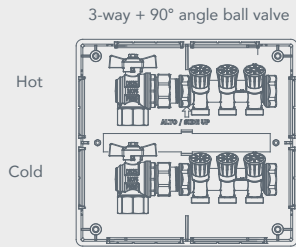
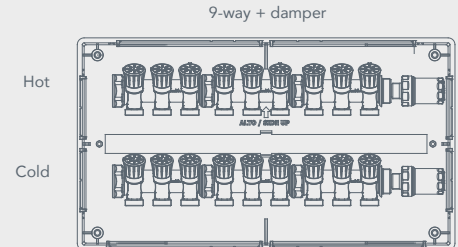
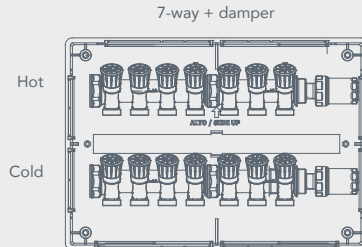
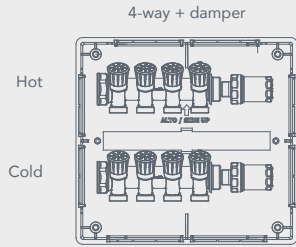
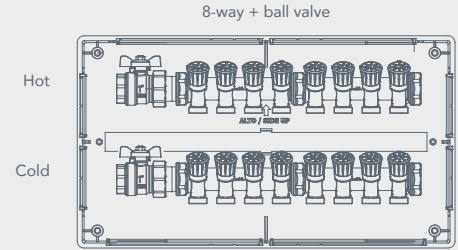
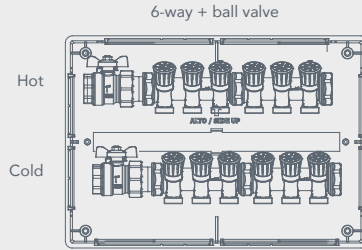
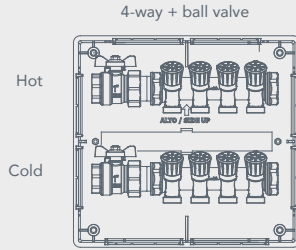
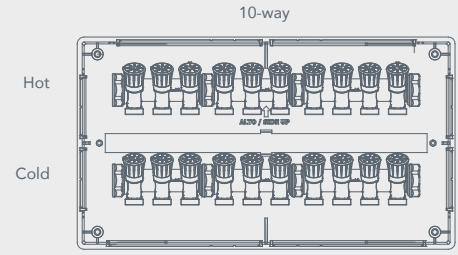
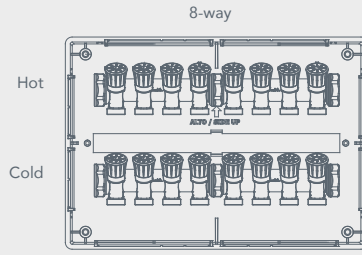
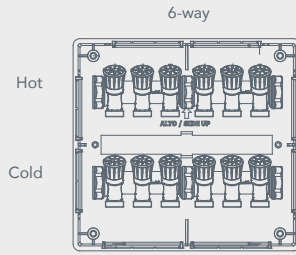


MODULAR SANITARY MANIFOLD COUPLING / HOUSING-BOXES

Box 290x470

Box 390x470

Box 490x470





### Series 2133

#### T-shaped adjustable thermostatic mixer for sanitary systems.

Chrome-plated body in anti-dezincification alloy (size 1/2" and 3/4").

Chrome-plated brass body (size 1" - 1"1/4 - 1"1/2 - 2").

Stainless steel springs.

Elastomer seals.

Threaded connections UNI-EN-ISO 228.

- Max dynamic pressure 5 Bar
- Max static pressure 10 Bar
- Max inlet temperature 85 °C
- Setting range +30 - +65 °C
- Precision  $\pm 2$  °C

Certifications:



Code	Size A	Pack	Outer	Cat.
2133.04.00	1/2"	1	10	05.01
2133.05.00	3/4"	1	10	05.01
2133.06.00	1"	1	10	05.01
2133.07.00	1"1/4	1	8	05.01
2133.08.00	1"1/2	1	-	05.01
2133.09.00	2"	1	-	05.01

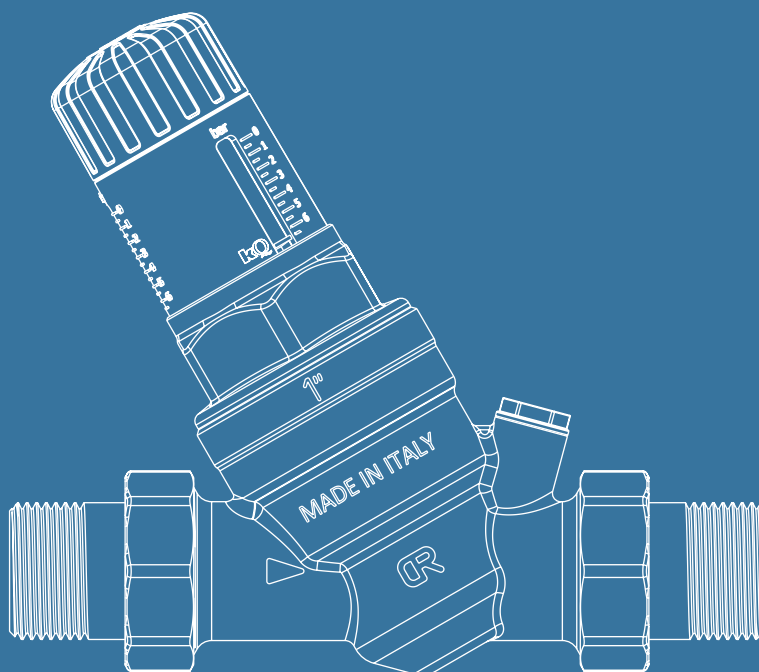


Non-removable cartridge.



# 01. HYDROTHERMAL DISTRIBUTION

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## 06. PRESSURE REDUCTION

### 06.01 PRESSURE REDUCTION

54

Diaphragm pressure reducing valves

Piston-operated pressure reducing valves

Water hammer damper



## PRESSURE REDUCING VALVES

RBM pressure reducing valves are used in plumbing, heating and sanitary systems, mainly **to reduce pressure between the distribution network and the utility junctions**. The RBM range includes diaphragm and piston pressure reducing valves.

### DIAPHRAGM PRESSURE REDUCING VALVES



**Rinox Series 51.A**  
PN 40  
Sizes:  
1/2" - 3/4" - 1"  
1 1/4" - 1 1/2" - 2"



**Rinox Series 51.B**  
PN 40  
Sizes:  
1/2" - 3/4" - 1"  
1 1/4" - 1 1/2" - 2"  
2 1/2" - 3" - 4"



**Rinox Series 51.C**  
PN 40  
Sizes:  
65 - 80 - 100



**Rinox Series 51.D**  
PN 40  
Sizes:  
1/2" - 3/4" - 1"  
1 1/4" - 1 1/2" - 2"



**Rinox Plus Smart M Series 2909**  
PN 25  
Sizes:  
1/2" - 3/4" - 1" - 1 1/4"  
1 1/2" - 2"



**Rinox Plus M Series 2848**  
PN 25  
Sizes:  
1/2" - 3/4" - 1"  
1 1/4" - 1 1/2" - 2"



## PISTON-OPERATED PRESSURE REDUCING VALVES



**Rinox Due  
Series 87.A**  
PN 25  
Sizes:  
3/8" - 1/2" - 3/4"



**Rinox Due  
Series 87.B**  
PN 25  
Sizes:  
3/8" - 1/2" - 3/4" - 1"  
1 1/4" 1 1/2" - 2"



**Rinox Due  
Series 288**  
PN 25  
Sizes:  
1/2" - 3/4"



**Ris  
Series 1139.A**  
PN 16  
Sizes:  
G 3/8" - G 1/2" - G 3/4"



**Ris  
Series 1139.B**  
PN 16  
Sizes:  
3/8" - 1/2" - 3/4"



**Ris  
Series 1139.C**  
PN 16  
Sizes:  
G 3/8" - G 1/2" - G 3/4"





### Series 51.A

**Rinox**  
Adjustable compensated pressure reducing valve, diaphragm operated, double seat, made of stainless steel, with anti-water hammer function. Suitable for water conveyance.

Nickel brass body.  
Stainless steel AISI 303.  
Elastomer seals.  
Threaded connections FF UNI-EN-ISO 228.  
Pressure gauge holder connection F 1/4".

- Nominal pressure 40 Bar
- Max upstream pressure 25 Bar
- Max operating temperature 80 °C

Certifications:



Code	Measure	Model	Pack	Outer	Cat.
51.04.95	G 1/2"	Rinox	1	6	06.01
51.05.95	G 3/4"	Rinox	1	6	06.01
51.06.95	G 1"	Rinox	1	6	06.01
51.07.95	G 1"1/4	Rinox	1	4	06.01
51.08.95	G 1"1/2	Rinox	1	1	06.01
51.09.95	G 2"	Rinox	1	1	06.01

outlet adjustment 6 ÷ 10 Bar



First reduction pressure reducing valve: this reduces upstream pressures near a value of 25 bar in compliance with the reduction ratio recommended by RBM.



In order to avoid cavitation phenomena, and therefore excessive noise of the component, it is best to avoid having the ratio between the upstream maximum pressure and the downstream adjustment pressure of the regulator exceed a value of 2.5.



### Series 51.B

**Rinox**  
Adjustable compensated pressure reducing valve with FF - PN40 connections, diaphragm operated, double seat, made of stainless steel, with anti-water hammer function. Suitable for water conveyance.

Nickel brass body.  
Stainless steel AISI 303.  
Elastomer seals.  
Threaded connections FF UNI-EN-ISO 228.  
Pressure gauge holder connection F 1/4".

- Nominal pressure 40 Bar
- Max upstream pressure 25 Bar
- Max upstream pressure in compliance with standard NF 16 Bar
- Max operating temperature 80 °C
- Default presetting 3 Bar (only models with\*)

Certifications:



Code	Measure	Model	Pack	Outer	Cat.
51.04.70	G 1/2"	Rinox *	1	6	06.01
51.05.70	G 3/4"	Rinox *	1	6	06.01
51.06.70	G 1"	Rinox *	1	6	06.01
51.07.70	G 1"1/4	Rinox **	1	4	06.01
51.08.70	G 1"1/2	Rinox **	1	1	06.01
51.09.70	G 2"	Rinox **	1	1	06.01
51.10.70	G 2"1/2	Rinox **	1	1	06.01
51.11.70	G 3"	Rinox **	1	1	06.01
51.13.70	G 4"	Rinox **	1	1	06.01

\* outlet adjustment 0.8 - 5.5 Bar - available outlet adjustment 0.8 - 7 Bar (ordering code 51.0X.80).

\*\* outlet adjustment 0.8-7 kBar.

NF certified for 1/2" and 3/4" sizes only



Pre-calibrated(\*) with anti-water hammer function.





### Series 51.C

**Rinox**  
Adjustable compensated pressure reducing valve, diaphragm operated, double seat, made of stainless steel, with anti-water hammer function. Suitable for water conveyance.

Nickel brass body.  
Stainless steel AISI 303.  
Elastomer seals.  
PN 16 flanged connections.  
Pressure gauge holder connection F 1/4".

- Reducing valve nominal pressure 40 Bar
- Nominal flange pressure 16 Bar
- Max upstream pressure 25 Bar
- Max operating temperature 80 °C

Certifications:



Code	Measure	Model	Pack	Outer	Cat.
51.10.10	DN 65	Rinox **	1	1	06.01
51.11.10	DN 80	Rinox **	1	1	06.01
51.13.10	DN 100	Rinox **	1	1	06.01

\*\*outlet adjustment 0.8-7 Bar



Flange suitable for coupling with counter-flange UNI EN 1092-1. Equipped with floating flanges that simplify installation operations.



### Series 51.D

**Rinox**  
Adjustable compensated pressure reducing valve, diaphragm operated, double seat, made of stainless steel, with anti-water hammer function. Suitable for water conveyance.

Nickel brass body.  
Stainless steel AISI 303.  
Elastomer seals.  
Threaded connections MM UNI-EN-ISO 228.  
Pressure gauge holder connection F 1/4".

- Nominal pressure 40 Bar
- Max upstream pressure 25 Bar
- Max upstream pressure in compliance with standard NF 16 Bar
- Max operating temperature 80 °C
- Default presetting 3 Bar (only models with\*)

Certifications:



Code	Measure	Model	Pack	Outer	Cat.
51.04.10	G 1/2"	Rinox *	1	6	06.01
51.05.10	G 3/4"	Rinox *	1	6	06.01
51.06.10	G 1"	Rinox *	1	6	06.01
51.07.10	G 1"1/4	Rinox **	1	4	06.01
51.08.10	G 1"1/2	Rinox **	1	1	06.01
51.09.10	G 2"	Rinox **	1	1	06.01

\*outlet adjustment 0.8-5.5 Bar.

\*\*outlet adjustment 0.8-7 kBar.

NF certified for 1/2" and 3/4" sizes only



Pre-calibrated(\*) with anti-water hammer function.



# RINOX

Compensated pressure reducing valves with double stainless steel seat. Diaphragm operated.



**RBM Rinox** pressure reducing valves are used in plumbing, heating and sanitary systems, especially to reduce pressure between the distribution network and the junctions of the main utility.

The structural features and diaphragm operation make **RBM Rinox** the ideal product to use in circuits in which upstream pressure can be subject to strong oscillations (water hammers).

The compensation chamber in the pressure reducing valve also prevents these fluctuations from affecting the calibration pressure, keeping it stable.



Compliant with EN 1567 and Approved **NF** (size 1/2" and 3/4").  
Conformity **ACS**.

Moulded diaphragm (enhanced sensitivity - longer duration - greatly reduced friction)

Stainless steel double seal seat (protects moving parts - guides movement - enhanced adjustment sensitivity - not touched by scales)

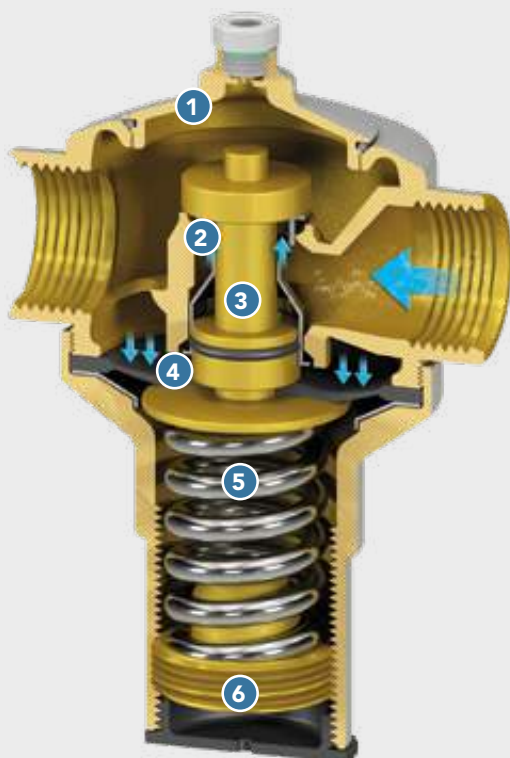
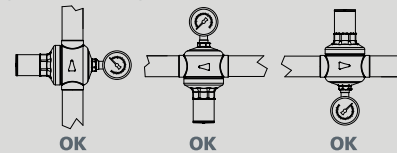
PN 40 bar: ideal for installations in high rising buildings

Resistant to high temperatures: max operating temperature 80°C

Compensated: pressure variations upstream are compensated, leaving the outlet calibration constant

Wide application range

Can be installed in any position: vertical, horizontal, diagonal or facing downwards



- 1 Pressure gauge holder connection
- 2 Stainless steel double seal seat
- 3 Compensation chamber
- 4 Diaphragm in moulded rubber
- 5 Adjustment spring
- 6 Calibration ring nut/screw

Representative section of the pressure reducing valve in the **CLOSED** position.

## DIAPHRAGM PRESSURE REDUCING VALVES

Manufactured from top-quality materials, the **RBM Rinox** double-seated pressure reducing valve with diaphragm actuation is particularly suitable for reducing pressure between the distribution network and the main utility branch (from the urban network, power station supply, etc.).

**RBM Rinox** allows the transit of high flow rates with low pressure drops, absorbing water hammers from the external network thanks to the dampening action of the internal diaphragm. The reducing valve supports a nominal pressure of 40 bar\*, allowing downstream pressure regulation between 0.8 and 10 bar (depending on the models). To achieve quiet operation and avoid premature wear of internal components, it is advisable to choose the reducing valve diameter so that the fluid velocity is within the following values:

- for water  $V = 0.7\text{-}1.5$  m/s (residential use)
- $V = 1\text{-}3.5$  m/s (industrial use)

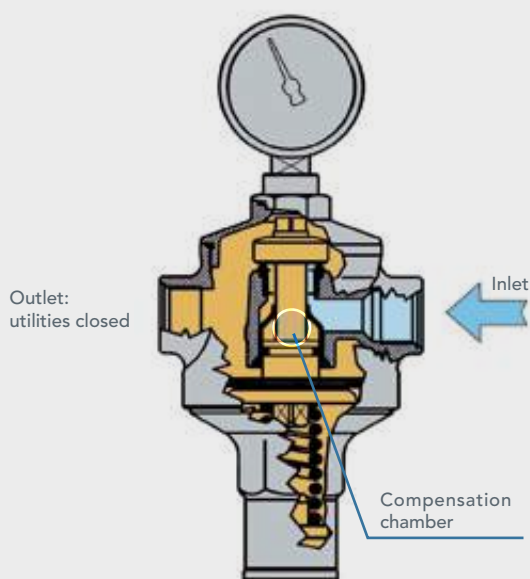
To avoid cavitation phenomena, and thus excessive component noise, the ratio between the maximum upstream pressure and the regulating pressure downstream of the regulator must not exceed 2.5.

For example, for an end-user supply setting of no more than 3 bar, the pressure upstream of the reducing valve must remain within 7.5 bar.

For higher values, it is advisable to insert a second reducing valve in series with the first, in order to spread the total pressure difference over two reduction jumps.

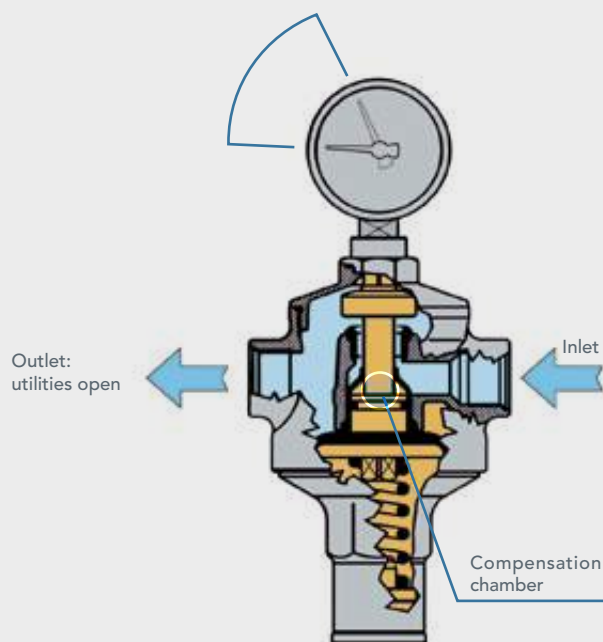
**\* 25 bar for the RBM RinoxPlus M model**

**Pressure stopped at the adjustment value of 3 bar**



When the utilities to be served are closed, the downstream pressure increases by pushing the piston of the reducer to the bottom. In this way, the shutter closes the passage section of the pressure reducing valve, keeping the pressure constant at the set value set on the spring. The minimal pressure difference straddling the shutter allows it to close perfectly.

**Pressure:  $P < 3$  bar**



With the opening of the downstream utilities, the pressure exerted on the piston is less in favour of the force exerted by the spring on the shutter allowing its opening with the consequent fluid passage. The higher the demand for water from the utility network, the lower the pressure on the piston and the greater the water flow.



### Series 2909

#### Rinox Plus Smart M

Adjustable pressure reducing valve, diaphragm operated, with measuring knob.

The internal cartridge can be easily inspected and extracted; provided with extractable filter.

#### Suitable for water channeling.

Anti-dezincification brass body (CR).  
Elastomer seals.  
Threaded connections MM UNI-EN-ISO 228.  
Pressure gauge holder connection F 1/4".

- Nominal pressure 25 bar (cold water 40 °C) / 16 bar (hot water 80 °C) \*
- Upstream pressure 25 bar (cold water 40 °C) / 16 bar (hot water 80 °C)
- Adjustable downstream pressure 0.8 ÷ 7 Bar
- Max operating temperature 80 °C
- Filtering grade 800 µm
- Default presetting 3 Bar

Certifications:



Code	Measure	Model	Pack	Outer	Cat.
2909.04.00	G 1/2"	RinoxPlusSmart M	1	6	06.01
2909.05.00	G 3/4"	RinoxPlusSmart M	1	6	06.01
2909.06.00	G 1"	RinoxPlusSmart M	1	6	06.01
2909.07.00	G 1"1/4	RinoxPlusSmart M	1	4	06.01
2909.08.00	G 1"1/2	RinoxPlusSmart M	1	4	06.01
2909.09.00	G 2"	RinoxPlusSmart M	1	4	06.01



Pre-calibrated.  
Replaceable cartridge. See spare parts pricelist.  
Compact.  
Complete with calibration knob.



### Series 2848

#### Rinox Plus M

Adjustable pressure reducing valve, diaphragm operated. The internal cartridge can be easily inspected and extracted; provided with extractable filter. Suitable for water channeling.

Anti-dezincification brass body (CR).  
Elastomer seals.  
Threaded connections FF UNI-EN-ISO 228.  
Pressure gauge holder connection F 1/4".

- Nominal pressure 25 bar (cold water 40 °C) / 16 bar (hot water 80 °C) \*
- Upstream pressure 25 bar (cold water 40 °C) / 16 bar (hot water 80 °C)
- Adjustable downstream pressure 0.8 ÷ 7 Bar
- Max operating temperature 80 °C
- Filtering grade 800 µm
- Default presetting 3 Bar

Certifications:



WRAS certification only for codes 2848.04.00 and 2848.05.00

Code	Measure	Model	Pack	Outer	Cat.
2848.04.00	G 1/2"	RinoxPlus M	1	10	06.01
2848.05.00	G 3/4"	RinoxPlus M	1	10	06.01
2848.06.00	G 1"	RinoxPlus M	1	4	06.01
2848.07.00	G 1"1/4	RinoxPlus M	1	4	06.01
2848.08.00	G 1"1/2	RinoxPlus M	1	4	06.01
2848.09.00	G 2"	RinoxPlus M	1	4	06.01



Pre-calibrated.  
Replaceable cartridge. See spare parts pricelist.  
Compact.





## RINOXPLUS M & RINOXPLUS SMART M

Diaphragm pressure reducing valves with inspectionable internal cartridge and removable filter.

The **RBM RinoxPlus M** are diaphragm operated pressure reducing valves with inspectionable and easily interchangeable internal cartridge, complete with removable filter.

The cartridge is a compensated seat: upstream pressure variations do not affect the adjustment of the downstream pressure.

In addition, the **RinoxPlusSmart M** pressure reducing valve is equipped with a graduated knob to carry out the calibration, without the use of a pressure gauge and tools.

### SPARE PARTS AND MAINTENANCE INTERVENTIONS

**Before carrying out any maintenance operation, shut off the pressure reducing valve.**

For the replacement, control and cleaning of the reducer, simply unscrew the cap and remove the internal cartridge, which contains all the mobile parts and consumables.

**When replacing the cartridge the reducer goes back to being like new.**

It is possible to remove the filter from the cartridge to carry out cleaning or replacement.

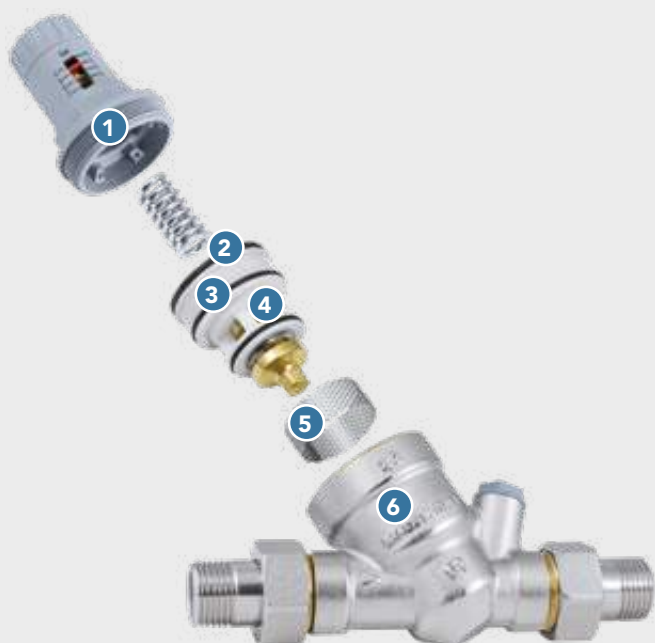
**During these operations, the body remains installed on the system.**



RINOXPLUS SMART M



RINOXPLUS M



Diaphragm pressure reducing valve

Inspectionable internal cartridge and filter

Body made of brass anti-dezincification (CR)

Out pressure calibration knob

Cartridge compensated

- 1 Polymer cap
- 2 Diaphragm made of elastomer
- 3 Additional sealing o-ring made of elastomer
- 4 Cartridge
- 5 Filter (800 micron)
- 6 Body made brass anti-dezincification (CR)



### Series 87.A

**Rinox Due - Rinox Due Silver**  
Adjustable pressure reducing valve, with single stainless steel seat and compensated piston operation. Suitable for water conveyance.

Nickel brass body.  
Stainless steel AISI 303 seat seals.  
Elastomer seals.  
Threaded connections FF UNI-EN-ISO 228.  
F1/4" pressure gauge holder connection.

- Nominal pressure 25 Bar
- Max upstream pressure 25 Bar
- Adjustable downstream pressure 0.5 ÷ 4 Bar (with inlet pressure of 8 Bar)
- Max operating temperature 80 °C
- Default presetting 3 Bar

Certifications:



#### Rinox Due. Pressure reducing valve with FF connections - pn 25

Code	Measure	Model	Pack	Outer	Cat.
87.03.80	G 3/8"	RinoxDue	1	20	06.01
87.04.80	G 1/2"	RinoxDue	1	20	06.01
87.05.80	G 3/4"	RinoxDue	1	20	06.01

#### Rinox Due Silver. Pressure reducing valve with FF - pn 25 with RBM ACT treatment

Code	Measure	Model	Pack	Outer	Cat.
4054.03.10	G 3/8"	RinoxDue Silver	1	20	06.01
4054.04.10	G 1/2"	RinoxDue Silver	1	20	06.01
4054.05.10	G 3/4"	RinoxDue Silver	1	20	06.01

Pre-calibrated.

RBM ACT treatment. Definition: electro-deposited ternary alloy, very stable; it replaces the classical electrolytic nickel-chromium. It complies with the limitations imposed by the international regulations in terms of water intended for human consumption.

Features: Great corrosion resistance, both in acidic and alkaline environments and anti-magnetic properties that ensure great dezincification resistance.

It slows down the production of Limestone.

It complies with potability prerequisites.



### Series 87.B

**Rinox Due - Rinox Due Silver**  
Adjustable pressure reducing valve, with single stainless steel seat and compensated piston operation. Suitable for water conveyance.

Nickel brass body.  
Stainless steel AISI 303 seat seals.  
Elastomer seals.  
Threaded connections FF UNI-EN-ISO 228.  
F1/4" pressure gauge holder connection.

- Nominal pressure 25 Bar
- Max upstream pressure 25 Bar
- Adjustable downstream pressure 0.5 ÷ 7 Bar (with inlet pressure of 8 Bar)
- Max operating temperature 80 °C

Certifications:



#### Rinox Due. Pressure reducing valve with FF connections - pn 25

Code	Measure	Model	Pack	Outer	Cat.
87.03.70	G 3/8"	RinoxDue	1	20	06.01
87.04.70	G 1/2"	RinoxDue	1	20	06.01
87.05.70	G 3/4"	RinoxDue	1	20	06.01
87.06.70	G 1"	RinoxDue	1	6	06.01
87.07.70	G 1"1/4	RinoxDue	1	6	06.01
87.08.70	G 1"1/2	RinoxDue	1	1	06.01
87.09.70	G 2"	RinoxDue	1	1	06.01

#### Rinox Due Silver. Pressure reducing valve with FF - pn 25 with RBM ACT treatment

Code	Measure	Model	Pack	Outer	Cat.
4054.04.60	G 1/2"	RinoxDue Silver	1	20	06.01
4054.05.60	G 3/4"	RinoxDue Silver	1	20	06.01
4054.06.60	G 1"	RinoxDue Silver	1	6	06.01
4054.07.60	G 1"1/4	RinoxDue Silver	1	6	06.01
4054.08.60	G 1"1/2	RinoxDue Silver	1	1	06.01
4054.09.60	G 2"	RinoxDue Silver	1	1	06.01

RBM ACT treatment. Definition: electro-deposited ternary alloy, very stable; it replaces the classical electrolytic nickel-chromium. It complies with the limitations imposed by the international regulations in terms of water intended for human consumption.

Features: Great corrosion resistance, both in acidic and alkaline environments and anti-magnetic properties that ensure great dezincification resistance.

It slows down the production of Limestone.

It complies with potability prerequisites.





### Series 288

**RinoxDue**  
**Adjustable pressure reducing valve with MM - PN25 connections, with single stainless steel seat and compensated piston operation. Suitable for water conveyance.**

Nickel brass body.  
 Stainless steel AISI 303 seat seals.  
 Elastomer seals.  
 Threaded connections MF UNI-EN-ISO 228.  
 F1/4" pressure gauge holder connection.

- Nominal pressure 25 Bar
- Max upstream pressure 25 Bar
- Adjustable downstream pressure 0,5 ÷ 4 Bar (with inlet pressure of 8 Bar)
- Max operating temperature 80 °C
- Default presetting 3 Bar

Certifications:



Code	Measure	Model	Pack	Outer	Cat.
288.04.80	G 1/2"	RinoxDue	1	10	06.01
288.05.80	G 3/4"	RinoxDue	1	10	06.01



Pre-calibrated.



### Series 1139.A

**Ris**  
**Adjustable pressure reducing valve, single seat, compensated piston operation. Suitable for water conveyance.**

Nickel brass body.  
 Elastomer seals.  
 Threaded connections FF UNI-EN-ISO 228.  
 F1/4" pressure gauge holder connection.

- Nominal pressure 16 Bar
- Max upstream pressure 16 Bar
- Adjustable downstream pressure 0,5 ÷ 4 Bar (with inlet pressure of 8 Bar)
- Max operating temperature 80 °C
- Default presetting 3 Bar

Certifications:



Code	Measure	Model	Pack	Outer	Cat.
1139.03.00	G 3/8"	Ris	1	30	06.01
1139.04.00	G 1/2"	Ris	1	30	06.01
1139.05.00	G 3/4"	Ris	1	20	06.01



Pre-calibrated.  
 Compact.



## RINOXDUE

### Adjustable piston-operated pressure reducing valve



Single-seated compensated pressure reducing valve with piston actuation. Its small dimensions make it particularly suitable for the final reduction of pressure at the user (condominium distribution to floors, balancing fire-fighting hoses in multi-storey buildings fed by overpressure units, etc.).

Supports a nominal pressure of 25 bar\* allowing downstream pressure regulation between 0.5 and 7.0 bar (depending on model).

To achieve quiet operation and avoid premature wear of internal components, it is advisable to choose the reducing valve diameter so that the fluid velocity is within the following values:

- for water

$$V = 0,7 \div 1,5 \text{ m/s (residential use)}$$

$$V = 1 \div 3,5 \text{ m/s (industrial use)}$$

To avoid cavitation phenomena, and thus excessive component noise, the ratio between the max. upstream pressure and the regulating pressure downstream of the regulator must not exceed 2.5.

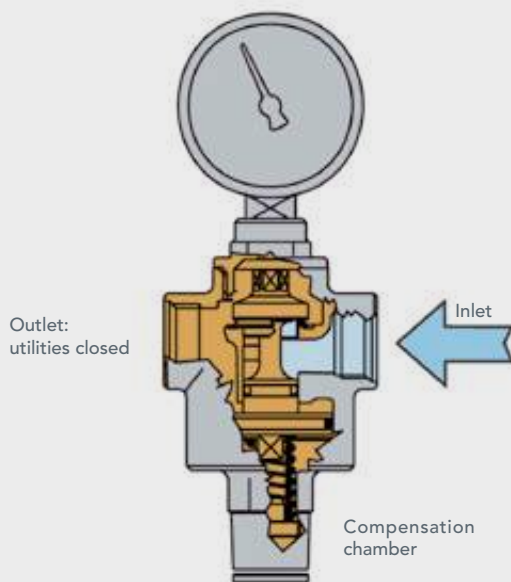
For example, for an end-user supply setting of no more than 3 bar, the pressure upstream of the reducing valve must remain within 7.5 bar.

For higher values, it is advisable to insert a second reducing valve in series with the first, in order to spread the total pressure difference over two reduction jumps.

\* 16 bar for the RIS model

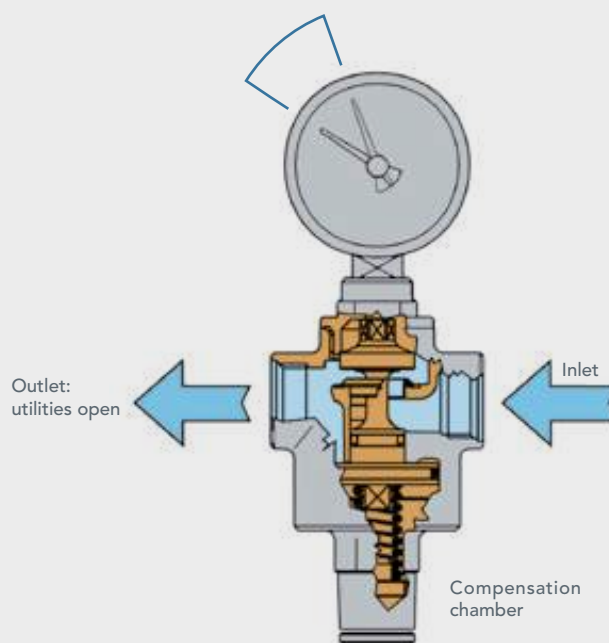


#### Pressure stopped at the adjustment value of 3 bar



When the utilities to be served are closed, the downstream pressure increases by pushing the piston of the reducer to the bottom. In this way, the shutter closes the passage section of the pressure reducing valve, keeping the pressure constant at the set value set on the spring. The minimal pressure difference straddling the shutter allows it to close perfectly.

#### Pressure: $P < 3$ bar



With the opening of the downstream utilities, the pressure exerted on the piston is less in favour of the force exerted by the spring on the shutter allowing its opening with the consequent fluid passage. The higher the demand for water from the utility network, the lower the pressure on the piston and the greater the water flow.



### Series 1139.B

**Ris**  
**Adjustable pressure reducing valve, single seat, compensated piston operation. Suitable for water conveyance.**

Nickel brass body.  
 Elastomer seals.  
 Threaded connections FF UNI-EN-ISO 228.

- Nominal pressure 16 Bar
- Max upstream pressure 16 Bar
- Adjustable downstream pressure 0.5 ÷ 4 Bar (with inlet pressure of 8 Bar)
- Max operating temperature 80 °C
- Default presetting 3 Bar

Certifications:



Code	Measure	Model	Pack	Outer	Cat.
1139.03.40	G 3/8"	Ris	1	30	06.01
1139.04.40	G 1/2"	Ris	1	30	06.01
1139.05.40	G 3/4"	Ris	1	30	06.01



Pre-calibrated.  
 Compact.  
 Version without pressure gauge holder connection.



### Series 1139.C

**Ris**  
**Pressure reducing valve with fixed calibration, single seat, compensated piston-operated. Suitable for water conveyance.**

Brass body.  
 Elastomer seals.  
 Threaded connections FF UNI-EN-ISO 228.

- Nominal pressure 16 Bar
- Max upstream pressure 16 Bar
- Fixed downstream pressure 3 bar
- Max operating temperature 80 °C
- Fixed calibration 3 Bar

Certifications:



Code	Measure	Model	Pack	Outer	Cat.
1139.03.90	G 3/8"	Ris	1	30	06.01
1139.04.90	G 1/2"	Ris	1	30	06.01
1139.05.90	G 3/4"	Ris	1	30	06.01



Compact.  
 Version without pressure gauge holder connection.





### Series 3072

#### Water hammer arrestor.

Brass body.  
Steel spring.  
Polymer piston.  
Elastomer seals.  
Threaded connection M UNI-EN-ISO 228.

- Max operating pressure 10 Bar
- Max operating temperature 90 °C
- Start of active intervention 3 Bar

Certifications:



Code	Measure	Pack	Outer	Cat.
3072.04.00	1/2"	1	20	06.01



# WATER HAMMER DAMPER

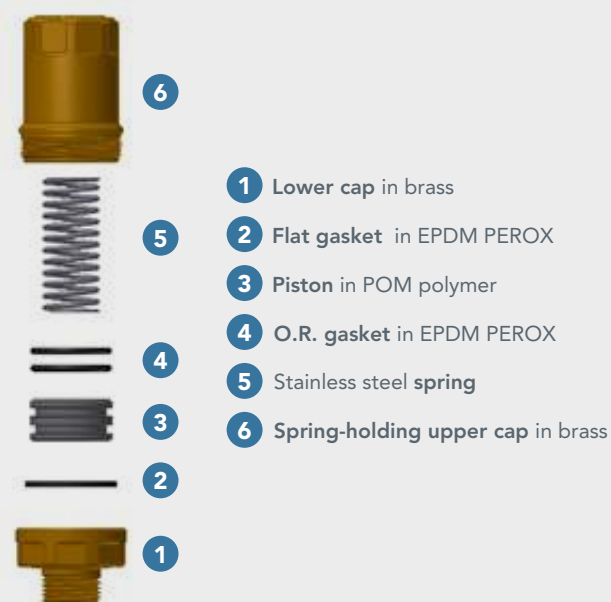


The water hammer damper **absorbs the overpressures generated in the system in the event of a sudden closing or opening of a circuit.** In this way, the fluid pressure is maintained at optimum operating values. Absorption of overpressure prevents damage to the components that make up the system and makes it possible to significantly reduce the noise that occurs in the pipes due to vibrations caused by the sudden closing of shut-off devices.

- Preserves the system components
- Prevents vibrations and noise in the system
- Reduced overall dimensions
- No maintenance



Water hammer damper  
Series 3072



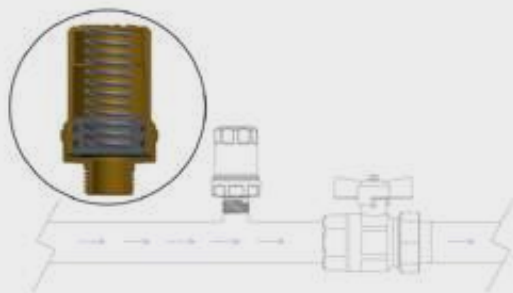
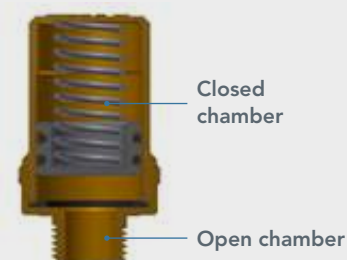
## OPERATING PRINCIPLE / POSSIBLE APPLICATIONS

The main function of the **water hammer damper** is to **absorb the overpressures that are generated in the system, in case of sudden closure or opening a circuit.**

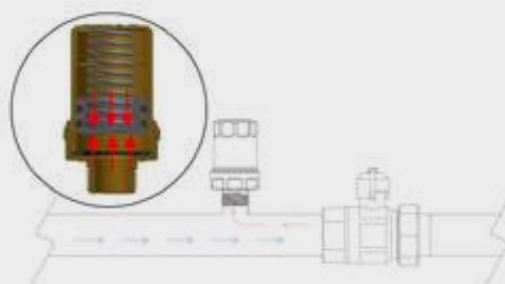
The RBM **water hammer dampers** consist of a cylindrical body divided in two chambers (**open chamber and closed chamber**). The **closed chamber** is the cornerstone of the system, and is one that acts as a damper. It consists of a spring attached to a piston equipped with double O.R. sealing, all housed in an air chamber.

The **open chamber** is directly connected to the pipeline and is affected by changes in pressure in the hydraulic system. The overpressures generated in the system create a push on the spring, causing the change of pressure in the air contained in the closed chamber.

These opposing forces help absorb excess pressure.



When the utilities are **open**, the pressure remains constant throughout the pipeline.



When the utilities are **closed**, the pressure increases along the whole pipeline, causing it to overpressure. The presence of the RBM anti-water hammer device absorbs the overpressure generated, avoiding the trigger of the water hammer phenomenon, preserving in this way all the components in the system.



# STATE OF THE ART INSTALLATION OF RBM DEVICES

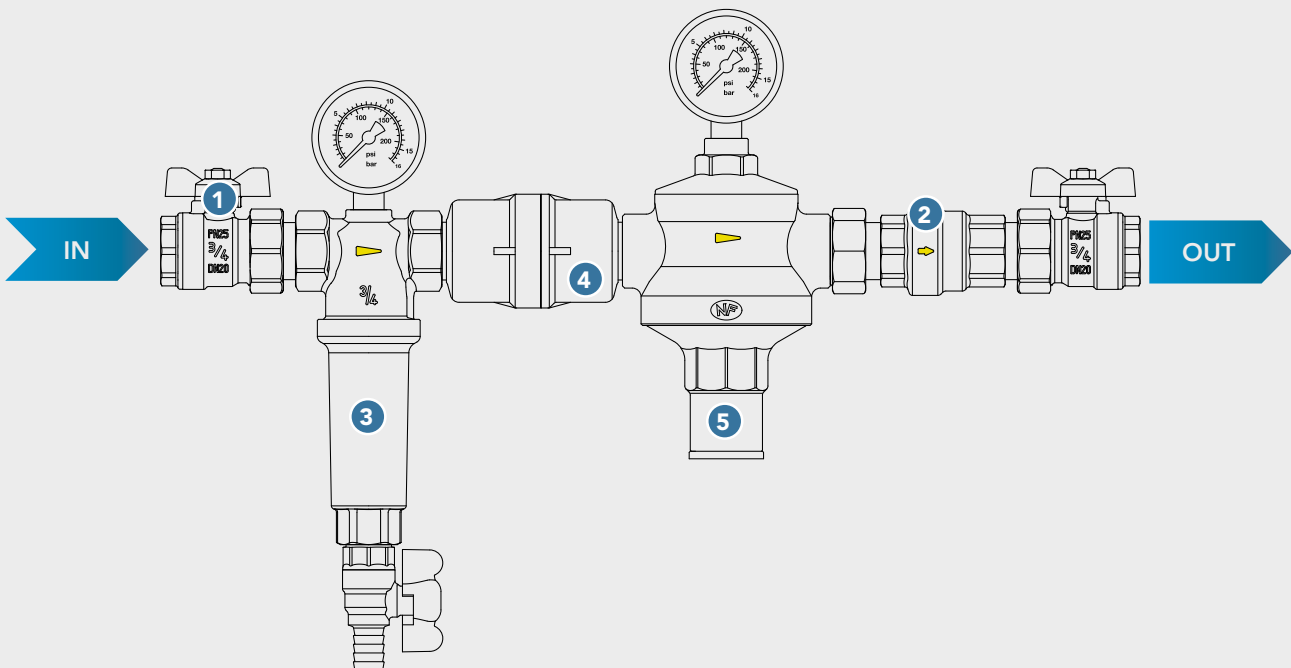
## INSTALLATION

In order to have an optimal system and protect it from damage it is recommended to install the following devices:

- Ball valves
- Filter
- Magnetic anti-scale device
- Pressure reducing valve
- Check valve

## PRECAUTIONS

- Always install a filter upstream of the system
- Perform periodic maintenance of the filters (clean/substitute filter cartridge when needed)
- Respect the arrow on the body of the device (flow direction them)
- Use ball valves to allow maintenance operations
- Clean the pipes upstream and downstream of the system in order to avoid damages



- 1 Ball valve**  
Production range: full bore, standard bore. MM - MF - FF connection
- 2 Check valve**
- 3 Filter with cartridge**
  - Line filter
  - Y strainer
  - Self-cleaning filter
- 4 Magnetic anti-scale device**
- 5 Pressure reducing valve**  
Production range: • Diaphragm operated (Rinox / RinoxPlus M / RinoxPlusSmart M) • Piston operated (RinoxDue / Ris)

# 01. HYDROTHERMAL DISTRIBUTION

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## 07. CONTROL AND SAFETY COMPONENTS

### 07.01 PRESSURE CONTROL AND SAFETY 70

Safety relief valves

By-pass valve

Filling units

### 07.03 FLUIDS SECURITY CONTROL 80

Leak detectors

### 07.04 TEMPERATURE CONTROL AND SAFETY 83

Anti-freeze valves



### Series 351

#### Standard safety relief valve with controlled rise for fluids and neutral gases.

Brass body.  
Stainless steel AISI 302 spring.  
Elastomer obturator seal.  
Elastomer diaphragm.  
Threaded angle connections FF UNI-EN-ISO 228.

- Maximum admissible pressure PS 10 bar
- Max operating temperature 110°C
- Orifice diameter 15mm
- Opening overpressure <20% Pt
- Closing discard pressure -20%
- Allowed fluid water-air (Gr.2)

Certifications:

PED

PESR

CE

0425

UK

CA

#### Standard safety relief valve 1/2" x 1/2" female connection

Code	Calibration (bar)	Max. Pwr. (kW)	Pack	Outer	Cat.
351.04.10	1,50	48	1	50	07.01
351.04.20	2,00	55	1	50	07.01
351.04.30	2,50	68	1	50	07.01
351.04.40	3,00	75	1	50	07.01
351.04.50	3,50	83	1	50	07.01
351.04.60	4,00	96	1	50	07.01
351.04.70	4,50	103	1	50	07.01
351.04.80	5,00	109	1	50	07.01
351.04.90	6,00	128	1	50	07.01
351.04.71	7,00	148	1	50	07.01
351.04.81	8,00	166	1	50	07.01
351.04.11	10,00	181	1	50	07.01

#### Standard safety relief valve 3/4" x 3/4" female connection

Code	Calibration (bar)	Max. Pwr. (kW)	Pack	Outer	Cat.
351.05.10	1,50	48	1	50	07.01
351.05.20	2,00	55	1	50	07.01
351.05.30	2,50	68	1	50	07.01
351.05.40	3,00	75	1	50	07.01
351.05.50	3,50	83	1	50	07.01
351.05.60	4,00	96	1	50	07.01
351.05.70	4,50	103	1	50	07.01
351.05.80	5,00	109	1	50	07.01
351.05.90	6,00	128	1	50	07.01
351.05.71	7,00	148	1	50	07.01
351.05.81	8,00	166	1	50	07.01
351.05.11	10,00	181	1	50	07.01



### Series 352

#### Standard safety relief valve with controlled rise for fluids and neutral gases.

Brass body.  
Stainless steel AISI 302 spring.  
Elastomer obturator seal.  
Elastomer diaphragm.  
Threaded angle connections MF UNI-EN-ISO 228.

- Maximum admissible pressure PS 10 bar
- Max operating temperature 110°C
- Orifice diameter 15mm
- Opening overpressure <20% Pt
- Closing discard pressure -20%
- Allowed fluid water-air (Gr.2)

Certifications:

PED

PESR

CE

0425

UK

CA

#### Standard safety relief valve male 1/2" x female 1/2" connection

Code	Calibration (bar)	Max. Pwr. (kW)	Pack	Outer	Cat.
352.04.10	1,50	48	1	50	07.01
352.04.20	2,00	55	1	50	07.01
352.04.30	2,50	68	1	50	07.01
352.04.40	3,00	75	1	50	07.01
352.04.50	3,50	83	1	50	07.01
352.04.60	4,00	96	1	50	07.01
352.04.70	4,50	103	1	50	07.01
352.04.80	5,00	109	1	50	07.01
352.04.90	6,00	128	1	50	07.01
352.04.71	7,00	148	1	50	07.01
352.04.81	8,00	166	1	50	07.01
352.04.11	10,00	181	1	50	07.01

#### Standard safety relief valve male 1/2" x female 3/4" connection

Code	Calibration (bar)	Max. Pwr. (kW)	Pack	Outer	Cat.
352.05.10	1,50	48	1	50	07.01
352.05.20	2,00	55	1	50	07.01
352.05.30	2,50	68	1	50	07.01
352.05.40	3,00	75	1	50	07.01
352.05.50	3,50	83	1	50	07.01
352.05.60	4,00	96	1	50	07.01
352.05.70	4,50	103	1	50	07.01
352.05.80	5,00	109	1	50	07.01
352.05.90	6,00	128	1	50	07.01
352.05.71	7,00	148	1	50	07.01
352.05.81	8,00	166	1	50	07.01
352.05.11	10,00	181	1	50	07.01



## SAFETY RELIEF VALVES

Compliant with P.E.D. directive



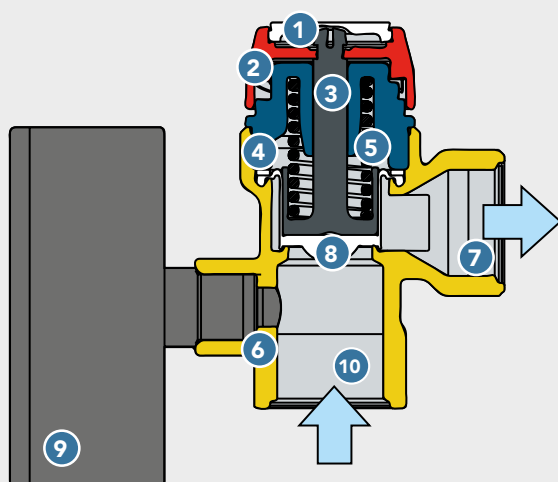
**RBM safety relief valves** are devices that have to be installed on a hydraulic circuit, immediately downstream of the heat generator or on the hot water storage tanks, on the supply piping, in order to discharge any overpressure which could generate inside of them.

**RBM safety relief valves** are supplied with a pre-established calibration pressure value. When operating, if that pressure is reached, the valve opens (the force generated by the pressure overcomes the resistance exerted by the spring), allowing part of the fluid to be discharged thus lowering pressure inside the system.



### STANDARD SAFETY RELIEF VALVE

Standard safety relief valves with controlled rising are used on heat generators with heat rated capacity higher than 35 kW and whenever the certified safety relief valve is not required. The standard safety relief valve is also available in the version with pressure gauge to read the pressure.



- 1 Indicator disk
- 2 ABS hand wheel
- 3 Polymer rod
- 4 Polymer cap
- 5 Internal spring in AISI 302 stainless steel
- 6 Brass body
- 7 Excessive pressure discharge connection
- 8 Shutter with elastomer seal
- 9 Pressure gauge
- 10 Heat generator connection



### ACCESSORIES

#### DRAIN CHANNEL, CONSISTING OF FITTING ELBOW AND COLLECTION FUNNEL

Combined with the safety valves, the drain channel allows the discharged fluid to be directed in the desired direction.



### Series 353

#### Standard safety relief valve with controlled rise for fluids and neutral gases, complete with dial pressure gauge.

Brass body.  
Stainless steel AISI 302 spring.  
Elastomer obturator seal.  
Elastomer diaphragm.  
Threaded angle connections FF UNI-EN-ISO 228.  
F1/4" pressure gauge connection (UNI-EN-ISO 228).

- Maximum admissible pressure PS 10 bar
- Max operating temperature 110 °C
- Orifice diameter 15mm
- Opening overpressure <20% Pt
- Closing discard pressure -20%
- Pressure gauge scale 0 ÷ 4 Bar for valves < 4 Bar
- Pressure gauge scale 0 - 10 bar for valves > 4 bar
- Permitted fluid water-air (Un.2)

Certifications:

PED

PESR



Standard safety relief valve 1/2" x 1/2" female connection with pressure gauge

Code	Calibration (bar)	Max. Pwr. (kW)	Pack	Outer	Cat.
353.04.10	1,50	48	1	48	07.01
353.04.20	2,00	55	1	48	07.01
353.04.30	2,50	68	1	48	07.01
353.04.40	3,00	75	1	48	07.01
353.04.50	3,50	83	1	48	07.01
353.04.60	4,00	96	1	48	07.01
353.04.70	4,50	103	1	48	07.01
353.04.80	5,00	109	1	48	07.01
353.04.90	6,00	128	1	48	07.01
353.04.71	7,00	148	1	48	07.01
353.04.81	8,00	166	1	48	07.01
353.04.11	10,00	181	1	48	07.01

Standard safety relief valve 3/4" x 3/4" female connection with pressure gauge

Code	Calibration (bar)	Max. Pwr. (kW)	Pack	Outer	Cat.
353.05.10	1,50	48	1	48	07.01
353.05.20	2,00	55	1	48	07.01
353.05.30	2,50	68	1	48	07.01
353.05.40	3,00	75	1	48	07.01
353.05.50	3,50	83	1	48	07.01
353.05.60	4,00	96	1	48	07.01
353.05.70	4,50	103	1	48	07.01
353.05.80	5,00	109	1	48	07.01
353.05.90	6,00	128	1	48	07.01
353.05.71	7,00	148	1	48	07.01
353.05.81	8,00	166	1	48	07.01
353.05.11	10,00	181	1	48	07.01



### Series 354

#### Standard safety relief valve with controlled rise for fluids and neutral gases, complete with dial pressure gauge.

Brass body.  
Stainless steel AISI 302 spring.  
Elastomer obturator seal.  
Elastomer diaphragm.  
Threaded angle connections MF UNI-EN-ISO 228.  
F1/4" pressure gauge connection (UNI-EN-ISO 228).

- Maximum admissible pressure PS 10 bar
- Max operating temperature 110 °C
- Orifice diameter 15mm
- Opening overpressure <20% Pt
- Closing discard pressure -20%
- Pressure gauge scale 0 ÷ 4 Bar for valves < 4 Bar
- Pressure gauge scale 0 ÷ 10 Bar for valves > 4 Bar
- Allowed fluid water-air (Gr.2)

Certifications:

PED

PESR



Code	Calibration (bar)	Max. Pwr. (kW)	Pack	Outer	Cat.
354.04.10	1,50	48	1	48	07.01
354.04.20	2,00	55	1	48	07.01
354.04.30	2,50	68	1	48	07.01
354.04.40	3,00	75	1	48	07.01
354.04.50	3,50	83	1	48	07.01
354.04.70	4,50	103	1	48	07.01
354.04.80	5,00	109	1	48	07.01
354.04.90	6,00	128	1	48	07.01
354.04.71	7,00	148	1	48	07.01
354.04.81	8,00	166	1	48	07.01
354.04.11	10,00	181	1	48	07.01





### Series 2201

#### T&P combined safety valve.

Brass body.  
Stainless steel AISI 302 spring.  
Elastomer obturator seal.  
Elastomer diaphragm.  
Threaded connections M UNI-EN-ISO 228.  
Copper pipe end connection.

- Maximum admissible pressure PS 10 bar
- Temperature calibration 90+2 °C

Certifications:

PED

PESR



#### T&P combined safety valve 1/2" x Ø 15

Code	Calibration (bar)	Max. Pwr. (kW)	Probe length	Pack	Outer	Cat.
2201.04.25	2,50	10	4"	1	50	07.01
2201.04.30	3,00	10	4"	1	50	07.01
2201.04.40	4,00	10	4"	1	50	07.01
2201.04.60	6,00	10	4"	1	50	07.01
2201.04.70	7,00	10	4"	1	50	07.01
2201.04.10	10,00	10	4"	1	50	07.01
2201.14.25	2,50	10	8"	1	40	07.01
2201.14.30	3,00	10	8"	1	40	07.01
2201.14.40	4,00	10	8"	1	40	07.01
2201.14.60	6,00	10	8"	1	40	07.01
2201.14.70	7,00	10	8"	1	40	07.01
2201.14.10	10,00	10	8"	1	40	07.01

#### T&P combined safety valve 3/4" x Ø 22

Code	Calibration (bar)	Max. Pwr. (kW)	Probe length	Pack	Outer	Cat.
2545.05.30	3,00	25	4"	1	50	07.01
2545.05.40	4,00	25	4"	1	50	07.01
2545.05.60	6,00	25	4"	1	50	07.01
2545.05.70	7,00	25	4"	1	50	07.01
2545.05.10	10,00	25	4"	1	50	07.01
2545.15.30	3,00	25	8"	1	40	07.01
2545.15.40	4,00	25	8"	1	40	07.01
2545.15.60	6,00	25	8"	1	40	07.01
2545.15.70	7,00	25	8"	1	40	07.01
2545.15.10	10,00	25	8"	1	40	07.01



### Series 2809

#### Standard safety relief valve with controlled rise for water outlet; suitable for sanitary installations.

Brass body.  
Stainless steel AISI 302 spring.  
Elastomer obturator seal.  
Elastomer diaphragm.  
Threaded angle connections FF UNI-EN-ISO 228.

- Max admissible pressure PS 12 bar
- Max operating temperature 100 °C
- Opening overpressure +10%
- Closing discard pressure -20%
- Allowed fluid water-air (Gr.2)

Certifications:

PED



#### Standard 1/2" x 3/4" female connection safety valve

Code	Calibration (bar)	Max. Pwr. (kW)	Pack	Outer	Cat.
2809.04.60	4,00	75	1	45	07.01
2809.04.90	6,00	75	1	45	07.01
2809.04.81	8,00	75	1	45	07.01
2809.04.11	10,00	75	1	45	07.01

#### Standard 3/4" x 1" female connection safety valve

Code	Calibration (bar)	Max. Pwr. (kW)	Pack	Outer	Cat.
2809.05.60	4,00	150	1	20	07.01
2809.05.90	6,00	150	1	20	07.01
2809.05.81	8,00	150	1	20	07.01
2809.05.11	10,00	150	1	20	07.01

#### Standard female connection 1" x 1"1/4 safety valve

Code	Calibration (bar)	Max. Pwr. (kW)	Pack	Outer	Cat.
2809.06.60	4,00	250	1	20	07.01
2809.06.90	6,00	250	1	20	07.01
2809.06.81	8,00	250	1	20	07.01
2809.06.11	10,00	250	1	20	07.01

#### Standard female connection 1"1/4 x 1"1/2 safety valve

Code	Calibration (bar)	Max. Pwr. (kW)	Pack	Outer	Cat.
2809.07.90	6,00	350	1	10	07.01
2809.07.81	8,00	350	1	10	07.01
2809.07.11	10,00	350	1	10	07.01



Safety valve for sanitary installations.





### Series 811

**Standard safety relief valve with controlled rise for water outlet; suitable for heating installations.**

Brass body.  
Stainless steel AISI 302 spring.  
Elastomer obturator seal.  
Elastomer diaphragm.  
Threaded angle connections FF UNI-EN-ISO 228.

- Max admissible pressure PS 12 bar
- Max operating temperature 120 °C
- Opening overpressure +10%
- Closing discard pressure -20%
- Allowed fluid water-air (Gr.2)

Certifications:

PED



#### Standard 1/2" x 3/4" female connection safety valve

Code	Calibration (bar)	Max. Pwr. (kW)	Pack	Outer	Cat.
<b>811.14.30</b>	2,50	50	1	45	07.01
<b>811.14.40</b>	3,00	50	1	45	07.01

#### Standard 3/4" x 1" female connection safety valve

Code	Calibration (bar)	Max. Pwr. (kW)	Pack	Outer	Cat.
<b>811.15.30</b>	2,50	100	1	20	07.01

#### Standard female connection 1" x 1"1/4 safety valve

Code	Calibration (bar)	Max. Pwr. (kW)	Pack	Outer	Cat.
<b>811.16.30</b>	2,50	200	1	20	07.01
<b>811.16.40</b>	3,00	200	1	20	07.01

#### Standard female connection 1"1/4 x 1"1/2 safety valve

Code	Calibration (bar)	Max. Pwr. (kW)	Pack	Outer	Cat.
<b>811.17.30</b>	2,50	350	1	10	07.01
<b>811.17.40</b>	3,00	350	1	10	07.01



Safety valve for heating installations.



### Series 666

**Accessories for safety relief valve. Drain channel composed of fitting elbow and collection funnel.**

Brass body.  
Channel connections MM UNI-EN-ISO 228.  
Funnel connections FF UNI-EN-ISO 228.

- Max operating temperature 110 °C

Code	Measure	Pack	Outer	Cat.
<b>666.05.00</b>	G 3/4"	1	20	07.01
<b>666.06.00</b>	G 1"	1	1	07.01
<b>666.07.00</b>	G 1"1/4	1	1	07.01
<b>666.08.00</b>	G 1"1/2	1	1	07.01



Sold together elbow + collection funnel.







### Series 124

#### Settable by-pass valve for total or partial overflow of thermal circuits.

Brass body.  
Elastomer seals.  
Stainless steel AISI 302 springs.  
Shockproof ABS handwheel.  
Graduated scale on knob.  
Threaded angle connections UNI-EN-ISO 228 (3/4" - 1" - 1 1/4").  
Connections with fittings for copper pipe (Ø 22).

- Max operating temperature 110 °C
- Max operating pressure 10 Bar
- Setting range 0.1 ÷ 0.7 Bar
- Setting unit 0.1 Bar

Code	Measure	Pack	Outer	Cat.
<b>124.05.00*</b>	G 3/4"	1	10	07.01
<b>124.06.00*</b>	G 1"	1	10	07.01
<b>124.07.00*</b>	G 1 1/4"	1	5	07.01
<b>124.22.00**</b>	Ø 22	1	10	07.01

\*Connections for steel pipe with union fitting

\*\*Connections complete with fittings for copper pipe Ø 22





### Series 46

#### Alinox

**Adjustable insulation shell to refill closed circuits, diaphragm operated with anti-water hammer function, complete with removable cartridge micro filter, built-in check valve and dial pressure gauge to view downstream pressure.**

Nickel brass body.  
Stainless steel seal seats.  
Elastomer seals.  
Threaded connections FF UNI-EN-ISO 228.

- Nominal pressure 25 Bar
- Max upstream pressure 25 Bar
- Adjustable downstream pressure 0.8 ÷ 5.5 Bar
- Max operating temperature 80 °C
- Pressure gauge scale 0 ÷ 10 Bar
- Filtering grade 800 µm

Code	Measure	Model	Pack	Outer	Cat.
46.04.00	G 1/2"	Alinox	1	6	07.01



### Series 3856

#### SmartFiller 1/2"

**Adjustable insulation shell to refill closed circuits, diaphragm operated, complete with self-lubricating technopolymer cartridge, built-in check valve, graduated calibration knob and dial pressure gauge to view downstream pressure.**

Brass body.  
Stainless steel sealing ring.  
Elastomer seals.  
Threaded connections MF UNI-EN-ISO 228.

- Nominal pressure 16 Bar
- Max upstream pressure 16 Bar
- Adjustable downstream pressure 0.5 ÷ 4 Bar
- Max operating temperature 80 °C
- Pressure gauge scale 0 ÷ 4 Bar
- Filtering grade 500 µm

Code	Measure	Pack	Outer	Cat.
3856.04.00	G 1/2"	1	6	07.01
3856.05.00	G 3/4"	1	6	07.01



### Series 3153

#### Filler

**Adjustable insulation shell to refill closed circuits, piston operated, complete with cartridge micro filter, built-in check valve and dial pressure gauge to view downstream pressure.**

Nickel brass body.  
Elastomer seals.  
Threaded connections MFUN HEN-ISO 228

- Nominal pressure 16 Bar
- Max upstream pressure 16 Bar
- Adjustable downstream pressure 0.5 ÷ 4 Bar
- Max operating temperature 80 °C
- Pressure gauge scale 0 ÷ 4 Bar
- Filtering grade 500 µm

Certifications:



Code	Measure	Model	Pack	Outer	Cat.
3153.04.00	G 1/2"	Filler	1	6	07.01





## SMARTFILLER

Automatic diaphragm filling unit equipped with calibrating knob

**RBM SmartFiller M** is an automatic filling unit, a device that reintegrates fluid into the heating systems.

**It is composed of: a pressure reducing valve, a check valve and a shut-off valve.**

The pressure reducing valve is diaphragm type and equipped with a pressure gauge to measure the output pressure. The cartridge is compensated seat: upstream pressure variations do not affect the downstream adjustment.



## USE

The **RBM SmartFiller M** units are crucial parts that automatically reintegrate any water coming out of the system. In fact, during the normal operation of a heating system, part of the fluid is lost through the deaerators, in the form of steam mixed with gases that develop continuously in the circuit. The space left free by the fluid, if not duly reinstated, will be occupied by the gases which, when dissolved, form acid solutions that can lead to corrosion.

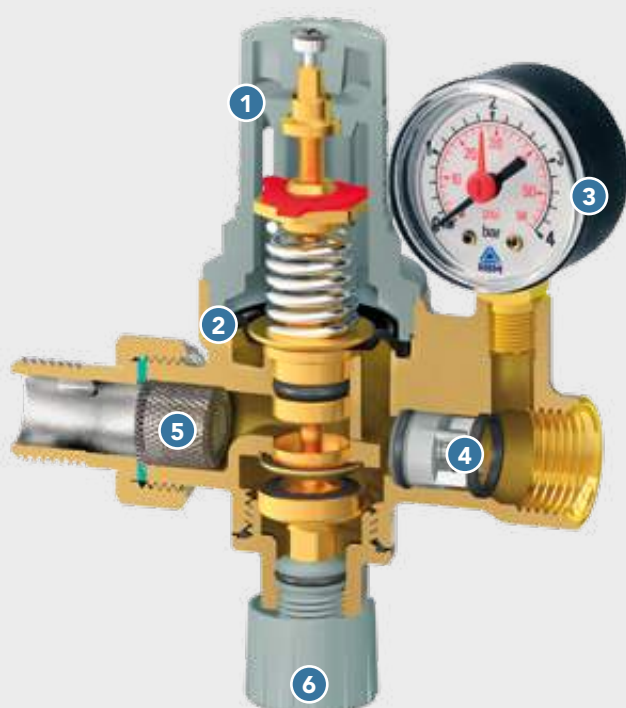
Check valve and shut-off valve incorporated +

Output pressure calibration knob

Pressure gauge

PN 16

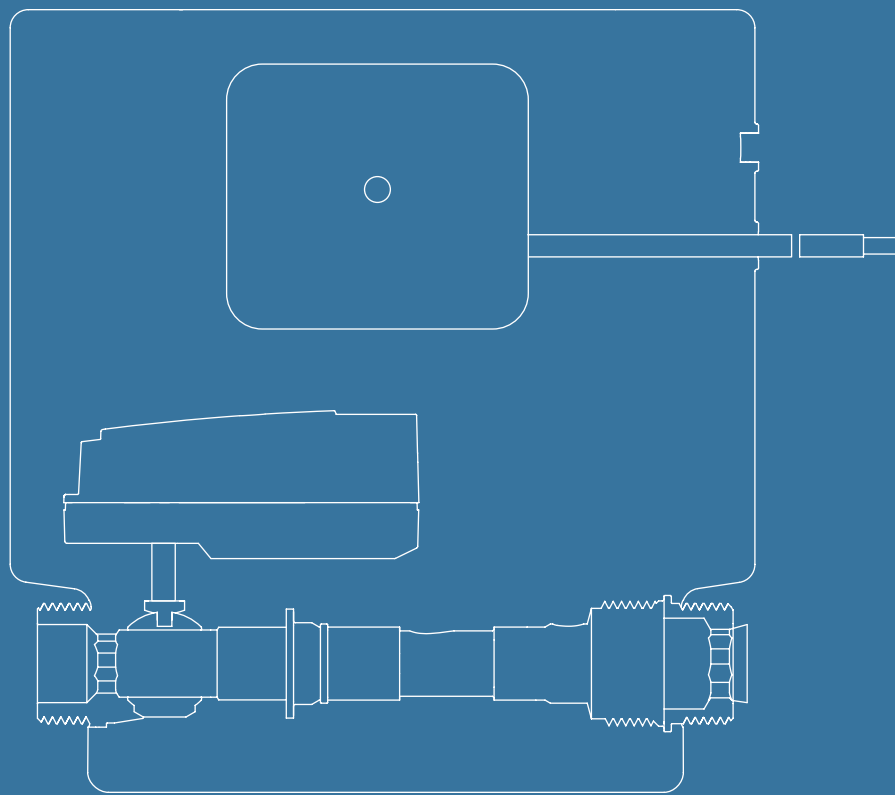
Special ADZ treatment



- 1 Graduated calibration knob**  
To immediately adjust the output calibration value.
- 2 Diaphragm made of elastomer**
- 3 Pressure gauge**  
This measures the pressure downstream of the filling unit, namely the pressure in the circuit to be filled.
- 4 Check valve**  
Prevents the return of the liquid present in the system towards the aqueduct (upstream of the supply unit).
- 5 Filter**
- 6 Shut-off valve**  
Cuts off the power supply and therefore excludes the refill function. This is useful during system maintenance, or in case of failure of any part of the circuit.

# 01. HYDROTHERMAL DISTRIBUTION

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**07. CONTROL AND SAFETY COMPONENTS**

**07.03 FLUIDS SECURITY CONTROL**

80

Leak detectors



### Series 3897

#### Stop Leak Electronic water leak detector.

Device that trips when leaks and abnormal energy consumption are detected, by cutting the power supply off and thus preventing flooding or unwanted consumption.

The Stop Leak system is composed of:  
 Motorised shut-off valve;  
 Thermodynamic micro-leak detection sensor;  
 Control electronics with potential-free contact interface and status remote control;  
 Management and commissioning App;  
 Bluetooth protocol for commissioning and LORA for communication;  
 Remote display (only supplied with codes 3897.05.10 and 3897.06.10).

- Sensitivity: 0.2 l/h
- Reaction time: programmable
- Tripping threshold: programmable
- Temperature Range: 0 - 60°C
- Power supply: 12V - 24V AC/DC

Certifications:



Electronic system water leak detector with motorised shut-off valve

Code	Measure	Sensitivity (l/h)	Pack	Outer	Cat.
<b>3897.05.80</b>	3/4"	0,2	1	1	07.03
<b>3897.06.80</b>	1"	0,2	1	1	07.03

Electronic system water leak detector with motorised shut-off valve and remote control

Code	Measure	Sensitivity (l/h)	Pack	Outer	Cat.
<b>3897.05.90</b>	3/4"	0,2	1	1	07.03
<b>3897.06.90</b>	1"	0,2	1	1	07.03

Protection of your system from leaks or unwanted energy consumption during system downtime.

Prevention from any damage due to water leaks.

Saving on energy consumption.



Advantages for the community (water resource protection device).

Possibility to reduce your home insurance premium.

Easy, smart programming.

The system is designed to adapt to the system conditions of use thanks to its self-learning logic.

### Series 3898

#### Stop Leak template.



Template for set up of Stop Leak during plant construction.

Body in polymer.  
 Threaded connections MM UNI-EN-ISO 228 with flat seal.  
 PN 16 bar.  
 Max operating temperature 90°C.

Code	Measure	Pack	Outer	Cat.
<b>3898.05.00</b>	3/4"	1	1	07.03
<b>3898.06.00</b>	1"	1	1	07.03



# Stop | Leak

## leak detector



Choose **the future of home protection**; designed to detect even the smallest leaks, preventing flooding and costly damage.

### BENEFITS FOR THE USER

- Protection of one's own system from breakage and/or leakage
- Prevention of damage due to water leakage
- Avoid litigation following a leakage problem
- Consumption savings
- Community benefits (saving water resources)
- Possibility of negotiating the premium for home insurance
- Simple programming

### ADVANTAGES FOR THE INSTALLER

- Easy assembly
- Possibility of offering the customer greater security for the installation
- Protection against errors resulting from incorrect installation
- Customer loyalty

## FOR A SAFER HOME

The Stop Leak system is the result of the latest technology for detecting water leaks: it is the only system capable of **detecting leaks in the order of 0.2 l/h**, slightly less than a table glass.

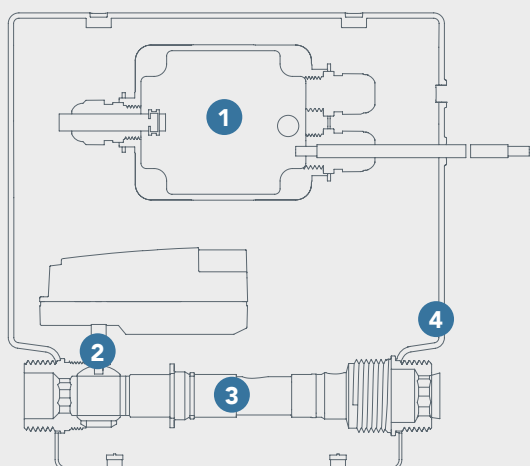
In hydraulic systems it is always difficult to identify such small leaks, which in the long run can cause serious damage. Similarly even protects the system from the onset of potential flooding caused by faults or omissions.



## HOW DOES IT WORK?

Stop Leak, just like a circuit breaker for the electrical circuit, intervenes to prevent damage to your home. Its technology establishes whether, within the system, there is a normal withdrawal of water or an abnormal consumption.

After excluding normal operation, the system intervenes **by closing the shut-off valve**, by interrupting the inflow of water. The programmable regulator, located inside the home, will indicate the presence of a likely water leak on the display. The Stop Leak system consists of: flow sensor, motorised shut-off valve and programmable regulator.



- 1 Programmable controller
- 2 Shut-off unit
- 3 Leak detection block with flow sensor
- 4 Housing box

# 01. HYDROTHERMAL DISTRIBUTION

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## 07. CONTROL AND SAFETY COMPONENTS

### 07.04 TEMPERATURE CONTROL AND SAFETY

83

Anti-freeze valves





### Series 4093

#### Zerofrost

#### Antifreeze valve for heat pumps

Brass body.  
Brass internal components.  
EPDM PEROX seals.  
Stainless steel AISI 302 springs.

- Compatible fluid: water
- Max operating pressure 10 Bar
- Temperature range 0-80°C
- Fluid temperature (open) 3°C
- Fluid temperature (closed) 4°C
- Sensitivity  $\pm 1^\circ\text{C}$
- Max discharge flow rate at 3 bar: 1.5 l/h

Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Cat.
4093.06.00	G 1"	55	1	07.04
4093.07.00	G 1" 1/4	70	1	07.04



# RBM zerofrost

## Antifreeze valve for heat pumps



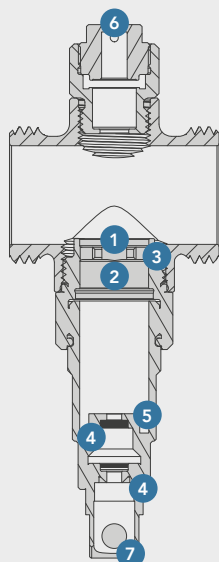
The **Zerofrost anti-freeze valve** is designed to allow a small amount of the fluid contained inside the system to drain when its **temperature drops below 3 °C**. It automatically intervenes to prevent the formation of ice within the single-block heat pump circuit, preventing blockages or obstructions in the system that can reduce its efficiency and cause damage to the system.

Zerofrost is an **environmentally friendly solution** because it eliminates the risks of using potentially polluting glycol. It is also an economical choice because it **saves on running and maintenance costs**, keeping the system in perfect working order.

Zerofrost is available in two sizes: **1" and 1"1/4**.



- 1 Bulb inserted directly into the flow**  
It avoids negative influences from low ambient temperatures, allowing accurate system drainage only when necessary.
- 2 High-performance bulb**  
Precision and speed of intervention guaranteed over time.
- 3 Filter ring**  
It protects the bulb from any debris suspended in the water that could cause the drain to malfunction.
- 4 Surface treatment of the operating device**  
Ensures proper operation and reliability over time.
- 5 Very low discharge rate** (max 1,5 l/h)  
The special design of the drain guarantees dripping only. Unlike other devices whose drains are made with the classic shutter system, Zerofrost discharges only what is necessary, avoiding emptying the system.
- 6 Vacuum breaker valve**  
It prevents the creation of negative pressures in the system or piping generated during discharge.
- 7 Anti-drip**  
The innovative anti-drip feature prevents the formation of water bubbles and subsequent freezing.

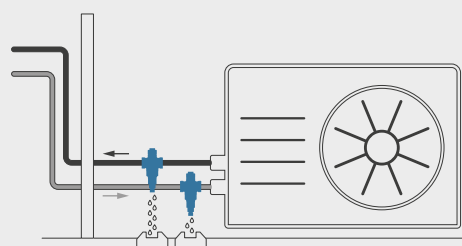


## INSTALLATION

**Zerofrost automatically intervenes to prevent the formation of ice** within the circuit of the single-block heat pumps. **Before installing the device, clean the piping thoroughly** to prevent circulating impurities from impairing its performance.

Antifreeze valves should be **installed outside**, where the lowest temperature can be reached, **and away from heat sources** that could interfere with operation.

Zerofrost **can only be installed in a vertical position**, with the outlet pointing downwards, to allow the discharged water to flow out correctly, unobstructed.



Protects heat pumps from freezing +

It is automatically activated when the fluid temperature drops below 3 °C

No power supply required

Maximum sensitivity ( $\pm 1$  °C) and rapidity of intervention

Discharge only what is necessary (max. 1.5 l/h) avoiding draining the system

Avoids the use of glycol

# 01. HYDROTHERMAL DISTRIBUTION

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## 08. BALL VALVES, CHECK VALVES AND SHUT-OFF DEVICES

### 08.01 BALL VALVES, CHECK VALVES AND SHUT-OFF DEVICES

86

- Ball valves
- Check valves
- Accessories





### Series 3371

**Arno**  
**Heavy full bore ball valve, lever handle operated, FF connections. Suitable for water, water+ glycol, steam, hydrocarbons.**

Nickel brass body.  
 Thick chrome plated brass ball.  
 PTFE seal.  
 Threaded connections UNI-EN-ISO 228.

- Operating temperature with water -20 - + 120 °C

Certifications:

PED



CE certification only for sizes marked with an asterisk.

Code	Measure	PN	Pack	Outer	Cat.
<b>3371 14NI</b>	1/4"	40	10	160	08.01
<b>3371 38NI</b>	3/8"	40	10	160	08.01
<b>3371 12NI</b>	1/2"	40	8	64	08.01
<b>3371 34NI</b>	3/4"	40	6	48	08.01
<b>3371 10NI</b>	1"	40	6	48	08.01
<b>3371 04NI</b>	1"1/4 *	40	4	32	08.01
<b>3371 02NI</b>	1"1/2 *	40	2	16	08.01
<b>3371 20NI</b>	2" *	40	2	10	08.01
<b>3371 22N</b>	2"1/2 *	25	8	8	08.01
<b>3371 30N</b>	3" *	25	6	6	08.01
<b>3371 40N</b>	4" *	10	4	4	08.01



### Series 3372

**Arno**  
**Heavy full bore ball valve, butterfly handle operated, FF connections. Suitable for water, water+ glycol, steam, hydrocarbons.**

Nickel brass body.  
 Thick chrome plated brass ball.  
 PTFE seal.  
 Threaded connections UNI-EN-ISO 228.

- Operating temperature with water -20 - + 120 °C

Certifications:

PED



CE certification only for sizes marked with an asterisk.

Code	Measure	PN	Pack	Outer	Cat.
<b>3372 14NI</b>	1/4"	40	10	160	08.01
<b>3372 38NI</b>	3/8"	40	10	160	08.01
<b>3372 12NI</b>	1/2"	40	10	120	08.01
<b>3372 34NI</b>	3/4"	40	5	80	08.01
<b>3372 10NI</b>	1"	40	5	60	08.01
<b>3372 04NI</b>	1"1/4 *	40	4	32	08.01



### Series 3373

**Arno**  
**Heavy full bore ball valve, lever handle operated, MF connections. Suitable for water, water+ glycol, steam, hydrocarbons.**

Nickel brass body.  
 Thick chrome plated brass ball.  
 PTFE seal.  
 Threaded connections UNI-EN-ISO-228.

- Operating temperature with water -20 - + 120 °C

Certifications:

PED



CE certification only for sizes marked with an asterisk.

Code	Measure	PN	Pack	Outer	Cat.
<b>3373 14NI</b>	1/4"	40	10	160	08.01
<b>3373 38NI</b>	3/8"	40	10	160	08.01
<b>3373 12NI</b>	1/2"	40	10	120	08.01
<b>3373 34NI</b>	3/4"	40	6	48	08.01
<b>3373 10NI</b>	1"	40	4	48	08.01
<b>3373 04NI</b>	1"1/4 *	40	4	32	08.01
<b>3373 02NI</b>	1"1/2 *	40	2	20	08.01
<b>3373 20NI</b>	2" *	40	2	10	08.01





### Series 3374

**Arno**  
**Heavy full bore ball valve, butterfly handle operated, MF connections. Suitable for water, water+ glycol, steam, hydrocarbons.**

Nickel brass body.  
 Thick chrome plated brass ball.  
 PTFE seal.  
 Threaded connections UNI-EN-ISO 228.

- Operating temperature with water -20 - + 120 °C

Certifications:



Code	Measure	PN	Pack	Outer	Cat.
3374 14NI	1/4"	40	10	160	08.01
3374 38NI	3/8"	40	10	160	08.01
3374 12NI	1/2"	40	10	120	08.01
3374 34NI	3/4"	40	5	60	08.01
3374 10NI	1"	40	5	60	08.01



### Series 3386

**Arno**  
**Heavy full bore angled ball valve, butterfly handle operated, F connection with M union. Suitable for water, water+ glycol, steam, hydrocarbons.**

Nickel brass body.  
 Thick chrome plated brass ball.  
 PTFE seal.  
 Threaded connections UNI-EN-ISO 228.

- Operating temperature with water -20 - + 120 °C

Certifications:



Code	Size A	Size B	PN	Pack	Outer	Cat.
3386 09NI	1/2"	1/2"	40	10	120	08.01
3386 A1NI	3/4"	3/4"	40	5	60	08.01
3386 A2NI	1"	1"	40	4	40	08.01



### Series 3255

**Arno**  
**Curved ball bibcock, lever handle operated. Suitable for water, water+ glycol, steam, hydrocarbons.**

Nickel brass body.  
 Thick chrome plated brass ball.  
 PTFE seal.  
 Elastomer OR gaskets.  
 Threaded connections UNI-EN-ISO 228.

- Operating temperature with water -20 - + 120 °C

Code	Measure	PN	Pack	Outer	Cat.
3255 12NI	1/2"	30	10	80	08.01
3255 34NI	3/4"	30	5	50	08.01
3255 10NI	1"	30	4	20	08.01



### Series 3256

**Arno**  
**Curved ball bibcock, butterfly handle operated. Suitable for water, water+ glycol, steam, hydrocarbons.**

Nickel brass body.  
 Thick chrome plated brass ball.  
 PTFE seal.  
 Elastomer OR gaskets.  
 Threaded connections UNI-EN-ISO 228.

- Operating temperature with water -20 - + 120 °C

Code	Measure	PN	Pack	Outer	Cat.
3256 12NI	1/2"	30	10	80	08.01
3256 34NI	3/4"	30	5	50	08.01
3256 10NI	1"	30	4	20	08.01





### Series 854.A

**Iro**  
**Standard bore ball valve, lever handle operated, FF connections. Suitable for water, water+glycol.**

Nickel brass body.  
 Thick chrome plated brass ball.  
 PTFE seal.  
 Elastomer OR gaskets.  
 Threaded connections UNI-EN-ISO 228.

- Operating temperature with water -20 - +120 °C (without steam)

Certifications:



Code	Measure	PN	Pack	Outer	Cat.
<b>855.03.32*</b>	3/8"	50	20	80	08.01
<b>854.04.32</b>	1/2"	50	15	90	08.01
<b>854.05.32</b>	3/4"	50	12	48	08.01
<b>854.06.32</b>	1"	40	6	36	08.01
<b>854.07.32</b>	1"1/4	30	6	24	08.01
<b>854.08.32</b>	1"1/2	25	2	12	08.01
<b>854.09.32</b>	2"	25	2	8	08.01

\*Full bore



### Series 854.B

**Iro**  
**Standard bore ball valve, lever handle operated, FF connections. Suitable for water, water+glycol.**

Nickel brass body.  
 Thick chrome plated brass ball.  
 PTFE seal.  
 Elastomer OR gaskets.  
 Threaded connections UNI-EN-ISO 228.

- Operating temperature with water -20 - +120 °C (without steam)

Certifications:



Code	Measure	PN	Pack	Outer	Cat.
<b>855.03.42*</b>	3/8"	50	20	80	08.01
<b>854.04.42</b>	1/2"	50	15	90	08.01
<b>854.05.42</b>	3/4"	50	12	48	08.01
<b>854.06.42</b>	1"	40	6	36	08.01
<b>854.07.42</b>	1"1/4	30	6	24	08.01
<b>854.08.42</b>	1"1/2	25	2	12	08.01
<b>854.09.42</b>	2"	25	2	8	08.01

\*Full bore



### Series 989

**Iro**  
**Standard bore ball valve, butterfly handle operated, FF connections. Suitable for water, water+glycol.**

Nickel brass body.  
 Thick chrome plated brass ball.  
 PTFE seal.  
 Elastomer OR gaskets.  
 Threaded connections UNI-EN-ISO 228.

- Operating temperature with water -20 - +120 °C (without steam)

Certifications:



Code	Measure	PN	Pack	Outer	Cat.
<b>989.03.32*</b>	3/8"	50	20	80	08.01
<b>989.04.32</b>	1/2"	50	15	90	08.01
<b>989.05.32</b>	3/4"	50	12	48	08.01
<b>989.06.32</b>	1"	40	6	36	08.01
<b>989.07.32</b>	1"1/4	30	8	24	08.01

\*Full bore





### Series 885.A

**Iro**  
**Standard bore ball valve, lever handle operated, MM connections. Suitable for water, water+glycol.**

Nickel brass body.  
 Thick chrome plated brass ball.  
 PTFE seal.  
 Elastomer OR gaskets.  
 Threaded connections UNI-EN-ISO 228.

- Operating temperature with water -20 - +120 °C (without steam)

Certifications:



Code	Measure	PN	Pack	Outer	Cat.
<b>885.04.52</b>	1/2"	50	15	60	08.01
<b>885.05.52</b>	3/4"	50	12	48	08.01
<b>885.06.52</b>	1"	40	6	36	08.01

\*Full bore



### Series 885.B

**Iro**  
**Standard bore ball valve, lever handle operated, MM connections. Suitable for water, water+glycol.**

Nickel brass body.  
 Thick chrome plated brass ball.  
 PTFE seal.  
 Elastomer OR gaskets.  
 Threaded connections UNI-EN-ISO 228.

- Operating temperature with water -20 - +120 °C (without steam)

Certifications:



Code	Measure	PN	Pack	Outer	Cat.
<b>885.03.32*</b>	3/8"	50	20	80	08.01
<b>885.04.32</b>	1/2"	50	15	60	08.01
<b>885.05.32</b>	3/4"	50	12	48	08.01
<b>885.06.32</b>	1"	40	6	36	08.01

\*Full bore



### Series 885.C

**Iro**  
**Standard bore ball valve, butterfly handle operated, MM connections. Suitable for water, water+glycol.**

Nickel brass body.  
 Thick chrome plated brass ball.  
 PTFE seal.  
 Elastomer OR gaskets.  
 Threaded connections UNI-EN-ISO 228.

- Operating temperature with water -20 - +120 °C (without steam)

Certifications:



WRAS only for code 885.05.42

Code	Measure	PN	Pack	Outer	Cat.
<b>885.03.42*</b>	3/8"	50	20	80	08.01
<b>885.04.42</b>	1/2"	50	15	60	08.01
<b>885.05.42</b>	3/4"	50	12	48	08.01
<b>885.06.42</b>	1"	40	6	36	08.01

\*Full bore





### Series 886.A

**Iro**  
**Standard bore ball valve, lever handle operated, MF connections. Suitable for water, water+glycol.**

Nickel brass body.  
 Thick chrome plated brass ball.  
 PTFE seal.  
 Elastomer OR gaskets.  
 Threaded connections UNI-EN-ISO 228.

- Operating temperature with water -20 - +120 °C (without steam)

Certifications:



Code	Measure	PN	Pack	Outer	Cat.
<b>886.03.32*</b>	3/8"	50	20	40	08.01
<b>886.04.32</b>	1/2"	50	15	90	08.01
<b>886.05.32</b>	3/4"	50	12	48	08.01
<b>886.06.32</b>	1"	40	6	36	08.01
<b>886.07.32</b>	1"1/4	30	5	20	08.01
<b>886.08.32</b>	1"1/2	25	2	12	08.01
<b>886.09.32</b>	2"	25	2	8	08.01

\*Full bore



### Series 886.B

**Iro**  
**Standard bore ball valve, lever handle operated, MF connections. Suitable for water, water+glycol.**

Nickel brass body.  
 Thick chrome plated brass ball.  
 PTFE seal.  
 Elastomer OR gaskets.  
 Threaded connections UNI-EN-ISO 228.

- Operating temperature with water -20 - +120 °C (without steam)

Certifications:



Code	Measure	PN	Pack	Outer	Cat.
<b>886.03.42*</b>	3/8"	50	20	80	08.01
<b>886.04.42</b>	1/2"	50	15	90	08.01
<b>886.05.42</b>	3/4"	50	12	48	08.01
<b>886.06.42</b>	1"	40	6	36	08.01
<b>886.07.42</b>	1"1/4	30	5	20	08.01
<b>886.08.42</b>	1"1/2	25	2	12	08.01
<b>886.09.42</b>	2"	25	2	8	08.01

\*Full bore



### Series 887

**Iro**  
**Standard bore ball valve, butterfly handle operated, MF connections. Suitable for water, water+glycol.**

Nickel brass body.  
 Thick chrome plated brass ball.  
 PTFE seal.  
 Elastomer OR gaskets.  
 Threaded connections UNI-EN-ISO 228.

- Operating temperature with water -20 - +120 °C (without steam)

Certifications:



Code	Measure	PN	Pack	Outer	Cat.
<b>887.03.32*</b>	3/8"	50	20	80	08.01
<b>887.04.32</b>	1/2"	50	15	90	08.01
<b>887.05.32</b>	3/4"	50	12	48	08.01
<b>887.06.32</b>	1"	40	6	36	08.01
<b>887.07.32</b>	1"1/4	30	6	18	08.01

\*Full bore







### Series 67.C

**Iro**  
**Standard bore ball valve, butterfly handle operated, F connection with M union coupling. Suitable for water, water+glycol.**

Nickel brass body.  
 Thick chrome plated brass ball.  
 PTFE seal.  
 Elastomer OR gaskets.  
 Threaded connections UNI-EN-ISO 228.

- Operating temperature with water -20 - +120 °C (without steam)

Certifications:



Code	Size A	Size B	PN	Pack	Outer	Cat.
67.04.02	1/2"	1/2"	25	20	80	08.01
67.05.02	3/4"	3/4"	25	12	48	08.01
67.06.02	1"	1"	25	6	24	08.01
67.07.02	1"1/4	1"1/4	25	4	16	08.01



### Series 67.D

**Iro**  
**Standard bore ball valve, butterfly handle operated, F connection with M union coupling. Suitable for water, water+glycol.**

Nickel brass body.  
 Thick chrome plated brass ball.  
 PTFE seal.  
 Elastomer OR gaskets.  
 Threaded connections UNI-EN-ISO 228.

- Operating temperature with water -20 - +120 °C (without steam)

Certifications:



Code	Size A	Size B	PN	Pack	Outer	Cat.
67.04.12	1/2"	1/2"	25	20	80	08.01
67.05.12	3/4"	3/4"	25	12	48	08.01
67.06.12	1"	1"	25	6	24	08.01
67.07.12	1"1/4	1"1/4	25	4	16	08.01





### Series 2544.A

**Iro**  
**Standard bore ball valve, with built-in check valve, butterfly handle operated, 1"1/2 pump connection. Suitable for water, water+glycol.**

Nickel brass body.  
 Thick chrome plated brass ball.  
 PTFE seal.  
 VITON OR gaskets.  
 Threaded connections UNI-EN-ISO 228.

- Operating temperature with water -20 - +120 °C (without steam)

Certifications:



Code	Size A	Size B	PN	Pack	Outer	Cat.
2544.05.00	3/4"	1"1/2	50	8	24	08.01



Ball valve + built-in check valve.



### Series 2544.B

**Iro**  
**Standard bore ball valve, butterfly handle operated, 1"1/2 pump connection. Suitable for water, water+glycol.**

Nickel brass body.  
 Thick chrome plated brass ball.  
 PTFE seal.  
 VITON OR gaskets.  
 Threaded connections UNI-EN-ISO 228.

- Operating temperature with water -20 - +120 °C (without steam)

Certifications:



Code	Size A	Size B	PN	Pack	Outer	Cat.
2544.05.10	3/4"	1"1/2	50	8	24	08.01



### Series 2544.D

**Iro**  
**Standard bore ball valve, butterfly handle operated, copper pipe compression connection and 1"1/2 pump connection. Suitable for water, water+glycol.**

Nickel brass body.  
 Thick chrome plated brass ball.  
 PTFE seal.  
 VITON OR gaskets.  
 Threaded connections UNI-EN-ISO 228.  
 Copper pipe end connections.

- Operating temperature with water -20 - +120 °C (without steam)

Certifications:



Code	Size A	Size B	PN	Pack	Outer	Cat.
2544.22.10	22	1"1/2	50	8	24	08.01





### Series 2093.A

**Iro**  
**Standard bore ball valve, lever handle operated, copper pipe end connections. Suitable for water, water+glycol.**

Nickel brass body.  
 Thick chrome plated brass ball.  
 PTFE seal.  
 Elastomer OR gaskets.  
 Copper pipe end connections.

- Operating temperature with water -20 - +120 °C (without steam)

Certifications:



Code	Measure	PN	Pack	Outer	Cat.
2093.15.20	15	50	15	60	08.01
2093.22.20	22	50	10	40	08.01
2093.28.20	28	40	6	24	08.01
2093.35.20	35	30	4	40	08.01
2093.42.20	42	25	2	10	08.01
2093.54.20	54	25	1	4	08.01

*The measurement is expressed in mm*



### Series 2093.B

**Iro**  
**Standard bore ball valve, butterfly handle operated, copper pipe end connections. Suitable for water, water+glycol.**

Nickel brass body.  
 Thick chrome plated brass ball.  
 PTFE seal.  
 Elastomer OR gaskets.  
 Copper pipe end connections.

- Operating temperature with water -20 - +120 °C (without steam)

Certifications:



Code	Measure	PN	Pack	Outer	Cat.
2093.15.00	15	50	20	80	08.01
2093.22.00	22	50	12	80	08.01
2093.28.00	28	40	6	24	08.01
2093.35.00	35	30	4	16	08.01

*The measurement is expressed in mm*



### Series 3465

**Iro**  
**Standard bore ball valve, lever handle operated, FF connections. Suitable for water, water+glycol.**

Nickel brass body.  
 Thick chrome plated brass ball.  
 PTFE seal.  
 Elastomer OR gaskets.  
 Threaded connections UNI-EN-ISO 228.

- Operating temperature with water 0 - +80 °C

Certifications:



Code	Measure	PN	Pack	Outer	Cat.
3465.04.00	1/2"	50	1	60	08.01
3465.05.00	3/4"	50	1	50	08.01
3465.06.00	1"	40	1	30	08.01





### Series 3085

**Everest**  
Check valve, FF connections. Suitable for water.

Brass body.  
Elastomer gaskets.  
Threaded connections FF UNI-EN-ISO 228.

- Operating temperature with water 0 - +80 °C

Code	Measure	PN	Pack	Outer	Cat.
<b>3085 381</b>	3/8"	16	10	120	08.01
<b>3085 121</b>	1/2"	16	10	120	08.01
<b>3085 341</b>	3/4"	16	10	120	08.01
<b>3085 101</b>	1"	16	5	50	08.01
<b>3085 041</b>	1"1/4	16	4	40	08.01
<b>3085 021</b>	1"1/2	16	4	32	08.01
<b>3085 201</b>	2"	16	2	20	08.01
<b>3082.22.00</b>	2"1/2	6	2	16	08.01
<b>3082.30.00</b>	3"	6	2	12	08.01
<b>3082.40.00</b>	4"	6	1	1	08.01



### Series 3086

**Filter with threaded fitting. Matched with the check valves, it provides proper protection for the pumps.**

Stainless steel AISI 304L filter.  
Nylon 6.6 threaded fitting.

- Max operating temperature 90 °C

Code	Measure	Pack	Outer	Cat.
<b>3086 381</b>	3/8"	10	120	08.01
<b>3086 121</b>	1/2"	10	120	08.01
<b>3086 341</b>	3/4"	10	120	08.01
<b>3086 101</b>	1"	10	100	08.01
<b>3086 041</b>	1"1/4	8	80	08.01
<b>3086 021</b>	1"1/2	8	64	08.01
<b>3086 201</b>	2"	4	40	08.01
<b>3086.22.00</b>	2"1/2	3	24	08.01
<b>3086.30.00</b>	3"	2	16	08.01
<b>3086.40.00</b>	4"	1	8	08.01



### Series 860

**Check valve, FF connections. Suitable for water.**

Brass body.  
Elastomer gaskets.  
Stainless steel AISI 302 spring.  
Threaded connections FF UNI-EN-ISO 228.

- Min. opening pressure 0.04 Bar
- Max operating temperature 90 °C (Water)
- Max operating temperature 110 °C (Air)

Certifications:



#### Check valve, FF connections, brass rod

Code	Measure	PN	Pack	Outer	Cat.
<b>860.04.02</b>	1/2"	25	30	120	08.01
<b>860.05.02</b>	3/4"	25	16	64	08.01
<b>860.06.02</b>	1"	25	10	60	08.01
<b>860.07.02</b>	1"1/4	16	8	32	08.01
<b>860.08.02</b>	1"1/2	16	4	24	08.01
<b>860.09.02</b>	2"	16	2	12	08.01

#### Check valve, FF connections, plastic rod

Code	Measure	PN	Pack	Outer	Cat.
<b>860.04.12</b>	1/2"	25	30	120	08.01
<b>860.05.12</b>	3/4"	25	16	64	08.01
<b>860.06.12</b>	1"	25	10	60	08.01
<b>860.07.12</b>	1"1/4	16	8	32	08.01
<b>860.08.12</b>	1"1/2	16	4	24	08.01
<b>860.09.12</b>	2"	16	2	12	08.01





### Series 589

#### Hydrant box with ball valve with hose connection. Suitable for water.

Brass valve body.  
Thick chrome plated brass ball.  
Polypropylene well.  
PTFE valve seals.  
Threaded connections UNI-EN-ISO 228.  
PN 16.

- Operating temperature with water 0 - +80 °C

Code	Size A	Size B	hose connection size	PN	Pack	Outer	Cat.
589.05.00	3/4"	3/4"	ø 15	16	1	10	08.01
589.06.00	3/4"	1"	ø 20	16	1	10	08.01



### Series 24

#### Wall siphon for washing machine.

Nickel brass body.  
Stainless steel ceiling rose.  
Hose connection Ø 22 mm.  
Drain pipe connection Ø 32 mm.

- Max operating temperature 100 °C

Code	Model	Pack	Outer	Cat.
24.32.10	System	10	40	08.01



**01.**  
**HYDROTHERMAL**  
**DISTRIBUTION**

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**09. FITTINGS**

**09.01 FITTINGS**

97

Fittings for valves and piping

Fittings for manifolds





### Series 41.A

#### Compression fitting for annealed copper pipe.

Brass nut and pipe clamping ogive.  
Nickel plated nut.  
Elastomer seal ogive.  
Standard RBM threaded F connection.

- Max operating temperature 95 °C
- Max operating pressure 10 Bar

Code	Measure	Pack	Outer	Cat.
<b>41.10.20</b>	RBM Ø 10	10	100	09.01
<b>41.12.20</b>	RBM Ø 12	10	100	09.01
<b>41.14.20</b>	RBM Ø 14	10	100	09.01
<b>41.15.20</b>	RBM Ø 15	10	100	09.01
<b>41.16.20</b>	RBM Ø 16	10	100	09.01

Standard RBM thread W 24.5x19F



### Series 41.B

#### Compression fitting for annealed copper pipe.

Brass nut and pipe clamping ogive.  
Nickel plated nut.  
Elastomer seal ring.  
Standard RBM threaded F connection.

- Max operating temperature 95 °C
- Max operating pressure 10 Bar

Code	Measure	Pack	Outer	Cat.
<b>41.18.40</b>	RBM Ø 18	10	100	09.01

Standard RBM thread W 24.5x19F



Only to be used with seat set at Ø18.  
To be used with reducing coupling code 57.18.00 (see page 106)  
to connect the Ø18 fitting to valves/manifolds with RBM  
Standard thread.



### Series 602

#### Compression fitting for raw copper pipe in bars, annealed copper, brass, soft steel and stainless steel.

Brass nut and pipe clamping ogive.  
Nickel plated nut.  
Elastomer seal ogive.  
Standard RBM threaded F connection.

- Max operating temperature 95 °C
- Max operating pressure 10 Bar

Code	Measure	Pack	Outer	Cat.
<b>602.10.00</b>	RBM Ø 10	10	100	09.01
<b>602.12.00</b>	RBM Ø 12	10	100	09.01
<b>602.14.00</b>	RBM Ø 14	10	100	09.01
<b>602.15.00</b>	RBM Ø 15	10	100	09.01
<b>602.16.00</b>	RBM Ø 16	10	100	09.01

Standard RBM thread W 24.5x19F  
Patent n° TO2001U000071





### Series 71

#### Compression fitting for polyethylene pipe.

Brass nut, core and pipe clamping ogive.  
Nickel plated nut.  
Elastomer seal ring.  
Standard RBM threaded F connection.

- Max operating temperature 95 °C
- Max operating pressure 10 Bar

Certifications:



Code	Measure	Pack	Outer	Cat.
71.10.30	10x1,2	10	100	09.01
71.12.00	12x2	10	100	09.01
71.12.20	12x1,3	10	100	09.01
71.14.00	14x2	10	100	09.01
71.15.00	15x2,5	10	100	09.01
71.15.10	15x2	10	100	09.01
71.16.00	16x2	10	100	09.01
71.16.20	16x1,5	10	100	09.01
71.16.30	16x2,7	10	100	09.01
71.16.40	16x2,2	10	100	09.01
71.17.00	17x2	10	100	09.01
71.18.00	18x2,5	10	100	09.01
71.18.30	18x2	10	100	09.01
71.20.10	20x2	10	100	09.01
71.20.40	20x2,8	10	100	09.01

Standard RBM thread W24.5x19F

Size: Outside Ø x pipe thickness



### Series 122

#### Compression fitting for polyethylene pipe.

Brass nut, core and pipe clamping ogive.  
Nickel plated nut.  
Elastomer seals.  
Standard RBM threaded F connection.

- Max operating temperature 95 °C
- Max operating pressure 10 Bar

Certifications:

CSTB (certification only valid if used with CSTB certified RBM KILMA-FLEX PE-RT pipe).



Code	Measure	Pack	Outer	Cat.
122.12.00	12x1,1	10	100	09.01
122.16.00	16x1,5	10	100	09.01
122.20.00	20x1,9	10	100	09.01

Standard RBM thread W24.5x19F

Size: Outside Ø x pipe thickness







### Series 70

#### Fitting for metal-plastic multilayer pipe.

Compatible with Q-Tec copper pipe in matching sizes. Respect the pipe flaring and gauging conditions.

Brass nut, core and pipe clamping ogive.  
Nickel plated nut.  
Elastomer seals.  
Standard RBM threaded F connection.

- Max operating temperature 95 °C
- Max operating pressure 10 Bar

Certifications:



Code	Measure	Pack	Outer	Cat.
<b>70.14.00</b>	14x2	10	100	09.01
<b>70.14.90</b>	14,4x2,2	10	100	09.01
<b>70.16.00</b>	16x2	10	100	09.01
<b>70.16.10</b>	16x2,5	10	100	09.01
<b>70.16.20</b>	16x2,25	10	100	09.01
<b>70.16.30</b>	16,2x2,6	10	100	09.01
<b>70.16.90</b>	16,4x2,2	10	100	09.01
<b>70.17.10</b>	17x2	10	100	09.01
<b>70.17.30</b>	17x3	10	100	09.01
<b>70.17.40</b>	17,2x3	10	100	09.01
<b>70.18.00</b>	18x2	10	100	09.01
<b>70.20.00</b>	20x2	10	100	09.01
<b>70.20.10</b>	20x2,5	10	100	09.01
<b>70.20.20</b>	20x2,25	10	100	09.01
<b>70.20.30</b>	20x2,9	10	100	09.01

Standard RBM thread W24.5x19F

Size: Outside Øx pipe thickness



### Series 1216

#### Fitting for metal-plastic multilayer pipe, technopolymer core

Brass nut and pipe clamping ogive.  
Nickel plated nut.  
Technopolymer core.  
Elastomer seal ring.  
Standard RBM threaded F connection.

- Max operating temperature 95 °C
- Max operating pressure 10 Bar

Code	Measure	Pack	Outer	Cat.
<b>1216.14.00</b>	14x2	10	100	09.01
<b>1216.16.00</b>	16x2	10	100	09.01

Standard RBM thread W24.5x19F

Size: Outside Øx pipe thickness





### Series 5.A

#### Heavy three-piece elbow fitting.

Nickel brass body.  
O-Ring seal in FKM.  
Threaded connections MF UNI-EN-ISO 228.

- Max operating temperature 180 °C
- Max operating pressure 10 Bar

Certifications:



Code	Measure	Pack	Outer	Cat.
5.03.1B	3/8"	10	60	09.01
5.04.1B	1/2"	10	60	09.01
5.05.1B	3/4"	10	40	09.01
5.06.1B	1"	10	40	09.01
5.07.1B	1"1/4	8	32	09.01
5.08.1B	1"1/2	4	16	09.01
5.09.1B	2"	2	8	09.01



Suitable for gas, air, hot and cold drinking water, hydrocarbons, solar systems.



### Series 58

#### Fitting for pipe connection to manifold / Heavy three-piece straight fitting.

Nickel brass body.  
O-Ring seal in FKM.  
Threaded connections MF UNI-EN-ISO 228.

- Max operating temperature 180 °C
- Max operating pressure 10 Bar

Certifications:



Code	Measure	Pack	Outer	Cat.
58.03.00	3/8"	10	60	09.01
58.04.00	1/2"	10	60	09.01
58.05.00	3/4"	10	40	09.01
58.06.00	1"	10	40	09.01
58.07.00	1"1/4	8	32	09.01
58.08.00	1"1/2	5	20	09.01
58.09.00	2"	2	8	09.01



Suitable for gas, air, hot and cold drinking water, hydrocarbons, solar systems.



### Series 5.B

#### Three-piece elbow fitting.

Brass body.  
O-Ring seal in FKM.  
Threaded connections MF UNI-EN-ISO 228.

- Max operating temperature 180 °C
- Max operating pressure 10 Bar

Certifications:



Code	Measure	Pack	Outer	Cat.
5.03.10	3/8"	10	60	09.01
5.04.10	1/2"	10	60	09.01
5.05.10	3/4"	10	40	09.01
5.06.10	1"	10	40	09.01
5.07.10	1"1/4	8	32	09.01
5.08.10	1"1/2	4	16	09.01
5.09.10	2"	2	8	09.01



Suitable for gas, air, hot and cold drinking water, hydrocarbons, solar systems.



### Series 6

#### Three-piece straight fitting.

Brass body.  
O-Ring seal in FKM.  
Threaded connections MF UNI-EN-ISO 228.

- Max operating temperature 180 °C
- Max operating pressure 10 Bar

Certifications:



Code	Measure	Pack	Outer	Cat.
6.03.10	3/8"	10	60	09.01
6.04.10	1/2"	10	60	09.01
6.05.10	3/4"	10	40	09.01
6.06.10	1"	10	40	09.01
6.07.10	1"1/4	8	32	09.01
6.08.10	1"1/2	5	20	09.01
6.09.10	2"	2	8	09.01



Suitable for gas, air, hot and cold drinking water, hydrocarbons, solar systems.





**Series 97**

**Fitting for pipe connection to manifold / Three-piece straight fitting, with 5 mm off-centre adjustment.**

Nickel brass body.  
Elastomer O-Ring seal.  
Threaded connections MF UNI-EN-ISO 228.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Certifications:



Code	Measure	Pack	Outer	Cat.
97.05.00	3/4"	10	10	09.01
97.06.00	1"	10	10	09.01



**Series 72**

**Three-piece MM joint straight fitting**

Nickel brass body.  
Elastomer O-Ring seal on connections.  
Threaded connections MM UNI-EN-ISO 228.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Certifications:



Code	Size A	Size B	Pack	Outer	Cat.
72.04.00	1/2"	1/2"	25	25	09.01
72.05.00	3/4"	3/4"	10	40	09.01
72.06.00	1"	1"	10	40	09.01
72.06.50	1"	1"1/4	6	24	09.01
72.07.00	1"1/4	1"1/4	10	10	09.01
72.08.00	1"1/2	1"1/2	5	5	09.01
72.09.00	2"	2"	2	2	09.01



**Series 1100**

**Three-piece MM joint fitting with OR seal on connections.**

Nickel-plated brass body  
Elastomer o-Ring seal on the connections  
Threaded connections MM UNI-EN-ISO 228

- Max operating temperature 100 °C
- Max operating pressure 10 Bar

Certifications:



Code	Measure	Pack	Outer	Cat.
1100.06.00	1"	10	10	09.01



Use for connecting manifolds to zone valves. Used on RBM products with prearrangement on OR seal (filters, pressure reducing valves, etc...).



**Series 164.A**

**40 mm extension for copper pipe.**

Nickel brass body.  
Elastomer seals.  
Standard RBM threaded F connection.

- Max operating temperature 95 °C
- Max operating pressure 10 Bar

Certifications:



Code	Measure	Pack	Outer	Cat.
164.04.00	RBM Ø 10	10	40	09.01
164.04.10	RBM Ø 12	10	40	09.01
164.04.20	RBM Ø 14	10	40	09.01

Standard RBM thread W 24.5x19 F





### Series 164.B

#### 40 mm extension for multilayer polyethylene pipe.

Nickel brass body.  
Elastomer seals.  
Standard RBM threaded F connection.

- Max operating temperature 95 °C
- Max operating pressure 10 Bar

Certifications:



Code	Measure	Pack	Outer	Cat.
<b>164.16.20</b>	16x2	10	40	09.01

RBM standard thread W24.5x19FF



### Series 81

#### In-line fitting for joining copper, polyethylene and multilayer metal-plastic pipes.

Nickel brass body.  
Standard RBM threaded M connection.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Certifications:



Code	Size A	Size B	Pack	Outer	Cat.
<b>81.00.00</b>	RBM	RBM	10	10	09.01

Standard RBM thread W24.5x19F



### Series 83

#### In-line fitting for joining copper, polyethylene and multilayer metal-plastic pipes.

Nickel brass body.  
Threaded connection:  
M UNI-EN-ISO 228 (A)  
M standard RBM (Standard RBM thread W24,5x19F) (B)

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Certifications:



Code	Size A	Size B	Pack	Outer	Cat.
<b>83.03.00</b>	G 3/8" M	RBM	10	10	09.01
<b>83.04.00</b>	G 1/2" M	RBM	10	10	09.01

Standard RBM thread W24.5x19F



Adapter piece iron pipe valves for copper or polyethylene pipe.



### Series 3576

#### Copper pipe adapter for 1/2" iron connection valves.

Nickel-plated brass ogive presser.  
Brass ogive and adapter.  
Threaded connection M UNI-EN-ISO 228.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Code	Size A	Size B	Pack	Outer	Cat.
<b>3576.10.50</b>	1/2"	Ø 10	10	100	09.01
<b>3576.12.50</b>	1/2"	Ø 12	10	100	09.01
<b>3576.14.50</b>	1/2"	Ø 14	10	100	09.01





### Series 263

#### Compression fitting for annealed copper pipe.

Brass ogive.  
Nickel plated brass nut.  
Elastomer seal ogive.  
Euroconus F G3/4" threaded connection.

- Max operating temperature 95 °C
- Max operating pressure 10 Bar

Code	Measure	Pack	Outer	Cat.
<b>263.12.20</b>	Ø 12	10	100	09.01
<b>263.15.20</b>	Ø 15	10	100	09.01

*Euroconus G3/4" thread UNI-EN-ISO 228*



### Series 361

#### Compression fitting for annealed copper pipe.

Brass ogive.  
Nickel plated brass nut.  
Elastomer seal ogive.  
Euroconus F G3/4" threaded connection.

- Max operating temperature 95 °C
- Max operating pressure 10 Bar

Code	Size A	Size B	Pack	Outer	Cat.
<b>361.10.00</b>	G 3/4"	Ø 10	10	100	09.01
<b>361.12.00</b>	G 3/4"	Ø 12	10	100	09.01
<b>361.14.00</b>	G 3/4"	Ø 14	10	100	09.01
<b>361.15.00</b>	G 3/4"	Ø 15	10	100	09.01
<b>361.16.00</b>	G 3/4"	Ø 16	10	100	09.01
<b>361.18.00</b>	G 3/4"	Ø 18	10	100	09.01

*Euroconus G3/4" thread UNI-EN-ISO 228*



### Series 217.A

#### Compression fitting for polyethylene pipe.

Brass ogive.  
Nickel plated brass nut.  
Elastomer seal ring.  
Euroconus F G3/4" threaded connection.

- Max operating temperature 95 °C
- Max operating pressure 10 Bar

Certifications:



#### Polyethylene pipe fitting

Code	Measure	Pack	Outer	Cat.
<b>217.12.00</b>	12x2	10	100	09.01
<b>217.15.00</b>	15x2	10	100	09.01
<b>217.15.10</b>	15x2,5	10	100	09.01
<b>217.16.10</b>	16x2,2	10	100	09.01
<b>217.18.00</b>	18x2	10	100	09.01
<b>217.20.10</b>	20x2,8	10	100	09.01
<b>217.21.00</b>	21x2,5	10	100	09.01

*Euroconus G3/4" thread UNI-EN-ISO 228*

*Size: Outside Ø x pipe thickness*

#### Komo certified fitting for polyethylene pipe

Code	Measure	Pack	Outer	Cat.
<b>217.16.60</b>	16x2	10	100	09.01
<b>217.17.60</b>	17x2	10	100	09.01
<b>217.20.60</b>	20x2	10	100	09.01





### Series 123

#### Compression fitting for polyethylene pipe.

Brass ogive.  
Nickel plated brass nut.  
Elastomer seal ring.  
Euroconus F G3/4" threaded connection.

- Max operating temperature 95 °C
- Max operating pressure 10 Bar

Certifications:

CSTB (certification only valid if used with CSTB certified RBM KILMA-FLEX PE-RT pipe).



Code	Measure	Pack	Outer	Cat.
123.12.00	12x1,1	10	100	09.01
123.16.00	16x1,5	10	100	09.01
123.20.00	20x1,9	10	100	09.01

Euroconus G 3/4" thread UNI-EN-ISO 228  
Size: Outside Ø x pipe thickness



### Series 224.A

#### Compression fitting for metal-plastic multilayer pipe.

Compatible with Q-tec copper pipe with matching sizes.  
Respect pipe flaring and gauging conditions.

Brass ogive.  
Nickel plated brass nut.  
Elastomer seal ring.  
Euroconus F G3/4" threaded connection.

- Max operating temperature 95 °C
- Max operating pressure 10 Bar

Certifications:



Code	Measure	Pack	Outer	Cat.
224.14.00	14x2	10	100	09.01
224.16.10	16,2x2,6	10	100	09.01
224.16.20	16x2,25	10	100	09.01
224.17.00	17x2	10	100	09.01
224.18.00	18x2	10	100	09.01
224.20.30	20x2,25	10	100	09.01
224.20.10	20x2,5	10	100	09.01
224.20.20	20x2,9	10	100	09.01

Euroconus G 3/4" thread UNI-EN-ISO 228  
Size: Outside Ø x pipe thickness



### Series 222

#### In-line fitting for joining copper, polyethylene and multilayer metal-plastic pipes.

Nickel brass body.  
Threaded connections:  
Euroconus M G3/4".  
M 1/2" UNI-EN-ISO 228.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Certifications:



Code	Size A	Size B	Pack	Outer	Cat.
222.05.10	G 3/4"	Euroconus	10	100	09.01
222.05.00	G 1/2"	Euroconus	10	100	09.01

Euroconus G 3/4" thread UNI-EN-ISO 228



### Series 1401

#### Compression fitting for copper pipe.

Nickel brass body.  
Elastomer seals.  
Standard RBM threaded F connection.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Code	Measure	Pack	Outer	Cat.
1401.12.00	RBM Ø 12	10	100	09.01
1401.16.00	RBM Ø 16	10	100	09.01

Standard RBM thread W24.5x19F



Price List





**Series 139**

**Compression fitting for copper pipe.**

Nickel brass body.  
Elastomer seals.  
FG1/2" threaded connection.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Code	Size A	Size B	Pack	Outer	Cat.
139.10.50	G 1/2"	Ø 10	10	100	09.01
139.12.50	G 1/2"	Ø 12	10	100	09.01
139.14.50	G 1/2"	Ø 14	10	100	09.01
139.15.50	G 1/2"	Ø 15	10	100	09.01

Tapered seat.  
Used with extension lead code 164.04.X0 (see page 101)



**Series 735**

**Compression fitting for polyethylene pipe, flat seat.**

Nickel brass body.  
Elastomer seals.  
FG1/2" threaded connection.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Certifications:



Code	Measure	Pack	Outer	Cat.
735.12.00	12x1,1	10	100	09.01
735.16.00	16x1,5	10	100	09.01
735.16.10*	16x2	10	100	09.01
735.16.20*	16x2	10	100	09.01

\*Can also be used for multilayer polyethylene pipe  
Thread FG 1/2"

Flat seat.



**Series 2796**

**Compression fitting for metal-plastic multilayer pipe.**

Nickel brass body.  
Elastomer seals.  
FG1/2" threaded connection.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Code	Measure	Pack	Outer	Cat.
2796.16.00	16x2	10	100	09.01

Thread FG 1/2"



**Series 140**

**Blind side cap.**

Nickel brass body.  
PTFE seals.  
FG1/2" threaded connection.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Certifications:



Code	Measure	Pack	Outer	Cat.
140.04.00	G 1/2"	10	40	09.01

Thread FG 1/2"

Flat seat.



**Series 120**

**PN16 Threaded flange suited for connecting threaded reducers, filters and ball valves to flange distribution networks.**

Nickel brass body.  
Threaded connection M UNI-EN-ISO 228.  
Flanged connection suited for coupling with counter flange UNI EN 1092-1.

- Max operating temperature 150 °C

Certifications:



Code	Size A	Size B	Pack	Outer	Cat.
120.09.00	2"	DN 50	2	2	09.01
120.10.00	2"1/2	DN 65	1	1	09.01
120.11.00	3"	DN 80	1	1	09.01
120.13.00	4"	DN 100	1	1	09.01

Flange suitable for coupling with counter-flange UNI EN 1092-1.  
Floating flange





### Series 42.A

#### Blind cap for manifold ways.

Nickel brass body.  
PTFE seal.  
Standard RBM threaded F connection.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Code	Measure	Pack	Outer	Cat.
<b>42.00.00</b>	RBM	10	40	09.01

Standard RBM thread W 24.5x19 F

Certifications:



### Series 240

#### Blind cap G3/4" for manifold ways.

Nickel brass body.  
PTFE seal.  
Euroconus F G3/4" threaded connection.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Code	Measure	Pack	Outer	Cat.
<b>240.05.00</b>	G 3/4"	10	40	09.01

Euroconus G 3/4" thread UNI-EN-ISO 228

Certifications:



### Series 242

#### Blind cap G1/2" M for manifold ways.

Brass body.  
Elastomer seal.  
Threaded connection M UNI-EN-ISO 228.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Code	Measure	Pack	Outer	Cat.
<b>242.04.00</b>	1/2"	10	100	09.01



Used for manifolds with female G 1/2" junction female connections (code 35.0X.40).

Certifications:



### Series 2944.B

#### Blind cap for fittings with standard RBM threaded connection.

Brass body.  
Standard RBM threaded M connection.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Code	Measure	Pack	Outer	Cat.
<b>294.40.04</b>	RBM	1	1	09.01

Standard RBM thread W 24.5 x 19 F



For testing system.

Certifications:



### Series 57.A

#### Extension and reduction for RBM connection.

Nickel brass body.  
PTFE seal.  
Threaded MF standard RBM connection.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Code	Measure	Pack	Outer	Cat.
<b>57.16.00*</b>	RBM	10	100	09.01
<b>57.18.00**</b>	RBM	10	100	09.01

\*Lengthens the standard RBM connection by 10 mm

\*\*Makes it possible to use Ø18 copper pipes

Certifications:







### Series 43.A

#### Fitting for side connection of valve to manifold.

Nickel brass body.  
PTFE seal.  
Threaded F standard RBM connection F  
UNI-EN-ISO 228.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Code	Measure	Pack	Outer	Cat.
43.03.00	G 3/8"	10	100	09.01
43.04.00	G 1/2"	10	100	09.01

Standard RBM thread W 24.5x19 F

Certifications:



### Series 45

#### Pipe connection junction.

Nickel brass body.  
Threaded connections MF UNI-EN-ISO 228.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Code	Measure	Pack	Outer	Cat.
45.05.00	G 3/4"	10	100	09.01

Certifications:



### Series 42.B

#### Blind head cap for manifolds.

Nickel brass body.  
PTFE seal.  
Threaded connection F UNI-EN-ISO 228.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Code	Measure	Pack	Outer	Cat.
42.05.00	G 3/4"	10	100	09.01
42.06.00	G 1"	10	100	09.01

Certifications:



### Series 42.C

#### Perforated head cap for manifolds.

Nickel brass body.  
PTFE seal.  
Connection to manifold F UNI-EN-ISO 228.  
F 3/8" head connection UNI-EN-ISO 228.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Code	Size A	Size B	Pack	Outer	Cat.
42.05.30	G 3/8"	G 3/4"	10	100	09.01
42.06.30	G 3/8"	G 1"	10	100	09.01

Certifications:



### Series 43.B

#### Head connection for manifolds with copper or polyethylene fitting connection.

Nickel brass body.  
PTFE seal.  
Threaded connections:  
M standard RBM.  
F UNI-EN-ISO 228.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Code	Measure	Pack	Outer	Cat.
43.05.00	G 3/4"	10	100	09.01
43.06.00	G 1"	10	100	09.01

Standard RBM thread W 24.5x19 F

Certifications:





### Series 56.A

#### Blind head cap for manifolds.

Nickel brass body.  
PTFE seal.  
Threaded connection M UNI-EN-ISO 228.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Certifications:



Code	Measure	Pack	Outer	Cat.
56.05.00	G 3/4"	10	100	09.01
56.06.00	G 1"	10	100	09.01
56.07.00	G 1"1/4	10	100	09.01



### Series 56.B

#### Head connection for manifolds.

Nickel brass body.  
PTFE seal.  
Connection to manifold M UNI-EN-ISO 228.  
Head connection F 3/8" UNI-EN-ISO 228."

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Certifications:



Code	Size A	Size B	Pack	Outer	Cat.
56.05.30	G 3/8"	G 3/4"	10	100	09.01
56.06.30	G 3/8"	G 1"	10	100	09.01



### Series 57.B

#### Head connection for manifolds with copper or polyethylene fitting connection.

Nickel brass body.  
PTFE seal.  
Threaded connections:  
M standard RBM.  
M UNI-EN-ISO 228.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Certifications:



Code	Measure	Pack	Outer	Cat.
57.05.00	G 3/4"	10	100	09.01
57.06.00	G 1"	10	100	09.01

Standard RBM thread W 24.5x19 F



### Series 178

#### Copper pipe adapter.

Nickel brass body.  
Elastomer O-Ring seal.  
Threaded connection M UNI-EN-ISO 228.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Certifications:



Code	Size A	Size B	Pack	Outer	Cat.
178.04.00	1/2"	Ø 15	10	40	09.01
178.05.00	3/4"	Ø 22	10	40	09.01
178.06.00	1"	Ø 28	10	40	09.01



# 01. HYDROTHERMAL DISTRIBUTION

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## 10. WATER DISTRIBUTION

### 10.01 MULTI-LAYER PIPES

110

- PE-Xc bare multi-layer pipe
- PE-Xc multi-layer thermally coated pipe
- PE-Xc multi-layer pipe with anti-condensation coating
- PE-RT bare multi-layer pipe
- PE-RT multi-layer thermally coated pipe
- PE-RT multi-layer pipe with anti-condensation coating

### 10.02 FITTINGS FOR MULTI-LAYER PIPES

117

- Press fittings for multi-layer pipes
- Shut-off taps
- Compression fittings for multi-layer pipes

## Series 1542

**PE-Xc RBM Tita-fix multilayer pipe.**

Multilayer pipe for underfloor heating in polyethylene, aluminium and polyethylene. Welded aluminium layer type A

- Composition PE-Xc/Al/PE-RT
- White
- Poper 10 Bar
- Tmal 95 °C
- Duration at operating conditions ~ 50 years
- Type: PE-Xc

## PE-Xc RBM Tita-fix multilayer pipe in roll

Code	Pipe size (mm)	Aluminium th. (mm)	Roll (m)	Pack (m)	Pallet- (m)	Cat.
<b>1542.16.00</b>	16x2	0,20	100	100	1400	10.01
<b>1542.16.40</b>	16x2	0,20	250	250	2500	10.01
<b>1542.16.30</b>	16x2	0,20	500	500	3000	10.01
<b>1542.20.00</b>	20x2	0,30	100	100	1400	10.01
<b>1542.26.00</b>	26x3	0,40	50	50	550	10.01
<b>1542.32.00</b>	32x3	0,40	50	50	600	10.01

Size: *Outside Ø x pipe thickness*

## PE-Xc RBM Tita-fix multilayer pipe in bars

Code	Pipe size (mm)	Aluminium th. (mm)	Bar (m)	Pack- (m)	Cat.
<b>1543.16.00</b>	16x2	0,20	4	100	10.01
<b>1543.20.00</b>	20x2	0,30	4	76	10.01
<b>1543.26.00</b>	26x3	0,40	4	40	10.01
<b>1543.32.00</b>	32x3	0,40	4	24	10.01

Size: *Outside Ø x pipe thickness*



The entire package must be ordered.

Certifications:

Compliant with: EN ISO 21003 - DM 174/04



## Series 1541.B



Code	Pipe size (mm)	Aluminium th. (mm)	Roll (m)	Pack (m)	Pallet- (m)	Cat.
<b>1541.16.50*</b>	16x2	0,20	50	1	750	10.01
<b>1541.20.50</b>	20x2	0,30	50	1	650	10.01
<b>1541.26.50</b>	26x3	0,40	50	1	600	10.01
<b>1541.32.50</b>	32x3	0,40	25	1	300	10.01

Size: Outside Ø x pipe thickness

\* Insulation thickness compliant with law 09 January 1991 n. 10 and valid for pipes installed in heated premises and/or facilities neither facing outside or unheated rooms.

**PE-Xc RBM Tita-fix multilayer pipe externally insulated with closed cell expanded polyethylene conduit, CFC-free, flame retardant.**

Pipe features as in code 1542-1543.

Insulating conduit features:

- Density 35 kg/m<sup>3</sup>
- Thermal conductivity at 40 °C
- only conduit: 0.038 W/mK
- conduit + pipe (average value): 0.069 W/mK
- Steam permeability  $\mu$  5.482
- Insulation thickness 6 mm



Suitable for heating and domestic hot water distribution systems.

Certifications:

Compliant with: EN ISO 21003 - DM 174/04

Conduit thickness compliant with law 9 January 1991 n. 10 and valid for pipes installed in heated premises and/or facilities neither facing outside or unheated rooms.



## Series 1541.C



Code	Pipe size (mm)	Aluminium th. (mm)	Roll (m)	Pack (m)	Pallet- (m)	Cat.
<b>1541.16.40</b>	16x2	0,20	50	1	550	10.01
<b>1541.20.40</b>	20x2	0,30	50	1	450	10.01
<b>1541.26.40</b>	26x3	0,40	50	1	450	10.01
<b>1541.32.40</b>	32x3	0,40	25	1	250	10.01

Size: Outside Ø x pipe thickness

**PE-Xc RBM Tita-fix multilayer pipe externally insulated with closed cell expanded polyethylene anti-condensation conduit, CFC-free, flame retardant.**

Pipe features as in code 1542-1543.

Insulating conduit features:

- Density 35 kg/m<sup>3</sup>
- Thermal conductivity at 40 °C
- conduit only 0.038 W/mK
- conduit+pipe (average value) 0.062 W/mK
- Steam permeability μ 5.482
- Insulation thickness 10 mm



Suitable for hydronic refrigeration and heating systems

Certifications:

Compliant with: EN ISO 21003 - DM 174/04

Insulation thickness compliant with law 09 January 1991 n. 10 and valid for pipes installed in heated premises and/or facilities neither facing outside or unheated rooms.

## Series 1541.A



**PE-Xc RBM Tita-fix multilayer pipe in roll with protective corrugated conduit - Blue**

Code	Pipe size (mm)	Aluminium th. (mm)	Roll (m)	Pack (m)	Pallet- (m)	Cat.
<b>1541.20.80</b>	20x2	0,30	50	1	650	10.01

**PE-Xc RBM Tita-fix multilayer pipe in roll with protective corrugated conduit - Red**

Code	Pipe size (mm)	Aluminium th. (mm)	Roll (m)	Pack (m)	Pallet- (m)	Cat.
<b>1541.20.90</b>	20x2	0,30	50	1	650	10.01

Size: Outside Ø x pipe thickness

**PE-Xc RBM Tita-fix multilayer pipe, protected externally with polypropylene corrugated conduit.**

Pipe features as in code 1542-1543.

Corrugated conduit features:

- outside diameter of pipe 16x2: 25 mm
- outside diameter of pipe 20x2: 32 mm



Suitable for domestic hot water distribution systems.

Certifications:

Compliant with: EN ISO 21003 - DM 174/04



## Series 1545



## PE-RT RBM Tita-fix multilayer pipe in roll

Code	Pipe size (mm)	Aluminium th. (mm)	Roll (m)	Pack (m)	Pallet- (m)	Cat.
<b>1545.16.00</b>	16x2	0,20	100	100	1400	10.01
<b>1545.16.20</b>	16x2	0,20	250	250	2500	10.01
<b>1545.16.10</b>	16x2	0,20	500	500	3000	10.01
<b>1545.20.00</b>	20x2	0,30	100	100	1400	10.01
<b>1545.20.10</b>	20x2	0,30	250	250	1750	10.01
<b>1545.20.50</b>	20x2	0,30	500	500	2500	10.01
<b>1545.26.00</b>	26x3	0,40	50	1	550	10.01
<b>1545.32.00</b>	32x3	0,40	50	1	600	10.01
<b>1545.40.00</b>	40x3,5	0,50	25	1	300	10.01

Size: Outside  $\varnothing$  x pipe thickness

## PE-RT RBM Tita-fix multilayer pipe in bars

Code	Pipe size (mm)	Aluminium th. (mm)	Bar (m)	Pack- (m)	Pallet- (m)	Cat.
<b>1546.16.00</b>	16x2	0,20	4	100	-	10.01
<b>1546.20.00</b>	20x2	0,30	4	76	-	10.01
<b>1546.26.00</b>	26x3	0,40	4	40	-	10.01
<b>1546.32.00</b>	32x3	0,40	4	24	-	10.01
<b>1546.40.00</b>	40x3,5	0,50	5	50	800	10.01
<b>1546.50.00</b>	50x4	0,60	5	15	500	10.01
<b>1546.63.00</b>	63x4,5	0,80	5	5	385	10.01

Size: Outside  $\varnothing$  x pipe thickness

**PE-RT RBM Tita-fix multilayer pipe.**

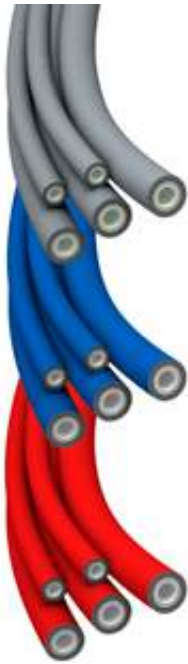
Multilayer pipe for underfloor heating in polyethylene, aluminium and polyethylene. Welded aluminium layer type A

- Composition PE-RT/Al/PE-RT
- White
- Poper 10 Bar
- Tmal 95 °C
- Duration at operating conditions ~ 50 years
- Type: PE-RT

Certifications:

Compliant with: EN ISO 21003 - DM 174/04





### Series 1544.B

#### PE-RT RBM Tita-fix multilayer pipe externally insulated with closed cell expanded polyethylene conduit, CFC-free, flame retardant.

Pipe features as in code 1545-1546.

Insulating conduit features:

- Density 35 kg/m<sup>3</sup>
- Thermal conductivity at 40 °C
- only conduit: 0.038 W/mK
- conduit + pipe (average value): 0.069 W/mK
- Steam permeability  $\mu$  5.482
- Insulation thickness 6 mm
- Type: PE-RT

Certifications:

Compliant with: EN ISO 21003 - DM 174/04

Conduit thickness compliant with law 9 January 1991 n. 10 and valid for pipes installed in heated premises and/or facilities neither facing outside or unheated rooms.



#### PE-RT RBM Tita-fix multilayer pipe in roll with thermal insulation - Grey

Code	Pipe size (mm)	Aluminium th. (mm)	Roll (m)	Pack (m)	Pallet- (m)	Cat.
<b>1544.16.50*</b>	16x2	0,20	50	1	750	10.01
<b>1544.20.50</b>	20x2	0,30	50	1	650	10.01
<b>1544.26.50</b>	26x3	0,40	50	1	600	10.01
<b>1544.32.50</b>	32x3	0,40	25	1	300	10.01

#### PE-RT RBM Tita-fix multilayer pipe in roll with thermal insulation - Blue

Code	Pipe size (mm)	Aluminium th. (mm)	Roll (m)	Pack (m)	Pallet- (m)	Cat.
<b>1946.16.20*</b>	16x2	0,20	50	1	750	10.01
<b>1946.20.20</b>	20x2	0,30	50	1	650	10.01
<b>1946.26.20</b>	26x3	0,40	50	1	600	10.01
<b>1946.32.20</b>	32x3	0,40	25	1	300	10.01

#### PE-RT RBM Tita-fix multilayer pipe in roll with thermal insulation - Red

Code	Pipe size (mm)	Aluminium th. (mm)	Roll (m)	Pack (m)	Pallet- (m)	Cat.
<b>1946.16.30*</b>	16x2	0,20	50	1	750	10.01
<b>1946.20.30</b>	20x2	0,30	50	1	650	10.01
<b>1946.26.30</b>	26x3	0,40	50	1	600	10.01
<b>1946.32.30</b>	32x3	0,40	25	1	300	10.01

Size: Outside  $\varnothing$  x pipe thickness

\*Insulation thickness compliant with law 09 January 1991 n. 10 and valid for pipes installed in heated premises and/or facilities neither facing outside or unheated rooms.



Suitable for heating and domestic hot water distribution systems.







### Series 1544.C

**PE-RT RBM Tita-fix multilayer pipe externally insulated with closed cell expanded polyethylene anti-condensation conduit, CFC-free, flame retardant.**

Pipe features as in code 1545-1546.

Insulating conduit features:

- Density 35 kg/m<sup>3</sup>
- Thermal conductivity at 40 °C
- conduit only 0.038 W/mK
- conduit+pipe (average value) 0.062 W/mK
- Steam permeability  $\mu$  5.482
- Insulation thickness 10 mm

Certifications:

Compliant with: EN ISO 21003 - DM 174/04

Insulation thickness compliant with law 09 January 1991 n. 10 and valid for pipes installed in heated premises and/or facilities neither facing outside or unheated rooms.



Code	Pipe size (mm)	Aluminium th. (mm)	Roll (m)	Pack (m)	Pallet- (m)	Cat.
<b>1544.16.40</b>	16x2	0,20	50	1	550	10.01
<b>1544.20.40</b>	20x2	0,30	50	1	450	10.01
<b>1544.26.40</b>	26x3	0,40	50	1	450	10.01
<b>1544.32.40</b>	32x3	0,40	25	1	250	10.01

Size: Outside  $\varnothing$  x pipe thickness



Suitable for hydronic refrigeration and heating systems.



### Series 1544.A

**PE-RT RBM Tita-fix multilayer pipe, protected externally with polypropylene corrugated conduit.**

Pipe features as in code 1545-1546.

Corrugated conduit features:

- outside diameter of pipe 16x2: 25 mm
- outside diameter of pipe 20x2: 32 mm
- Type: PE-RT

Certifications:

Compliant with: EN ISO 21003 - DM 174/04



PE-RT RBM Tita-fix multilayer pipe in roll with protective corrugated conduit - Blue

Code	Pipe size (mm)	Aluminium th. (mm)	Roll (m)	Pack (m)	Pallet- (m)	Cat.
<b>1544.16.80</b>	16x2	0,20	50	1	700	10.01
<b>1544.20.80</b>	20x2	0,30	50	1	650	10.01

PE-RT RBM Tita-fix multilayer pipe in roll with protective corrugated conduit - Red

Code	Pipe size (mm)	Aluminium th. (mm)	Roll (m)	Pack (m)	Pallet- (m)	Cat.
<b>1544.16.90</b>	16x2	0,20	50	1	700	10.01
<b>1544.20.90</b>	20x2	0,30	50	1	650	10.01

Size: Outside  $\varnothing$  x pipe thickness



Suitable for domestic hot water distribution systems.



# RBM TITA-FIX

## Hydrothermal distribution system



Due to its mechanical properties and geometric stability, **RBM Tita-Fix** pipe can be used in a variety of thermo-technical and plumbing applications in the civil and industrial sector, such as heating and sanitary installations.

It consists of an inner polyethylene layer covered with a middle aluminium layer, which makes the multilayer pipe impermeable to oxygen infiltration, and of an outer polyethylene layer, which protects the aluminium. The **RBM Tita-Fix** pipe offers in a single product, the best traditions of reliability and solidity of metal pipes and the installation convenience of plastic pipes.

The 'TIG - butt' welding of the aluminium strip, a special feature of the **RBM Tita-Fix** pipe, is able to guarantee the pipe maximum strength and reliability, combined with lightness and flexibility.

### TESTING

Prior to the final bricklaying of the installation, it is mandatory to test both the sanitary and heating installations. Below are the titles of the reference standards setting out the testing criteria, referring you to reading the full text:

#### UNI 5364:1976

"Hot water heating systems. Rules for tender submission and acceptance"

#### UNI 9182:2008

"Cold and hot water supply and distribution systems. Design, testing and management criteria."

#### UNI EN 1264-4:2003

"Underfloor Heating - Systems and Components - Installation."

#### DIN 1988-1

"Drinking water supply system; general (DVGW code of practice)."

- 1 Internal polyethylene layer (PE-Xc - PE-RT)
- 2 Intermediate aluminium layer
- 3 Adhesive layer
- 4 External polyethylene layer (PE-RT)

### QUALITY CONTROL

For effective quality control, RBM Tita-Fix pipes are tested before sale with helium gas to find even the smallest leaks

### PEELING TEST

Through the 'peeling test', the adhesion of the plastic layers to the aluminium interlayer is measured and monitored; the test is carried out for each production batch.

### FLARING

A conical punch is inserted into the end section of the pipe, and the pipe is expanded by at least 10% compared to the original diameter; the test is carried out for each production batch.

### TESTING FOR OBSTRUCTIONS

Once the roll has been produced, the entire length of the roll is traversed by a steel ball, which makes it possible to check for internal obstructions.

### FURTHER PRODUCT TESTING

In our laboratories, we carry out all the tests required by the main standards to verify the quality of the pipe and the tightness of the pipe-connection system, such as, for example:

- pressure cycles
- thermal cycles
- vacuum test
- pull-out resistance, etc

In production, controls are constant, both during the extrusion phase and afterwards

# 01. HYDROTHERMAL DISTRIBUTION

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## 10. WATER DISTRIBUTION

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### 10.02 FITTINGS FOR MULTI-LAYER PIPES

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- Press fittings for multi-layer pipes
- Shut-off taps
- Compression fittings for multi-layer pipes



### Series 812

#### Press fitting for multilayer pipe - rotary nut - flat seat gas thread

Multi-clamp fitting.

Compatible with clamps series:

- TH, H, U, B, F for  $\varnothing$  16x2 - 18x2 and 20x2;
- TH, H, B for  $\varnothing$  26x3;
- TH, H for  $\varnothing$  32x3;

Externally nickel-plated brass body

Elastomer seals

Stainless steel pipe clamping bush

Dielectric pipe clamp cover in PE

Threaded connection UNI-EN-ISO 228

Max operating temperature 95 °C

Max operating pressure 10 Bar

Certifications:



Code	Size A	Size B	Pack	Outer	Cat.
<b>812.16.10</b>	16x2	3/8" F	10	200	10.02
<b>812.16.20</b>	16x2	1/2" F	10	200	10.02
<b>812.16.30</b>	16x2	3/4" F	10	160	10.02
<b>812.18.30</b>	18x2	3/4" F	10	160	10.02
<b>812.20.20</b>	20x2	1/2" F	10	160	10.02
<b>812.20.30</b>	20x2	3/4" F	10	160	10.02
<b>812.26.30</b>	26x3	3/4" F	10	100	10.02
<b>812.26.40</b>	26x3	1" F	10	100	10.02
<b>812.26.50</b>	26x3	1 1/4" F	1	50	10.02
<b>812.32.40</b>	32x3	1" F	10	80	10.02
<b>812.32.50</b>	32x3	1 1/4" F	10	80	10.02

Size A: Outside  $\varnothing$  x pipe thickness



### Series 963

#### Press fitting for metal-plastic multilayer pipe.

Multi-clamp fitting.

Compatible with clamps series:

- TH, H, U, B, F for  $\varnothing$  16x2 - 18x2 and 20x2;
- TH, H, B for  $\varnothing$  26x3;
- TH, H for  $\varnothing$  32x3;
- TH for  $\varnothing$  40x3.5 - 50x4 e 63x4.5

Externally nickel-plated brass body

Elastomer seals

Stainless steel pipe clamping bush

Dielectric pipe clamp cover in PE

Euroconus threaded connection G3/4" UNI-EN-ISO 228

Max operating temperature 95 °C

Max operating pressure 10 Bar

Certifications:



Code	Size A	Size B	Pack	Outer	Cat.
<b>963.16.30</b>	16x2	Euroconus	10	100	10.02
<b>963.18.30</b>	18x2	Euroconus	10	100	10.02
<b>963.20.30</b>	20x2	Euroconus	10	100	10.02
<b>963.26.30</b>	26x3	Euroconus	10	50	10.02

Size A: Outside  $\varnothing$  x pipe thickness



### Series 826

#### Gas press fitting for metal-plastic multilayer pipe - rotary nut - standard RBM thread

Multi-clamp fitting.

Compatible with clamps series:

- TH, H, U, B, F for  $\varnothing$  16x2 - 18x2 and 20x2;
- TH, H, B for  $\varnothing$  26x3;
- TH, H for  $\varnothing$  32x3;
- TH for  $\varnothing$  40x3.5 - 50x4 e 63x4.5

Externally nickel-plated brass body

Elastomer seals

Stainless steel pipe clamping bush

Dielectric pipe clamp cover in PE

Standard RBM threaded connection W24.5x19F

Max operating temperature 95 °C

Max operating pressure 10 Bar

Certifications:



Code	Size A	Size B	Pack	Outer	Cat.
<b>826.16.00</b>	16x2	RBM	10	100	10.02
<b>826.18.00</b>	18x2	RBM	10	100	10.02
<b>826.20.00</b>	20x2	RBM	10	100	10.02

Size A: Outside  $\varnothing$  x pipe thickness





### Series 671

#### Press fitting for multilayer pipe - straight - intermediate

Multi-clamp fitting.

Compatible with clamps series:

- TH, H, U, B, F for Ø 16x2 - 18x2 and 20x2;
- TH, H, B for Ø 26x3;
- TH, H for Ø 32x3;
- TH for Ø 40x3.5 - 50x4 e 63x4.5

Externally nickel-plated brass body

Elastomer seals

Stainless steel pipe clamping bush

Dielectric pipe clamp cover in PE

Max operating temperature 95 °C

Max operating pressure 10 Bar

Certifications:



Code	Size A	Pack	Outer	Cat.
<b>671.16.00</b>	16x2	10	240	10.02
<b>671.18.00</b>	18x2	10	200	10.02
<b>671.20.00</b>	20x2	10	200	10.02
<b>671.26.00</b>	26x3	10	120	10.02
<b>671.32.00</b>	32x3	5	100	10.02
<b>671.40.00</b>	40x3,5	5	60	10.02
<b>671.50.00</b>	50x4	4	40	10.02
<b>671.63.00</b>	63x4,5	3	18	10.02

Size A: Outside Ø x pipe thickness



### Series 672

#### Press fitting for multilayer pipe - straight - female gas connection

Multi-clamp fitting.

Compatible with clamps series:

- TH, H, U, B, F for Ø 16x2 - 18x2 and 20x2;
- TH, H, B for Ø 26x3;
- TH, H for Ø 32x3;
- TH for Ø 40x3.5 - 50x4 e 63x4.5

Externally nickel-plated brass body

Elastomer seals

Stainless steel pipe clamping bush

Dielectric pipe clamp cover in PE

Straight threaded connection F UNI-EN-ISO 228

Max operating temperature 95 °C

Max operating pressure 10 Bar

Certifications:



Code	Size A	Size B	Pack	Outer	Cat.
<b>672.16.20</b>	16x2	1/2" F	10	200	10.02
<b>672.16.30</b>	16x2	3/4" F	-	-	10.02
<b>672.18.20</b>	18x2	1/2" F	10	200	10.02
<b>672.18.30</b>	18x2	3/4" F	10	160	10.02
<b>672.20.20</b>	20x2	1/2" F	10	200	10.02
<b>672.20.30</b>	20x2	3/4" F	10	160	10.02
<b>672.26.30</b>	26x3	3/4" F	10	100	10.02
<b>672.26.40</b>	26x3	1" F	10	100	10.02
<b>672.32.40</b>	32x3	1" F	5	80	10.02
<b>672.40.40</b>	40x3,5	1" F	5	40	10.02
<b>672.40.50</b>	40x3,5	1"1/4 F	5	40	10.02
<b>672.50.60</b>	50x4	1"1/2 F	5	20	10.02
<b>672.63.70</b>	63x4,5	2" F	1	16	10.02

Size A: Outside Ø x pipe thickness





### Series 673

#### Press fitting for multilayer pipe - straight - male gas connection

Multi-clamp fitting.

Compatible with clamps series:

- TH, H, U, B, F for  $\varnothing$  16x2 - 18x2 and 20x2;
- TH, H, B for  $\varnothing$  26x3;
- TH, H for  $\varnothing$  32x3;
- TH for  $\varnothing$  40x3.5 - 50x4 e 63x4.5

Externally nickel-plated brass body

Elastomer seals

Stainless steel pipe clamping bush

Dielectric pipe clamp cover in PE

Straight threaded connection M UNI-EN-ISO 228

Max operating temperature 95 °C

Max operating pressure 10 Bar

Certifications:



Code	Size A	Size B	Pack	Outer	Cat.
673.16.10	16x2	3/8" M	10	240	10.02
673.16.20	16x2	1/2" M	10	240	10.02
673.16.30	16x2	3/4" M	-	-	10.02
673.18.20	18x2	1/2" M	10	200	10.02
673.18.30	18x2	3/4" M	10	200	10.02
673.20.20	20x2	1/2" M	10	200	10.02
673.20.30	20x2	3/4" M	10	200	10.02
673.26.30	26x3	3/4" M	10	120	10.02
673.26.40	26x3	1" M	10	120	10.02
673.32.40	32x3	1" M	5	100	10.02
673.40.50	40x3,5	1"1/4 M	5	60	10.02
673.50.60	50x4	1"1/2 M	5	40	10.02
673.63.70	63x4,5	2" M	1	40	10.02

Size A: Outside  $\varnothing$  x pipe thickness



### Series 674

#### Press fitting for multilayer pipe - angle - intermediate

Multi-clamp fitting.

Compatible with clamps series:

- TH, H, U, B, F for  $\varnothing$  16x2 - 18x2 and 20x2;
- TH, H, B for  $\varnothing$  26x3;
- TH, H for  $\varnothing$  32x3;
- TH for  $\varnothing$  40x3.5 - 50x4 e 63x4.5

Externally nickel-plated brass body

Elastomer seals

Stainless steel pipe clamping bush

Dielectric pipe clamp cover in PE

Max operating temperature 95 °C

Max operating pressure 10 Bar

Certifications:



Code	Size A	Pack	Outer	Cat.
674.16.00	16x2	10	160	10.02
674.18.00	18x2	10	160	10.02
674.20.00	20x2	10	160	10.02
674.26.00	26x3	5	80	10.02
674.32.00	32x3	5	60	10.02
674.40.00	40x3,5	5	40	10.02
674.50.00	50x4	1	16	10.02
674.63.00	63x4,5	1	16	10.02

Size A: Outside  $\varnothing$  x pipe thickness



### Series 675

#### Press fitting for multilayer pipe - angle - female gas connection

Multi-clamp fitting.

Compatible with clamps series:

- TH, H, U, B, F for  $\varnothing$  16x2 - 18x2 and 20x2;
- TH, H, B for  $\varnothing$  26x3;
- TH, H for  $\varnothing$  32x3;
- TH for  $\varnothing$  40x3.5 - 50x4 e 63x4.5

Externally nickel-plated brass body

Elastomer seals

Stainless steel pipe clamping bush

Dielectric pipe clamp cover in PE

Angle threaded connection F UNI-EN-ISO 228

Max operating temperature 95 °C

Max operating pressure 10 Bar

Certifications:



Code	Size A	Size B	Pack	Outer	Cat.
675.16.20	16x2	1/2" F	10	200	10.02
675.18.20	18x2	1/2" F	10	160	10.02
675.18.30	18x2	3/4" F	10	160	10.02
675.20.20	20x2	1/2" F	10	160	10.02
675.20.30	20x2	3/4" F	10	120	10.02
675.26.30	26x3	3/4" F	5	80	10.02
675.26.40	26x3	1" F	-	-	10.02
675.32.40	32x3	1" F	5	60	10.02
675.40.50	40x3,5	1"1/4 F	5	40	10.02
675.50.60	50x4	1"1/2 F	1	20	10.02

Size A: Outside  $\varnothing$  x pipe thickness





### Series 676

#### Press fitting for multilayer pipe - angle - male gas connection

Multi-clamp fitting.

Compatible with clamps series:

- TH, H, U, B, F for  $\varnothing$  16x2 - 18x2 and 20x2;
- TH, H, B for  $\varnothing$  26x3;
- TH, H for  $\varnothing$  32x3;
- TH for  $\varnothing$  40x3.5 - 50x4 e 63x4.5

Externally nickel-plated brass body

Elastomer seals

Stainless steel pipe clamping bush

Dielectric pipe clamp cover in PE

Angle threaded connection M UNI-EN-ISO 228

Max operating temperature 95 °C

Max operating pressure 10 Bar

Certifications:



Code	Size A	Size B	Pack	Outer	Cat.
676.16.10	16x2	3/8" M	-	-	10.02
676.16.20	16x2	1/2" M	10	200	10.02
676.18.20	18x2	1/2" M	10	200	10.02
676.18.30	18x2	3/4" M	10	160	10.02
676.20.20	20x2	1/2" M	10	160	10.02
676.20.30	20x2	3/4" M	10	160	10.02
676.26.30	26x3	3/4" M	10	80	10.02
676.26.40	26x3	1" M	-	-	10.02
676.32.40	32x3	1" M	5	60	10.02
676.40.50	40x3,5	1"1/4" M	5	32	10.02

Size A: Outside  $\varnothing$  x pipe thickness



### Series 677

#### Press fitting for multilayer pipe - T-shaped - intermediate

Multi-clamp fitting.

Compatible with clamps series:

- TH, H, U, B, F for  $\varnothing$  16x2 - 18x2 and 20x2;
- TH, H, B for  $\varnothing$  26x3;
- TH, H for  $\varnothing$  32x3;
- TH for  $\varnothing$  40x3.5 - 50x4 e 63x4.5

Externally nickel-plated brass body

Elastomer seals

Stainless steel pipe clamping bush

Dielectric pipe clamp cover in PE

Max operating temperature 95 °C

Max operating pressure 10 Bar

Certifications:



Code	Size A	Pack	Outer	Cat.
677.16.00	16x2	10	120	10.02
677.18.00	18x2	5	80	10.02
677.20.00	20x2	10	80	10.02
677.26.00	26x3	5	40	10.02
677.32.00	32x3	5	40	10.02
677.40.00	40x3,5	5	20	10.02
677.50.00	50x4	1	8	10.02
677.63.00	63x4,5	1	8	10.02

Size A: Outside  $\varnothing$  x pipe thickness



### Series 678

#### Press fitting for multilayer pipe - T-shaped - gas central female connection

Multi-clamp fitting.

Compatible with clamps series:

- TH, H, U, B, F for  $\varnothing$  16x2 - 18x2 and 20x2;
- TH, H, B for  $\varnothing$  26x3;
- TH, H for  $\varnothing$  32x3;
- TH for  $\varnothing$  40x3.5 - 50x4 e 63x4.5

Externally nickel-plated brass body

Elastomer seals

Stainless steel pipe clamping bush

Dielectric pipe clamp cover in PE

Threaded connection F UNI-EN-ISO 228

Max operating temperature 95 °C

Max operating pressure 10 Bar

Certifications:



Code	Size A	Size B	Pack	Outer	Cat.
678.16.20	16x2	1/2" F	10	120	10.02
678.18.20	18x2	1/2" F	5	80	10.02
678.18.30	18x2	3/4" F	5	80	10.02
678.20.20	20x2	1/2" F	10	80	10.02
678.20.30	20x2	3/4" F	10	80	10.02
678.26.30	26x3	3/4" F	5	60	10.02
678.32.30	32x3	3/4" F	5	40	10.02
678.32.40	32x3	1" F	5	40	10.02
678.40.40	40x3,5	1" F	5	20	10.02
678.40.50	40x3,5	1"1/4" F	5	24	10.02
678.50.40	50x4	1" F	1	12	10.02

Size A: Outside  $\varnothing$  x pipe thickness







### Series 679

#### Press fitting for multilayer pipe - T-shaped - gas side female connection - double branch.

Multi-clamp fitting.  
Compatible with clamps series:

- TH, H, U, B, F for  $\varnothing$  16x2 - 18x2 and 20x2;
- TH, H, B for  $\varnothing$  26x3;
- TH, H for  $\varnothing$  32x3;
- TH for  $\varnothing$  40x3.5 - 50x4 e 63x4.5

Externally nickel-plated brass body  
Elastomer seals  
Stainless steel pipe clamping bush  
Dielectric pipe clamp cover in PE  
Threaded connection F UNI-EN-ISO 228  
Max operating temperature 95 °C  
Max operating pressure 10 Bar

Certifications:



Code	Size A	Size B	Pack	Outer	Cat.
679.16.20	16x2	1/2" F	10	60	10.02
679.18.20	18x2	1/2" F	10	60	10.02
679.18.30	18x2	3/4" F	10	60	10.02
679.20.20	20x2	1/2" F	10	60	10.02
679.20.30	20x2	3/4" F	10	60	10.02
679.26.30	26x3	3/4" F	10	40	10.02
679.32.40	32x3	1" F	5	30	10.02

Size A: Outside  $\varnothing$  x pipe thickness



### Series 680

#### Press fitting for multilayer pipe - T-shaped - gas central male connection

Multi-clamp fitting.  
Compatible with clamps series:

- TH, H, U, B, F for  $\varnothing$  16x2 - 18x2 and 20x2;
- TH, H, B for  $\varnothing$  26x3;
- TH, H for  $\varnothing$  32x3;
- TH for  $\varnothing$  40x3.5 - 50x4 e 63x4.5

Externally nickel-plated brass body  
Elastomer seals  
Stainless steel pipe clamping bush  
Dielectric pipe clamp cover in PE  
Threaded connection M UNI-EN-ISO 228  
Max operating temperature 95 °C  
Max operating pressure 10 Bar

Certifications:



Code	Size A	Size B	Pack	Outer	Cat.
680.16.20	16x2	1/2" M	10	120	10.02
680.18.20	18x2	1/2" M	10	80	10.02
680.18.30	18x2	3/4" M	10	80	10.02
680.20.20	20x2	1/2" M	10	80	10.02
680.20.30	20x2	3/4" M	10	80	10.02
680.26.30	26x3	3/4" M	5	60	10.02
680.26.40	26x3	1" M	5	60	10.02
680.32.30	32x3	3/4" M	5	40	10.02
680.32.40	32x3	1" M	5	40	10.02
680.40.40	40x3,5	1" M	5	20	10.02
680.40.50	40x3,5	1 1/4" M	5	20	10.02

Size A: Outside  $\varnothing$  x pipe thickness



### Series 890

#### Press fitting for multilayer pipe - straight - reduced.

Multi-clamp fitting.  
Compatible with clamps series:

- TH, H, U, B, F for  $\varnothing$  16x2 - 18x2 and 20x2;
- TH, H, B for  $\varnothing$  26x3;
- TH, H for  $\varnothing$  32x3;
- TH for  $\varnothing$  40x3.5 - 50x4 e 63x4.5

Externally nickel-plated brass body  
Elastomer seals  
Stainless steel pipe clamping bush  
Dielectric pipe clamp cover in PE  
Max operating pressure 95 °C  
Max operating pressure 10 Bar

Certifications:



Code	Size A	Size B	Pack	Outer	Cat.
890.18.10	18x2	16x2	10	240	10.02
890.20.10	20x2	16x2	10	240	10.02
890.20.20	20x2	18x2	10	240	10.02
890.26.00	26x3	16x2	10	160	10.02
890.26.10	26x3	18x2	10	160	10.02
890.26.20	26x3	20x2	10	160	10.02
890.32.00	32x3	16x2	5	120	10.02
890.32.10	32x3	20x2	5	120	10.02
890.32.20	32x3	26x3	5	120	10.02
890.40.10	40x3,5	32x3	5	40	10.02
890.50.10	50x4	32x3	5	40	10.02
890.50.00	50x4	40x3,5	5	40	10.02
890.63.10	63x4,5	40x3,5	1	4	10.02
890.63.00	63x4,5	50x4	1	4	10.02

Size A-B: Outside  $\varnothing$  x pipe thickness







### Series 851.A

#### Press fitting for multilayer pipe - T-shaped - reduced lateral way

- Multi-clamp fitting.  
Compatible with clamps series:
- TH, H, U, B for  $\varnothing$  14x2;
  - TH, H, U, B, F for  $\varnothing$  16x2 - 18x2 and 20x2;
  - TH, H, B for  $\varnothing$  26x3;
  - TH, H for  $\varnothing$  32x3;
  - TH for  $\varnothing$  40x3.5 - 50x4 e 63x4.5

Externally nickel-plated brass body  
Elastomer seals  
Stainless steel pipe clamping bush  
Dielectric pipe clamp cover in PE  
Max operating pressure 95°C  
Max operating pressure 10 Bar

Certifications:



Code	Size A	Size B	Pack	Outer	Cat.
851.20.10	20x2	16x2	10	80	10.02
851.26.10	26x3	16x2	5	60	10.02
851.26.20	26x3	20x2	5	60	10.02
851.32.10	32x3	16x2	5	40	10.02
851.32.00	32x3	20x2	5	40	10.02
851.32.20	32x3	26x3	5	40	10.02

Size A-B: Outside  $\varnothing$  x pipe thickness



### Series 851.B

#### Press fitting for multilayer pipe - T-shaped - reduced central way

- Multi-clamp fitting.  
Compatible with clamps series:
- TH, H, U, B, F for  $\varnothing$  16x2 - 18x2 and 20x2;
  - TH, H, B for  $\varnothing$  26x3;
  - TH, H for  $\varnothing$  32x3;
  - TH for  $\varnothing$  40x3.5 - 50x4 e 63x4.5

Externally nickel-plated brass body  
Elastomer seals  
Stainless steel pipe clamping bush  
Dielectric pipe clamp cover in PE  
Max operating pressure 95°C  
Max operating pressure 10 Bar

Certifications:



Code	Size A	Size B	Pack	Outer	Cat.
851.16.20	18x2	16x2	10	80	10.02
851.16.30	20x2	16x2	10	80	10.02
851.18.00	20x2	18x2	5	80	10.02
851.16.60	26x3	16x2	5	60	10.02
851.18.20	26x3	18x2	10	60	10.02
851.20.20	26x3	20x2	5	60	10.02
933.16.00	32x3	16x2	5	40	10.02
851.18.30	32x3	18x2	5	40	10.02
851.20.40	32x3	20x2	5	40	10.02
851.26.00	32x3	26x3	5	40	10.02
851.40.10	40x3,5	26x3	1	20	10.02
851.40.00	40x3,5	32x3	5	20	10.02
851.50.20	50x4	26x3	1	12	10.02
851.50.00	50x4	40x3,5	1	12	10.02
851.63.40	63x4,5	26x3	1	8	10.02
851.63.20	63x4,5	40x3,5	1	8	10.02

Size A-B: Outside  $\varnothing$  x pipe thickness



### Series 851.C

#### Press fitting for multilayer pipe - T-shaped - reduced central and lateral way

- Multi-clamp fitting.  
Compatible with clamps series:
- TH, H, U, B, F for  $\varnothing$  16x2 - 18x2 and 20x2;
  - TH, H, B for  $\varnothing$  26x3;
  - TH, H for  $\varnothing$  32x3;
  - TH for  $\varnothing$  40x3.5 - 50x4 e 63x4.5

Externally nickel-plated brass body  
Elastomer seals  
Stainless steel pipe clamping bush  
Dielectric pipe clamp cover in PE  
Max operating pressure 95°C  
Max operating pressure 10 Bar

Certifications:



Code	Size A	Size B	Pack	Outer	Cat.
851.16.40	18x2	16x2	10	80	10.02
851.16.10	20x2	16x2	10	80	10.02
851.18.10	20x2	18x2	5	80	10.02
851.16.90	26x3	16x2	5	60	10.02
851.20.70	26x3	20x2	5	60	10.02
851.20.90	32x3	20x2	5	40	10.02
851.26.40	32x3	26x3	5	40	10.02

Size A-B: Outside  $\varnothing$  x pipe thickness





### Series 851.D

#### Press fitting for multilayer pipe - T-shaped - reduced lateral ways.

- Multi-clamp fitting.
- Compatible with clamps series:
  - TH, H, U, B, F for  $\varnothing$  16x2 - 18x2 and 20x2;
  - TH, H, B for  $\varnothing$  26x3;
  - TH, H for  $\varnothing$  32x3;
  - TH for  $\varnothing$  40x3.5 - 50x4 e 63x4.5

Externally nickel-plated brass body  
Elastomer seals  
Stainless steel pipe clamping bush  
Dielectric pipe clamp cover in PE  
Max operating pressure 95°C  
Max operating pressure 10 Bar

Code	Size A	Size B	Pack	Outer	Cat.
851.18.40	18x2	16x2	5	80	10.02
851.20.00	20x2	16x2	10	80	10.02
851.26.50	26x3	20x2	5	60	10.02
851.32.30	32x3	26x3	5	40	10.02

Size A-B: Outside  $\varnothing$  x pipe thickness

Certifications:



### Series 999

#### Press fitting for multilayer pipe - T-shaped - different sized ways.

- Multi-clamp fitting.
- Compatible with clamps series:
  - TH, H, U, B, F for  $\varnothing$  16x2 - 18x2 and 20x2;
  - TH, H, B for  $\varnothing$  26x3;
  - TH, H for  $\varnothing$  32x3;
  - TH for  $\varnothing$  40x3.5 - 50x4 e 63x4.5

Externally nickel-plated brass body  
Elastomer seals  
Stainless steel pipe clamping bush  
Dielectric pipe clamp cover in PE  
Max operating pressure 95°C  
Max operating pressure 10 Bar

Code	Size A	Size B	Size C	Pack	Outer	Cat.
999.20.00	26x3	20x2	16x2	10	40	10.02

Size A-B-C: Outside  $\varnothing$  x pipe thickness

Certifications:



### Series 853.A

#### Press fitting for multilayer pipe - flanged elbow - standard length - F Gas connection

- Multi-clamp fitting.
- Compatible with clamps series:
  - TH, H, U, B, F for  $\varnothing$  16x2 - 18x2 and 20x2;
  - TH, H, B for  $\varnothing$  26x3;
  - TH, H for  $\varnothing$  32x3;
  - TH for  $\varnothing$  40x3.5 - 50x4 e 63x4.5

Externally nickel-plated brass body  
Elastomer seals  
Stainless steel pipe clamping bush  
Dielectric pipe clamp cover in PE  
Threaded connection F UNI-EN-ISO 228  
Max operating pressure 95°C  
Max operating pressure 10 Bar

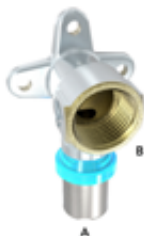
Code	Size A	Size B	Pack	Outer	Cat.
853.04.00	16x2	1/2" F	10	60	10.02
853.04.20	18x2	1/2" F	10	60	10.02
853.04.10	20x2	1/2" F	10	60	10.02

Size A: Outside  $\varnothing$  x pipe thickness



Fixing on specific Fixing Plate code 934.00.00

Certifications:



### Series 4149.A

#### Press fitting for multilayer pipe - flanged elbow - standard length - F Gas connection

- Multi-clamp fitting.
- Compatible with clamps series:
  - TH, H, U, B, F for  $\varnothing$  16x2 - 18x2 and 20x2;
  - TH, H, B for  $\varnothing$  26x3;
  - TH, H for  $\varnothing$  32x3;
  - TH for  $\varnothing$  40x3.5 - 50x4 e 63x4.5

Externally nickel-plated brass body  
Elastomer seals  
Stainless steel pipe clamping bush  
Dielectric pipe clamp cover in PE  
Threaded connection F UNI-EN-ISO 228  
Max operating pressure 95°C  
Max operating pressure 10 Bar

Code	Size A	Size B	Pack	Outer	Cat.
4149.04.00	16x2	1/2" F	10	60	10.02
4149.04.10	20x2	1/2" F	10	60	10.02
4149.05.10	20x2	3/4" F	10	100	10.02

Size A: Outside  $\varnothing$  x pipe thickness



Fixing on specific Fixing Plate code 934.00.00

Certifications:



**Series 4149.B****Press fitting for multilayer pipe - flanged elbow - XL 50 mm length - F Gas connection**

Multi-clamp fitting.  
Compatible with clamps series:

- TH, H, U, B, F for Ø 16x2 - 18x2 and 20x2;
- TH, H, B for Ø 26x3;
- TH, H for Ø 32x3;
- TH for Ø 40x3.5 - 50x4 e 63x4.5

Externally nickel-plated brass body  
Elastomer seals  
Stainless steel pipe clamping bush  
Dielectric pipe clamp cover in PE  
Threaded connection F UNI-EN-ISO 228  
Max operating pressure 95°C  
Max operating pressure 10 Bar

Code	Size A	Size B	Pack	Outer	Cat.
<b>4149.04.90</b>	16x2	1/2" F	5	40	10.02

Size A: Outside Ø x pipe thickness



Fixing on specific Fixing Plate code 934.00.00

Certifications:

**Series 853.B****Press fitting for multilayer pipe - flanged elbow - XL length 77 mm - F Gas connection**

Multi-clamp fitting.  
Compatible with clamps series:

- TH, H, U, B, F for Ø 16x2 - 18x2 and 20x2;
- TH, H, B for Ø 26x3;
- TH, H for Ø 32x3;
- TH for Ø 40x3.5 - 50x4 e 63x4.5

Externally nickel-plated brass body  
Elastomer seals  
Stainless steel pipe clamping bush  
Dielectric pipe clamp cover in PE  
Threaded connection F UNI-EN-ISO 228  
Max operating pressure 95°C  
Max operating pressure 10 Bar

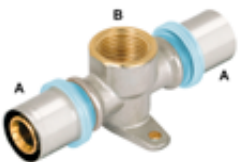
Code	Size A	Size B	Pack	Outer	Cat.
<b>853.04.90</b>	16x2	1/2" F	5	40	10.02

Size A: Outside Ø x pipe thickness



Fixing on specific Fixing Plate code 934.00.00

Certifications:

**Series 852****Press fitting for multilayer pipe - flanged - F gas connection**

Multi-clamp fitting.  
Compatible with clamps series:

- TH, H, U, B, F for Ø 16x2 - 18x2 and 20x2;
- TH, H, B for Ø 26x3;
- TH, H for Ø 32x3;
- TH for Ø 40x3.5 - 50x4 e 63x4.5

Externally nickel-plated brass body  
Elastomer seals  
Stainless steel pipe clamping bush  
Dielectric pipe clamp cover in PE  
Threaded connection F UNI-EN-ISO 228  
Max operating pressure 95°C  
Max operating pressure 10 Bar

Code	Size A	Size B	Pack	Outer	Cat.
<b>852.04.00</b>	16x2	1/2" F	10	60	10.02
<b>852.04.30</b>	20x2	1/2" F	5	60	10.02

Size A: Outside Ø x pipe thickness



Fixing on specific Fixing Plate code 934.00.00

Certifications:

**Series 934.A****Flanged fittings fixing plate.**

Galvanised steel material  
Flanged fitting application with prefixed centre distance of 80-100-120-150-160 mm  
Possibility of choosing bracket attachments at only centre distance 80 mm

Code	Pack	Outer	Cat.
<b>934.00.00</b>	1	6	10.02

**Series 934.B****Fixing and positioning bracket.**

Galvanised steel material  
Complete with fixing nut

Code	Pack	Outer	Cat.
<b>934.00.50</b>	1	6	10.02



Plate bracket code 934.00.00





### Series 1253

#### Brackets with press fitting for Tita-fix multilayer pipe.

Multi-clamp fitting.

Compatible with clamps series:

- TH, H, U, B, F for  $\varnothing$  16x2 - 18x2 and 20x2;
- TH, H, B for  $\varnothing$  26x3;
- TH, H for  $\varnothing$  32x3;
- TH for  $\varnothing$  40x3.5 - 50x4 e 63x4.5

Externally nickel-plated brass body

Elastomer seals

Stainless steel pipe clamping bush

Dielectric pipe clamp cover in PE

Threaded connection F UNI-EN-ISO 228

Galvanised steel bracket

Fittings applied at prefixed interest

Fittings free to rotate

Connection G 1/2" F

Certifications:



Code	Size A	Centre distance (mm)	Pack	Outer	Cat.
<b>1253.04.00</b>	16x2	80	5	20	10.02
<b>1253.04.20</b>	16x2	150	5	20	10.02
<b>1253.04.10</b>	16x2	160	5	20	10.02
<b>1253.04.60</b>	20x2	150	5	20	10.02
<b>1253.04.50</b>	20x2	160	5	20	10.02

Size A: Outside  $\varnothing$  x pipe thickness



### Series 3902

#### Press fitting for multilayer pipe - bent 90° - rotary flat seat

Multi-clamp fitting.

Compatible with clamps series:

- TH, H, U, B, F for  $\varnothing$  16x2 e 20x2;
- TH, H, B for  $\varnothing$  26x3;

Externally nickel-plated brass body

Elastomer seals

Stainless steel pipe clamping bush

Dielectric pipe clamp cover in PE

Angle threaded connection F UNI-EN-ISO 228

Max operating temperature 95 °C

Max operating pressure 10 Bar

Certifications:



Code	Size A	Size B	Pack	Outer	Cat.
<b>3902.16.20</b>	16x2	1/2" M	1	200	10.02
<b>3902.20.20</b>	20x2	1/2" M	1	160	10.02
<b>3902.16.30</b>	16x2	3/4" M	1	160	10.02
<b>3902.20.30</b>	20x2	3/4" M	1	160	10.02
<b>3902.26.30</b>	26x3	3/4" M	1	80	10.02
<b>3902.26.40</b>	26x3	1" M	-	-	10.02

Size A: Outside  $\varnothing$  x pipe thickness





### Series 20.A

#### Recessed shut-off cock with chrome-plated plug and press fittings for Tita-fix multilayer pipe.

Multi-clamp fitting.

Compatible with clamps series:

- TH, H, U, B, F for Ø 16x2 - 18x2 and 20x2;
- TH, H, B for Ø 26x3;
- TH, H for Ø 32x3;
- TH for Ø 40x3.5 - 50x4 e 63x4.5

Brass body

Chrome plated cap and manoeuvre knob

Elastomer seals

Press connections with dielectric cover in PE and

stainless steel pipe clamping bush

Max operating temperature 95 °C

Max operating pressure 10 Bar

Certifications:



Code	Size A	Size B	Pack	Outer	Cat.
<b>20.04.10</b>	16x2	1/2"	5	30	10.02
<b>20.05.10</b>	20x2	3/4"	3	30	10.02
<b>20.05.20*</b>	26x3	3/4"	3	30	10.02

\*Fitting supplied disassembled



30 mm extension for spacer fitting kit available. See spare parts pricelist. Product code 3516.00.02



### Series 20.B

#### Recessed shut-off cock with chrome-plated plug.

Brass body.

Chromed cap and manoeuvring knob.

Elastomer seals.

Threaded connections FF UNI-EN-ISO 228.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Certifications:



Code	Measure	Model	Pack	Outer	Cat.
<b>20.04.00</b>	1/2"	T	10	40	10.02
<b>20.05.00</b>	3/4"	T	5	40	10.02



30 mm extension for spacer fitting kit available. See spare parts pricelist. Product code 3516.00.02





### Series 1930

#### Compression fittings for multilayer straight - intermediate pipe

Nickel plated brass body and nut.  
Brass pipe clip ring nut.  
Elastomer gaskets.

- Max operating temperature 95 °C
- Max operating pressure 10 Bar

Certifications:



Code	Size A	Pack	Outer	Cat.
1930.16.02	16x2	10	180	10.02
1930.18.02	18x2	10	150	10.02
1930.20.02	20x2	10	120	10.02
1930.26.02	26x3	5	75	10.02
1930.32.02	32x3	5	35	10.02

Size A: Outside Ø x pipe thickness



Suitable for polyethylene and multilayer pipe.



### Series 1929

#### Compression fittings for straight multilayer pipe - female gas connection

Nickel plated brass body and nut.  
Brass pipe clip ring nut.  
Elastomer gaskets.

- Size A: Pipe outside diameter
- Size B: Thread UNI-EN-ISO 228.
- Max operating temperature 95 °C
- Max operating pressure 10 Bar

Certifications:



Code	Size A	Size B	Pack	Outer	Cat.
1929.16.02	16x2	1/2" F	10	250	10.02
1929.16.12	16x2	3/4" F	10	160	10.02
1929.18.02	18x2	1/2" F	10	160	10.02
1929.18.12	18x2	3/4" F	10	140	10.02
1929.20.02	20x2	1/2" F	10	150	10.02
1929.20.12	20x2	3/4" F	10	140	10.02
1929.26.12	26x3	3/4" F	5	70	10.02
1929.26.22	26x3	1" F	5	70	10.02
1929.32.22	32x3	1" F	5	50	10.02



Suitable for polyethylene and multilayer pipe.



### Series 1928

#### Compression fittings for straight multilayer pipe - male gas connection

Nickel plated brass body and nut.  
Brass pipe clip ring nut.  
Elastomer gaskets.

- Max operating temperature 95 °C
- Max operating pressure 10 Bar

Certifications:



Code	Size A	Size B	Pack	Outer	Cat.
1928.16.02	16x2	1/2" M	10	300	10.02
1928.16.12	16x2	3/4" M	10	160	10.02
1928.18.02	18x2	1/2" M	10	160	10.02
1928.18.12	18x2	3/4" M	10	160	10.02
1928.20.02	20x2	1/2" M	10	150	10.02
1928.20.12	20x2	3/4" M	10	150	10.02
1928.26.12	26x3	3/4" M	5	80	10.02
1928.26.22	26x3	1" M	5	80	10.02
1928.32.22	32x3	1" M	5	50	10.02

Size A: Outside Ø x pipe thickness

Size B: thread UNI-EN-ISO 228



Suitable for polyethylene and multilayer pipe.





### Series 1934

#### Compression fittings for angle - intermediate multilayer pipe

Nickel plated brass body and nut.  
Brass pipe clip ring nut.  
Elastomer gaskets.

- Max operating temperature 95 °C
- Max operating pressure 10 Bar

Certifications:



Code	Size A	Pack	Outer	Cat.
1934.16.02	16x2	10	160	10.02
1934.18.02	18x2	10	100	10.02
1934.20.02	20x2	10	100	10.02
1934.26.02	26x3	5	50	10.02
1934.32.02	32x3	5	25	10.02

Size A: Outside Ø x pipe thickness



Suitable for polyethylene and multilayer pipe.



### Series 1935

#### Compression fittings for angle multilayer pipe - female gas connection

Nickel plated brass body and nut.  
Brass pipe clip ring nut.  
Elastomer gaskets.

- Max operating temperature 95 °C
- Max operating pressure 10 Bar

Certifications:



Code	Size A	Size B	Pack	Outer	Cat.
1935.16.02	16x2	1/2" F	10	160	10.02
1935.16.12	16x2	3/4" F	10	120	10.02
1935.18.02	18x2	1/2" F	10	120	10.02
1935.18.12	18x2	3/4" F	10	100	10.02
1935.20.02	20x2	1/2" F	10	120	10.02
1935.20.12	20x2	3/4" F	10	100	10.02
1935.26.12	26x3	3/4" F	5	60	10.02
1935.26.22	26x3	1" F	5	50	10.02
1935.32.22	32x3	1" F	5	25	10.02

Size A: Outside Ø x pipe thickness

Size B: thread UNI-EN-ISO 228



Suitable for polyethylene and multilayer pipe.



### Series 1936

#### Compression fittings for angle multilayer pipe - male gas connection

Nickel plated brass body and nut.  
Brass pipe clip ring nut.  
Elastomer gaskets.

- Max operating temperature 95 °C
- Max operating pressure 10 Bar

Certifications:



Code	Size A	Size B	Pack	Outer	Cat.
1936.16.02	16x2	1/2" M	10	180	10.02
1936.16.12	16x2	3/4" M	10	120	10.02
1936.18.02	18x2	1/2" M	10	120	10.02
1936.18.12	18x2	3/4" M	10	120	10.02
1936.20.02	20x2	1/2" M	10	120	10.02
1936.20.12	20x2	3/4" M	10	120	10.02
1936.26.12	26x3	3/4" M	5	60	10.02
1936.26.22	26x3	1" M	5	60	10.02
1936.32.22	32x3	1" M	5	30	10.02

Size A: Outside Ø x pipe thickness

Size B: thread UNI-EN-ISO 228



Suitable for polyethylene and multilayer pipe.







### Series 1937

#### Compression fittings for flanged elbow multilayer pipe - female gas connection

Nickel plated brass body and nut.  
Brass pipe clip ring nut.  
Elastomer gaskets.

- Max operating temperature 95 °C
- Max operating pressure 10 Bar

Certifications:



Code	Size A	Size B	Pack	Outer	Cat.
1937.16.02	16x2	1/2" F	10	120	10.02
1937.18.02	18x2	1/2" F	10	100	10.02
1937.20.02	20x2	1/2" F	10	100	10.02

Size A: Outside  $\varnothing$  x pipe thickness  
Size B: thread UNI-EN-ISO 228



Suitable for polyethylene and multilayer pipe.



### Series 1931

#### Compression fittings for T-shaped intermediate multilayer pipe

Nickel plated brass body and nut.  
Brass pipe clip ring nut.  
Elastomer gaskets.

- Max operating temperature 95 °C
- Max operating pressure 10 Bar

Certifications:



Code	Size A	Pack	Outer	Cat.
1931.16.02	16x2	10	100	10.02
1931.18.02	18x2	10	80	10.02
1931.20.02	20x2	5	70	10.02
1931.26.02	26x3	3	30	10.02
1931.32.02	32x3	2	16	10.02

Size A: Outside  $\varnothing$  x pipe thickness



Suitable for polyethylene and multilayer pipe.



### Series 1932

#### Compression fittings for T-shaped multilayer pipe - central female gas connection

Nickel plated brass body and nut.  
Brass pipe clip ring nut.  
Elastomer gaskets.

- Max operating temperature 95 °C
- Max operating pressure 10 Bar

Certifications:



Code	Size A	Size B	Pack	Outer	Cat.
1932.16.02	16x2	1/2" F	10	100	10.02
1932.16.12	16x2	3/4" F	5	50	10.02
1932.18.02	18x2	1/2" F	10	80	10.02
1932.18.12	18x2	3/4" F	5	50	10.02
1932.20.02	20x2	1/2" F	5	60	10.02
1932.20.12	20x2	3/4" F	5	50	10.02
1932.26.12	26x3	3/4" F	3	30	10.02
1932.26.22	26x3	1" F	3	30	10.02
1932.32.22	32x3	1" F	2	18	10.02

Size A: Outside  $\varnothing$  x pipe thickness

Size B: thread UNI-EN-ISO 228



Suitable for polyethylene and multilayer pipe.





# 01. HYDROTHERMAL DISTRIBUTION

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## 11. EQUIPMENT AND TOOLS

### 11.01 EQUIPMENT AND TOOLS

132

- Equipment for compression valves and fittings
- Equipment for multi-layer system
- Equipment for radiant system

**Series 2878****Cap adjusting wrench.**

To adjust the kvs by simply acting on the external end of the control rod's thermostatic screw unit.

Code	Pack	Outer	Cat.
2878.00.00	10	10	11.01



To be used to adjust valves size 3/8" - 1/2" - 3/4". Not suitable to adjust 1" valves.

**Series 69****Spanner for fitting with Standard RBM thread.**

Square 1/2" connection, for combination or torque wrenches, to easily tighten fittings in any position.

Code	Measure	Pack	Outer	Cat.
69.00.00	Ch 28	2	26	11.01

**Series 246****Spanner for fitting with Euroconus thread.**

Square 1/2" connection, for combination or torque wrenches, to easily tighten fittings in any position.

Code	Measure	Pack	Outer	Cat.
246.00.00	CH30	2	26	11.01

**Series 2441****Fastening spanner for adapters.**

Code	Measure	Pack	Outer	Cat.
244.10.05	Ø 15 22 28	1	10	11.01



For use with fitting 178.XX.00

**Series 33****Mechanical extractor.**

Can be used to remove the cap unit from the thermostatic valve body, with the system running.

**Mechanical extractor**

Code	Pack	Outer	Cat.
33.00.00	1	1	11.01

**Gasket kit for mechanical extractor**

Code	Pack	Outer	Cat.
2740.00.00	1	1	11.01



Compatible with size RBM 3/8" - 1/2" - 3/4" thermostatic valves



**Series 553.A****Manual shears.**

Suitable for pipes in PE, PB, PP, PVC, PVDF.

Code	Model	For pipe Ø	Pack	Outer	Cat.
<b>553.00.42</b>	CS 6/35 RV	6 ÷ 35	1	1	11.01
<b>553.00.52</b>	CS 6/42 RV	6 ÷ 42	1	1	11.01

**Series 553.B****Manual pipe cutter.**

Suitable for multilayer, PVC and copper pipe.  
Complete with deburring tool.

Code	Model	For pipe Ø	Pack	Outer	Cat.
<b>553.00.62</b>	TG 67S	6 ÷ 67	1	1	11.01
<b>553.00.72</b>	TG 32	6 ÷ 32	1	1	11.01

**Series 2179****Manual shears.**

Suitable for a precise and quick cut.

Code	For pipe Ø	Pack	Outer	Cat.
<b>2179.00.02</b>	6÷26	1	1	11.01

**Series 1875****Manual pipe bender spring for multilayer pipe.**

Prevents crushing pipe during bending operation.

Code	Measure	Pack	Outer	Cat.
<b>1875.14.02</b>	Ø 14	1	1	11.01
<b>1875.16.02</b>	Ø 16	1	1	11.01
<b>1875.18.02</b>	Ø 18	1	1	11.01
<b>1875.20.02</b>	Ø 20	1	1	11.01
<b>1875.26.02</b>	Ø 26	1	1	11.01

Size: Pipe outside Ø



Its use is recommended to correctly perform bending.





### Series 553.C

#### Hydraulic pipe bending kit, for multilayer pipe.

Prevents crushing pipe during bending operation.

Supply includes:

Manual hydraulic pump;  
Shockproof containment and carrying case;  
Aluminium pipe bending templates suitable for pipes with outside diameter 14-16-18-20-26-32;  
Quick coupling aluminium counter templates.

Code	Pack	Outer	Cat.
553.00.32	1	1	11.01



Its use is recommended to correctly perform bending.



### Series 1165

#### Wireless screwdriver drill.

Set includes:

n°1 wireless drill;  
n°2 batteries, 14.4V 1.5 Ah;  
n°1 battery charger for screwdriver drill;  
n°1 case containing entire screwdriver drill set.

Code	Pack	Outer	Cat.
1165.00.02	1	1	11.01



### Series 2007

#### Knob for gauging-flaring tools.

Knob for manual use of flaring tool suitable for flaring RBM multilayer pipes.

Code	Pack	Outer	Cat.
2007.00.02	1	1	11.01



Tool suitable for calibrating/flaring pipes with a diameter up to 32x3. An RBM screwdriver drill with a screw drill bit is required to calibrate/flare larger diameters, code 1165.00.02



### Series 2006

#### Gauging-flaring tools for multilayer pipe.

Eliminates internal and external burrs and gauges the inside diameter of the pipe at the cutting zone. Prearranged for manual use with specific knob and for use with screwdriver drill.

Code	Size A	Pack	Outer	Cat.
2006.14.02	Ø 14x2	1	1	11.01
2006.16.02	Ø 16x2	1	1	11.01
2006.18.02	Ø 18x2	1	1	11.01
2006.20.02	Ø 20x2	1	1	11.01
2006.26.02	Ø 26x3	1	1	11.01
2006.32.02	Ø 32x3	1	1	11.01
2006.40.02	Ø 40x3.5	1	1	11.01
2006.50.02	Ø 50x4	1	1	11.01
2006.63.02	Ø 63x4.5	1	1	11.01

Size: Outside Ø x pipe thickness.





### Series 2008

#### Complete set of gauging-flaring tools for multilayer pipe.

Case containing gauging and flaring tools, sizes  $\varnothing$  16 - 20 - 26 - 32 with specific knob for manual tool used.

Code	For pipe $\varnothing$	Pack	Outer	Cat.
2008.00.02	$\varnothing$ 16 - 20 - 26 - 32	1	1	11.01



### Series 553.D

#### Electric press for press fittings.

Electric mains power supply.  
Supply complete with shockproof containment and carry case.

- Power supply 230VAC
- Weight in use 4.5Kg
- Dimensions 415x180x80 mm
- Clamps that can be coupled series TH

Certifications:



Code	Pack	Outer	Cat.
553.00.12	1	1	11.01



### Series 553.E

#### Wireless press for press fitting.

Rechargeable battery power supply.  
Supply complete with shockproof containment and carry case.

- Battery 18V 4Ah
- Weight in use 3.6Kg
- Dimensions 445x125x75 mm
- Clamps that can be coupled series TH

Certifications:



#### Portable wireless press

Code	Pack	Outer	Cat.
553.00.02	1	1	11.01

#### Spare battery

Code	Pack	Outer	Cat.
1495.00.02	1	1	11.01



### Series 681

#### Series TH clamps for press fittings

Suitable for RBM press code 553.00.X2

Code	Measure	Pack	Outer	Cat.
681.14.02	$\varnothing$ 14	1	1	11.01
681.16.02	$\varnothing$ 16	1	1	11.01
681.18.02	$\varnothing$ 18	1	1	11.01
681.20.02	$\varnothing$ 20	1	1	11.01
681.26.02	$\varnothing$ 26	1	1	11.01
681.32.02	$\varnothing$ 32	1	1	11.01
681.40.02	$\varnothing$ 40	1	1	11.01
681.50.02	$\varnothing$ 50	1	1	11.01
681.63.02	$\varnothing$ 63	1	1	11.01

Size: Pipe outside  $\varnothing$ .





### Series 1338

#### Wireless press for press fitting.

Rechargeable battery power supply.  
Supplied complete with battery charger kit and shockproof containment and carrying case.

- Battery 18V 2Ah
- Weight in use 2.5Kg
- Dimensions 336x143x76 mm

Certifications:



#### Portable wireless press

Code	Pack	Outer	Cat.
<b>1338.00.02</b>	1	1	11.01

#### Spare battery

Code	Pack	Outer	Cat.
<b>1496.00.02</b>	1	1	11.01



Compact



### Series 1339

#### Clamp and interchangeable inserts for press fittings.

Suitable for RBM press code 1338.00.02

Code	Measure	Pack	Outer	Cat.
<b>1339.00.02</b>	clamp	1	1	11.01
<b>1340.14.02</b>	Ø 14	1	1	11.01
<b>1340.16.02</b>	Ø 16	1	1	11.01
<b>1340.18.02</b>	Ø 18	1	1	11.01
<b>1340.20.02</b>	Ø 20	1	1	11.01
<b>1340.26.02</b>	Ø 26	1	1	11.01
<b>1340.32.02</b>	Ø 32	1	1	11.01

Size: Pipe outside Ø.



**Series 469****Fastener clip tool.**

Easy to use tool for quick installation of the pipe fastener clip, code 468.45.00, 468.39.02, 1947.57.02 and 2003.42.02.

Code	Pack	Outer	Cat.
469.00.02	1	1	11.01



Accessory to be used on the Kilma-Graf radiant system.

**Series 667****Universal unwinder for pipe coils, made of galvanised box-section steel.****Easy and quick to assemble.**

The coil, once resting on the scrolling surface, is unwound easily thanks to the ball bearing.

Code	Pack	Outer	Cat.
667.00.00	1	1	11.01



# RBM

## 02. ENERGY EFFICIENCY

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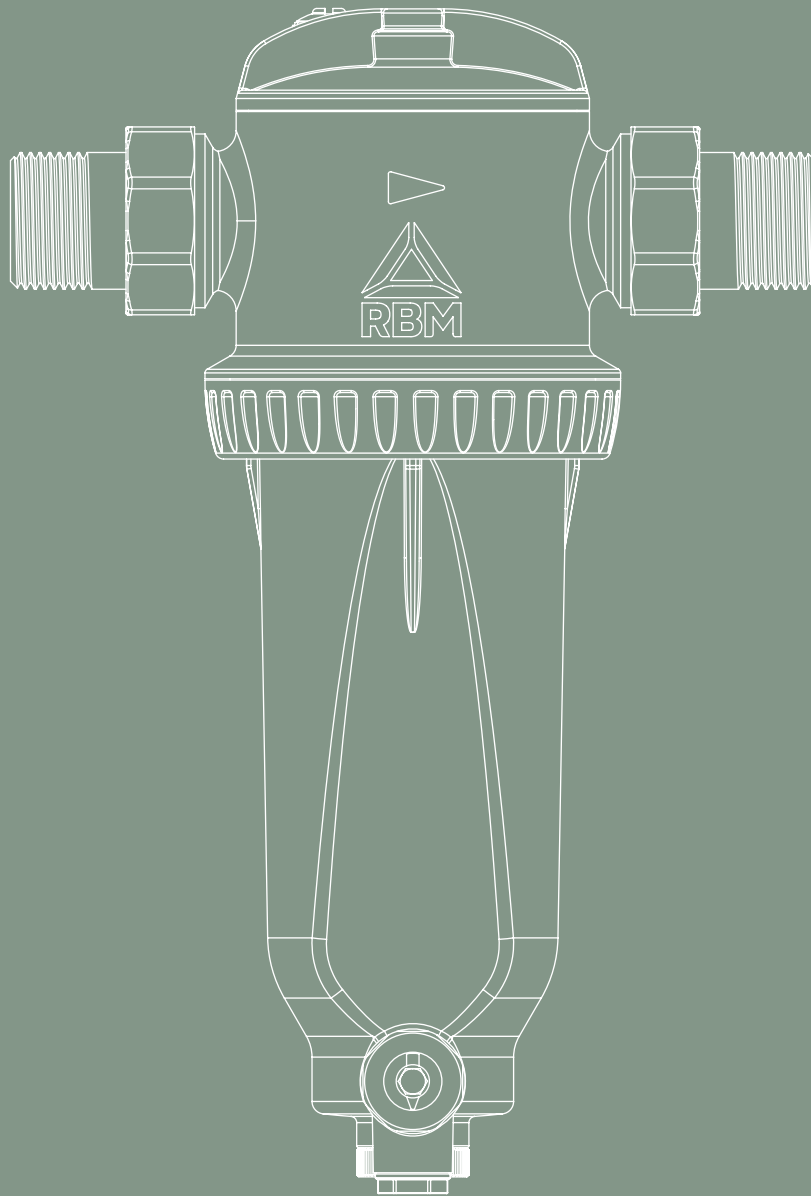
GROUP		CATEGORY		LINE	
20. Water treatment	141	20.02 Physical treatment	142	Cartridge filters	144
				Air relief valves	148
				Deaerators	156
				Sludge remover filters	160
				Sludge remover/deareator filters	161
		20.03 Magnetic treatment	163	Compact magnetic sludge remover filters for boilers	166
				Magnetic sludge remover filters for heat pumps	172
				Magnetic sludge remover filters	176
				Magnetic sludge remover/deareator filters	184
				Magnetic sludge remover filters for boiler rooms	186
				Magnetic anti-scale device	190
		20.04 Chemical treatment	193	Condensation neutraliser filter	194
				Domestic polyphosphate dosers	196
				Chemical conditioners for air-conditioning circuits	198



GROUP		CATEGORY		LINE	
<b>21.</b> Valves for radiator and terminal control	203	21.01 Valves for radiator and terminal control	204	Thermostatic controls	205
				Electronic programmable thermostats	207
				Wireless programmable thermostats	208
				Valves with thermostatic option	211
				PICV valves with thermostatic option	221
				Accessories	223
				Manual valves	225
				Lockshield regulating valves	231
<b>22.</b> Hydraulic balancing	235	22.01 Hydraulic balancing	236	Balancing lockshield valves	236
				Flow-rate measuring stub pipe	237
				Flow control valves	238
				PICV independent pressure adjustment valves	240
				Tools and accessories	242

02.  
ENERGY  
EFFICIENCY

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## **20. WATER TREATMENT**

### **20.02 PHYSICAL TREATMENT**

142

Cartridge filters  
Air relief valves  
Deaerators  
Sludge remover filters  
Sludge remover/deaerator filters

### **20.03 MAGNETIC TREATMENT**

163

Compact magnetic sludge remover filters for boilers  
Magnetic sludge remover filters for heat pumps  
Magnetic sludge remover filters  
Magnetic sludge remover/deaerator filters  
Magnetic sludge remover filters for boiler rooms  
Magnetic anti-scale device  
Magnetic dirt separator filters kit

### **20.04 CHEMICAL TREATMENT**

193

Condensation neutraliser filter  
Domestic polyphosphate dosers  
Chemical conditioners for air-conditioning circuits

**02.  
ENERGY  
EFFICIENCY**

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**20. WATER TREATMENT**

**20.02 PHYSICAL TREATMENT**

143

- Cartridge filters
- Air relief valves
- Deaerators
- Sludge remover filters
- Sludge remover/deareator filters

# H2O LAB

## water treatment



### WATER TREATMENT: THE EFFICIENCY CHALLENGE

**H2O Lab** is RBM's range of products dedicated to **water treatment in hydrothermal plants**.

A complete range of **physical, magnetic or chemical solutions**, all designed by **RBM's Research and Development department** to preserve the effectiveness and efficiency of the systems over a long period of time, while fully respecting the characteristics of the individual system and the needs of its users.

From filters and magnetic sludge remover filters to air vent valves and de-aerators, polyphosphate dispensers, cleaning products and protectors for heating and cooling systems, the products in the H2O Lab range can be used individually or in combination to achieve the most effective solution for cleaning and removing impurities in the heating system.

#### **Physical treatment**

RBM's H2O Lab product range dedicated to physical water treatment includes vent valves to remove air and gas bubbles from the system, automatic vent valves, deaerators, cartridge filters and traditional sludge remover filters.

#### **Chemical treatment**

Designed to ensure effective cleaning and prolonged protection, the chemical water treatment products in RBM's H2O Lab range meet the needs of any domestic installation, whether new or being upgraded.

#### **Magnetic treatment**

Developed from RBM's specialised research in the field of magnetic filtration, the magnetic water treatment products in the H2O Lab range provide effective and continuous protection on the boiler, limiting the circulation of particles that risk damaging the system.



### Series 3

#### Line filter with removable filtering cartridge, FF connection. Suitable for water.

Nickel brass body.  
Stainless steel AISI 304 stretched mesh filter.  
Elastomer seals.  
Threaded connections FF UNI-EN-ISO 228.

- Max operating pressure 16 Bar
- Max operating temperature 100 °C
- Filtering grade: 50-100-300-800 µm

Certifications:



#### Line filter 800 µm ff connection

Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Outer	Cat.
<b>3.03.00</b>	G 3/8"	2,60	10	40	20.02
<b>3.04.00</b>	G 1/2"	3,40	10	40	20.02
<b>3.05.00</b>	G 3/4"	5,00	6	24	20.02
<b>3.06.00</b>	G 1"	8,70	6	24	20.02
<b>3.07.00</b>	G 1"1/4	14,10	4	4	20.02
<b>3.08.00</b>	G 1"1/2	26,50	2	2	20.02
<b>3.09.00</b>	G 2"	26,50	2	2	20.02
<b>3.10.00</b>	G 2"1/2	104,70	1	1	20.02
<b>3.11.00</b>	G 3"	108,20	1	1	20.02
<b>3.13.00</b>	G 4"	111,80	1	1	20.02

#### Line filter 300 µm ff connection

Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Outer	Cat.
<b>3.03.10</b>	G 3/8"	2,00	10	40	20.02
<b>3.04.10</b>	G 1/2"	3,30	10	40	20.02
<b>3.05.10</b>	G 3/4"	4,90	6	24	20.02
<b>3.06.10</b>	G 1"	8,40	6	24	20.02
<b>3.07.10</b>	G 1"1/4	13,70	4	4	20.02
<b>3.08.10</b>	G 1"1/2	24,40	2	2	20.02
<b>3.09.10</b>	G 2"	24,40	2	2	20.02
<b>3.10.10</b>	G 2"1/2	100,10	1	1	20.02
<b>3.11.10</b>	G 3"	101,70	1	1	20.02
<b>3.13.10</b>	G 4"	108,00	1	1	20.02

#### Line filter 100 µm ff connection

Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Outer	Cat.
<b>3.03.70</b>	G 3/8"	2,00	10	40	20.02
<b>3.04.70</b>	G 1/2"	3,30	10	100	20.02
<b>3.05.70</b>	G 3/4"	4,90	6	24	20.02
<b>3.06.70</b>	G 1"	8,20	6	24	20.02
<b>3.07.70</b>	G 1"1/4	13,40	4	4	20.02
<b>3.08.70</b>	G 1"1/2	23,60	2	2	20.02
<b>3.09.70</b>	G 2"	23,60	2	2	20.02

#### Line filter 50 µm ff connection

Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Outer	Cat.
<b>3.03.20</b>	G 3/8"	1,60	10	40	20.02
<b>3.04.20</b>	G 1/2"	1,90	10	40	20.02
<b>3.05.20</b>	G 3/4"	3,50	6	24	20.02
<b>3.06.20</b>	G 1"	4,30	6	24	20.02
<b>3.07.20</b>	G 1"1/4	6,60	4	4	20.02
<b>3.08.20</b>	G 1"1/2	11,20	2	2	20.02
<b>3.09.20</b>	G 2"	11,20	2	2	20.02
<b>3.10.20</b>	G 2"1/2	-	1	1	20.02
<b>3.11.20</b>	G 3"	-	1	1	20.02
<b>3.13.20</b>	G 4"	-	1	1	20.02



Replaceable filtering cartridge.  
See BU Service.





### Series 4

**Line filter with removable filtering cartridge, MF connection. Suitable for water.**

Nickel brass body.  
Stainless steel AISI 304 stretched mesh filter.  
Elastomer seals.  
Threaded connections MF UNI-EN-ISO 228.

- Max operating pressure 16 Bar
- Max operating temperature 100 °C
- Filtering grade: 50-100-300-800 µm

Certifications:



#### Line filter 800 µm mf connection

Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Outer	Cat.
4.04.00	G 1/2"	3,40	10	40	20.02
4.05.00	G 3/4"	5,00	6	24	20.02
4.06.00	G 1"	8,70	6	24	20.02
4.07.00	G 1"1/4	14,10	4	4	20.02
4.08.00	G 1"1/2	26,50	2	2	20.02
4.09.00	G 2"	26,50	2	2	20.02

#### Line filter 300 µm mf connection

Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Outer	Cat.
4.04.10	G 1/2"	3,30	10	40	20.02
4.05.10	G 3/4"	4,90	6	24	20.02
4.06.10	G 1"	8,40	6	24	20.02
4.07.10	G 1"1/4	13,70	4	4	20.02
4.08.10	G 1"1/2	24,40	2	2	20.02
4.09.10	G 2"	24,40	2	2	20.02

#### Line filter 100 µm mf connection

Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Outer	Cat.
4.04.70	G 1/2"	3,30	10	40	20.02
4.05.70	G 3/4"	4,90	6	24	20.02
4.06.70	G 1"	8,20	6	24	20.02
4.07.70	G 1"1/4	13,40	4	4	20.02
4.08.70	G 1"1/2	23,60	2	2	20.02
4.09.70	G 2"	23,60	2	2	20.02

#### Line filter 50 µm mf connection

Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Outer	Cat.
4.04.20	G 1/2"	1,90	10	40	20.02
4.05.20	G 3/4"	3,50	6	24	20.02
4.06.20	G 1"	4,30	6	24	20.02
4.07.20	G 1"1/4	6,60	4	4	20.02
4.08.20	G 1"1/2	11,20	2	2	20.02
4.09.20	G 2"	11,20	2	2	20.02



Replaceable filtering cartridge.  
See BU Service.





### Series 858

#### Y-shaped purifying filter with removable filtering cartridge. Suitable for water.

Brass body and cap.  
Fibre sealing gaskets.  
Stainless steel AISI 304 stretched mesh filter.  
Elastomer seals.  
Threaded connections FF UNI-EN-ISO 228.

- Max operating pressure 16 Bar
- Max operating temperature 100 °C
- Filtering grade: 100-300-800 µm

Certifications:



#### Y-strainer 800 µm

Code	Measure	Kv (m³/h)	Pack	Outer	Cat.
<b>858.04.12</b>	G 1/2"	3,69	20	80	20.02
<b>858.05.12</b>	G 3/4"	6,57	12	48	20.02
<b>858.06.12</b>	G 1"	9,23	8	32	20.02
<b>858.07.12</b>	G 1"1/4	15,60	3	12	20.02
<b>858.08.12</b>	G 1"1/2	25,10	2	2	20.02
<b>858.09.12</b>	G 2"	38,80	1	1	20.02

#### Y-strainer 300 µm

Code	Measure	Kv (m³/h)	Pack	Outer	Cat.
<b>858.04.02</b>	G 1/2"	3,00	20	80	20.02
<b>858.05.02</b>	G 3/4"	6,53	12	48	20.02
<b>858.06.02</b>	G 1"	8,79	8	32	20.02
<b>858.07.02</b>	G 1"1/4	14,15	3	12	20.02
<b>858.08.02</b>	G 1"1/2	23,80	2	2	20.02
<b>858.09.02</b>	G 2"	36,20	1	1	20.02

#### Y-strainer 100 µm

Code	Measure	Kv (m³/h)	Pack	Outer	Cat.
<b>858.04.72</b>	G 1/2"	2,57	20	80	20.02
<b>858.05.72</b>	G 3/4"	5,74	12	48	20.02
<b>858.06.72</b>	G 1"	5,84	8	32	20.02
<b>858.07.72</b>	G 1"1/4	10,80	3	12	20.02
<b>858.08.72</b>	G 1"1/2	16,80	2	2	20.02
<b>858.09.72</b>	G 2"	28,20	1	1	20.02



Replaceable filtering cartridge.  
See BU Service.



### Series 126

#### Water 100 µm self-cleaning filter with removable filtering cartridge. Complete with dial pressure gauge and discharge ball cock with hose connection.

Nickel brass body.  
Stainless steel AISI 304 stretched mesh filter.  
Elastomer seals.  
Threaded connections FF UNI-EN-ISO 228.

- Max operating pressure 16 Bar
- Max operating temperature 100 °C
- Pressure gauge scale 0 ÷ 16 bar
- Standard filtering 100 µm

Certifications:



Code	Measure	Kv (m³/h)	Pack	Outer	Cat.
<b>126.03.10</b>	G 3/8"	1,80	1	10	20.02
<b>126.04.10</b>	G 1/2"	3,10	1	10	20.02
<b>126.05.10</b>	G 3/4"	5,80	1	10	20.02
<b>126.06.10</b>	G 1"	8,55	1	10	20.02
<b>126.07.10</b>	G 1"1/4	14,85	1	1	20.02
<b>126.08.10</b>	G 1"1/2	24,40	1	6	20.02
<b>126.09.10</b>	G 2"	26,10	1	6	20.02
<b>126.10.10</b>	G 2"1/2	107,80	1	1	20.02
<b>126.11.10</b>	G 3"	120,20	1	1	20.02
<b>126.13.10</b>	G 4"	129,00	1	1	20.02



Replaceable filtering cartridge.  
See BU Service.





## SELF-CLEANING FILTER

With extractable cartridge (filtration level: 100-300-800 micron) complete with pressure gauge and ball-valve with hose connection

**RBM self-cleaning filter** solve system problems caused by particles in suspension pollution. RBM product range is suitable for small, medium and big water systems. The specific structure of the filter allows impurities collect on the bottom of the filter seat making the maintenance easier.

**Cartridge can be cleaned opening the discharge ball valve with hose connection and leave the water pass through it.**

### INSTALLATION

Correct installation of the filter is in **horizontal position, with filter seat pointed to the bottom**. For a correct assembly please be careful to the arrow (representing water flowing direction) on the body of the ball valve.



- 1 Pressure gauge  
pressure 0-16 bar
- 2 O-Ring in PTFE
- 3 O-Ring
- 4 Body and cap made of nicked brass
- 5 Extractable stainless steel cartridge  
(100-300-800 micron)
- 6 Discharge ball valve

SELF-CLEANING: Easy and effective clean of the cartridge opening the discharge ball valve

Resistance to high pressure due to reinforced cartridge (PN 16)



### MAINTENANCE

Passing through the meshes of the cartridge, water get cleaned and the impurities are collected on the bottom of the filter seat (\*). Periodically the filter must be cleaned.

#### Operation for the replace of the filtering cartridge

- Place the container under the filter.
- Close ball valves 1 and 2.
- Unscrew filter house-cap (in the case of high temperature system, be cautious and use right protections to avoid direct contact with fluid).
- Extract the cartridge and shortly open the ball-valve. Brush it under the water; in the case of damage replace it.
- Put the cleaned cartridge inside the seat.
- Close the cap.
- Open the ball-valves.

#### Operation for the cleaning of the filtering cartridge

Cartridge can be cleaned opening the discharge with hose connection and leave the water pass through it.



**WARNING:** During this operation ball valves 1 and 2 must be opened.

# H2O LAB

water treatment

## SMALL SIZE AUTOMATIC AIR VENT VALVES

RBM manufactures automatic air vent valves with float operation. Also called wild card valves, these devices have the function of removing air and gases from air conditioning systems, so they **must be installed in all areas** of the system where bubble formation is expected.



### Miniluft CP Series 791

Max. discharge pressure 4 Bar  
Size:  
G 3/8" - G 1/2"



### Miniluft Compact Series 2827.A

Max. discharge pressure 4 Bar  
Size:  
G 3/8" - G 1/2"



### Miniluft Compact Series 2827.B

Max. discharge pressure 4 Bar  
Size:  
G 3/8" - G 1/2"



### Miniluft Series 2828

Max. discharge pressure 6 Bar  
Size:  
G 3/8" - G 1/2"



### Miniluft HP Series 3574

Max. discharge pressure 8 Bar  
Size:  
G 3/8" - G 1/2" - G 3/4"





**Vasa**  
**Series 37.A**  
 Max. discharge pressure 6 Bar  
 Size:  
 G 3/8" - G 1/2" - G 3/4" - G 1"



**VasaTre**  
**Series 216**  
 Max. discharge pressure 6 Bar  
 Size:  
 G 3/4" - G 1" - G 1 1/4"



**Megaluft**  
**Series 2840**  
 Max. discharge pressure 5 Bar  
 Size:  
 G 3/8" - G 1/2"



**Megaluft HP**  
**Series 2836**  
 Max. discharge pressure 6 Bar  
 Size:  
 G 1/2"



**VasaSette**  
**Series 37.B**  
 Max. discharge pressure 6 Bar  
 Size:  
 G 3/4"



**Valvolina manuale di spurgo  
 e sfogo aria**  
**Series 18**  
 Max. discharge pressure 10 Bar  
 Size:  
 G 1/8" - G 1/4" - G 3/8" - G 1/2"





### Series 38

**Check valve for the automatic shut-off of air vent valves, models Vasa, Miniluft and Megaluft.**

Brass body.  
Elastomer seals.  
Threaded connections MF UNI-EN-ISO 228.

- Max operating pressure 6 Bar (without air venting valve)
- Max operating temperature 100 °C

#### Check valve

Code	Size A	Size B	Pack	Outer	Cat.
<b>38.04.10</b>	G 1/2" F	G 1/2" M	10	500	20.02

#### Check valve with pre-treated threading

Code	Size A	Size B	Pack	Outer	Cat.
<b>3829.03.70</b>	G 3/8" F	G 3/8" M	10	800	20.02
<b>3829.04.70</b>	G 3/8" F	G 1/2" M	10	600	20.02
<b>38.04.50</b>	G 1/2" F	G 1/2" M	10	500	20.02



### Series 791

#### Miniluft CP

**Compact automatic air vent valve for small and medium circuits, complete with manual locking pawl and check valve for automatic shut-off. Float operation.**

Polymer body. Polymer cap unit.  
Float in PP.  
Stainless steel AISI 302 spring.  
Elastomer seals.  
Threaded connection M UNI-EN-ISO 228.

- Max operating pressure 6 Bar
- Max nominal pressure tolerable 10 Bar
- Max operating discharge pressure 4 Bar
- Max operating temperature 100 °C
- Allowed fluid water and water+glycol 30 %

Features:



Code	Measure	Model	Pack	Outer	Cat.
<b>791.03.40</b>	G 3/8"	Miniluft CP	1	50	20.02
<b>791.04.40</b>	G 1/2"	Miniluft CP	1	50	20.02



### Series 2827.A

#### Miniluft Compact

**Compact automatic air vent valve for smaller systems, complete with manual locking pawl. Lateral discharge. Float operation.**

Brass body. Polymer cap unit.  
Float in PP.  
Stainless steel AISI 302 spring.  
Elastomer seals.  
Polymer air pocket breaker  
Threaded connection M UNI-EN-ISO 228.

- Max operating pressure 10 Bar
- Max operating discharge pressure 4 Bar
- Max operating temperature 115 °C
- Allowed fluid water and water+glycol 30 %

Features:



Code	Measure	Model	Pack	Outer	Cat.
<b>2827.03.10*</b>	G 3/8"	Miniluft Compact	1	10	20.02
<b>2827.04.00</b>	G 1/2"	Miniluft Compact	1	50	20.02

\*Valve fitted with air pocket breaker



Compact!





### Series 2827.B

**Miniluft Compact**  
**Chrome-plated compact automatic air vent valve for smaller systems, complete with manual locking pawl. Lateral discharge. Float operation.**

Chrome brass body and cap.  
 Float in PP.  
 Stainless steel AISI 302 spring.  
 Elastomer seals.  
 Threaded connection M UNI-EN-ISO 228.

- Max operating pressure 10 Bar
- Max operating discharge pressure 4 Bar
- Max operating temperature 115 °C
- Allowed fluid water and water+glycol 30 %

Features:



Code	Measure	Model	Pack	Outer	Cat.
2827.03.90	G 3/8"	Miniluft Compact	1	50	20.02
2827.04.90	G 1/2"	Miniluft Compact	1	50	20.02



Compact!



### Series 2828

**Miniluft**  
**Compact automatic air vent valve for smaller systems, complete with manual locking pawl. Vertical discharge. Float operation.**

Brass body. Polymer cap unit.  
 Float in PP.  
 Stainless steel AISI 302 spring.  
 Elastomer seals.  
 Polymer air pocket breaker  
 Threaded connection M UNI-EN-ISO 228.

- Max operating pressure 10 Bar
- Max operating discharge pressure 6 Bar
- Max operating temperature 115 °C
- Allowed fluid water and water+glycol 30 %

Certifications:



WRAS certificate only for code 2828.04.00

Features:



Code	Measure	Model	Pack	Outer	Cat.
2828.03.10*	G 3/8"	Miniluft	1	50	20.02
2828.04.00	G 1/2"	Miniluft	1	50	20.02

\*Valve fitted with air pocket breaker



Vertical discharge.



### Series 3574

**Miniluft HP**  
**Automatic high-performance air vent valve with manual locking pawl. Vertical discharge. Float operation.**

Brass bottom and cap.  
 Float in PP.  
 Stainless steel AISI 302 spring.  
 Elastomer seals.  
 Threaded connection M UNI-EN-ISO 228.

- Max operating pressure 10 Bar
- Max operating discharge pressure 8 Bar
- Max operating temperature 115 °C
- Allowed fluid water and water+glycol 30 %

Features:



Code	Measure	Model	Pack	Outer	Cat.
3574.03.00	G 3/8"	Miniluft HP	1	50	20.02
3574.04.00	G 1/2"	Miniluft HP	1	50	20.02
3574.05.00	G 3/4"	Miniluft HP	1	50	20.02



Compact! – high performance





## MINILUFT COMPACT & MINILUFT

### Automatic compact air vent valves

RBM Miniluft valves are automatic, float-operated air vent valves designed to remove air and gases from heating or cooling systems.

Their small size makes them ideal for applications on manifolds or distribution kits housed in containment boxes.

Despite their small size, they are very effective in removing air during both loading and emptying, helping keep the various areas of the system where they are installed free of air.

With their high functional guarantee, these automatic air vent valves must be considered a system safety device.

Ensures system efficiency

Limited overall dimensions

Automatic air venting



MAXIMUM DISCHARGE PRESSURE 4 bar

MAXIMUM DISCHARGE PRESSURE 4 bar

MAXIMUM DISCHARGE PRESSURE 6 bar

MINILUFT COMPACT  
Lateral discharge

MINILUFT COMPACT  
CHROME  
Lateral discharge

MINILUFT  
Vertical discharge

1 Closure cap

2 Spring

3 Gas ejection device

The ejection of gases (such as oxygen, hydrogen, carbon dioxide) prevents the latter, if retained, from forming corrosive acid solutions or activating galvanic drilling processes in the presence of stray currents. The gas ejection device can be closed by completely screwing the cap.

4 Camera pressostatica di accumulo aria

La camera pressostatica è concepita per impedire il contatto tra le impurità presenti sul pelo libero del fluido e il dispositivo di tenuta, soprattutto all'avvio della pompa di circolazione.

5 Float

Technopolymer float, fitted inside the body in such a way that its functionality cannot be influenced by external movements, including rotation and vibration.

6 Air pocket breaker

(only available in size 3/8")

Prevents the formation of air pockets in the system that could block the drain flow. If combined with Series 38 check valve, remove the air pocket breaker from the valve.

Structure completely made of brass.

### OPERATING PRINCIPLE

The accumulation of air bubbles in the upper part of the valve body (air accumulation pressostatic chamber) causes the float descent and, consequently, the gas ejection device opening.

For the valve to properly operate, make sure that the water pressure remains lower than the maximum discharge pressure value (**4 bar for the model Miniluft Compact - 6 bar for the model Miniluft**).



Valve position **CLOSED**



Valve position **OPEN**



## MINILUFT HP

High performance compact automatic air venting valve

**RBM Miniluft HP** valves are automatic, float-operated air vent valves designed to remove air and gases from heating or cooling systems. They are ideal for application on vertical or horizontal columns, on manifolds or boilers, and can be installed in every zone of the system where bubbles may develop.

Featuring a small size and high performance (they have a wider pressostatic chamber compared to Miniluft valves), they are very effective in removing air both during filling and emptying, helping you keep the areas on the system where they are installed free from air. With their high functional guarantee, these automatic air vent valves must be considered a system safety device.



MAXIMUM DISCHARGE PRESSURE 8 bar



Ensures system efficiency

Limited overall dimensions

High performance

Automatic air venting

1 Closure cap

2 Spring

3 Gas ejection device

The ejection of gases (such as oxygen, hydrogen, carbon dioxide) prevents the latter, if retained, from forming corrosive acid solutions or activating galvanic drilling processes in the presence of stray currents. The gas ejection device can be closed by completely screwing the cap.

4 Air accumulation pressostatic chamber

The pressostatic chamber is designed to prevent contact between the impurities present on the fluid free surface and the sealing device, especially when the circulation pump is started.

5 Float

Technopolymer float, fitted inside the body in such a way that its functionality cannot be influenced by external movements, including rotation and vibration.

Structure completely made of brass

## OPERATING PRINCIPLE

The accumulation of air bubbles in the upper part of the valve body (air accumulation pressostatic chamber) causes the float descent and, consequently, the gas ejection device opening.

For the valve to properly operate, make sure that the water pressure remains lower than the maximum discharge pressure value.



Valve position CLOSED



Valve position OPEN





### Series 37.A

#### Vasa Automatic air vent valve, degasser. Float operation.

Nickel brass body.  
Float and lever in PP.  
Stainless steel AISI 302 spring.  
Elastomer seals.  
Threaded connection M UNI-EN-ISO 228.

- Max operating pressure 6 Bar
- Max operating discharge pressure 2.5 Bar
- Max operating temperature 100 °C
- Allowed fluid water and water+glycol 30 %

Certifications:



Features:



Code	Measure	Model	Pack	Outer	Cat.
37.03.60	G 3/8"	Vasa	10	40	20.02
37.04.60	G 1/2"	Vasa	10	40	20.02
37.05.60	G 3/4"	Vasa	10	40	20.02
37.06.60	G 1"	Vasa	10	40	20.02

*Notes: To be installed on circuits with positive pumping pressures.  
For circuits with negative pumping pressures, always provide for component manual shut-off by interposing a suitable ball valve.*



Replaceable float unit.  
Cod. 891.00.00 See spare parts pricelist.



### Series 216

#### VasaTre Automatic air vent valve, degasser, complete with built-in drain valve and Gardena quick connector, pressure gauge connection. Float operation.

Nickel brass body.  
Float and lever in PP.  
Elastomer seals.  
Threaded angle connection M UNI-EN-ISO 228.  
Pressure gauge connection F G1/4.

- Max operating pressure 6 Bar
- Max operating temperature 100 °C
- Allowed fluid water and water+glycol 30 %

Features:



Code	Measure	Model	Pack	Outer	Cat.
216.05.60	G 3/4"	VasaTre	3	12	20.02
216.06.60	G 1"	VasaTre	3	12	20.02
216.07.60	G 1"1/4	VasaTre	3	3	20.02

*Notes: To be installed on circuits with positive pumping pressures.  
Assembly on horizontally developed manifolds and pipes.*



Replaceable float unit.  
Cod. 891.00.00



### Series 2840

#### Megaluft High-capacity automatic air vent valve, degasser. Float operation.

Brass body.  
Float and lever in PP.  
Stainless steel AISI 302 spring.  
Elastomer seals.  
Threaded connection M UNI-EN-ISO 228.

- Max operating pressure 10 Bar
- Max operating discharge pressure 5 Bar
- Max operating temperature 115 °C
- Allowed fluid water and water+glycol 30 %

Features:



Code	Measure	Model	Pack	Outer	Cat.
2840.03.00	G 3/8"	Megaluft	1	50	20.02
2840.04.00	G 1/2"	Megaluft	1	50	20.02







### Series 18

#### Manual air purge and venting valve.

Nickel brass body.  
Heat resistant control knob.  
Threaded connection M UNI-EN-ISO 228 with pre-gasket ring in PTFE.

- Max operating pressure 10 Bar
- Max operating temperature 90 °C

Code	Measure	Pack	Outer	Cat.
<b>18.01.00</b>	1/8"	11	200	20.02
<b>18.02.00</b>	1/4"	12	200	20.02
<b>18.03.00</b>	3/8"	13	200	20.02
<b>18.04.00</b>	1/2"	14	200	20.02





### Series 2836

#### Megaluft HP Deaerator with high discharge capacity. Float operation.

Brass body.  
Float and lever in PP.  
Stainless steel AISI 302 spring.  
Elastomer seals.  
Threaded connection M UNI-EN-ISO 228.

- Max operating pressure 10 Bar
- Max operating discharge pressure 10 Bar
- Max operating temperature 115 °C
- Allowed fluid water and water+glycol 30 %

Features:



Code	Measure	Model	Pack	Outer	Cat.
2836.04.00	G 1/2"	Megaluft HP	1	10	20.02



### Series 2830.A

#### Airterm Line deaerator. Float operated.

Brass body.  
Float and lever in PP.  
Stainless steel AISI 302 spring.  
Stainless steel 304 3Layers cartridge.  
Elastomer seals.  
Threaded connections F UNI-EN-ISO 228.

- Max operating pressure 10 Bar
- Max operating discharge pressure 10 Bar
- Max operating temperature 110 °C
- Allowed fluid water and water+glycol 30 %

Features:



Code	Measure	Model	Pack	Outer	Cat.
2830.04.00	G 1/2"	Airterm	1	6	20.02
2830.05.00	G 3/4"	Airterm	1	6	20.02
2830.06.00	G 1"	Airterm	1	6	20.02
2830.07.00	G 1"1/4	Airterm	1	6	20.02
2830.08.00	G 1"1/2	Airterm	1	6	20.02
2830.09.00	G 2"	Airterm	1	1	20.02



### Series 3740.A

#### Insulation shell for Airterm in-line deaerator (threaded) consisting of half-casings made of expanded polyethylene with external antiscratch coating.

Fire behaviour class I  
Density 33 kg/m<sup>3</sup>  
Max operating temperature -40 ÷ +90 °C

Code	Measure	Pack	Outer	Cat.
3740.04.12	1/2" F	1	1	20.02
3740.05.12	3/4" F	1	1	20.02
3740.06.12	1" F	1	1	20.02
3740.07.12	1"1/4 F	1	1	20.02
3740.08.12	1"1/2 F	1	1	20.02
3740.09.12	2" F	1	1	20.02



# H2O LAB

water treatment

## MEGALUFT AND MEGALUFT HP

### Automatic high capacity air vent valves

**Megaluft** are high performance, float-operated automatic air vent valves with high discharge capacity. They are designed to remove any air and gas contained in the heating or cooling system.

They are ideal for application on vertical or horizontal columns, on manifolds or boilers, and can be installed in every zone of the system where bubbles may develop.

**Megaluft and Megaluft HP** are intended to remove air both during loading and emptying, without the need for manual intervention. Thanks to their high discharge capacity, they help keep all points of the system where they are installed air free. With their high functional guarantee, these automatic air vent valves must be considered a system safety device.



MAXIMUM DISCHARGE PRESSURE 5 bar

MEGALUFT

MAXIMUM DISCHARGE PRESSURE 10 bar

MEGALUFT HP



Ensures system efficiency

High discharge capacity

High performance

Automatic air venting

1 Closure cap

2 Spring

3 Gas ejection device

Located far away from the water free surface, outside of the valve, it prevents residual impurities present in the system liquid from impairing the ejection device tightness. The ejection of gases (such as oxygen, hydrogen, carbon dioxide) prevents the latter, if retained, from forming corrosive acid solutions or activating galvanic drilling processes in the presence of stray currents. The gas ejection device can be closed by completely screwing the cap.

4 Air accumulation pressostatic chamber

The pressostatic chamber is wide and it is designed to prevent contact between the impurities present on the fluid free surface and the sealing device, especially when the circulation pump is started.

5 Float

Technopolymer float, fitted inside the body in such a way that its functionality cannot be influenced by external movements, including rotation and vibration.

Structure completely made of brass

## OPERATING PRINCIPLE

The accumulation of air bubbles in the upper part of the valve body (air accumulation pressostatic chamber) causes the float descent and, consequently, the gas ejection device opening. For the valve to properly operate, make sure that the water pressure remains lower than the maximum discharge pressure value. **(5 bar for the model Megaluft - 10 bar for the model Megaluft HP).**



Valve position CLOSED



Valve position OPEN

# H2O LAB

water treatment

## AIRTERM & AIRTERM UP

Float operated deaerators

In-line **RBM Airterm** and adjustable **RBM Airterm UP** deaerators are devices designed to eliminate any micro air bubbles contained in the systems.

They are essentially made up of two parts:

**ACTIVE:** The area where microbubbles are formed as a result of strong turbulence and swirling motion. Microbubbles blend together becoming bubbles.

**PASSIVE:** Float-operated air vent valve to eliminate air bubbles.

With their capacity to absorb air bubbles nestled in the system's critical areas, deaerators help guarantee system efficiency and are therefore considered safety devices.



- 1 Passive part**  
High-performance air vent valve (discharge guaranteed up to 10 bar).

- 2 Innovative spiral cartridge**  
made of stainless steel. Stainless steel is an exceptional guarantee of long service life, maximum reliability in variable pressure, temperature, resistance to corrosion and wear conditions, generated by impurities (as it is increasingly less possible to predict what they are comprised of). The flow goes directly through the cartridge, and the continuous changes in sections lead to the creation of swirling movements which promote the release of micro bubbles. Nonetheless, the cartridge offers little resistance to flow passage and is characterised by very low head losses. The micro bubbles settle on the internal metal cage and, after reaching an adequate size, they move upwards and are ejected by the passive part of the device.



MAXIMUM DISCHARGE PRESSURE 10 bar

**AIRTERM**  
In-line deaerator

MAXIMUM DISCHARGE PRESSURE 10 bar

**AIRTERM UP**  
Adjustable deaerator



Ensures system efficiency

High discharge capacity

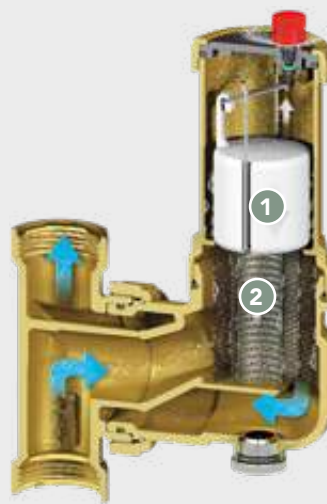
High performance (max. discharge pressure 10 bar)

Bi-directional (model Airterm)

Can be mounted on vertical, horizontal and diagonal piping (model Airterm UP)

- 1 Passive part**  
High-performance air vent valve (discharge guaranteed up to 10 bar).

- 2 Innovative cartridge**  
made up of stainless steel sheets with different filtering grades. Stainless steel is an exceptional guarantee of long service life, maximum reliability in variable pressure, temperature, resistance to corrosion and wear conditions, generated by impurities (as it is increasingly less possible to predict what they are comprised of). The flow goes directly through the cartridge, and the continuous changes in sections lead to the creation of swirling movements which promote the release of micro bubbles. Nonetheless, the cartridge offers little resistance to flow passage and is characterised by very low head losses. The micro bubbles settle on the internal metal cage and, after reaching an adequate size, they move upwards and are ejected by the passive part of the device.





### Series 2830.B

#### Airterm Flanged in-line deaerator. Float operation.

Painted steel body.  
Valve body and brass degasser.  
Elastomer degasser seals.  
PN16 flanged connections.

- Max operating pressure 10 Bar
- Max operating discharge pressure 10 Bar
- Max operating temperature 110 °C
- Allowed fluid water and water+glycol 30%

Code	Measure	Model	Pack	Outer	Cat.
2830.09.72	DN 50	Airterm	1	1	20.02
2830.10.72	DN 65	Airterm	1	1	20.02
2830.11.72	DN 80	Airterm	1	1	20.02
2830.13.72	DN 100	Airterm	1	1	20.02
2830.14.72	DN 125	Airterm	1	1	20.02
2830.15.72	DN 150	Airterm	1	1	20.02



Flange suitable for coupling with counter-flange UNI EN 1092-1.

Features:



### Series 3740.B

#### Insulation shell for Airterm in-line deaerator (flanged) consisting of half-casings made of expanded polyethylene with external antiscratch coating.

Fire behaviour class I  
Density 33 kg/m<sup>3</sup>  
Max operating temperature -40 ÷ +90 °C

Code	Measure	Pack	Outer	Cat.
3740.09.02	DN50	1	1	20.02
3740.10.02	DN65	1	1	20.02
3740.11.02	DN80	1	1	20.02
3740.13.02	DN100	1	1	20.02
3740.14.02	DN125	1	1	20.02
3740.15.02	DN150	1	1	20.02



### Series 2649

#### Airterm UP Adjustable deaerator. Float operation.

Brass body.  
Float and lever in PP.  
Stainless steel AISI 302 spring.  
Stainless steel AISI 304 cartridge.  
Elastomer seals.  
Threaded connections F UNI-EN-ISO 228.

- Max operating pressure 10 Bar
- Max operating discharge pressure 10 Bar
- Max operating temperature 115 °C
- Allowed fluid water and water+glycol 30%

Code	Measure	Model	Pack	Outer	Cat.
2649.05.00	G 3/4"	Airterm UP	1	6	20.02
2649.06.00	G 1"	Airterm UP	1	6	20.02



Can be mounted on vertical, horizontal and diagonal piping.  
Possibility of mounting series 2343.A accessory connector (see page179) for system washing.

Features:



### Series 37.B

#### VasaSette High-capacity automatic air vent valve, degasser, with conveyable drain. Float operation.

Nickel brass body.  
Float in PP.  
Elastomer seals.  
Threaded connections FF UNI-EN-ISO 228.  
Channelled air discharge F G 1/2".

- Max operating pressure 6 Bar
- Max operating discharge pressure 3 Bar
- Max operating temperature 100 °C
- Allowed fluid water and water+glycol 30%

Code	Size A	Size B	Model	Pack	Outer	Cat.
37.05.70	G 3/4"	1/2"	VasaSette	1	4	20.02



Large capacity discharge.  
Channelled venting valve.



Features:





### Series 2829.A

**Dirterm**  
**Self-cleaning dirt separator. Complete with drain ball cock with hose connection.**

Brass body.  
 Stainless steel AISI 304 3 Layers filtering cartridge.  
 Elastomer hydraulic seals.  
 Threaded connections FF UNI-EN-ISO 228.

- Max operating pressure 10 Bar
- Operating temperature 0 ÷ +110 °C

Certifications:



Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Outer	Cat.
2829.04.00	G 1/2"	7,40	1	6	20.02
2829.05.00	G 3/4"	12,66	1	6	20.02
2829.06.00	G 1"	20,44	1	6	20.02
2829.07.00	G 1"1/4	28,14	1	6	20.02
2829.08.00	G 1"1/2	44,45	1	6	20.02
2829.09.00	G 2"	65,58	1	6	20.02



### Series 3739.A

**Insulation shell for Dirterm self-cleaning dirt separator (threaded) consisting of half-casings made of expanded polyethylene with external antiscratch coating.**

Fire behaviour class I  
 Density 33 kg/m<sup>3</sup>  
 Max operating temperature -40 ÷ +90 °C

Code	Measure	Pack	Outer	Cat.
3739.04.12	1/2" F	1	1	20.02
3739.05.12	3/4" F	1	1	20.02
3739.06.12	1" F	1	1	20.02
3739.07.12	1"1/4 F	1	1	20.02
3739.08.12	1"1/2 F	1	1	20.02
3739.09.12	2" F	1	1	20.02



### Series 3491

**Dirterm UP**  
**Adjustable self-cleaning dirt separator. Complete with drain ball cock with hose connection.**

Brass body.  
 Stainless steel AISI 304 3 Layers filtering cartridge.  
 Elastomer hydraulic seals.  
 Threaded connections FF UNI-EN-ISO 228.

- Max operating pressure 10 Bar
- Operating temperature 0 ÷ +110 °C

Certifications:



Code	Measure	Pack	Outer	Cat.
3491.05.00	G 3/4"	1	1	20.02
3491.06.00	G 1"	1	1	20.02



Can be mounted on vertical, horizontal and diagonal piping.  
 Possibility of mounting series 2343.A accessory connector (see page179) for system washing.





### Series 2831.A

#### Airterm Dirt

**Self-cleaning dirt separator / deaerator. Float operated deaerator. Complete with drain ball cock with hose connection.**

Brass body.  
Lever floating device in PP.  
Stainless steel AISI 304 3 Layers filtering cartridge.  
Elastomer hydraulic seals.  
Threaded connections FF UNI-EN-ISO 228.

- Max operating pressure 10 Bar
- Max operating discharge pressure 10 Bar
- Operating temperature 0 ÷ +110 °C

Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Outer	Cat.
2831.04.00	G 1/2"	7,40	1	1	20.02
2831.05.00	G 3/4"	12,66	1	1	20.02
2831.06.00	G 1"	20,44	1	1	20.02
2831.07.00	G 1"1/4	28,14	1	1	20.02



Dirt separator + embedded deaerator.

Certifications:



Features:



### Series 3741.A

**Insulation shell for Airterm Dirt Self-cleaning dirt separator/deaerator (threaded) consisting of half-casings made of expanded polyethylene with external antiscratch coating.**

Fire behaviour class I  
Density 33 kg/m<sup>3</sup>  
Max operating temperature -40 ÷ +90 °C

Code	Measure	Pack	Outer	Cat.
3741.04.12	1/2" F	1	1	20.02
3741.05.12	3/4" F	1	1	20.02
3741.06.12	1" F	1	1	20.02
3741.07.12	1"1/4 F	1	1	20.02



### Series 2831.B

#### Airterm Dirt

**Self-cleaning dirt separator/ flanged deaerator. Float operation.**

Painted steel body.  
Valve body and brass degasser.  
Elastomer degasser seals.  
PN16 flanged connections.

- Max operating pressure 10 Bar
- Max operating discharge pressure 10 Bar
- Max operating temperature 110 °C
- Allowed fluid water and water+glycol 30 %

Code	Measure	Pack	Outer	Cat.
2831.09.72	DN 50	1	1	20.02
2831.10.72	DN 65	1	1	20.02
2831.11.72	DN 80	1	1	20.02
2831.13.72	DN 100	1	1	20.02
2831.14.72	DN 125	1	1	20.02
2831.15.72	DN 150	1	1	20.02



Dirt separator + embedded deaerator.  
Flange suitable for coupling with counter-flange UNI EN 1092-1.

Certifications:



Features:



### Series 3741.B

**Insulation shell for Airterm Dirt Self-cleaning dirt separator/deaerator (flanged) consisting of half-casings made of expanded polyethylene with external antiscratch coating.**

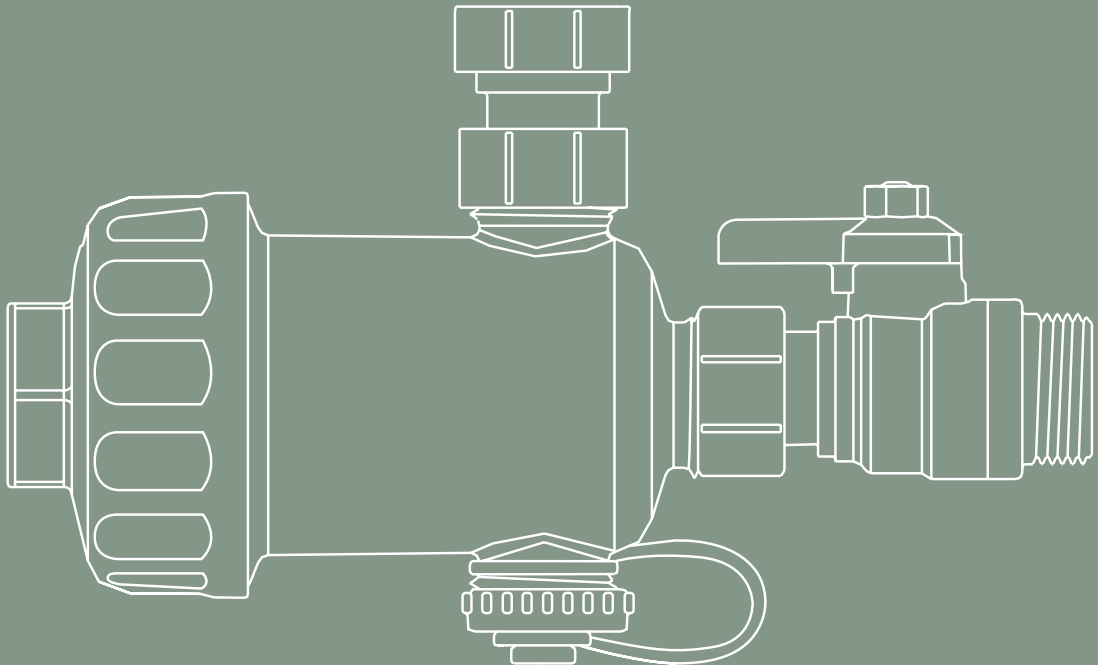
Fire behaviour class I  
Density 33 kg/m<sup>3</sup>  
Max operating temperature -40 ÷ +90 °C

Code	Measure	Pack	Outer	Cat.
3741.09.02	DN50	1	1	20.02
3741.10.02	DN65	1	1	20.02
3741.11.02	DN80	1	1	20.02
3741.13.02	DN100	1	1	20.02
3741.14.02	DN125	1	1	20.02
3741.15.02	DN150	1	1	20.02



## 02. ENERGY EFFICIENCY

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## 20. WATER TREATMENT

### 20.03 MAGNETIC TREATMENT

163

- Compact magnetic sludge remover filters for boilers
- Magnetic sludge remover filters for heat pumps
- Magnetic sludge remover filters
- Magnetic sludge remover/deareator filters
- Magnetic sludge remover filters for boiler rooms
- Magnetic anti-scale device
- Magnetic dirt separator filters kit

# H2O LAB

water treatment

## MAGNETIC FILTRATION

The most comprehensive range for all requirements

### BOILERS > 35 KW



**SafeCleaner2**  
Series 2405 - 2344 - 2319

Measures:  
3/4" - 1" - 1"1/4



**Dirterm Mag**  
Series 3173

Measures:  
1/2" - 3/4" - 1" - 1"1/4 - 1"1/2 - 2"



**Mag-nus 2**  
Series 3548

Measures:  
3/4" - 1"



**Line magnetic filter**  
Series 4162

Measures:  
1/2" - 3/4" - 1" - Ø 22 - Ø 28



### BOILERS < 35 kW



**MG1**  
Series 3070.A

Measures:  
3/4"



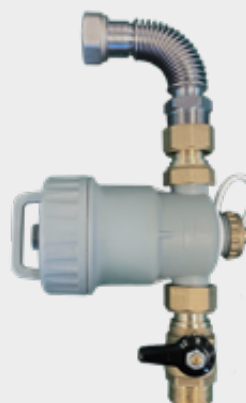
**MG2**  
Series 3715.A

Measures:  
3/4"



**MG1F**  
Series 3701.A

Measures:  
3/4"



**MG2F**  
Series 3816

Measures:  
3/4"



HEAT PUMPS



**MP1**  
Series 3699  
Measures:  
1" - 1"1/4



**MP2**  
Series 3833  
Measures:  
1"



**MP2 BIG**  
Series 3939  
Measures:  
1"



BOILER ROOMS



**MG Compact**  
Series 3602  
Measures:  
1/2" - 3/4" - 1" - 1"1/4  
1"1/2 - 2"



**Dirterm Mag**  
**Flanged**  
Series 3173.B  
Measures:  
DN 50, DN 65, DN 80,  
DN 100, DN 125, DN 150



**MG Plus**  
Series 3541  
Measures:  
50 - 65 - 80  
100 - 125 - 150



## Series 3715.A

Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Outer	Cat.
3715.05.10	G3/4"	4,65	1	6	20.03

Patented

**MG2****Under-boiler magnetic sludge remover filter.**

Plastic polymer cartridge holder body.  
Stainless steel AISI 304 filtering cartridge.  
Elastomer hydraulic seals.  
Threaded connections MF UNI-EN-ISO 228.

- Max operating pressure 3 Bar
- Operating temperature 0÷+90° C
- Neodymium magnet
- Filtering grade 800 µm



Super compact.  
Shut-off system included.  
Triple filtration.  
High efficiency.  
Removes any impurity.  
Fights corrosion.  
Increases the lifespan of the boiler.  
Maintains optimum system efficiency.

Features:



## Series 3816

Code	Pack	Outer	Cat.
3816.05.20	1	6	20.03

**MG2F****MG2F triple-action under-boiler magnetic filter, supplied with an idle nut fitting, ball valve and extendable flexible fitting**

Special filter for wall-mounted boiler

Body in plastic polymer.  
Stainless steel AISI 304 filtering cartridge.  
Elastomer hydraulic seals.  
Threaded connection F UNI-EN-ISO 228.  
3/4" flat seat valve.

- Max operating pressure 3 Bar
- Operating temperature 0 ÷ +90 °C
- Neodymium magnet B = 11000 gauss
- B(T max) / B(T amb)\* < 1%
- \*T max = 130 °C - T amb = 21 °C
- Filtering grade 800 µm





## MG2

### Under boiler magnetic sludge remover filter

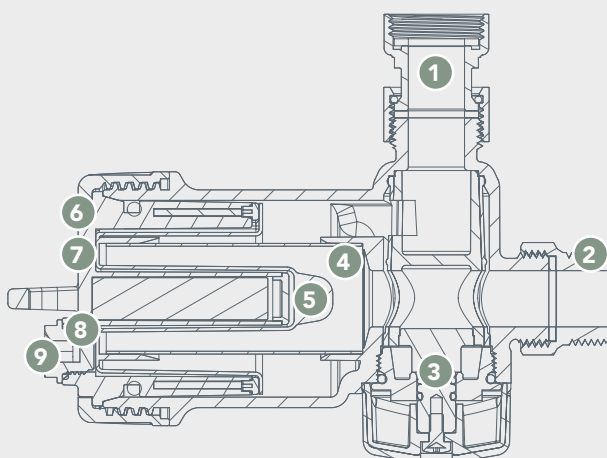
#### OPERATING PRINCIPLE

Through its effective and constant action, the magnetic filter collects all the impurities, preventing them from circulating, thus avoiding wear and damage of the rest of the components making up the system, circulators and heat exchangers in particular. **RBM MG2** performs a continuous protective action on the boiler.

#### USE

It is advised to install **RBM MG2** on the return circuit, at the inlet of the boiler, in order to protect it from any impurities in the system, especially during the start-up phase.

Thanks to its compact dimensions, it can be installed under the boiler, in systems for domestic use, where installation spaces are very limited and there is no room for a traditional dirt separator.



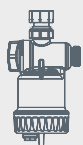
- 1 Swivel connection**  
It enables to easily connect the filter to connection G 3/4" M of the boiler
- 2 Threaded connections G 3/4"**  
Only one type of threaded connections: maximum installation versatility
- 3 Shut-off system**  
During maintenance, it allows to isolate the filter from the delivery and return circuit. This minimises the leakage of already treated water present in the closed circuit
- 4 Filtering mesh in stainless steel**
- 5 Magnet protection conduit, removable**
- 6 Closure**
- 7 Tightening ring nut**
- 8 OR di tenuta**
- 9 Safety drain plug**  
Enables to drain the fluid from the main body of the filter and, therefore, to perform programmed cleaning operations

#### THE SYSTEM WATER IS FILTERED THROUGH THREE ACTIONS:

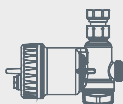
- 1.** The dirty water is conveyed around the central magnet which attracts the magnetic residues (first magnetic filtration)
- 2.** The water passes through the metal mesh (mechanical filtration of non magnetic impurities)
- 3.** The water touches the external walls of the filter where it meets an 8-magnet crown (second magnetic filtration)

#### MAXIMUM INSTALLATION VERSATILITY

**RBM MG2** can be installed horizontally or vertically, the shank with rotary nut included in the pack is used to connect the boiler and the connection on the circuit can be made with a flexible fitting (accessory 3174.05.30).



VERTICAL ASSEMBLY



HORIZONTAL ASSEMBLY

+

- Super compact

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- Shut-off system included

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- Triplefiltration

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- High efficiency

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- Removes any impurity

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- Fights corrosion

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- Increases the lifespan of the boiler

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- Ensures system efficiency



### Series 3070.A

**MG1**  
**Under-boiler magnetic sludge remover filter. Supplied complete with swivel filter/boiler connection fitting and ball valve.**

Plastic polymer cartridge holder body.  
 Stainless steel AISI 304 filtering cartridge.  
 Elastomer hydraulic seals.  
 Threaded connections MF UNI-EN-ISO 228.

- Max operating pressure 3 Bar
- Operating temperature 0 ÷ +90 °C
- Neodymium magnet B = 11000 gauss
- $B(T_{max}) / B(T_{amb})^* < 1\%$
- \*T max = 130 °C - T amb = 21 °C
- Filtering grade 800 µm

Certifications:



Features:



Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Outer	Cat.
3070.05.00	G 3/4"	5,49	1	6	20.03

Patent nr. 202015000064159



800 µm and 400 µm filtering cartridges available in the Service division.



### Series 3070.B

**MG1**  
**Under-boiler magnetic sludge remover filter. Supplied complete with swivel filter/boiler connection fitting and ball valve.**

Plastic polymer cartridge holder body.  
 Stainless steel AISI 304 filtering cartridge.  
 Elastomer hydraulic seals.  
 Threaded connections MF UNI-EN-ISO 228.

- Max operating pressure 3 Bar
- Operating temperature 0 ÷ +90 °C
- Neodymium magnet B = 11000 gauss
- $B(T_{max}) / B(T_{amb})^* < 1\%$
- \*T max = 130 °C - T amb = 21 °C
- Filtering grade 800 µm

Certifications:



Features:



Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Outer	Cat.
3070.05.50	G 3/4"	5,49	1	6	20.03

Patent nr. 202015000064159



800 µm and 400 µm filtering cartridges available in the Service division.





### Series 3701.A

**MG1F**  
Under-boiler magnetic sludge remover filter. Supplied complete with swivel filter/boiler connection fitting and ball valve.

Plastic polymer cartridge holder body.  
Stainless steel AISI 304 filtering cartridge.  
Elastomer hydraulic seals.  
Threaded connections MF UNI-EN-ISO 228.

- Max operating pressure 3 Bar
- Operating temperature  $0 \div +90$  °C
- Neodymium magnet  $B = 11000$  gauss
- $B(T_{max}) / B(T_{amb})^* < 1\%$
- \*  $T_{max} = 130$  °C -  $T_{amb} = 21$  °C
- Filtering grade  $800 \mu\text{m}$

Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Outer	Cat.
3701.05.80	G 3/4"	5,49	1	6	20.03

Patent nr 202015000064159



800  $\mu\text{m}$  and 400  $\mu\text{m}$  filtering cartridges available in the Spare parts section.

Certifications:



Features:



### Series 3701.B

**MG1F**  
Under-boiler magnetic sludge remover filter. Supplied complete with swivel filter/boiler connection fitting and ball valve.

Plastic polymer cartridge holder body.  
Stainless steel AISI 304 filtering cartridge.  
Elastomer hydraulic seals.  
Threaded connections MF UNI-EN-ISO 228.

- Max operating pressure 3 Bar
- Operating temperature  $0 \div +90$  °C
- Neodymium magnet  $B = 11000$  gauss
- $B(T_{max}) / B(T_{amb})^* < 1\%$
- \*  $T_{max} = 130$  °C -  $T_{amb} = 21$  °C
- Filtering grade  $800 \mu\text{m}$

Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Outer	Cat.
3701.05.90	G 3/4"	5,49	1	6	20.03

Patent nr 202015000064159



The 800  $\mu\text{m}$  and 400  $\mu\text{m}$  TZB filtering cartridges are available in the Spare Parts section.

Certifications:



Features:



### Series 3174.A

**Straight rotary fitting.**

Threaded connections FF UNI-EN-ISO 228.

Code	Measure	Pack	Outer	Cat.
3174.05.00	3/4"	1	6	20.03



Fitting for filter/boiler connection



### Series 3174.B

**Curved rotary fitting.**

Threaded connections FF UNI-EN-ISO 228.

Code	Measure	Pack	Outer	Cat.
3174.05.10	3/4"	1	6	20.03



Specific fitting for connection of MG1 to boilers with front connection (e.g. Vaillant model).



**Series 3174.C****Flexible extendible fitting.**

Threaded connections MF UNI-EN-ISO 228.  
L80 ÷ 120 mm

Code	Measure	Pack	Outer	Cat.
3174.05.30	3/4"	1	6	20.03



Fitting for filter connection

**Series 3174.D****Ball valve with rotary connection.**

Threaded connections MF UNI-EN-ISO 228.

Code	Measure	Pack	Outer	Cat.
3174.05.20	3/4"	1	6	20.03

**Series 943.A****MG1 filter cap removal spanner.**

Code	Pack	Cat.
943.30.05	1	60.01

**Series 4162****In-line magnetic filter**

Diverter body made of high mechanical performance plastic polymer.  
Plastic polymer cartridge holder body.  
Stainless steel AISI 304 filtering cartridge.  
Elastomer hydraulic seals.  
Threaded connections FF UNI-EN-ISO 228.

- Max operating pressure 4 Bar
- Operating temperature 0 - 90 °C
- Neodymium magnet REN 35B = 11000 gauss

Features:



Code	Measure	Kv (m <sup>3</sup> /h)	Cat.
4162.04.00	G 1/2"	6,83	20.03
4162.05.00	G 3/4"	6,83	20.03
4162.06.00	G 1"	6,83	20.03
4162.22.00	ø 22 mm	6,83	20.03
4162.28.00	ø 28 mm	6,83	20.03





# H2O LAB

water treatment



## MG1

### Compact magnetic system filter

**RBM MG1** represents the best solution to solve plant problems due to particle pollution, especially rust and sand that are formed due to corrosion and scale during the normal operation of a system. Thanks to its compact dimensions, it is perfect when the boiler to be protected is installed in a kitchen cabinet or where installation spaces are very limited and there is no room for other dirt separators. Through its effective and constant action, the magnetic filter collects all the impurities present in the system, preventing them from circulating within it, thus avoiding wear and damage of the circulator and the heat exchanger.

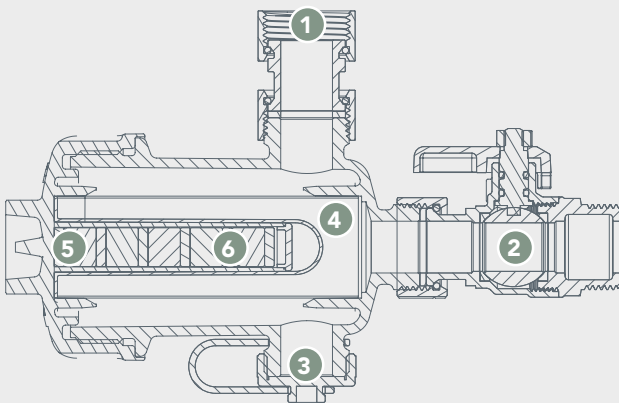


PATENT: N° 20201500064159

By going through a set course, the fluid is forced to cross the many areas that modify its motion and filter its content:

- 1 The sudden cross section variation slows down the fluid and the particles suspended in it
- 2 The magnet inside the cylinder attracts all the ferrous impurities
- 3 Non-magnetic particles are retained by the mesh of the filtering cartridge

**Continuous protection of the boiler**



- 1 **Swivel connection**  
It enables to easily connect the filter to connection G 3/4" M of the boiler.
- 2 **Ball valve**  
It enables to intercept the return circuit.
- 3 **Drain cap**
- 4 **Filtration chamber**
- 5 **Neodymium magnet**
- 6 **Stainless steel filtering cartridge**

## MAXIMUM INSTALLATION VERSATILITY

It is advised to install **RBM MG1** on the return circuit, at the inlet of the boiler, in order to protect it from any impurities in the system, especially during the start-up phase. Thanks to its extreme installation versatility, **RBM MG1** can be mounted either with the cartridge/filter body facing the front and downwards.



Super compact

Retains all impurities

Fights corrosion

Increases the lifespan of the boiler

Maintains optimum system efficiency





### Series 3699

#### MP1 Self-cleaning magnetic sludge remover filter for heating pump.

**Complete with integrated shut-off device  
and discharge ball cock.**

Body in plastic polymer.  
AISI 304 stainless steel reinforced filtering  
cartridge.  
Elastomer hydraulic seals.  
Threaded connections MM UNI-EN-ISO 228.

- Max operating pressure 6 Bar
- Operating temperature 0 - +70 °C
- Neodymium magnet B = 11000 gauss
- Filtering grade 800 µm

Certifications:



Features:



Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Outer	Cat.
3699.06.00	G 1"	17.3	1	4	20.03
3699.07.00	G 1"1/4	17.3	1	4	20.03

US11826679B2



### Series 3815

#### Insulation casing for MP1 self-cleaning magnetic dirt separator consisting of expanded polyethylene half-casings with external antiscratch coating.

Fire behaviour class I  
Density 33 kg/m<sup>3</sup>  
Max operating temperature -40 ÷ +90 °C

Code	Measure	Pack	Outer	Cat.
3815.00.00	1" F	1	1	20.03



### Series 3773.A

#### Double swivel straight fitting 1"1/4F x 1"1/4F

Code	Size A	Size B	Pack	Outer	Cat.
3773.07.00	G 1"1/4 F	1"1/4 F	1	1	20.03
3773.07.10	G 1"1/4 F	1" F	1	1	20.03



### Series 3773.B

#### Curved spherical fitting 1"1/4F x 1"1/4M

Code	Measure	Pack	Outer	Cat.
3773.07.20	G 1"1/4 F	1	1	20.03



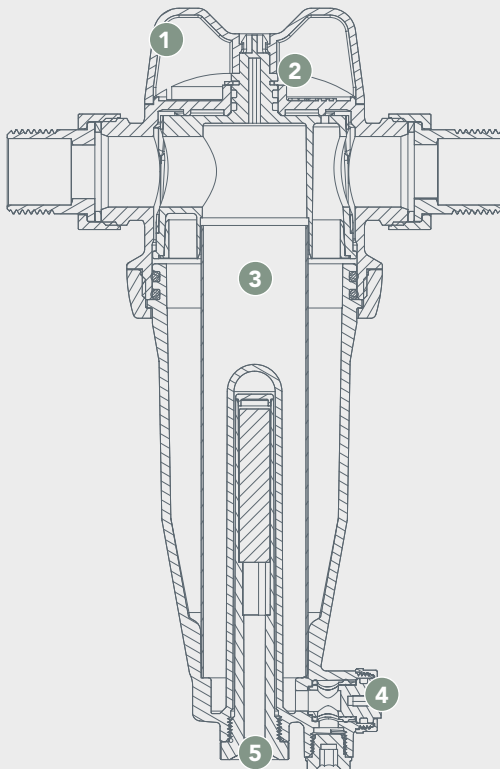


## MP1

### Magnetic dirt separator filter for heat exchangers

**MP1 RBM** is a magnetic sludge remover filter for heat pumps, complete with an integrated shut-off device and a discharge ball cock.

- High performance technopolymer body.
- AISI 304 stainless steel reinforced filtering cartridge.
- Elastomer hydraulic seals.
- Union threaded connections MM UNI-EN-ISO 228.
- Max. operating pressure 6 bar.
- Operating temperature 0 to +90°C
- Neodymium magnet B = 11000 gauss
- Filtering grade 800 µm



U.S. PATENT FOR INVENTION: N° US11826679B2

- 1 Integrated shut-off device
- 2 Extra connection for temperature and/or pressure probes
- 3 Filtering mesh
- 4 Discharge ball cock
- 5 Removable magnet

#### FEATURES:

- Very **low pressure** drops;
- Direct filtration with an 800 micron mesh, with other degrees of filtration available (up to 100 micron);
- **Extra connections** for temperature and/or pressure probes;
- Insulation (optional).

Removes any impurity +

Self-cleaning

Excellent hydraulic properties

Extends the lifespan of heat pumps

Fights corrosion

Maintains optimum system efficiency

Complete with integrated shut-off device and discharge ball cock.



### Series 3833

#### MP2 Self-cleaning magnetic sludge remover filter for heating pump.

Brass diverter valve body.  
Plastic polymer cartridge holder body.  
Stainless steel AISI 304 filtering cartridge.  
Elastomer hydraulic seals.  
Threaded connections FF UNI-EN-ISO 228.

- Max operating pressure 6 Bar
- Operating temperature 0-70 °C
- Neodymium magnet B = 11000 gauss
- Filtering grade 800 µm

Features:



Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Cat.
3833.06.00	G 1"	10,73	1	20.03

Patented



### Series 3967

#### Insulation shell for MP2 self-cleaning magnetic dirt separator consisting of expanded polyethylene half-casings with external antiscratch coating.

Fire behaviour class I  
Density 33 kg/m<sup>3</sup>  
Max operating temperature -40 ÷ +90 °C

Code	Measure	Pack	Outer	Cat.
3967.00.02	1" F	1	1	20.03



### Series 3939

#### MP2 BIG Self-cleaning magnetic sludge remover filter for heating pump.

Body in plastic polymer.  
AISI 304 stainless steel reinforced filtering  
cartridge.  
Elastomer hydraulic seals.  
Threaded connections MM UNI-EN-ISO 228.

- Max operating pressure 6 Bar
- Operating temperature 0-70 °C
- Neodymium magnet B = 11000 gauss
- Filtering grade 800 µm

Features:



Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Cat.
3939.06.00	1" F	10,73	1	20.03

Patent pending





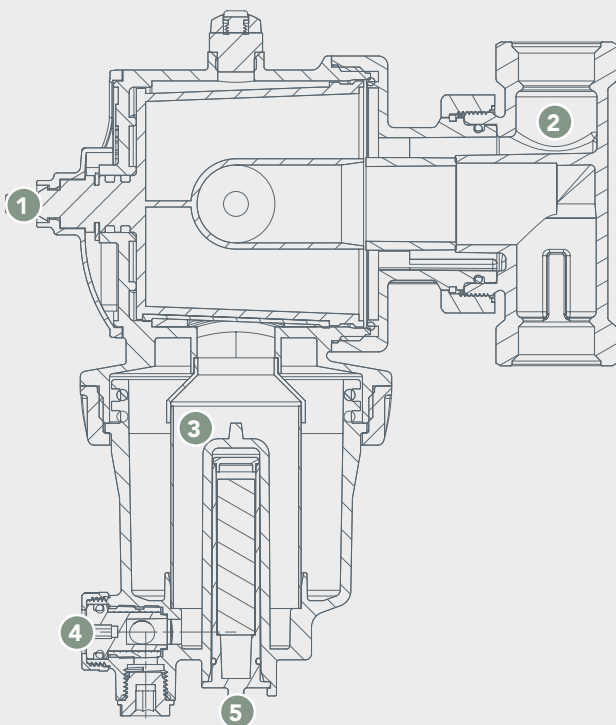
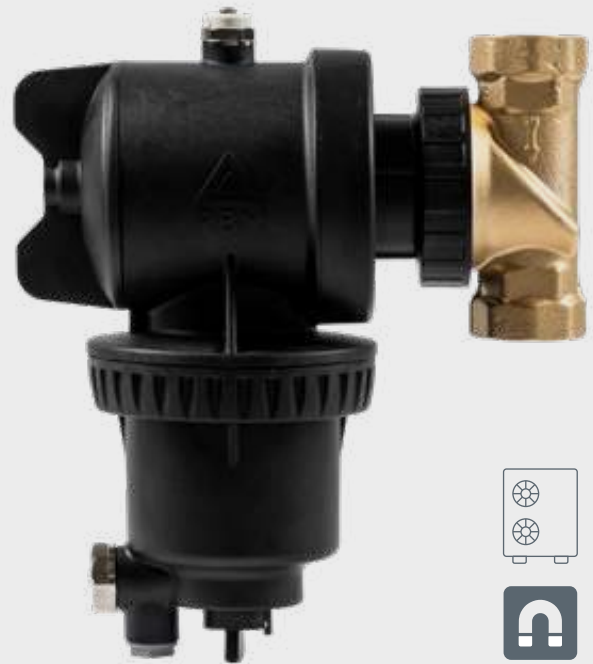
## MP2

### Compact magnetic sludge remover filter for heat pumps

**RBM MP2** is a compact magnetic sludge remover filter for heat pumps, complete with removable magnet and discharge ball cock.

**RBM MP2** is particularly suitable for protecting the heat pumps used in domestic systems. The built in total passage shut-off system makes the installation overall dimension very small.

- High performance technopolymer body.
- AISI 304 stainless steel reinforced filtering cartridge.
- Elastomer hydraulic seals.
- Max operating pressure 6 Bar.
- Operating temperature 0 +90 °C.
- Neodymium magnet B = 11000 gauss.
- Filtering grade 800 m.



## FEATURES

- Very **low pressure** drops;
- Direct filtration with an 800 micron mesh, with other degrees of filtration available (up to 100 micron);
- **Extra connections** for temperature and/or pressure probes;
- Insulation (optional).

- 1 Built-in total passage shut- off system
- 2 360° adjustable diverter
- 3 Filter mesh
- 4 Built-in purge cock
- 5 Removable neodymium magnet

Removes any impurity

Excellent hydraulic properties

Can be mounted on vertical, horizontal and diagonal piping

Extends the life span of heat pumps

Fights corrosion

Ensures system efficiency

Easy dosing of the treatment fluids with 0.3 L doses

Built-in total passage shut-off system.





### Series 2405

#### SafeCleaner2 Multifunction polymer magnetic dirt separator, diverter in brass, FF connection.

Plastic polymer cartridge holder body.  
Nickel plated brass diverter valve.  
Stainless steel AISI 304 filtering cartridge.  
Elastomer hydraulic seals.  
Threaded connections FF UNI-EN-ISO 228.

- Max operating pressure 4 Bar
- Operating temperature 0 ÷ +90 °C
- Neodymium magnet B = 11000 gauss
- $B(T_{max}) / B(T_{amb})^* < 1\%$
- \*  $T_{max} = 130\text{ °C} - T_{amb} = 21\text{ °C}$

Certifications:



Features:



Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Outer	Cat.
2405.05.00	G 3/4"	6,81	1	6	20.03
2405.06.00	G 1"	7,51	1	4	20.03



Possibility of mounting series 2343.A accessory connector (see page179) for system washing.



### Series 2344

#### SafeCleaner2 Multifunction polymer magnetic dirt separator, diverter in brass, with FF ball valves connection.

Plastic polymer cartridge holder body.  
Nickel plated brass diverter valve.  
Stainless steel AISI 304 filtering cartridge.  
Elastomer hydraulic seals.  
Threaded connections FF UNI-EN-ISO 228.

- Max operating pressure 4 bar
- Operating temperature 0 ÷ +90 °C
- Neodymium magnet B = 11000 gauss
- $B(T_{max}) / B(T_{amb})^* < 1\%$
- \*  $T_{max} = 130\text{ °C} - T_{amb} = 21\text{ °C}$

Certifications:



Features:



Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Outer	Cat.
2344.05.50	G 3/4"	6,81	1	6	20.03
2344.06.50	G 1"	7,51	1	4	20.03
2344.07.50	G 1"1/4	7,51	1	4	20.03



Possibility of mounting series 2343.A accessory connector (see page179) for system washing.





### Series 2319

#### SafeCleaner2 Multifunction polymer magnetic dirt separator, with FF ball valves connection.

Plastic polymer cartridge holder body.  
Plastic polymer diverter valve.  
Stainless steel AISI 304 filtering cartridge.  
Elastomer hydraulic seals. Threaded connections  
FF UNI-EN-ISO 228.

- Max operating pressure 4 Bar
- Operating temperature  $0 \div +90$  °C
- Neodymium magnet B = 11000 gauss
- $B(T_{max}) / B(T_{amb})^* < 1\%$
- \*  $T_{max} = 130$  °C -  $T_{amb} = 21$  °C

Certifications:



Features:



Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Outer	Cat.
2319.05.50	G 3/4"	6,81	1	6	20.03
2319.06.50	G 1"	7,51	1	4	20.03
2319.07.50	G 1 1/4"	7,51	1	4	20.03



Possibility of mounting series 2343.A accessory connector (see page 179) for system washing.



### Series 3746

#### Insulation shell for SafeCleaner2 multi-function magnetic dirt separator consisting of expanded polyethylene half-casings with external antiscratch coating.

Fire behaviour class I  
Density 33 kg/m<sup>3</sup>  
Max operating temperature  $-40 \div +90$  °C

Code	Size A	Pack	Outer	Cat.
3746.05.12	3/4" 1" 1 1/4 F	1	1	20.03



### Series 943.B

#### SafeCleaner2 filter cap removal spanner.

Code	Pack	Cat.
943.30.05	1	60.01





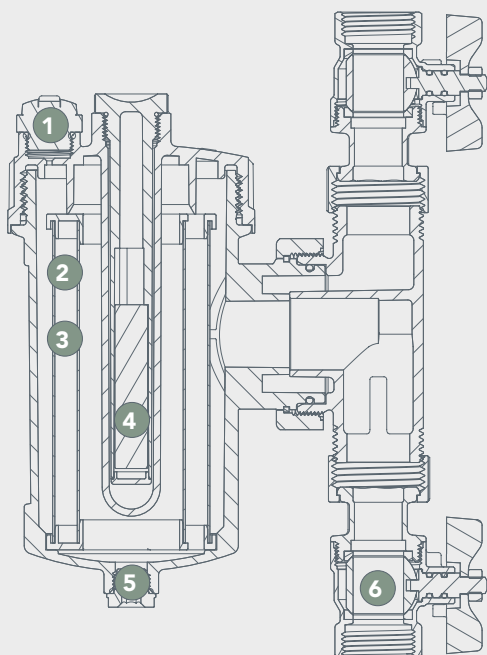
## SAFECLEANER 2

### Multifunction magnetic dirt separator filter for hydraulic circuits

**RBM SafeCleaner2** represents the best solution to solve plant problems due to particle pollution, especially rust and sand, that are formed due to corrosion and scale during the normal operation of a system. Through its effective and constant action, the magnetic filter collects all the impurities present in the circuit, preventing them from circulating within it, thus avoiding wear and damage of all the components making up the system.

The impurities caught by the filter build up on the bottom of it and are eliminated by simply opening the drain plug.

**This way all the magnetic contaminants (ferrous residues) and non-magnetic (algae, sludge, sand...) in the system are removed.**

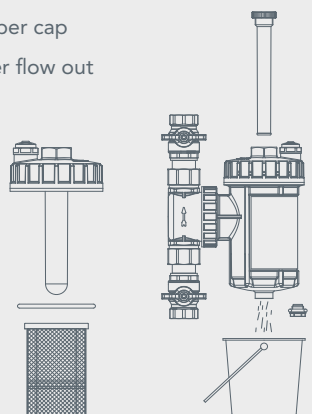


- 1 Manual air vent valve
- 2 Stainless steel filtering
- 3 Filtration chamber
- 4 Neodymium removable magnet
- 5 Drain cap
- 6 Shut-off ball valve

### SIMPLE CLEANING OPERATIONS

1. Shut off the ball valves
2. Remove the magnet from the upper cap
3. Open the drain plug and let water flow out

For a more thorough cleaning of the sludge remover, the filter cap can be completely removed so as to extract the filtering mesh and allow for cleaning and replacement operations.



Retains all impurities

Self-cleaning

Excellent hydraulic properties

Can be mounted on vertical, horizontal and diagonal piping

Increases the lifespan of the boiler

Fights corrosion

Maintains optimum system efficiency

Easy dosing of the treatment fluids with 0.5l doses







### Series 3548

**Mag-nus2**  
Self-cleaning magnetic sludge remover filter for hydraulic systems. Provided with drain ball cock with hose end connector.

Brass body.  
Stainless steel AISI 304 filtering cartridge.  
Elastomer hydraulic seals.  
Threaded connections FF UNI-EN-ISO 228.

- Max operating pressure 10 Bar
- Operating temperature 0 ÷ +100 °C
- Max operating temperature 130 °C
- Neodymium magnet B = 11000 gauss
- $B(T_{max}) / B(T_{amb})^* < 1\%$
- $*T_{max} = 130\text{ °C} - T_{amb} = 21\text{ °C}$

Certifications:



Features:



Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Outer	Cat.
3548.05.00	G 3/4"	9,50	1	4	20.03
3548.06.00	G 1"	10,30	1	4	20.03



Possibility of mounting series 2343.A accessory connector (see page179) for system washing.



### Series 3747

**Insulation shell for Mag-Nus2 self-cleaning magnetic dirt separator consisting of expanded polyethylene half-casings with external antiscratch coating.**

Fire behaviour class I  
Density 33 kg/m<sup>3</sup>  
Max operating temperature -40 ÷ +90 °C

Code	Measure	Pack	Outer	Cat.
3747.05.12	3/4" 1" F	1	1	20.03



### Series 2343.A

**Connector for cleaning/washing system.**

Code	Measure	Pack	Outer	Cat.
2343.05.00	U	1	20	20.03

U = Universal



Accessory to be fitted on sludge remover filters model "Dirterm UP" series 3491, "SafeCleaner2" series 2319 - 2344 - 2405, "Mag-Nus2" series 3548 and deaerators model "Airterm UP" series 2649, for system washing.



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water treatment



## MAG-NUS 2

### Self-cleaning dirt separator with magnet for hydraulic circuits

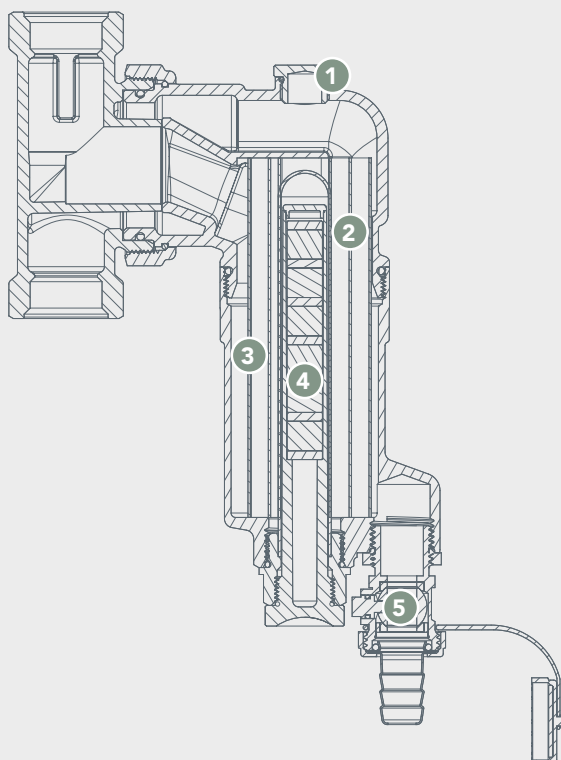
**RBM Mag-nus2** is a self-cleaning dirt separator with magnet suitable for hydraulic systems. It is an extremely innovative product created to remove any type of impurity from heating systems.

**RBM Mag-nus2** is the best solution to solve problems caused by particle pollution, especially rust and sand, formed by corrosion. This device helps maintaining the high efficiency of the system, preventing pipe obstruction and boiler failures.

Through its effective action, the magnet attracts iron particles avoiding damages caused by free movements of these into the system.

Impurities (iron, rust, sand, seaweeds) collected in the filter can be removed through the drain valve.

**RBM Mag-nus2** must be installed with the drain valve pointing to the bottom.



- 1 G 3/8" connection (for air vent valve)
- 2 Filtering cartridge: Stainless steel
- 3 Filtering chamber
- 4 Neodymium magnet
- 5 Drain valve

Thanks to the telescopic mounting ring nut, it is easy fast install **RBM Mag-nus2** in any position:

STRAIGHT  
VERTICAL  
DIAGONAL

In the upper part there is a female connection G 3/8" that can be used to connect also an automatic air vent valve RBM code 37.03.60.



Removes any impurity

Self-cleaning

Excellent hydraulic properties

Can be mounted on vertical, horizontal and diagonal piping

Extends boiler lifespan

Fights corrosion

Ensures system efficiency

Limited overall dimensions





## CONNECTOR TO WASH THE SYSTEMS

RBM provide a connection tool easy to use and makes it easier and quicker to wash a heating system (as required by law).

**The RBM connector** to wash systems is compatible with all components fitted with an adjustable diverter: SafeCleaner2 (2405 - 2344 - 2319 series) and Mag-Nus2 (3548 series) dirt separator filters and Airterm UP (2649 series) deaerators.

Thanks to the **RBM connector**, there is no need to take down the circulator or look for other points to access the system: simply unscrew the filter or deaerator body, screw the connector to the previously installed diverter and carry out flushing operations.



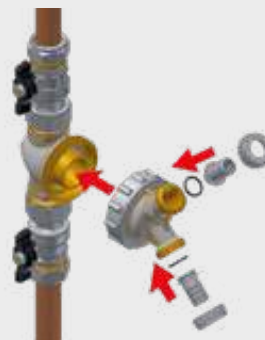
### OPERATING INSTRUCTIONS\*



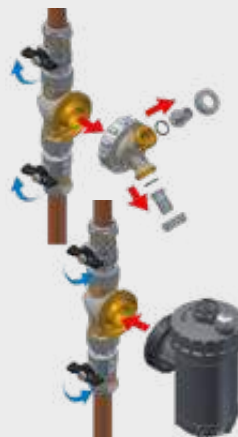
- 1.** Shut off the device by closing the ball valves and remove the main body of the filter from the diverter.



- 2.** Screw the connector onto the diverter body.



- 3.** Connect the inlet and drain pipes to the two outlet connectors of the connector itself, open the ball valves and carry out the flushing.



- 4.** After washing the system, shut it off, remove the connector and place the main body of the device back on the diverter.

\* For further information, please see the product data sheet available at [www.rbm.eu](http://www.rbm.eu).



Strong: made entirely of brass

Quick and easy to install

With outlet connectors

Universal: compatible with the whole range of SafeCleaner2 and Mag-Nus2 filters, and Airterm UP deaerators



### Series 3173.A

#### Dirterm Mag Self-cleaning magnetic dirt separator. Complete with drain ball cock with hose connection.

Brass body.  
Stainless steel AISI 304 2.Layers filtering cartridge.  
Elastomer hydraulic seals.  
Threaded connections FF UNI-EN-ISO 228.

- Max operating pressure 10 Bar
- Operating temperature 0 ÷ +110°C
- Neodymium magnet B = 11000 gauss

Certifications:



Features:



Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Outer	Cat.
3173.04.00	G 1/2"	7,40	1	8	20.03
3173.05.00	G 3/4"	12,66	1	8	20.03
3173.06.00	G 1"	20,44	1	8	20.03
3173.07.00	G 1"1/4	28,14	1	8	20.03
3173.08.00	G 1"1/2	44,45	1	8	20.03
3173.09.00	G 2"	65,58	1	8	20.03



### Series 3173.B

#### Dirterm Mag Flanged Self-cleaning magnetic sludge remover filter / flanged deaerator. With drain ball cock.

Main body and flanges in electrostatically  
powder-coated steel on the outside.  
Stainless steel filtering cartridge.  
Elastomer seals.  
PN16 flanged couplings.

- Max operating pressure 10 Bar
- Max operating pressure 110°C

Features:



Code	Measure	Pack	Outer	Cat.
3173.09.72*	DN 50	1	1	20.03
3173.10.72*	DN 65	1	1	20.03
3173.11.72*	DN 80	1	1	20.03
3173.13.72*	DN 100	1	1	20.03
3173.14.72	DN 125	1	1	20.03
3173.15.72	DN 150	1	1	20.03



### Series 3744

#### Insulation shell for Dirterm self-cleaning dirt separator (threaded) consisting of half-casings made of expanded polyethylene with external antiscratch coating.

Fire behaviour class I  
Density 33 kg/m<sup>3</sup>  
Max operating temperature -40 ÷ +90°C

Code	Measure	Pack	Outer	Cat.
3744.04.12	1/2" F	1	1	20.03
3744.05.12	3/4" F	1	1	20.03
3744.06.12	1" F	1	1	20.03
3744.07.12	1"1/4 F	1	1	20.03
3744.08.12	1"1/2 F	1	1	20.03
3744.09.12	2" F	1	1	20.03





## DIRTERM MAG

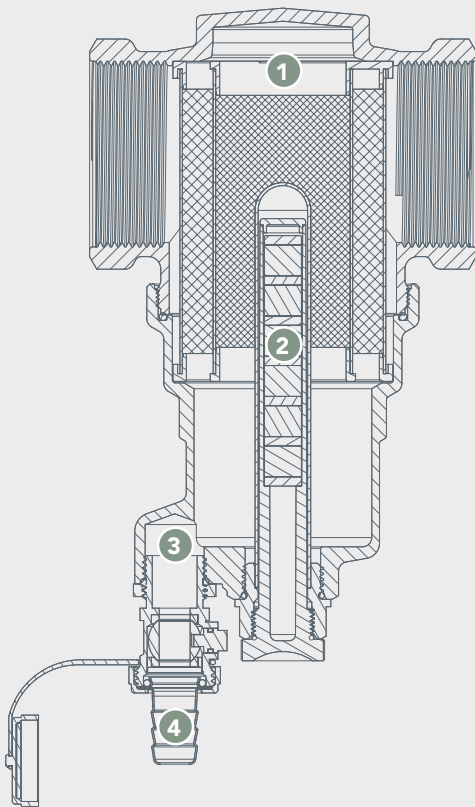
### Self-cleaning dirt separator

**RBM Dirterm Mag** represents the best solution to solve plant problems due to particle pollution formed due to corrosion and scale during the normal operation of a system. Through its effective and constant action, **RBM Dirterm Mag** collects all the impurities present in the system (even very small which traditional mesh filters are not able to eliminate), preventing them from circulating within it, thus avoiding wear and damage of all the components making up the system. The impurities stopped by **RBM Dirterm Mag** are accumulated on its bottom as long as the opening of the specific discharge valve allows the expulsion thereof.

In addition, **RBM Dirterm Mag**, is equipped with a powerful magnet to capture rust particles that are formed due to corrosion and scale during the normal operation of a system.



**DIRTERM MAG**  
magnetic dirt separator



#### 1 Innovative Cartridge

Made up of stainless steel sheets with different filtering grades. Stainless steel is an exceptional guarantee of long service life, maximum reliability in variable pressure, temperature, greater resistance to corrosion and wear conditions, generated by impurities (as it is increasingly less possible to predict what they are comprised of).

The cartridge contributes to minimising the possibility of impurities running through and offers little resistance to the flow passage, characterised by very low head loss. The special cartridge does not obstruct the descent of the dirt into the accumulation zone in any way, therefore there is no danger of the particles being recovered by the flow running towards the outlet of the dirt separator.



#### 2 Magnet (11.000 gauss)

Powerful magnet to capture particles magnetic that are formed due to corrosion during the normal operation of a system.

#### 3 Accumulation area

Large and very far from the flow passage, resulting in less frequent maintenance work.

#### 4 Purge valve

Adjustable, with hose connector and safety cap.

Eliminates all impurities

Self-cleaning

Ensures system efficiency

Magnetic

Bi-directional





### Series 2863

**Airterm Mag**  
**Self-cleaning dirt separator / deaerator.**  
**Float operated deaerator.**  
**Provided with drain ball valve with hose**  
**end connector.**

Brass body.  
 Stainless steel AISI 304 2 Layers filtering cartridge.  
 Elastomer hydraulic seals.  
 Threaded connections FF UNI-EN-ISO 228.

- Max operating pressure 10 Bar
- Max operating discharge pressure 10 Bar
- Operating temperature 0 ÷ +110 °C
- Neodymium magnet B = 11000 gauss

Certifications:



Features:



Code	Measure	Kv (m³/h)	Pack	Outer	Cat.
<b>2863.04.00</b>	G 1/2"	7,40	1	6	20.03
<b>2863.05.00</b>	G 3/4"	12,66	1	6	20.03
<b>2863.06.00</b>	G 1"	20,44	1	6	20.03
<b>2863.07.00</b>	G 1"1/4	28,14	1	6	20.03



Magnetic dirt separator + embedded deaerator.



### Series 3745

**Insulation shell for Airterm Mag**  
**self-cleaning dirt separator consisting of**  
**half-casings made of expanded**  
**polyethylene with external antiscratch**  
**coating.**

Fire behaviour class I  
 Density 33 kg/m³  
 Max operating temperature -40 ÷ +90 °C

Code	Measure	Pack	Outer	Cat.
<b>3745.04.12</b>	1/2" F	1	1	20.03
<b>3745.05.12</b>	3/4" F	1	1	20.03
<b>3745.06.12</b>	1" F	1	1	20.03
<b>3745.07.12</b>	1"1/4 F	1	1	20.03





## AIRTERM MAG

### Combined self-cleaning Dirt separator / deaerator

**RBM Airterm Mag** combines the functions of common dirt separators and deaerators in a single solution. They are used to remove air and impurities from hydraulic circuits. In addition, is equipped with a powerful magnet to capture particles such as rust and sand that are formed due to corrosion and scale during the normal operation of a system.

### ADVANTAGES

Merging two different components into one solution has allowed us to significantly reduce overall dimensions with respect to the installation of two separate products: dirt separator + deaerator.



MAXIMUM  
DISCHARGE  
PRESSURE **10 bar**



**AIRTERM MAG**  
Magnetic dirt separator / deaerator

Eliminates all impurities

Self-cleaning

Ensures system efficiency

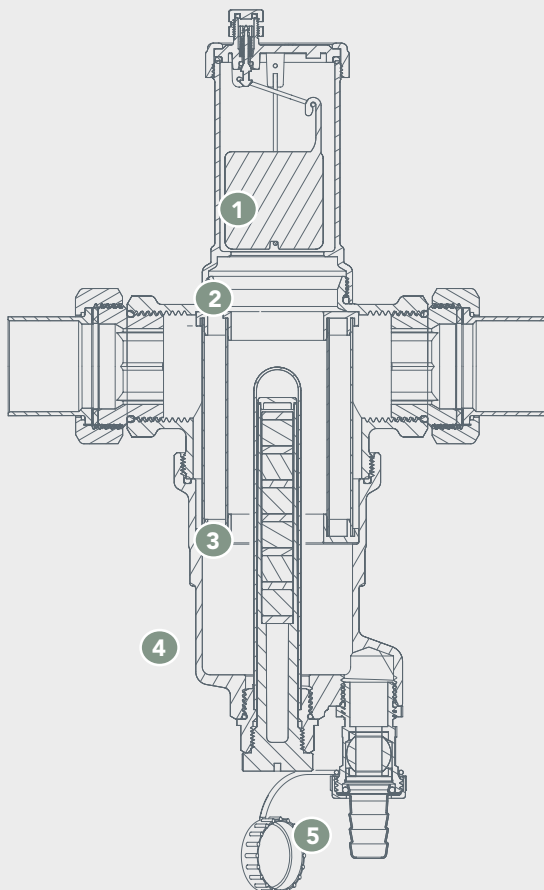
Large capacity discharge

High performance (max. discharge pressure 10 bar)

Multifunction: Built-in dirt separator and deaerator

Magnetic

Bi-directional



#### 1 Passive part

High-performance air vent valve (discharge guaranteed up to 10 bar)

#### 2 Innovative cartridge

Made up of stainless steel sheets with different filtering grades. Stainless steel is an exceptional guarantee of long service life, maximum reliability in variable pressure, temperature, greater resistance to corrosion and wear conditions, generated by impurities (as it is increasingly less possible to predict what they are comprised of). The flow goes directly through the cartridge and the continuous changes in sections lead to the creation of swirling movements which promote the release of micro bubbles. The micro bubbles settle on the internal metal cage and, after reaching an adequate size, they move upwards and are ejected by the passive part of the device. At the same time, this contributes to minimising the possibility of impurities running through and offers little resistance to the flow passage, characterised by very low head loss. The special cartridge does not obstruct the descent of the dirt into the accumulation zone in any way, therefore there is no danger of the particles being recovered by the flow running towards the outlet of the dirt separator



#### 3 Magnet

(Only available in the RBM Airterm Mag device)  
Powerful magnet to capture particles magnetic that are formed due to corrosion during the normal operation of a system



#### 4 Accumulation area

Large and very far from the flow passage, resulting in less frequent maintenance work

#### 5 Purge valve

Adjustable, with hose connector and safety cap



### Series 3602

#### MG Compact

**Compact self-cleaning magnetic sludge remover filter hydraulic systems. With drain ball cock. Suitable for boiler room.**

Main body in painted steel on the outside.  
Steel cover.  
Elastomer seals.  
AISI stainless steel filter cartridge

- Max operating pressure 10 Bar
- Max operating temperature 95 °C
- Neodymium magnet
- Filtering grade 100 µm

Features:



Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Outer	Cat.
3602.04.00	G 1/2"	5,50	1	1	20.03
3602.05.00	G 3/4"	9,87	1	1	20.03
3602.06.00	G 1"	16,59	1	1	20.03
3602.07.00	G 1"1/4	31,10	1	1	20.03
3602.08.00	G 1"1/2	50,60	1	1	20.03
3602.09.00	G 2"	81,00	1	1	20.03



### Series 3611

**Insulation casing consisting of semi-casings and expanded polyethylene cover with external antiscratch coating.**

Half-bearings fixed with double-sided adhesive tape already applied.

- Fire behaviour class I
- Density 33 kg/m<sup>3</sup>
- Max operating temperature -40 ÷ +90 °C

Code	Measure	Pack	Outer	Cat.
3611.00.02	1/2" ÷ 2"	1	1	20.03



Thermal insulation suitable for 3602 series MG Compact magnetic dirt separator filter insulation.



# H2O LAB

water treatment

## MG COMPACT

### Self-cleaning dirt separator with magnets for boiler rooms

**RBM MG Compact**, a self-cleaning multifunction dirt separator filter with magnets for boiler rooms, represents the best solution to solve plant problems due to pollution resulting from particles of sand and rust that form due to corrosion and incrustations during the normal operation of a system. Thanks to **its powerful magnetic capacity, its size and the flanged connections, MG Compact is used in industrial, commercial and medium and large scale civil systems.** Through its effective and constant action, the filter collects all the impurities present in the system, preventing them from circulating within it, thus avoiding wear and damage of all the components making up the system.

The impurities blocked by the filter accumulate inside the basket. Cleaning starts by opening the designated discharge valve. In this way all the **magnetic contaminants** (ferrous residues) and **non-magnetic** (algae, sludge, sand...) in the system are removed.



#### AVAILABLE INSTALLATION SETUPS:



Removes any impurity

Self-cleaning

Maintains optimum system efficiency

Application in industrial, commercial and medium and large-scale civil systems

Reinforced stainless steel filtering mesh with 100 micron filtering degree

Fitted with a dosage point to add treatment fluids, easily accessible

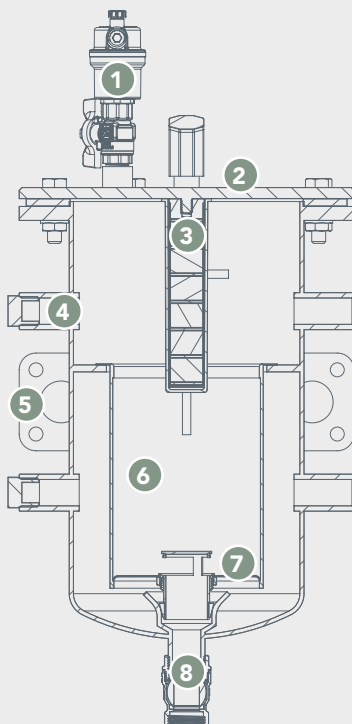
Limited overall dimensions (in relation to the product category)

Reversible couplings

Option of in-line installation on a heating system +

Reduced maintenance costs:

- > Magnets protected from contact with water, easy to clean
- > The large removable basket with check valve prevents impurities from falling into the filter
- > The large water content extends maintenance intervals
- > The possibility of cleaning the filter without emptying completely reduces the amount of chemical additives to be replenished after each maintenance operation



- 1 Automatic air vent valve**  
to eliminate air at the filling stage, complete with the ball shut-off valve.
- 2 Dosage point**  
to add treatment fluids. Easily accessible. Plugged when supplied. G 1/2" plug.
- 3 Magnetic filtering unit**  
powerful neodymium magnets to capture ferrous particles such as rust that form due to corrosion during the normal operation of a system, metal debris, processing residues, etc. The magnet assembly is protected from direct contact with water by a removable conduit that makes filter cleaning operations easier.
- 4 Sudden section increase**  
It causes the fluid to slow down. The settling of particles due to the effect of gravity is favoured.
- 5 Wall mounting bracket**
- 6 Filtering mesh**  
stainless steel stretched mesh (100 micron filtration degree) contained in a basket that can be easily pulled out from above. This is equipped with an automatic closing shutter, located at the bottom, to prevent leakage of impurities during maintenance.
- 7 Accumulation zone**  
Large and very far from the flow passage, resulting in less frequent maintenance work
- 8 Drain ball valve**  
Size 3/4"



### Series 3541

#### MG Plus

**Self-cleaning magnetic sludge remover filter for hydraulic systems. With drain ball cock. Suitable for boiler room.**

Main body and flanges in painted steel on the outside  
Steel cover  
Elastomer seals  
AISI stainless steel filter basket  
Pair of pressure gauges, 0-10 bar scale  
PN16 flanged couplings

- Max operating pressure 10 Bar
- Max operating temperature 95 °C
- Neodymium magnets
- Filtering grade 100 µm

Features:



Code	Measure	Kv (m³/h)	Pack	Outer	Cat.
3541.09.10	DN 50	14* - 23**	1	1	20.03
3541.10.10	DN 65	35* - 46**	1	1	20.03
3541.11.10	DN 80	42* - 57**	1	1	20.03
3541.13.10	DN 100	55* - 73**	1	1	20.03
3541.14.10	DN 125	100* - 131**	1	1	20.03
3541.15.10	DN 150	141* - 173**	1	1	20.03

\*Flow rate with 20 kPa pressure drop

\*\*Flow rate with 30 kPa pressure drop



Flange suitable for coupling with counter-flange UNI EN 1092-1.



### Series 3601

**Insulation casing consisting of semi-casings and expanded polyethylene cover with external antiscratch coating.**

Half-bearings fixed with double-sided adhesive tape already applied.

- Fire behaviour class I
- Density 33 kg/m³
- Max operating temperature -40 ÷ +90 °C

Code	Measure	Pack	Outer	Cat.
3601.09.02	DN 50	1	1	20.03
3601.10.02	DN 65	1	1	20.03
3601.11.02	DN 80	1	1	20.03
3601.13.02	DN 100	1	1	20.03
3601.14.02	DN 125	1	1	20.03
3601.15.02	DN 150	1	1	20.03



Thermal insulation suitable for 3541 series MG Plus magnetic dirt separator filter insulation.



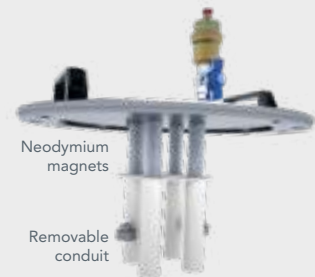
# H2O LAB

water treatment

## MG PLUS

### Self-cleaning dirt separator with magnets for boiler rooms

**RBM MG Plus**, a self-cleaning multifunction dirt separator filter with magnets for boiler rooms, represents the best solution to solve plant problems due to pollution resulting from particles of sand and rust that form due to corrosion and incrustations during the normal operation of a system. Thanks to its **powerful magnetic capacity, its size and the flanged connections, MG Plus is used in industrial, commercial and large-scale civil systems.** Through its effective and constant action, the filter collects all the impurities present in the system, preventing them from circulating within it, thus avoiding wear and damage of all the components making up the system. The impurities blocked by the filter accumulate inside the basket. Cleaning starts by opening the designated discharge valve. In this way all the magnetic contaminants (ferrous residues) and non-magnetic (algae, sludge, sand...) in the system are removed.



Removes any impurity

Self-cleaning

Maintains optimum system efficiency

Application in industrial, commercial and large-scale civil systems

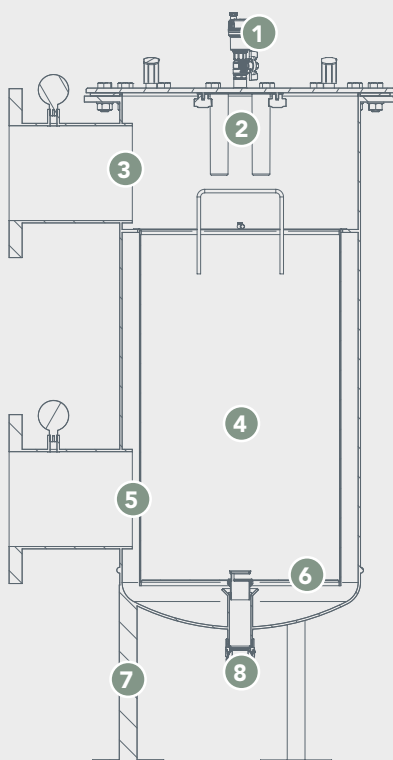
Reinforced stainless steel filtering mesh with 100 micron filtering degree

Fitted with a dosage point to add treatment fluids, easily accessible

Limited overall dimensions (in relation to the product category)

Reduced maintenance costs:

- > Magnets protected from contact with water, easy to clean
- > The large removable basket with check valve prevents impurities from falling into the filter
- > The large water content extends maintenance intervals
- > The possibility of cleaning the filter without emptying completely reduces the amount of chemical additives to be replenished after each maintenance operation



#### 1 Automatic air vent valve

to eliminate air at the filling stage, complete with the ball shut-off valve

#### 2 Magnetic filtering unit

powerful neodymium magnets to capture ferrous particles such as rust that form due to corrosion during the normal operation of a system, metal debris, processing residues, etc. The magnet assembly is protected by direct contact with water by a removable conduit that makes filter cleaning operations easier

#### 3 Sudden section increase

it causes the fluid to slow down. Average incoming speed: 2.5 m/s  
Average speed after the filter inlet: 0.2 m/s.  
The settling of particles due to the effect of gravity is favoured

#### 4 Filtering mesh

stainless steel stretched mesh (100 micron filtration degree) contained in a basket that can be easily pulled out from above. This is equipped with an automatic closing shutter, located at the bottom, to prevent leakage of impurities during maintenance

#### 5 Pair of pressure gauges

through the display of the differential pressure, it is possible to assess the degree of clogging of the filter

#### 6 Accumulation zone

Large and very far from the flow passage, resulting in less frequent maintenance work

#### 7 Base

adjustable height

#### 8 Drain ball valve

Size 1" 1/4



### Series 304.A

**Magnetic anti-scale device for physical treatment of water. Permanent annular magnets encapsulated in food-grade plastic polymer.**

External nickel plated brass body.  
Sintered ring magnet.  
Elastomer seals.  
Union threaded connections MM UNI-EN-ISO 228 up to 2".  
2"1/2 threaded connections (UNI-EN-ISO 228).

- Magnetic field 700 GAUS
- Residual induction from 2300 to 3700 GAUS
- Max operating pressure 16 Bar
- Max operating temperature 80 °C

Certifications:



Features:



Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Outer	Cat.
<b>304.04.00</b>	G 1/2"	10,20	1	6	20.03
<b>304.05.00</b>	G 3/4"	14,80	1	6	20.03
<b>304.06.00</b>	G 1"	26,00	1	6	20.03
<b>304.07.00</b>	G 1"1/4	30,40	1	1	20.03
<b>304.08.00</b>	G 1"1/2	63,00	1	1	20.03
<b>304.09.00</b>	G 2"	74,00	1	1	20.03
<b>304.10.00</b>	G 2"1/2	125,00	1	1	20.03
<b>304.11.00</b>	G 3"	160,00	1	1	20.03
<b>304.13.00</b>	G 4"	252,00	1	1	20.03



**4029.B****Chemical water treatment kit with MG1 dirt separator filter**

MG1, with its effective and constant action, collects all impurities in the system, preventing them from circulating within it. This prevents wear and damage to the rest of the system components, in particular circulators and heat exchangers. Spray Protect 1 is a professional multifunctional neutral product useful for inhibiting corrosion, lime deposits, noise in heating systems (and boilers), hydrogen formation inside radiators, microbial and algal growth in heating and cooling systems.

Spray Clean 4 is a neutral product for cleaning new and old systems from limestone and iron deposits, sludge, oily substances, grease, iron deposits, microbial and algal growth.

- The kit consists of:
- MG1, under-boiler magnetic sludge remover filter
- Spray Protect 1, protective spray for cooling and heating systems
- Spray Clean 4, spray can cleaner for heating and cooling systems

Code	Pack	Outer	Cat.
4029.05.00	1	4	20.03

**4030.B****Chemical water treatment kit with MG2 dirt separator filter**

MG2, with its effective and constant action, collects all impurities in the system, preventing them from circulating within it. This prevents wear and damage to the rest of the system components, in particular circulators and heat exchangers. Spray Protect 1 is a professional multifunctional neutral product useful for inhibiting corrosion, lime deposits, noise in heating systems (and boilers), hydrogen formation inside radiators, microbial and algal growth in heating and cooling systems.

Spray Clean 4 is a neutral product for cleaning new and old systems from limestone and iron deposits, sludge, oily substances, grease, iron deposits, microbial and algal growth.

- The kit consists of:
- MG2, under-boiler magnetic sludge remover filter
- Spray Protect 1, protective spray for cooling and heating systems
- Spray Clean 4, spray can cleaner for heating and cooling systems

Code	Pack	Outer	Cat.
4030.05.00	1	6	20.03



**4031.B****Chemical water treatment kit with filter for MP1 heat pumps**

MP1, with its effective and constant action, collects all impurities in the system, preventing them from circulating within it. This prevents wear and damage to the rest of the system components, in particular circulators and heat exchangers. The impurities stopped by the filter are accumulated on its bottom as long as the opening of the specific discharge cock allows the expulsion thereof.

Protective 100 is a professional multifunctional neutral product for inhibiting corrosion, lime deposits, noise in heating systems as well as boilers, hydrogen formation inside radiators, microbial and algal growth in heating and cooling systems.

Wash Clean 400 is a neutral product for cleaning new and old systems from limestone and iron deposits, sludge, oily substances, grease, iron deposits, microbial and algal growth.

- The kit consists of:
- MP1, under-boiler magnetic sludge remover filter
- Protective 100, protective agent for cooling and heating systems in 1 kg can
- Wash Clean 400, cleaner for heating and cooling systems in 1 kg can

Code	Pack	Outer	Cat.
4031.06.00	1	6	20.03

**4032.B****Chemical water treatment kit with filter for super-compact heat pump MP2**

MP2, with its effective and constant action, collects all impurities in the system, preventing them from circulating within it. This prevents wear and damage to the rest of the system components, in particular circulators and heat exchangers. The impurities stopped by the filter are accumulated on its bottom as long as the opening of the specific discharge cock allows the expulsion thereof.

Protective 100 is a professional multifunctional neutral product for inhibiting corrosion, lime deposits, noise in heating systems as well as boilers, hydrogen formation inside radiators, microbial and algal growth in heating and cooling systems.

Wash Clean 400 is a neutral product for cleaning new and old systems from limestone and iron deposits, sludge, oily substances, grease, iron deposits, microbial and algal growth.

- The kit consists of:
- MP2, super-compact magnetic sludge remover filter
- Protective 100, protective agent for cooling and heating systems in 1 kg can
- Wash Clean 400, cleaner for heating and cooling systems in 1 kg can

Code	Pack	Outer	Cat.
4032.06.00	1	6	20.03



**02.  
ENERGY  
EFFICIENCY**

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**20. WATER TREATMENT**

**20.04 CHEMICAL TREATMENT**

194

Condensation neutraliser filter  
Domestic polyphosphate dosers  
Chemical conditioners for air-conditioning circuits



### Series 3286

#### NT1 Acid condensation neutralising filter.

Transparent PA polyamide cartridge body.  
PA polyamide caps and hose connection fittings.  
Polymer fastening collar.  
AISI 304 stainless steel neutralising mesh door.  
Elastomer hydraulic seals.  
MgO-based neutralising bioceramic compound.

Kit inclusive of:

- Acid condensation neutralising filter;
- Fastening collar;
- Pair of elbow hose connection fittings;
- 2 MgO-based neutralising bioceramic compound loads.

Code	Size A	Size B	Pack	Outer	Cat.
3286.05.00	G 3/4"	DN 20	1	6	20.04



Warnings: RBM recommends replacing the residual load annually, at the end or beginning of the season, after the filter has been cleaned.  
Use RBM original parts exclusively (code 3290.00.00).



### Series 3287

#### Pair of straight hose connection fittings complete with flat seat seal.

PA polyamide fittings.

Code	Size A	Size B	Pack	Outer	Cat.
3287.05.16	3/4"	DN 16	6	60	20.04
3287.05.20	3/4"	DN 20	6	60	20.04



### Series 3288

#### Pair of elbow hose connection fittings complete with flat seat seal.

PA polyamide fittings.

Code	Size A	Size B	Pack	Outer	Cat.
3288.05.16	3/4"	DN 16	6	60	20.04
3288.05.20	3/4"	DN 20	6	60	20.04



### Series 3289

#### Insulation shell for NT1 anti-condensation filter made of expanded polyethylene half-bearings with external antiscratch coating.

Half-bearings fixed with velcro already applied.

- Fire behaviour class1
- Density 33 kg/m<sup>3</sup>
- Max operating temperature -40 ÷ +90 °C

Code	Measure	Pack	Outer	Cat.
3289.00.00	3/4"	1	5	20.04



Required with the installation of NT1 on outdoor boilers, with condensation discharge into the eaves.



### Series 3290

#### MgO-based neutralising bioceramic compound.

Code	Pack	Outer	Cat.
3290.00.00	10	40	20.04





# H2O LAB

water treatment

## NT1

### Acid condensation neutralising filter for condensing boilers

**Protects your discharge system against corrosion by neutralising the pH of condensation**

The installation of condensing boilers is spreading rapidly thanks to new regulatory requirements. However, these heat generators produce acid condensation which must be neutralised before disposal so that it cannot cause damage to the system piping and to the environment. By installing **RBM NT1** downstream of the boiler, condensation passes inside the neutralising cartridge which neutralises the pH causing to fall within the limits provided, to allow free draining without damaging pipes or gutters.

**From acid pH to alkaline pH thanks to a heart made of calcium carbonate granules.**



### PH ALWAYS UNDER CONTROL

NT1 allows the pH of the water discharged to be always maintained within an optimal range, even if the condensation liquid should remain in the filter for a long time (for example, in the case of switch-off due to inactivity, during the night, etc.).



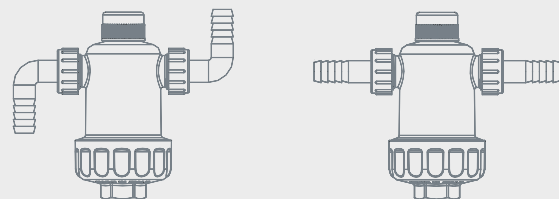
Fights corrosion by acid condensation

Resistant to chemicals dissolved in the steam which condenses in the boiler

Quick & easy maintenance

- 1 **Hose connection fittings**  
They allow quick and easy assembly
- 2 **Atmospheric vent cap**  
As required by the UNI 7129-05 standard. When removed, allows refilling of the neutralising medium
- 3 **Transparent body**  
Thanks to the transparent plastic body, the neutralizing medium level can be constantly monitored
- 4 **Neutralising medium**  
Contained in a stainless steel mesh, the neutralising medium has an operating time that varies according to the acidity, the amount of condensation to process and hours of operation of the boiler. Therefore, it must be refilled periodically and replaced in full every year.
- 5 **Closure cap**  
It facilitates cleaning operations of the stainless steel mesh.

**Install RBM NT1 always in a vertical position**





### Serie 3928

#### DP1 Polyphosphate doser.

Technopolymer body with high mechanical performance  
 EPDM PEROX hydraulic seals  
 Product charge: brilliant blue crystals of food grade polyphosphate in a glassy state (70 g)  
 Brass connection fitting can

- Max operating pressure 6 bar
- Operating temperature 0-30°C
- T°max for antiscaling actions 100°C
- T°max for anti-corrosive actions: 180°C
- Product dosage: max. 5mg/l of P2O5
- Charge duration: 35,000 l (approx. 6 months)

#### Polyphosphate doser

Code	Measure	Pack	Outer	Cat.
<b>3928.04.00</b>	1/2"	1	9	20.04

#### Reload

Code	Measure	Pack	Cat.
<b>4051.00.00</b>	1/2"	1	20.04



Protects systems against limescale and corrosion.  
 Supplied with nr. 1 refill of sodium polyphosphate.



### Serie 4161

#### In-line polyphosphate dispenser.

Technopolymer body with high mechanical performance  
 EPDM PEROX hydraulic seals  
 Product charge: brilliant blue crystals of food grade polyphosphate in a glassy state (70 g)  
 Brass connection fitting can

- Max operating pressure 6 bar
- Operating temperature 0-30°C
- T°max for antiscaling actions 100°C
- T°max for anti-corrosive actions: 180°C
- Product dosage: max. 5mg/l of P2O5
- Charge duration: 35,000 l (approx. 6 months)

Code	Measure	Kv (m <sup>3</sup> /h)	Cat.
<b>4161.04.00</b>	1/2"	6,03	20.04
<b>4161.05.00</b>	3/4"	6,03	20.04
<b>4161.06.00</b>	1"	6,03	20.04
<b>4161.22.00</b>	ø 22 mm	6,03	20.04
<b>4161.28.00</b>	ø 28 mm	6,03	20.04





## DP1

### Polyphosphate Doser

The **DP1** polyphosphate doser provides the water with a suitable antiscaling and **anti-corrosive treatment, leaving its potability characteristics unchanged.**

It is mainly applied upstream of domestic hot water supply systems, directly at the cold domestic water inlet to the boiler.

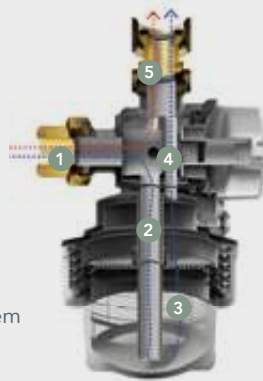
The DP1 polyphosphate doser has a small footprint, **simple and quick installation, low product consumption** and low maintenance costs. Equipped with a 1/2" swivel brass shank, it **adapts to all types of boilers**; the built-in shut-off system allows maintenance without the need for other shut-off devices. A polyphosphate charge is included in the package.

The use of polyphosphate silicates guarantees:

- Scaling inhibition. Helps reduce the formation of adherent deposits of insoluble carbonates on heat exchange surfaces.
- Attenuation of previous scaling (restorative effect). Progressive reduction of the layer of deposits formed in the installations in the absence of suitable chemical conditioning.
- Corrosion inhibition. Hinders corrosive phenomena by facilitating the formation of a protective film on parts in contact with water.

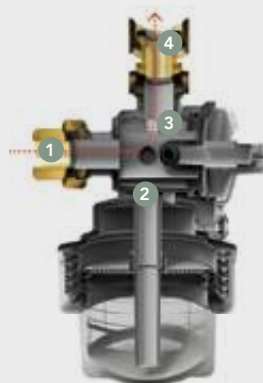
#### OPEN BYPASS MODE

- 1 Input flow
- 2 Passage through the filter cartridge
- 3 Passage through the polyphosphate doser
- 4 Treated water passage and subsequent entry into the system
- 5 Flow entry into the system



#### CLOSED BYPASS MODE

- 1 Input flow
- 2 Closed filtering chamber
- 3 Open by-pass
- 4 Flow entry into the system



#### THE FILTRATION PRINCIPLE

Scaling is the result of calcium and magnesium deposits on pipe walls, exchange surfaces and control and regulating parts.

The amount of deposit depends on:

- the temperature of the water;
- water hardness;
- the volume of water used.

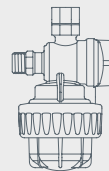
The sodium and potassium **polyphosphates** inside the container **combine with calcium and magnesium** ions to form a chemical compound similar to limescale but which cannot adhere to pipe surfaces. The precipitation of calcium and magnesium and **the consequent formation of lime deposits is prevented.**

In addition, polyphosphates are deposited on the surface of the pipes, forming a **protective film to protect them from fouling and remove already deposited limescale.**

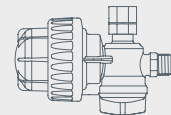
#### INSTALLATION

The polyphosphate doser is to be installed on the domestic cold water line at the boiler inlet. **It can be installed vertically or horizontally.**

**Do not install the DP1 in conditions of direct exposure to the weather,** and installation in environments where the temperature may fall below 5°C (frost danger) is not recommended.



VERTICAL INSTALLATION



HORIZONTAL INSTALLATION

Supercompact

High efficiency

Eliminates impurities

Fights corrosion

Increases the lifespan of the boiler

Maintains optimum system efficiency

Quick and easy to install

Limited overall dimensions





### Series 3917

#### Protective 100 Protection for heating and cooling systems.

Protective 100 is a neutral inhibitor of corrosion, limescale formation and even microbial growth and is suitable for both heating and air conditioning circuits, including those containing aluminium.

- Anticorrosive, anti-scaling and antifouling
- Inhibits corrosion, lime scale, microbial and algal growth
- Prevents the formation of hydrogen gas
- Effectively protects new and old systems
- Compatible with all metals, including aluminium
- Neutral, non-corrosive product that is easy to handle
- Insensitive to overdoses
- Helps prevent noise in the boiler
- Long-lasting product

Code	Pack	Outer	Cat.
3917.00.02	1	9	20.04



The dose of 1 litre of Protective 100 can treat:

- up to 200 l hydraulic content;
- up to 200 m<sup>2</sup> of radiant system;
- up to 20 radiators.

For best results, it is recommended to rinse the system well before applying the protective agent.



Avoid contact with eyes and skin. Use goggles and rubber gloves.

The solution of PROTECTIVE 100 in water at the recommended dosages complies with Italian Legislative Decree 152/06 and is discharged into the public sewage system. The product is compatible with most plastics.



### Series 3918.A

#### Wash Clean 400 Cleaner for heating and cooling systems.

Wash Clean 400 is a neutral product for cleaning new and existing heating and air conditioning systems. It cleans systems from limescale, microbial and algal growth, sludge, oily substances, grease and iron deposits.

The action of Wash Clean 400 restores the full efficiency of systems, boilers and heat pumps over time.

- Compatible with all metals, including aluminium
- Neutral, non-corrosive product that is easy to handle
- Insensitive to overdoses
- Restores normal system performance

Code	Pack	Outer	Cat.
3918.00.02	1	9	20.04



The dose of 1 litre of Wash Clean 400 can treat:

- up to 200 l hydraulic content;
- up to 200 m<sup>2</sup> of radiant system;
- up to 20 radiators.

It is possible to leave the system running during the cleaning action of Wash Clean 400.

RECOMMENDED ACTION TIME: 2 weeks of continuous circulation in hot and 4 weeks in cold.



Avoid contact with eyes and skin. Use goggles and rubber gloves. The solution of WASH CLEAN 400 in water at the recommended dosages complies with Italian Legislative Decree 152/06 and is discharged into the public sewage system. The product is compatible with most plastics.



### Series 3918.B

#### Wash Clean 400H Fast universal cleaner.

Wash Clean 400 is a fast sequestering neutral product for cleaning new or existing heating and air conditioning systems.

Product with a broad spectrum of action; removes deposits of limescale, iron oxides, sludge and bacterial filaments.

The action of Wash Clean 400H restores the full efficiency of systems, boilers and heat pumps.

- Suitable for boilers and heat pumps, both in heating and air conditioning
- Product for use in multi-material systems containing aluminium

Code	Pack	Outer	Cat.
3918.00.12	1	9	20.04



The dose of 1 litre of Wash Clean 400H can treat:

- up to 100 l hydraulic content;
- up to 100 m<sup>2</sup> of radiant system;
- up to 10 radiators.

It is possible to leave the system running during the cleaning action of Wash Clean 400H.

RECOMMENDED ACTION TIME: maximum 3 days or maximum one day if aluminium is present.

To be used as an alternative to Wash Clean 400 in the case of particularly compromised systems and/or clogged terminals, or when it is necessary to reduce the cleaning time.



Avoid contact with eyes and skin. Use goggles and rubber gloves. The solution of WASH CLEAN 400H in water at the recommended dosages complies with Italian Legislative Decree 152/06 and is discharged into the public sewage system. The product is compatible with most plastics.





### Series 3919

#### Eco Pump Loading pump.

Portable, manually pressurised container for loading chemicals into closed circuit air conditioning systems.  
Complete with safety valve.

- Maximum capacity: 3 litres
- Maximum pressure: 3 bar
- Loading hose: Ø 8 mm
- Supplied:
  - adjustable shoulder strap
  - dispensing gun with Ø 8 mm quick coupling
  - 1.5 metres of Ø 8x6 mm rilsan pipe
  - system connection fittings, Ø 8 mm quick coupling with male swivel connection with o-ring seal M 1/8", M 1/4" and M 3/4".

Code	Pack	Outer	Cat.
3919.00.02	1	48	20.04



Suitable for loading conditioning chemicals; the supplied fittings allow injection through all RBM physical and magnetic treatment devices.

Environmentally sustainable and cost-effective, it avoids the need for expensive spray cans, reduces waste management, is reusable, injects the right amount of product and overcomes the capacity limits of spray cans.



### Series 3907.A

#### Accessory for MG1 filter.

Ball valve for injecting the conditioning agent through the magnetic filter under the boiler.

Brass body.  
Rotary F 3/4" filter connection.  
Connection to RBM Eco Pump F 1/4".

Code	Pack	Outer	Cat.
3907.02.00	1	60	20.04



Can be combined with the swivel quick-coupling fitting supplied with the RBM Eco Pump.



### Series 3907.B

#### Accessory for MG2 filter.

Ball valve for injecting the conditioning agent through the magnetic filter under the boiler.

Brass body.  
MF 1/4" couplings

Code	Pack	Outer	Cat.
3907.02.10	1	150	20.04



Can be combined with the swivel quick-coupling fitting supplied with the RBM Eco Pump.





### Serie 4027

#### Spray Protect 1 Protection for heating and cooling systems

Spray Protect 1 is a professional multifunctional neutral product for the protection of new or existing heating and cooling systems.

Inhibits corrosion, lime scale, microbial and algal growth.

Prevents the formation of hydrogen gas.

- Compatible with all metals, including aluminium.
- Neutral, non-corrosive product that is easy to handle.
- Insensitive to overdoses.
- Long-lasting product.

Code	Pack	Cat.
4027.00.02	4	20.04



The dosage of Spray Protect 1 for optimal protection is 400 ml per 150 litres of system water.

Spray Protect 1 can be introduced directly into the full system either in a radiator through the vent valve, through the under-boiler dirt separator filter or anywhere where proper product dilution can take place. Avoid low points in the system.



Spray Protect 1 is intended for professional use in the treatment of heating and cooling systems only. The chemical treatment of domestic systems is regulated by UNI-CTI 8065/19.



### Serie 4028

#### Spray Clean 4 Cleaner for heating and cooling systems

Spray Clean 4 is a neutral product for cleaning new and existing heating and air conditioning systems. The Spray Clean 4 action restores full efficiency to the boiler and the devices within the circuits.

- Compatibility with METALS and ALLOYS at recommended dosages: steel, black iron, galvanised iron, stainless steel, copper, bronze, brass, aluminium.
- Compatibility with PLASTICS and RUBBERS at recommended dosages: generally compatible with most plastics.
- Compatible with propylene and ethylene glycols.

Code	Pack	Cat.
4028.00.02	4	20.04



The dosage of Spray Clean 4 for optimal cleaning is 400 litre per 150 litres of system water (0.26%).

Spray Clean 4 can be introduced directly into the full system either in a radiator through the vent valve, through the under-boiler dirt separator filter or anywhere where proper product dilution can take place. Avoid low points in the system.



Spray Clean 4 is intended for professional use in the treatment of heating and cooling systems only. The chemical treatment of domestic systems is regulated by UNI-CTI 8065/19.



### Series 304.B

#### Test kit to control water hardness.

Easy-to-use supplied with case.

Code	Pack	Outer	Cat.
304.00.02	1	1	20.04





# RBM Chemicals.



From the combination of the many years of experience of those who manufacture equipment and components and those who take care of their operation and maintenance comes the answer to caring for and **reducing the risk of degeneration of air conditioning systems** from damage caused by limescale deposits, sludge and bacterial filaments.

The maintenance and management experience gained on plants and heat generators has enabled the **continuous improvement and adaptation of the formulations of the chemicals** selected here, even against the risk of imperfect dosing or prolonged stationing within the circuits.



## Protective 100 Series 3917

### Neutral protective

1 litre of Protective 100 can treat:

- up to 200 litres of hydraulic content
- up to 200 m<sup>2</sup> of radiant system
- up to 20 radiators

Pack: 1 Kg



## Wash Clean 400 Series 3918.A

### Neutral universal cleaner

1 litre of Wash Clean 400 can treat:

- up to 200 litres of hydraulic content
- up to 200 m<sup>2</sup> of radiant system
- up to 20 radiators

Pack: 1 Kg



## Wash Clean 400H Series 3918.B

### Fast universal cleaner

1 litre of Wash Clean 400H can treat:

- up to 100 litres of hydraulic content
- up to 100 m<sup>2</sup> of radiant system
- up to 10 radiators

Pack: 1 Kg



## Spray protect 1 Series 4027

### Multi-purpose protective

The dosage of Spray protect 1 for optimal protection is 400 ml per 150 litres of system water.

Pack: 400 ml



## Spray clean 4 Series 4028

### Multi-purpose cleaner

The dosage of the cleaner Spray clean 4 for optimal cleaning is 400 ml per 150 litres of system water.

Pack: 400 ml



### Series 4066

#### Protect Dosing test kit

Rapid colorimetric test to verify the correct presence of Spray Protect 1 or Protective 100 liquid in the water of the air conditioning circuit. Suitable for the correct compilation of the plant logbook when the plant is started up for the first time and for subsequent periodic control checks. Complete with box, instruction sheet, 20 ml tube, 2 15 ml bottles of reagent product and one 25 ml bottle of control liquid. One pack allows about 25 tests to be performed.

- The pack includes:
- box
- instruction sheet
- 20 ml tube
- No. 2 x 15 ml bottles of reagent product
- No. 1 25 ml bottle of control liquid

Code	Pack	Outer	Cat.
4066.00.02	1	1	20.04





**02.**  
**ENERGY**  
**EFFICIENCY**

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**21. VALVES FOR RADIATOR AND TERMINAL CONTROL**

**21.01 VALVES FOR RADIATOR AND TERMINAL CONTROL**

**204**

- Thermostatic controls
- Electronic programmable thermostats
- Wireless programmable thermostats
- Valves with thermostatic option
- PICV valves with thermostatic option
- Accessories
- Manual valves
- Lockshield regulating valves

# TL1

Piero Lissoni



## The first thermostatic head of Design.

TL1 is an innovative thermostatic head for radiators and decorative radiators designed by Piero Lissoni. Defined by an ergonomic, refined and gentle shape, it is an element that combines aesthetics and functionality. The valve has been cleansed of any superstructure to enhance the purity of the cylinder: the essential becomes invisible. Experience the perfect balance of style and functionality.

### Plus.

- Exclusive design by Piero Lissoni
- Comfort
- Easy installation
- High energy efficiency
- Invisible adjustment
- Eco-sustainability
- 100% plastic free packaging

 Certified  
EN 215

### Production range



THERMOSTATIC HEAD



VALVES WITH THERMOSTATIC OPTION

Angle valve for copper/polyethylene pipe



TWO TYPES OF REGULATION LOCKSHIELDS

New corner holder for copper/polyethylene pipe



Corner holder for copper/polyethylene pipe



**Piero Lissoni** is an architect, designer and art director and is recognised as one of the masters of contemporary design. For more than thirty years, he has been developing international projects in architecture, interior, product design and graphic design. Lissoni has received numerous awards, including the Good Design Award, the Red Dot Award and the ADI Compasso d'Oro.





### Series 3937

#### TL1 by Piero Lissoni

##### Thermostatic head. Internal sensitive element with liquid expansion.

Prearranged for temperature limitation and anti-tampering blockage.

- Max storage temperature 50 °C
- Anti-freeze triggering (\*) 7 °C
- Setting field (1 ÷ 5) +10 ÷ +30 °C
- Hysteresis 0.3 °C
- Max differential pressure (in flow direction) 1 bar
- Max differential pressure (in return direction) 0.6 bar
- Thermostatic ethyl-acetate bulb liquid

Certifications:



Code	Model	Pack	Outer	Cat.
<b>3937.00.00*</b>	TL1	10	100	21.01

\*Licensed use of trademark no. 43



### Series 4196

#### Pair of temperature limiting inserts for TL1 thermostatic head.

For example to block the knob at position 3 (T=20 °C), insert the specific inserts in the two slots close to number 20 on the fixed knob.

To limit the adjustment to a greater value, move the inserts to the desired positions.

Code	Pack	Outer	Cat.
<b>4196.00.00</b>	1	10	21.01



Pair of inserts already included in the supply of the TL1 thermostatic head.  
Inserts compatible with TL1 thermostatic head.



TL10

TL30



TL70

TL10W



TL20

### Series 590.A

#### Thermostatic control for thermostatically-controlled valves. Internal sensitive element with liquid expansion.

Prearranged for temperature limitation and anti-tampering blockage.

- Max storage temperature 50 °C
- Anti-freeze triggering (\*) 7 °C
- Setting field (1 ÷ 5) +10 ÷ +30 °C
- Hysteresis 0.3 °C
- Max differential pressure (head mounted on valve) 1 Bar
- Thermostatic ethyl-acetate bulb liquid
- Distance sensor cable length 2m (series TL 20)

Certifications:



Features:



#### Thermostatic head with liquid expansion sensor

Code	Model	Pack	Outer	Cat.
<b>590.00.00*</b>	TL10	10	100	21.01
<b>720.00.30*</b>	TL30	10	100	21.01
<b>2633.00.00*</b>	TL70	10	100	21.01
<b>3087.00.00**</b>	TL10W	1	50	21.01

\*Licensed use of trademark no. 43

\*\*Reduced W value

#### Thermostatic head with distance sensor

Code	Model	Pack	Outer	Cat.
<b>590.00.10*</b>	TL20	1	25	21.01
<b>2633.00.00*</b>	TL70	10	100	21.01

\*Licensed use of trademark nr. 43



Liquid expansion sensor (TL10 - TL30 - TL70 - TL10W).  
High energy efficiency.  
Approved in Class I.





### Series 209

#### Pair of temperature limiting inserts for RBM thermostatic head.

For example to block the knob at position 3 (T=20 °C), insert the specific inserts in the two slots close to number 20 on the fixed knob.

To limit the adjustment to a wider value, move the inserts to the desired positions.

Code	Pack	Outer	Cat.
<b>209.00.00</b>	1	50	21.01



Pair of inserts already included in the supply of the RBM thermostatic head.  
Inserts compatible with RBM thermostatic head model TL10 - TL30 - TL70 - TL10W - TL20.



### Series 2274

#### Vandal proof and anti-tampering knob for thermostatic heads TL10, TL30, TL70, TL10W, TL20 (Figure 1).

Specific tool for mounting vandal proof knob (Figure 2).

Code	Figure	Pack	Outer	Cat.
<b>227.40.05*</b>	1+2	6	6	21.01
<b>227.30.05**</b>	2	1	1	21.01

\* A 6-knob package includes a mounting tool code 2273.005

\*\*Tool supplied together with 12 fixing screws



### Series 316

#### Vandal proof clamp for RBM thermostatic heads.

The RBM thermostatic heads can be equipped with a vandal proof clamp allowing it to be removed by just using the specific tool (code 2151.005).

Code	Figure	Pack	Outer	Cat.
<b>316.00.10</b>	1	1	20	21.01
<b>215.10.05</b>	2	2	2	21.01
<b>316.00.00</b>	1+2	1	20	21.01





### Series 2835

**Thermostatic control for thermostatically-controlled valves. The remote control makes programming easier in any installation situation.**

- Anti freezing protection: 8 °C
- Calibration field:  $(1 \div 5) 12 \div +28$  °C
- Remote control cable length: 2m

Code	Pack	Outer	Cat.
2835.00.02	1	1	21.01



Liquid expansion sensor.  
Remote command It makes installation procedures easier.



### Series 3400

**Digital electronic wireless chronothermostatic control with weekly programme, for valves with thermostatic option.**

Designed to receive the wireless signal from the RBM range of central heating timers.

- Power supply: 2 1,5V AA type batteries (included)
- Autonomy: 2 years (low battery signal)
- Functioning: - Automatic with two temperature levels (comfort and economy) or manual by means of the select dial
- Daily switchings: 4 in comfort mode and 4 in economy mode
- Functioning temperature:  $0 \div +50$  °C
- Anti-freeze protection temperature: 6 °C
- IP30 degree of protection
- Size (l x h x p): 52x83x65 mm

Certifications:



Features:



Code	Model	Pack	Outer	Cat.
3400.00.02	wireless	1	1	21.01



Provide for combination with the 3406 or 3405 series wireless weekly chronothermostat.  
Complete supply of adapters for coupling with valves with thermostatic option of different manufacturers (Danfoss, Junkers, Honeywell etc...)





### Series 3401

#### Flush-mounted remote actuator with wireless receiver, for thermostats and chronothermostats.

- Power supply 230Vac (-15% ÷ +10%) 50/60 Hz
- Output: bistable relay with breaking capacity of 16(8)A/250Vac
- Maximum distance from the transmitter: 30 metres in a residential home environment
- Antenna tuned to 433.92 MHz
- Operating temperature: 0 - 40° C
- Storage temperature: -10° C ÷ +70° C
- Container: suitable for flush-mounted box (takes up the space of a module)
- Protection rating: IP20

Certifications:



Features:



Code	Model	Pack	Outer	Cat.
3401.00.12	RX.16A	1	1	21.01



To be combined with 3405 and 3406 series RBM chronothermostats.



### Series 3404.A

#### Remote actuator for chronothermostats, with wireless receiver.

- Outputs 6 relay with 5A/250V AC normally open contact for zone valve actuation
- Outputs 1 relay with 5A/250V AC normally open contact for system circulator actuation
- 230V AC 50/60Hz power supply
- connection of an external antenna (included)
- Operating frequency: 433.92 Mhz
- DIN bar installation
- Dimensions mm (lxhxd) 72x87x65

Features:



Code	Model	Pack	Outer	Cat.
3404.00.02	RX7	1	1	21.01



Actuator provided with antenna.  
To be combined with 3405 and 3406 series RBM chronothermostats.



### Series 3463

#### Antenna for remote actuator.

- Cable length: 4.5 m
- Frequency range: 433.92 ±10 MHz
- Input impedance: 50 ohm

Code	Pack	Outer	Cat.
3463.00.02	1	1	21.01





### Series 3406

#### Wireless digital weekly chronothermostat.

Combined with RBM remote actuators, it controls the ambient temperature. 3 operating modes: automatic (on 3 temperature values), manual (with manual temperature), off (with anti-freeze temperature). Programming: 7 programs for winter operation (editable) and 7 programs for summer operation (editable).

- Power supply: 1 1.5V AA battery (included)
- Autonomy: 2 years
- Charge backup: 1 minute (to change batteries)
- Differential: settable between 0.1°C and 1°C
- Temperature adjustment range: +2°C ÷ +35°
- Precision: ± 0.5°C
- Operating temperature 0 ÷ +50°C
- Size (lxhxd): 132x95x26 mm

Certifications:



Features:



Code	Model	Pack	Outer	Cat.
3406.00.00	wireless	1	1	21.01



Installation on wall or box 503



### Series 3405

#### Wireless digital weekly chronothermostat with built-in GSM module.

Combined with RBM remote actuators, it controls the ambient temperature. The wireless module is used to control, regardless of the temperature reading, up to 7 other remote actuators connected to the same number of electrical loads. With the built-in GSM module, the central heating timer can be remotely controlled by sending an SMS from your smartphone or using a specifically developed APP.

3 operating modes: automatic (on 3 temperature values), manual (with manual temperature), off (with anti-freeze temperature). Programming: 7 programs for winter operation (editable) and 7 programs for summer operation (editable).

- Power supply: 230V ac - 50/60 Hz
- 1 1.5V AA backup battery (included)
- Display: LCD without backlighting
- Programming: weekly
- Programming resolution: 1 hour
- Measurement resolution: 0.1 °C
- Temperature adjustment range: +2°C ÷ +50°
- Colour: White
- Size (lxhxd): 132x95x36 mm

Certifications:



Features:



Code	Model	Pack	Outer	Cat.
3405.00.00	wireless GSM	1	1	21.01



Installation on wall or box 503.  
GSM board not included in supply



# RBM THERMOSTATIC VALVE WITH LOW THERMAL INERTIA



The RBM thermostatic valves and the thermostatic heads are certified in accordance with **European Standard UNI EN 215 (ED. 2007) "Thermostatic valves for radiators. Requirements and test methods"**.

The Standard conformity certifications are guaranteed by the certificates granting use of trademark no. 43, issued by the certifying body.

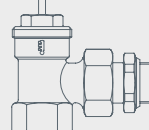


Valvola termostatica

- 1 **Liquid expansion thermostatic sensor**  
Higher Sensitivity.
- 2 **Pole with vulcanized elastomer disc**  
Elastomer directly vulcanized on the pole disc:
  - Avoids noise
  - Disc does not stick on the valve seat.
- 3 **RFS radiator sealing made in PTFE**  
Water sealing vs leakage is assured for a long lasting time.
- 4 **"Heavy" Lockshield valve**  
Micrometric setting! Perfect for balancing.  
KVS values (min. 9 values) can be set through the hand wheel on the top.



STEM NUT  
OR SEAL



Possibility of maintenance service while system is in operation.

**TELL**

Thermostatic Efficiency Label

Thermostatic Valve RBM High Energy Efficiency: Class I approved!



The valves' certification in accordance with Standard UNI EN 215, is the RBM thermostatic valve and head combination.





### Series 31

#### Angle valve with thermostatic option for iron pipe, complying with standard UNI-EN 215.

Nickel brass body.  
Double seal obturator.  
Elastomer seals.  
Shockproof ABS handwheel.  
Threaded angled connection F UNI-EN-ISO 228 for iron pipe.  
Connection to terminal through threaded M RFS (UNI-EN-ISO 228) with PTFE pre-gasket ogive (only for 3/8" and 1/2" diameters).

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Certifications:



Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Outer	Cat.
<b>31.03.00</b>	G 3/8"	2,45	10	100	21.01
<b>31.04.00</b>	G 1/2"	2,45	10	100	21.01
<b>31.05.00</b>	G 3/4"	-	10	60	21.01

Licensed use of trademark no. 43 (3/8" - 1/2")



Use only series 9 lockshield valve with 3/4" and 1" valves (see page 232).



### Series 32

#### Straight valve with thermostatic option for iron pipe, complying with standard UNI-EN 215.

Nickel brass body.  
Double seal obturator.  
Elastomer seals.  
Shockproof ABS handwheel.  
Threaded straight connection F UNI-EN-ISO 228 for iron pipe.  
Connection to terminal through threaded M RFS (UNI-EN-ISO 228) with PTFE pre-gasket ogive (only for 3/8" and 1/2" diameters).

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Certifications:



Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Outer	Cat.
<b>32.03.00*</b>	G 3/8"	1,60	10	100	21.01
<b>32.04.00*</b>	G 1/2"	1,60	10	100	21.01
<b>32.05.00</b>	G 3/4"	-	10	50	21.01
<b>2641.06.90</b>	G 1"	-	5	20	21.01

\*with RFS

Licensed use of trademark no. 43 (3/8" - 1/2")



Use only series 10 lockshield valve with 3/4" and 1" valves (see page 232).



### Series 48

#### Angle valve with thermostatic option for copper or polyethylene pipe, complying with standard UNI-EN 215.

Nickel brass body.  
Double seal obturator.  
Elastomer seals.  
Shockproof ABS handwheel.  
RBM standard threaded angled M connection, for copper, polyethylene and multilayer pipe fittings.  
Connection to terminal through threaded M RFS (UNI-EN-ISO 228) with PTFE pre-gasket ogive.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Certifications:



Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Outer	Cat.
<b>48.03.00*</b>	G 3/8"	2,45	10	100	21.01
<b>48.04.00*</b>	G 1/2"	2,45	10	100	21.01

\*with RFS

Licensed use of trademark no. 43



Use fittings with RBM Standard thread for pipe connection.





### Series 49

#### Thermostatic straight valve for copper or polyethylene pipe, complying with standard UNI-EN 215.

Nickel brass body.  
Double seal obturator.  
Elastomer seals.  
Shockproof ABS handwheel.  
RBM standard threaded straight M connection for copper, polyethylene and multilayer pipe fittings.  
Connection to terminal through threaded M RFS (UNI-EN-ISO 228) with PTFE pre-gasket ogive.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Certifications:



Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Outer	Cat.
<b>49.03.00*</b>	G 3/8"	1,60	10	100	21.01
<b>49.04.00*</b>	G 1/2"	1,60	10	100	21.01

\*with RFS

Licensed use of trademark no. 43



Use fittings with RBM Standard thread for pipe connection.



### Series 179

#### Inverse angle valve with thermostatic option for iron pipe.

Nickel brass body.  
Double seal obturator.  
Elastomer seals.  
Shockproof ABS handwheel.  
Threaded angled connection F UNI-EN-ISO 228 for iron pipe.  
Connection to terminal through threaded M RFS (UNI-EN-ISO 228) with PTFE pre-gasket ogive.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Certifications:



Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Outer	Cat.
<b>179.03.00*</b>	G 3/8"	0,99	10	100	21.01
<b>179.04.00*</b>	G 1/2"	0,99	10	100	21.01

\*with RFS



### Series 180

#### Inverse angle valve with thermostatic option for copper or polyethylene pipe

Nickel brass body.  
Double seal obturator.  
Elastomer seals.  
Shockproof ABS handwheel.  
RBM standard threaded straight M connection for copper, polyethylene and multilayer pipe fittings.  
Connection to terminal through threaded M RFS (UNI-EN-ISO 228) with PTFE pre-gasket ogive.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Certifications:



Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Outer	Cat.
<b>180.03.00*</b>	G 3/8"	0,99	10	100	21.01
<b>180.04.00*</b>	G 1/2"	0,99	10	100	21.01

\*with RFS



Use fittings with RBM Standard thread for pipe connection.





### Series 395

#### Angle valve with thermostatic option for iron tube with reversible connections and orthogonal command.

Nickel brass body.  
Double seal obturator.  
Elastomer seals.  
Shockproof ABS handwheel.  
Straight threaded connections F UNI-EN-ISO 228 for iron pipe, reversible.  
Connection to terminal through threaded M RFS (UNI-EN-ISO 228) with PTFE pre-gasket ogive.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Outer	Cat.
395.03.00*	G 3/8"	1,55	10	100	21.01
395.04.00*	G 1/2"	1,60	10	100	21.01



System side reversible connections with closing cap of unused way.



To turn the valves for iron pipes into valves for copper or polyethylene pipes, provide for the adapter fitting code 83.0X.00 (see page 102).



### Series 2078

#### Jet-Line Series: thermostatic kit with thermostatic angle valve for iron pipe, compliant with standard UNI-EN 215 and angle lockshield valve for iron pipe.

Nickel brass body.  
Double seal obturator.  
Elastomer seals.  
Shockproof ABS handwheel.  
Liquid expansion thermostatic command TL30 with built-in sensor.  
Threaded angled connection F UNI-EN-ISO 228 for iron pipe.  
Connection to threaded terminal M UNI-EN-ISO 228.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Certifications:



Code	Measure	Pack	Outer	Cat.
2078.03.00	3/8"	10	100	21.01
2078.04.00	1/2"	10	100	21.01

\* Licensed use of trademark no. 43



Supplied with:  
valve with thermostatic option;  
liquid expansion thermostatic head;  
lockshield valve.  
Kit components supplied in separate packages.



### Series 2079

#### Jet-Line Series: thermostatic kit with thermostatic straight valve for iron pipe, compliant with standard UNI-EN 215 and straight lockshield valve for iron pipe.

Nickel brass body.  
Double seal obturator.  
Elastomer seals.  
Shockproof ABS handwheel.  
Liquid expansion thermostatic command TL30 with built-in sensor.  
Threaded straight connection F UNI-EN-ISO 228 for iron pipe.  
Connection to threaded terminal M UNI-EN-ISO 228.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Certifications:



Code	Measure	Pack	Outer	Cat.
2079.03.00	3/8"	10	100	21.01
2079.04.00	1/2"	10	100	21.01

\* Licensed use of trademark no. 43



Supplied with:  
valve with thermostatic option;  
liquid expansion thermostatic head;  
lockshield valve.  
Kit components supplied in separate packages.





### Series 2080

**Jet-Line Series: thermostatic option kit with thermostatic option angle valve for iron pipe, compliant with standard UNI-EN 215 and angle lockshield valve for iron pipe.**

Nickel brass body.  
Double seal obturator.  
Elastomer seals.  
Shockproof ABS handwheel.  
Threaded angled connection F UNI-EN-ISO 228 for iron pipe.  
Connection to threaded terminal M UNI-EN-ISO 228.

- Max operating temperature 110°C
- Max operating pressure 10 Bar

Certifications:



Code	Measure	Pack	Outer	Cat.
2080.03.00	3/8"	10	100	21.01
2080.04.00	1/2"	10	100	21.01

\* Licensed use of trademark no. 43



Supplied with:  
valve with thermostatic option;  
lockshield valve.  
Kit components supplied in separate packages.



### Series 2081

**Jet-Line Series: thermostatic option kit with thermostatic option straight valve for iron pipe, compliant with standard UNI-EN 215 and straight lockshield valve for iron pipe.**

Nickel brass body.  
Double seal obturator.  
Elastomer seals.  
Shockproof ABS handwheel.  
Threaded straight connection F UNI-EN-ISO 228 for iron pipe.  
Connection to threaded terminal M UNI-EN-ISO 228.

- Max operating temperature 110°C
- Max operating pressure 10 Bar

Certifications:



Code	Measure	Pack	Outer	Cat.
2081.03.00	3/8"	10	100	21.01
2081.04.00	1/2"	10	100	21.01

\* Licensed use of trademark no. 43



Supplied with:  
valve with thermostatic option;  
lockshield valve.  
Kit components supplied in separate packages.



### Series 1342

**Jet-Line Series: thermostatic kit with thermostatic angle valve for copper or polyethylene pipe, compliant with standard UNI-EN 215 and angle lockshield valve for copper or polyethylene pipe.**

Nickel brass body.  
Double seal obturator.  
Shockproof ABS handwheel.  
Elastomer seals.  
Liquid expansion thermostatic command TL30 with built-in sensor.  
Threaded angled M standard RBM connection for copper, polyethylene, multilayer pipe fittings.  
Connection to threaded terminal M UNI-EN-ISO 228.

- Max operating temperature 110°C
- Max operating pressure 10 Bar

Certifications:



Code	Measure	Pack	Outer	Cat.
1342.03.00	RBM 3/8"	10	100	21.01
1342.04.00	RBM 1/2"	10	100	21.01

\* Licensed use of trademark no. 43

System side standard RBM thread W 24.5x19F



Supplied with:  
valve with thermostatic option;  
liquid expansion thermostatic head;  
lockshield valve.  
Use fittings with RBM Standard thread for pipe connection.  
Kit components supplied in separate packages.





### Series 1343

**Jet-Line Series: thermostatic kit with thermostatic straight valve for copper or polyethylene pipe, compliant with standard UNI-EN 215 and straight lockshield valve for copper or polyethylene pipe.**

Nickel brass body.  
Double seal obturator.  
Shockproof ABS handwheel.  
Elastomer seals.  
Liquid expansion thermostatic command TL30 with built-in sensor.  
Threaded straight M standard RBM connection for copper, polyethylene, multi-layer pipe fittings.  
Connection to threaded terminal M UNI-EN-ISO 228.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Certifications:



Code	Measure	Pack	Outer	Cat.
1343.03.00	RBM 3/8"	10	100	21.01
1343.04.00	RBM 1/2"	10	100	21.01

\* Licensed use of trademark no. 43

System side standard RBM thread W 24.5x19F



Supplied with:  
valve with thermostatic option;  
liquid expansion thermostatic head;  
lockshield valve.  
Use fittings with RBM Standard thread for pipe connection.  
Kit components supplied in separate packages.



### Series 1344

**Jet-Line Series: thermostatic option kit with thermostatic option angle valve for copper or polyethylene pipe, compliant with standard UNI-EN 215 and angle lockshield valve for copper or polyethylene pipe.**

Nickel brass body.  
Double seal obturator.  
Shockproof ABS handwheel.  
Elastomer seals.  
Threaded angled M standard RBM connection for copper, polyethylene, multilayer pipe fittings.  
Connection to threaded terminal M UNI-EN-ISO 228.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Certifications:



Code	Measure	Pack	Outer	Cat.
1344.03.00	RBM 3/8"	10	100	21.01
1344.04.00	RBM 1/2"	10	100	21.01

\* Licensed use of trademark no. 43

System side standard RBM thread W 24.5x19F



Supplied with:  
valve with thermostatic option;  
lockshield valve.  
Use fittings with RBM Standard thread for pipe connection.  
Kit components supplied in separate packages.



### Series 1345

**Jet-Line Series: thermostatic option kit with thermostatic option straight valve for copper or polyethylene pipe, compliant with standard UNI-EN 215 and straight lockshield valve for copper or polyethylene pipe.**

Nickel brass body.  
Double seal obturator.  
Shockproof ABS handwheel.  
Elastomer seals.  
RBM standard threaded straight M connection for copper, polyethylene and multilayer pipe fittings.  
Connection to threaded terminal M UNI-EN-ISO 228.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Certifications:



Code	Measure	Pack	Outer	Cat.
1345.03.00	RBM 3/8"	10	100	21.01
1345.04.00	RBM 1/2"	10	100	21.01

\* Licensed use of trademark no. 43

System side standard RBM thread W 24.5x19F



Supplied with:  
valve with thermostatic option;  
lockshield valve.  
Use fittings with RBM Standard thread for pipe connection.  
Kit components supplied in separate packages.





PRE-SETTING

### Series 2640

#### Angle radiator valve for iron pipe with thermostatic option and pre-setting.

Nickel brass body.  
Double seal obturator.  
Elastomer seals.  
Shockproof ABS handwheel.  
Threaded angled connection F UNI-EN-ISO 228 for iron pipe.  
Connection to threaded terminal M UNI-EN-ISO 228.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Certifications:



Code	Measure	Pack	Outer	Cat.
2640.03.90	G 3/8"	10	100	21.01
2640.04.90	G 1/2"	10	100	21.01
2640.05.90	G 3/4"	10	60	21.01
2640.06.90	G 1"	5	20	21.01

Licensed use of trademark no. 43 (3/8" - 1/2")



Valve with thermostatic option and pre-setting.  
Use spanner code 2878.00.00 (see page 132) to adjust Kvs values.  
Use only series 9 lockshield valve with 3/4" and 1" valves (see page 232).



PRE-SETTING

### Series 2641

#### Straight radiator valve for iron pipe with thermostatic option and pre-setting.

Nickel brass body.  
Double seal obturator.  
Elastomer seals.  
Shockproof ABS handwheel.  
Threaded straight connection F UNI-EN-ISO 228 for iron pipe.  
Connection to threaded terminal M UNI-EN-ISO 228.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Certifications:



Code	Measure	Pack	Outer	Cat.
2641.03.90	G 3/8"	10	100	21.01
2641.04.90	G 1/2"	10	100	21.01
2641.05.90	G 3/4"	10	50	21.01
2641.06.90	G 1"	5	20	21.01

Licensed use of trademark no. 43 (3/8" - 1/2")



Valve with thermostatic option and pre-setting.  
Use spanner code 2878.00.00 (see page 132) to adjust Kvs values.  
Use only series 10 lockshield valve with 3/4" and 1" valves (see page 232).



PRE-SETTING

### Series 2642

#### Angle radiator valve for copper and polyethylene pipe with thermostatic option and pre-setting.

Nickel brass body.  
Double seal obturator.  
Elastomer seals.  
Shockproof ABS handwheel.  
Threaded angled M standard RBM connection for copper, polyethylene, multilayer pipe fittings.  
Connection to threaded terminal M UNI-EN-ISO 228.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Certifications:



Code	Measure	Pack	Outer	Cat.
2642.03.90	G 3/8"	10	100	21.01
2642.04.90	G 1/2"	10	100	21.01

Licensed use of trademark no. 43



Valve with thermostatic option and pre-setting.  
Use fittings with RBM Standard thread for pipe connection.  
Use spanner code 2878.00.00 (see page 132) to adjust Kvs values.





### Series 2643

#### Straight radiator valve for copper and polyethylene pipe with thermostatic option and pre-setting.

Nickel brass body.  
Double seal obturator.  
Elastomer seals.  
Shockproof ABS handwheel.  
Threaded straight M standard RBM connection for copper, polyethylene, multi-layer pipe fittings.  
Connection to threaded terminal M UNI-EN-ISO 228.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Certifications:



Code	Measure	Pack	Outer	Cat.
2643.03.90	G 3/8"	10	100	21.01
2643.04.90	G 1/2"	10	100	21.01

Licensed use of trademark no. 43



Valve with thermostatic option and pre-setting.  
Use fittings with RBM Standard thread for pipe connection.  
Use spanner code 2878.00.00 (see page 132) to adjust Kvs values.



### Series 2720

#### Radiator reversible valve for iron pipe with thermostatic option and pre-setting.

Nickel brass body.  
Double seal obturator.  
Elastomer seals.  
Shockproof ABS handwheel.  
Straight threaded connections F UNI-EN-ISO 228 for iron pipe, reversible.  
Connection to threaded terminal M UNI-EN-ISO 228.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Code	Measure	Pack	Outer	Cat.
2720.03.90	G 3/8"	10	10	21.01
2720.04.90	G 1/2"	10	10	21.01



Valve with thermostatic option and pre-setting.  
System side reversible connections with closing cap of unused way.  
Use spanner code 2878.00.00 (see page 132) to adjust Kvs values.  
To turn the valves for iron pipes into valves for copper or polyethylene pipes, provide for the adapter fitting code 83.0X.00 (see page 102)



### Series 1028

#### "Termoflux" 4-way thermostatically controlled valve for single pipe circuits.

Nickel brass body.  
Built-in micrometric lockshield valve.  
Elastomer seals.  
Shockproof ABS cap and handwheel.  
Polymer probe.  
In-line connections, centre distance 37 mm M standard RBM thread for copper, polyethylene and multilayer pipe fittings.  
Threaded radiator connection M UNI-EN-ISO 228.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar
- Probe length 295 mm
- 1/2" probe outside diameter 10 mm
- 3/4" probe outside diameter 13 mm

Code	Measure	Model	Pack	Outer	Cat.
1028.04.00	G 1/2"	Termoflux	4	16	21.01
1028.05.00	G 3/4"	Termoflux	4	16	21.01



Use fittings with RBM Standard thread for pipe connection.





# THERMOSTATIC VALVE WITH PRE-SETTING



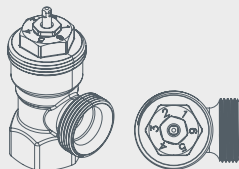
Thanks to a special internal device they allow the pre-setting of the head loss quickly and effectively.

The use in combination with thermostatic heads makes it possible to keep the ambient temperature constant, thus guaranteeing an effective energy saving.



- 1 Micrometric setting**  
KVS values can be set through the pole on the top of the cap unit, simply using the adjustment tool.  
**6 Kvs values for pre-setting**

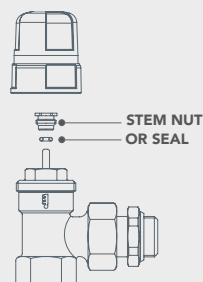
- 3 Adjustment tool**  
**4 Cap unit for pre-setting**



- 2 Pole with vulcanized elastomer disc**  
Elastomer directly vulcanized on the pole disc:
- Avoids noise
  - Disc does not stick on the valve seat



## LIQUID EXPANSION THERMOSTATIC SENSOR. HIGHER SENSITIVITY!



Possibility of maintenance service while system is in operation.





### Series 3101

#### 4-way valve with thermostatic option with variable centre distance and pre-setting, for single pipe and dual pipe circuits.

Nickel brass body.  
Built-in micrometric lockshield valve.  
Elastomer seals.  
Shockproof ABS cap and handwheel.  
Polymer probe.  
In-line connections, variable centre distance 35 ÷ 40 mm M standard RBM thread for copper, polyethylene and multilayer pipe fittings.  
Threaded radiator connection M UNI-EN-ISO 228.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar
- Probe length 110/300 mm
- Probe outside diameter 11 mm

Code	Measure	Pack	Outer	Cat.
3101.04.00	G 1/2"	4	16	21.01
3101.05.00	G 3/4"	4	16	21.01
3101.06.00	G 1"	4	16	21.01



Valve with thermostatic option and pre-setting.



Use fittings with RBM Standard thread for pipe connection.  
Use spanner code 2878.00.00 (see page 132) to adjust Kvs values.



### Series 754

#### 4-way single pipe/dual pipe valve with thermostatic option for bathroom terminals.

Nickel brass body.  
Elastomer seals.  
Shockproof ABS cap and handwheel.  
Brass probe.  
Built-in micrometric lockshield valve.  
Suitable for single pipe and dual pipe systems.  
In-line connections, centre distance 37 mm M standard RBM thread for copper, polyethylene and multilayer pipe fittings.  
Threaded connections to radiator M UNI-EN-ISO 228 with pre-gasket ogive in PTFE.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar
- Kv mod. with thermostatic option 1.80 m<sup>3</sup>/h
- Kv mod. thermostatic 1.44 m<sup>3</sup>/h
- Probe length 300 mm
- Probe outside diameter. 10 mm
- Flow rate at radiator Adjustable bypass

Code	Measure	Pack	Outer	Cat.
754.04.00	G 1/2"	4	16	21.01



For connection to radiators.  
Use fittings with RBM Standard thread for pipe connection.



### Series 223

#### Kit for heating units fed by single pipe and double pipe circuits.

Nickel brass body.  
Elastomer seals.  
Shockproof ABS cap and handwheel.  
Built-in micrometric lockshield valve.  
Internal bypass with 50% bore only for single pipe applications.  
In-line connections, centre distance 37 mm M standard RBM thread for copper, polyethylene and multilayer pipe fittings.  
Connections for external probe Ø 15 mm.  
Threaded connections to terminal M UNI-EN-ISO 228 with pre-gasket ogive in PTFE.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar
- Probe not included.

Code	Measure	Model	Pack	Outer	Cat.
223.04.50*	G 1/2"	Kit 50%	1	10	21.01
223.04.00*	G 1/2"	Kit 100%	1	10	21.01

\*with RFS



Floor or baseboard distribution in-line power supply connections.  
Use fittings with RBM Standard thread for pipe connection.





### Series 225

#### Kit for heating units fed by single pipe and double pipe circuits.

Nickel brass body.  
Elastomer seals.  
Shockproof ABS cap and handwheel.  
Built-in micrometric lockshield valve.  
Internal bypass with 50% bore only for single pipe applications.  
In-line connections, centre distance 37 mm M standard RBM thread for copper, polyethylene and multilayer pipe fittings.  
Connections for external probe Ø 15 mm.  
Threaded connections to terminal M UNI-EN-ISO 228 with pre-gasket ogive in PTFE.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar
- Probe not included.

Code	Measure	Model	Pack	Outer	Cat.
225.04.50*	G 1/2"	Kit 50%	1	10	21.01
225.04.00*	G 1/2"	Kit 100%	1	10	21.01

\*Single pipe circuits

\*\*Double pipe circuits



Floor or baseboard distribution in-line power supply connections.  
Use fittings with RBM Standard thread for pipe connection.



### Series 211

#### Kit for heating units fed by single pipe and double pipe circuits.

Nickel brass body.  
Elastomer seals.  
Shockproof ABS cap and handwheel.  
Built-in micrometric lockshield valve.  
Internal bypass with 50% bore only for single pipe applications.  
Angle connections, centre distance 37 mm M standard RBM thread for copper, polyethylene and multilayer pipe fittings.  
Connections for external probe Ø 15 mm.  
Threaded connections to terminal M UNI-EN-ISO 228 with pre-gasket ogive in PTFE.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar
- Probe not included.

Code	Measure	Model	Pack	Outer	Cat.
211.04.50*	G 1/2"	Kit 50%	1	10	21.01
211.04.00*	G 1/2"	Kit 100%	1	10	21.01

\*with RFS



Angle connections fed from wall.  
Use fittings with RBM Standard thread for pipe connection.



### Series 213

#### Kit for heating units fed by single pipe and double pipe circuits.

Nickel brass body.  
Elastomer seals.  
Shockproof ABS cap and handwheel.  
Built-in micrometric lockshield valve.  
Internal bypass with 50% bore only for single pipe applications.  
Angle connections, centre distance 37 mm M standard RBM thread for copper, polyethylene and multilayer pipe fittings.  
Connections for external probe Ø 15 mm.  
Threaded connections to terminal M UNI-EN-ISO 228 with pre-gasket ogive in PTFE.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar
- Probe not included.

Code	Measure	Model	Pack	Outer	Cat.
213.04.50*	G 1/2"	Kit 50%	1	10	21.01
213.04.00*	G 1/2"	Kit 100%	1	10	21.01

\*with RFS



Angle connections fed from wall.  
Use fittings with RBM Standard thread for pipe connection.





### Series 3563

#### Angle valve with thermostatic option with pre-setting independent from pressure for iron pipe.

Nickel brass body.  
Double seal obturator.  
Elastomer seals.  
Shockproof ABS handwheel.  
Threaded angled connection F UNI-EN-ISO 228 for iron pipe.  
Connection to threaded terminal M UNI-EN-ISO 228.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Code	Measure	Pack	Outer	Cat.
3563.03.90	G 3/8"	7	28	21.01
3563.04.90	G 1/2"	7	28	21.01



Valve with thermostatic option and pre-setting.  
Use spanner code 2878.00.00 (see page 132) to adjust Kvs values.



### Series 3564

#### Straight valve with thermostatic option with pre-setting independent from pressure for iron pipe.

Nickel brass body.  
Double seal obturator.  
Elastomer seals.  
Shockproof ABS handwheel.  
Threaded straight connection F UNI-EN-ISO 228 for iron pipe.  
Connection to threaded terminal M UNI-EN-ISO 228.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Code	Measure	Pack	Outer	Cat.
3564.03.90	G 3/8"	7	28	21.01
3564.04.90	G 1/2"	7	28	21.01



Valve with thermostatic option and pre-setting.  
Use spanner code 2878.00.00 (see page 132) to adjust Kvs values.



### Series 3924

#### Thermostatically controlled corner valve with pre-setting independent from pressure for copper pipe.

Nickel brass body.  
Double seal obturator.  
Elastomer seals.  
Shockproof ABS handwheel.  
Threaded angled connection F UNI-EN-ISO 228 for iron pipe.  
Connection to threaded terminal M UNI-EN-ISO 228.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Code	Measure	Pack	Outer	Cat.
3924.03.90	G 3/8"	7	28	21.01
3924.04.90	G 1/2"	7	28	21.01



Valve with thermostatic option and pre-setting.  
Use spanner code 2878.00.00 (see page 132) to adjust Kvs values.



### Series 3925

#### Thermostatically controlled straight valve with pre-setting independent from pressure for copper pipe.

Nickel brass body.  
Double seal obturator.  
Elastomer seals.  
Shockproof ABS handwheel.  
Threaded angled connection F UNI-EN-ISO 228 for iron pipe.  
Connection to threaded terminal M UNI-EN-ISO 228.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Code	Measure	Pack	Outer	Cat.
3925.03.90	G 3/8"	7	28	21.01
3925.04.90	G 1/2"	7	28	21.01



Valve with thermostatic option and pre-setting.  
Use spanner code 2878.00.00 (see page 132) to adjust Kvs values.





## THERMOSTATIC VALVE WITH PRE-SETTING INDEPENDENT FROM PRESSURE

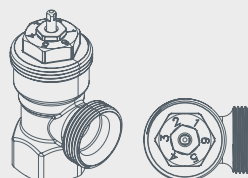
The **thermostatic valve with pre-setting independent** from pressure is a radiator valve that performs the functions of a thermostatic valve and a differential pressure regulator. Designed for temperature control and hydraulic balancing in a single product, it is applied in double-pipe heating systems.

The ring nut for the flow rate pre-setting limits the maximum flow passing through the radiator and thereby ensures quick and effective circuit balancing. The differential pressure regulator – the nerve centre of the valve – resets pressure variations in a heating system, thus ensuring the preset flow rate.

When used in conjunction with the **RBM thermostatic head**, it maintains a constant temperature in the environment, ensuring energy savings.



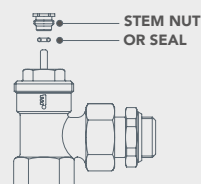
- 1 Micrometric setting**  
KVS values can be set through the pole on the top of the cap unit, simply using the adjustment tool.  
**6 Kvs values for pre-setting!**



- 2 Pole with vulcanized elastomer disc.**  
Elastomer directly vulcanized on the pole disc:
- Avoids noise
  - Disc does not stick on the valve seat



- 3 Differential pressure regulator ( $\Delta P$ )**  
Resets pressure variations in systems.



Possibility of maintenance service while system is in operation.

**Series 177****Elbow fitting for valve-pipe connection.**

Nickel brass body.  
Elastomer seals.  
Threaded pipe connection M standard RBM for copper, polyethylene and multilayer pipe fittings.  
Connection to valve with RBM standard F threaded fitting

- Max operating temperature 110°C
- Max operating pressure 10 Bar



Code	Figure	Centre distance (mm)	Pack	Outer	Cat.
<b>177.00.00</b>	2	32	20	20	21.01
<b>177.00.10</b>	1	60	20	20	21.01



For distribution outside of baseboard.  
Valve-pipe connection.  
Use fittings with RBM Standard thread for pipe connection.

**Series 308.A****Single hole plastic openable washer.**

Application flush with the wall for aesthetic closure of pipe passage hole.

- Washer outside diameter 60 mm

Code	Measure	Pack	Outer	Cat.
<b>308.10.02</b>	Ø 10	100	100	21.01
<b>308.12.02</b>	Ø 12	100	100	21.01
<b>308.14.02</b>	Ø 14	100	100	21.01
<b>308.16.02</b>	Ø 16	100	100	21.01
<b>308.18.02</b>	Ø 18	100	100	21.01
<b>308.00.12</b>	U	100	100	21.01

*U = Universal*

**Series 308.B****Double hole plastic openable washer.**

Application flush with the wall for aesthetic closure of pipe passage hole.

- External dimensions 98x48 mm
- Hole centre distance 37 mm

Code	Measure	Pack	Outer	Cat.
<b>308.00.02</b>	U	50	50	21.01

*U = Universal*



Suitable for all Single flow and Double flow centre distance 37 mm valves.

**Series 175****Nickel plated brass elbow fitting.**

- Threaded F standard RBM connection for RBM valves.
- Threaded M connection (UNI-EN-ISO 228) with PTFE pre-gasket ogive.

Code	Measure	Pack	Outer	Cat.
<b>175.04.00</b>	RFS 1/2"	20	20	21.01





### Series 310

#### Chrome plated steel probe with end not countersunk.

- Max operating temperature 110°C
- Max operating pressure 10 Bar

Code	ØxL (mm)	Suitable for valve	Pack	Outer	Cat.
310.10.60	Ø 10 x 600	Uniflux E.P.	1	10	21.01
310.10.90	Ø 10 x 900	Uniflux E.P.	1	10	21.01
310.10.10	Ø 10 x 1000	Uniflux E.P.	1	10	21.01



### Series 348

#### Chrome plated steel probe with end not countersunk.

- Max operating temperature 110°C
- Max operating pressure 10 Bar

Code	ØxL (mm)	Suitable for valve	Pack	Outer	Cat.
348.15.60	Ø 15 x 600	Uniflux E.P. kit	35	35	21.01
348.15.90	Ø 15 x 900	Uniflux E.P. kit	35	35	21.01
348.15.10	Ø 15 x 1000	Uniflux E.P. kit	35	35	21.01



### Series 312

#### Brass steel probe with countersunk end.

- Max operating temperature 110°C
- Max operating pressure 10 Bar

Code	ØxL (mm)	Suitable for valve	Pack	Outer	Cat.
03121560*	Ø 15 x 600	Single flow	1	10	21.01
03121590**	Ø 15 x 900	Single flow	1	10	21.01

\*non-chrome-plated brass probe

\*\*chrome-plated brass probe



Suitable for 25 series valve.



### Series 1138

#### Insulation shell made of expanded polyethylene half-bearings with external antiscratch coating.

Half-bearings fixed with double-sided adhesive tape already applied.

- Fire behaviour class1
- Density 33 kg/m<sup>3</sup>
- Max operating temperature -40 ÷ +90°C

#### Angle valve thermal shell

Code	Measure	Pack	Outer	Cat.
1138.00.20	3/4"	10	10	21.01

#### Insulation shell for angle lockshields

Code	Measure	Pack	Outer	Cat.
1138.00.30	3/4"	10	10	21.01



### Series 349

#### Pair of brass reducing couplings for connecting to radiant plates with F 1/2" connections. Accessories for double- and single-pipe valves.

Brass body.  
Elastomer seals.  
Euroconus M G3/4" x M 1/2" threaded connections  
UNI EN ISO228  
Valve-connection centre distance 50mm.

- Max operating temperature 110°C
- Max operating pressure 10 bar

Code	Size A	Size B	Pack	Outer	Cat.
349.00.00	3/4"	1/2"	1	125	21.01



Tapered seal fitting which can be coupled to radiant plate valves series 301.





### Series 7

#### Manual single adjustment angle valve for iron pipe.

Nickel brass body.  
Elastomer seals.  
Shockproof ABS handwheel.  
Threaded angled connection F UNI-EN-ISO 228 for iron pipe.  
Connection to terminal through threaded MRFS (UNI-EN-ISO 228) with PTFE pre-gasket ogive (only for 3/8" and 1/2" diameters).

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Outer	Cat.
7.03.00	G 3/8"	3,2	10	100	21.01
7.04.00	G 1/2"	4,0	10	100	21.01
7.05.00	G 3/4"	10,8	10	60	21.01
7.06.00	G 1"	17,1	6	6	21.01
7.07.00	G 1"1/4	22,5	4	4	21.01



### Series 8

#### Manual single adjustment straight valve for iron pipe.

Nickel brass body.  
Elastomer seals.  
Shockproof ABS handwheel.  
Threaded straight connection F UNI-EN-ISO 228 for iron pipe.  
Connection to terminal through threaded MRFS (UNI-EN-ISO 228) with PTFE pre-gasket ogive (only for 3/8" and 1/2" diameters).

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Outer	Cat.
8.03.00	G 3/8"	1,4	10	100	21.01
8.04.00	G 1/2"	1,8	10	100	21.01
8.05.00	G 3/4"	5,2	10	50	21.01
8.06.00	G 1"	8,2	6	6	21.01
8.07.00	G 1"1/4	22,5	4	4	21.01



### Series 27

#### Manual single adjustment angle valve for copper or polyethylene pipe.

Nickel brass body.  
Elastomer seals.  
Shockproof ABS handwheel.  
Threaded angled M standard RBM connection for copper, polyethylene, multilayer pipe fittings.  
Connection to threaded terminal M UNI-EN-ISO 228 with pre-gasket ogive in PTFE.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Outer	Cat.
27.03.00	G 3/8"	3,2	10	100	21.01
27.03.10	G 3/8" Ø 18 (*)	3,2	10	10	21.01
27.04.00	G 1/2"	4,0	10	100	21.01
27.04.10	G 1/2" Ø 18 (*)	4,0	10	10	21.01

(\*): Can be fed by Ø18 copper pipes (kit valve + reduction code 57.18.00)



Use fittings with Standard RBM thread for pipe connection.





### Series 28

#### Manual single adjustment straight valve for copper or polyethylene pipe.

Nickel brass body.  
Elastomer seals.  
Shockproof ABS handwheel.  
Threaded straight M standard RBM connection for copper, polyethylene, multi-layer pipe fittings.  
Connection to threaded terminal M UNI-EN-ISO 228 with pre-gasket ogive in PTFE.

- Max operating temperature 110°C
- Max operating pressure 10 Bar

Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Outer	Cat.
<b>28.03.00</b>	G 3/8"	1,4	10	100	21.01
<b>28.03.10</b>	G 3/8" Ø 18 (*)	1,4	10	10	21.01
<b>28.04.00</b>	G 1/2"	1,8	10	100	21.01
<b>28.04.10</b>	G 1/2" Ø 18 (*)	1,8	10	10	21.01

(\*): Can be fed by Ø18 copper pipes (kit valve + reduction code 57.18.00)



Use fittings with Standard RBM thread for pipe connection.



### Series 151

#### Jet-Line Series: angle lockshield valve with double seal O-ring for iron pipe.

Nickel brass body.  
Elastomer seals.  
Shockproof ABS handwheel.  
Threaded angled connection F UNI-EN-ISO 228 for iron pipe fittings.  
Connection to threaded terminal M UNI-EN-ISO 228 (with pre-gasket ogive in PTFE series \*).

- Max operating temperature 110°C
- Max operating pressure 10 Bar

Certifications:



#### Double seal O.R. angle valve for iron pipe - RFS seal on radiator\*

Code	Measure	Pack	Outer	Cat.
<b>151.03.00</b>	RFS 3/8"	10	100	21.01
<b>151.04.00</b>	RFS 1/2"	10	100	21.01

#### Angle valve with double seal o-ring for iron pipe

Code	Measure	Pack	Outer	Cat.
<b>151.03.40</b>	3/8"	10	100	21.01
<b>151.04.40</b>	1/2"	10	100	21.01
<b>151.05.40</b>	3/4"	10	100	21.01

Thread MF UNI-EN-ISO 228



### Series 152

#### Jet-Line Series: straight lockshield valve with double seal O-ring for iron pipe.

Nickel brass body.  
Elastomer seals.  
Shockproof ABS handwheel.  
Threaded straight connection F UNI-EN-ISO 228 for iron pipe fittings.  
Connection to threaded terminal M UNI-EN-ISO 228 (with pre-gasket ogive in PTFE series \*).

- Max operating temperature 110°C
- Max operating pressure 10 Bar

Certifications:



#### Double seal O.R. straight valve for iron pipe - RFS seal on radiator\*

Code	Measure	Pack	Outer	Cat.
<b>152.03.00</b>	RFS 3/8"	10	100	21.01
<b>152.04.00</b>	RFS 1/2"	10	100	21.01

#### Straight valve with double seal o-ring for iron pipe

Code	Measure	Pack	Outer	Cat.
<b>152.03.40</b>	3/8"	10	100	21.01
<b>152.04.40</b>	1/2"	10	100	21.01
<b>152.05.40</b>	3/4"	10	100	21.01

Thread MF UNI-EN-ISO 228





**587****Angle valve with double seal O-ring for copper or polyethylene pipe, standard rbm connection, "jet-line" series.**

Nickel brass body.  
Elastomer seals.  
Shockproof ABS handwheel.  
Threaded angled standard RBM connection for copper, polyethylene, multi-layer pipe fittings. Connection to threaded terminal M UNI-EN-ISO 228 (with pre-gasket ogive in PTFE series \*).

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Angle valve with double O.R. seal for copper or polyethylene pipe, RFS seal on radiator\*

Code	Measure	Pack	Outer	Cat.
<b>587.03.00</b>	RFS 3/8"	10	100	21.01
<b>587.04.00</b>	RFS 1/2"	10	100	21.01

Angle valve with double O.R. seal for copper or polyethylene pipe

Code	Measure	Pack	Outer	Cat.
<b>587.03.40</b>	RBM 3/8"	10	100	21.01
<b>587.04.40</b>	RBM 1/2"	10	100	21.01

System side standard RBM thread W 24.5x19F



Use fittings with Standard RBM thread for pipe connection.

**588****Straight valve with double seal O-ring for copper or polyethylene pipe, standard rbm connection, "jet-line" series.**

Nickel brass body.  
Elastomer seals.  
Shockproof ABS handwheel.  
Threaded straight standard RBM connection for copper, polyethylene, multi-layer pipe fittings. Connection to threaded terminal M UNI-EN-ISO 228 (with pre-gasket ogive in PTFE series \*).

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Straight valve with double O.R. seal for copper or polyethylene pipe - RFS seal on radiator\*

Code	Measure	Pack	Outer	Cat.
<b>588.03.00</b>	RFS 3/8"	10	100	21.01
<b>588.04.00</b>	RFS 1/2"	10	100	21.01

Straight valve with double seal o-ring for copper or polyethylene pipe

Code	Measure	Pack	Outer	Cat.
<b>588.03.40</b>	RBM 3/8"	10	100	21.01
<b>588.04.40</b>	RBM 1/2"	10	100	21.01

System side standard RBM thread W 24.5x19F



Use fittings with Standard RBM thread for pipe connection.

**Series 25****"Single flow" 4-way valve for single pipe circuits.**

Nickel-plated brass body. Elastomer seals.  
Shockproof ABS hand wheel. Internal by-pass with fixed leakage. Polymer probe.  
Line connections, centre distance 37 mm threaded M standard RBM for copper, polyethylene and multilayer pipe fittings. Connection to the radiator threaded M UNI-EN-ISO 228.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar
- Probe length 300 mm
- Probe outside diameter 15 mm

Code	Measure	Model	Pack	Outer	Cat.
<b>25.05.00</b>	G 3/4"	Single flow	5	20	21.01
<b>25.05.10</b>	G 3/4" Ø 18 (*)	Single flow	5	20	21.01
<b>25.05.50</b>	G 3/4" SX (**)	Single flow	5	20	21.01
<b>25.06.00</b>	G 1"	Single flow	5	20	21.01
<b>25.06.10</b>	G 1" Ø 18 (*)	Single flow	5	20	21.01
<b>25.06.50</b>	G 1" SX (**)	Single flow	5	20	21.01

(\*): Can be fed by Ø18 copper pipes (kit valve + reduction code 57.18.00)

(\*\*): Left thread radiator connection



Use fittings with Standard RBM thread for pipe connection.





### Series 22

#### "Uniflux" 4-way valve for single pipe circuits.

Nickel-plated brass body. Elastomer seals. Shockproof ABS hand wheel. Internal by-pass with fixed leakage. Polymer probe. Line connections, centre distance 37 mm threaded M standard RBM for copper, polyethylene and multilayer pipe fittings. Connection to the radiator threaded M UNI-EN-ISO 228.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar
- Probe length 300 mm
- 1/2" probe outside diameter 10 mm
- 3/4" probe outside diameter 13 mm

Code	Measure	Model	Pack	Outer	Cat.
22.04.00	G 1/2"	Uniflux	5	20	21.01
22.04.20	G 1/2"	Uniflux s.c.	5	20	21.01
22.05.00	G 3/4"	Uniflux	5	20	21.01
22.05.30	G 3/4" Ø 18 (*)	Uniflux	5	20	21.01

(\*): Can be fed by Ø18 copper pipes (kit valve + reduction code 57.18.00)



Use fittings with RBM Standard thread for pipe connection.



### Series 585

#### "Biflux" 4-way valve for single pipe circuits.

Nickel brass body. Elastomer seals. Shockproof ABS handwheel. Internal bypass with fixed leakage. Polymer probe. In-line connections, centre distance 37 mm M standard RBM thread for copper, polyethylene and multilayer pipe fittings. Threaded radiator connection M UNI-EN-ISO 228.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar
- Probe length 100 mm
- Probe outside diameter 11 mm

Code	Measure	Model	Pack	Outer	Cat.
585.04.00	G 1/2"	Biflux	5	20	21.01
585.04.10	G 1/2" Ø 18 (*)	Biflux	5	20	21.01
585.05.00	G 3/4"	Biflux	5	20	21.01
585.05.10	G 3/4" Ø 18 (*)	Biflux	5	20	21.01

(\*): Can be fed by Ø18 copper pipes (kit valve + reduction code 57.18.00)



Use fittings with RBM Standard thread for pipe connection.



### Series 424

#### "Uniflux" 4-way valve for single pipe circuits with external probe.

Nickel brass body. Elastomer seals. Shockproof ABS handwheel. Internal bypass with fixed leakage. In-line connections, centre distance 37 mm M standard RBM thread for copper, polyethylene and multilayer pipe fittings. Threaded radiator connection M UNI-EN-ISO 228. Connections for external probe Ø 10 or Ø 15.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar
- Probe not included.

Code	Measure	Model	Pack	Outer	Cat.
424.04.70	G 1/2"	Uniflux E.P. Ø 10	4	16	21.01
424.04.90	G 1/2"	Uniflux E.P. Ø 15	4	16	21.01



Radiator side hot fluid inlet.  
Use fittings with RBM Standard thread for pipe connection.





### Series 249

#### Kit for heating units fed by single pipe and double pipe circuits.

Nickel brass body.  
Elastomer seals.  
Shockproof ABS cap and handwheel.  
Built-in micrometric lockshield valve.  
Internal bypass with 50% bore only for single pipe applications.  
In-line connections, centre distance 37 mm M standard RBM thread for copper, polyethylene and multilayer pipe fittings.  
Connections for external probe  $\varnothing$  15 mm.  
Threaded connections to terminal M UNI-EN-ISO 228 with pre-gasket ogive in PTFE.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar
- Probe not included.

Code	Measure	Model	Pack	Outer	Cat.
<b>249.04.50</b>	G 1/2"	Kit 50%*	1	10	21.01
<b>249.04.00</b>	G 1/2"	Kit 100%**	1	10	21.01

\*Single pipe circuits

\*\*Double pipe circuits



Floor or baseboard distribution in-line power supply connections.  
Use fittings with RBM Standard thread for pipe connection.



### Series 212

#### Kit for heating units fed by single pipe and double pipe circuits.

Nickel brass body.  
Elastomer seals.  
Shockproof ABS cap and handwheel.  
Built-in micrometric lockshield valve.  
Internal bypass with 50% bore only for single pipe applications.  
Angle connections, centre distance 37 mm M standard RBM thread for copper, polyethylene and multilayer pipe fittings.  
Connections for external probe  $\varnothing$  15 mm.  
Threaded connections to terminal M UNI-EN-ISO 228 with pre-gasket ogive in PTFE.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar
- Probe not included.

Code	Measure	Model	Pack	Outer	Cat.
<b>212.04.50</b>	G 1/2"	Kit 50%*	1	10	21.01
<b>212.04.00</b>	G 1/2"	Kit 100%**	1	10	21.01

\*Single pipe circuits

\*\*Double pipe circuits



Angle connections fed from wall.  
Use fittings with RBM Standard thread for pipe connection.



### Series 165

#### Straight 4-way diverter valve for single pipe and the double pipe circuits.

Nickel brass body.  
Elastomer seals.  
Shockproof ABS cap.  
Built-in micrometric lockshield valve.  
Internal bypass with 50% bore only for single pipe applications.  
In-line connections, centre distance 37 mm M standard RBM thread for copper, polyethylene and multilayer pipe fittings.  
Threaded connections to radiator M UNI-EN-ISO 228 with pre-gasket ogive in PTFE.  
Connection for external probe  $\varnothing$  15 mm.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Code	Measure	Model	Pack	Outer	Cat.
<b>165.04.50*</b>	G 1/2"	50%	10	10	21.01
<b>160.04.00*</b>	G 1/2"	100%	10	10	21.01

\*with RFS



Use fittings with RBM Standard thread for pipe connection.





### Series 214

#### Angle 4-way diverter valve for single pipe and the double pipe circuits.

Nickel brass body.  
Elastomer seals.  
Shockproof ABS cap.  
Built-in micrometric lockshield valve.  
Internal bypass with 50% bore only for single pipe applications.  
Angle connections, centre distance 37 mm M standard RBM thread for copper, polyethylene and multilayer pipe fittings.  
Threaded connections to radiator M UNI-EN-ISO 228 with pre-gasket ogive in PTFE.  
Connection for external probe Ø 15 mm.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Code	Measure	Model	Pack	Outer	Cat.
214.04.50*	G 1/2"	50%	10	10	21.01
214.04.00*	G 1/2"	100%	10	10	21.01

\*with RFS



Use fittings with RBM Standard thread for pipe connection.



### Series 301.A

#### Coupled valves, only for shut-off of radiant plates, equipped with adjustable bypass, for single pipe circuits.

Nickel brass body.  
Elastomer seals.  
Euroconus F G3/4" plate side swivel connections.  
M G3/4" Euroconus system side connections.  
Connections centre distance 50 mm.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

#### Coupled valve with straight bypass

Code	Measure	Pack	Outer	Cat.
301.05.10	3/4"x3/4"	5	5	21.01

#### Coupled valve with angle bypass

Code	Measure	Pack	Outer	Cat.
302.05.10	3/4"x3/4"	5	5	21.01



Use fittings with Euroconus G3/4" thread for pipe connection.



### Series 301.B

#### Coupled double pipe valves, only for shut-off of radiant plates, for dual pipe circuits.

Nickel brass body.  
Elastomer seals.  
Euroconus F G3/4" plate side swivel connections.  
M G3/4" Euroconus system side connections.  
Connections centre distance 50 mm.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

#### Coupled valve without straight bypass

Code	Measure	Pack	Outer	Cat.
301.05.80	3/4"	1	50	21.01

#### Coupled valve without angle bypass

Code	Measure	Pack	Outer	Cat.
302.05.80	3/4"	1	50	21.01



Use fittings with Euroconus G3/4" thread for pipe connection.





### Series 4036

#### New angle lockshield shut-off and regulating valve for iron pipe.

Nickel brass body.  
Elastomer seals.  
Shockproof ABS cap.  
Threaded angled connection F UNI-EN-ISO 228 for iron pipe.  
Connection to terminal through threaded MRFS (UNI-EN-ISO 228) with PTFE pre-gasket ogive.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Outer	Cat.
4036.03.00	G 3/8"	2,8	10	100	21.01
4036.04.00	G 1/2"	3	10	100	21.01



### Series 4038

#### New straight lockshield shut-off and regulating valve for iron pipe.

Nickel brass body.  
Elastomer seals.  
Shockproof ABS cap.  
Threaded straight connection F UNI-EN-ISO 228 for iron pipe.  
Connection to terminal through threaded MRFS (UNI-EN-ISO 228) with PTFE pre-gasket ogive.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Outer	Cat.
4038.03.00	G 3/8"	1,9	10	100	21.01
4038.04.00	G 1/2"	2,1	10	100	21.01



### Series 4039

#### New straight lockshield shut-off and regulating valve for copper or polyethylene pipe.

Nickel brass body.  
Elastomer seals.  
Shockproof ABS cap.  
Threaded straight M standard RBM connection for copper, polyethylene, multi-layer pipe fittings.  
Connection to threaded terminal M UNI-EN-ISO 228 with pre-gasket ogive in PTFE.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Outer	Cat.
4039.03.00	G 3/8"	1,4	10	100	21.01
4039.04.00	G 1/2"	1,4	10	100	21.01

(\*): Can be fed by Ø18 copper pipes (kit lockshield + reduction code 57.18.00)



Use fittings with RBM Standard thread for pipe connection.



### Series 4037

#### New angle lockshield shut-off and regulating valve for copper or polyethylene pipe.

Nickel brass body.  
Elastomer seals.  
Shockproof ABS cap.  
Threaded angled M standard RBM connection for copper, polyethylene, multilayer pipe fittings.  
Connection to threaded terminal M UNI-EN-ISO 228 with pre-gasket ogive in PTFE.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Certifications:



Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Outer	Cat.
4037.03.00	G 3/8"	2,8	10	100	21.01
4037.04.00	G 1/2"	3	10	100	21.01

(\*): Can be fed by Ø18 copper pipes (kit lockshield + reduction code 57.18.00)



Use fittings with RBM Standard thread for pipe connection.





### Series 9

#### Angle lockshield shut-off and regulating valve for iron pipe

Nickel brass body.  
Elastomer seals.  
Shockproof ABS cap.  
Threaded angled connection F UNI-EN-ISO 228 for iron pipe.  
Connection to terminal through threaded MRFS (UNI-EN-ISO 228) with PTFE pre-gasket ogive (only for 3/8" and 1/2" diameters).

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Outer	Cat.
9.03.00	G 3/8"	3,2	10	100	21.01
9.04.00	G 1/2"	4,0	10	100	21.01
9.05.00	G 3/4"	10,8	10	60	21.01
9.06.00	G 1"	17,1	6	6	21.01
9.07.00	G 1"1/4	22,5	4	4	21.01



### Series 10

#### Straight lockshield shut-off and regulating valve for iron pipe.

Nickel brass body.  
Elastomer seals.  
Shockproof ABS cap.  
Threaded straight connection F UNI-EN-ISO 228 for iron pipe.  
Connection to terminal through threaded MRFS (UNI-EN-ISO 228) with PTFE pre-gasket ogive (only for 3/8" and 1/2" diameters).

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Outer	Cat.
10.03.00	G 3/8"	1,4	10	100	21.01
10.04.00	G 1/2"	1,8	10	100	21.01
10.05.00	G 3/4"	4,9	10	60	21.01
10.06.00	G 1"	8,2	6	6	21.01
10.07.00	G 1"1/4	22,5	4	4	21.01



### Series 29

#### Angle lockshield shut-off and regulating valve for copper or polyethylene pipe.

Nickel brass body.  
Elastomer seals.  
Shockproof ABS cap.  
Threaded angled M standard RBM connection for copper, polyethylene, multilayer pipe fittings.  
Connection to threaded terminal M UNI-EN-ISO 228 with pre-gasket ogive in PTFE.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Certifications:



Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Outer	Cat.
29.03.00	G 3/8"	3,2	10	100	21.01
29.03.10	G 3/8" Ø 18 (*)	3,2	10	10	21.01
29.04.00	G 1/2"	4,0	10	100	21.01
29.04.10	G 1/2" Ø 18 (*)	4,0	10	10	21.01

(\*): Can be fed by Ø18 copper pipes (kit lockshield + reduction code 57.18.00)



Use fittings with RBM Standard thread for pipe connection.



### Series 30

#### Straight lockshield shut-off and regulating valve for copper or polyethylene pipe.

Nickel brass body.  
Elastomer seals.  
Shockproof ABS cap.  
Threaded straight M standard RBM connection for copper, polyethylene, multi-layer pipe fittings.  
Connection to threaded terminal M UNI-EN-ISO 228 with pre-gasket ogive in PTFE.

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Outer	Cat.
<b>30.03.00</b>	G 3/8"	1,4	10	100	21.01
<b>30.03.10</b>	G 3/8" Ø 18 (*)	1,4	10	10	21.01
<b>30.04.00</b>	G 1/2"	1,8	10	100	21.01
<b>30.04.10</b>	G 1/2" Ø 18 (*)	1,8	10	10	21.01

(\*): Can be fed by Ø18 copper pipes (kit lockshield + reduction code 57.18.00)



Use fittings with RBM Standard thread for pipe connection.



### Series 153

#### Jet-Line Series: angle lockshield regulating valve for iron pipe.

Nickel brass body.  
Elastomer seals.  
Shockproof ABS handwheel.  
Threaded angled connection F UNI-EN-ISO 228 for iron pipe fittings.  
Connection to threaded terminal M UNI-EN-ISO 228 (with pre-gasket ogive in PTFE series \*).

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Certifications:



#### Angle lockshield regulating valve for iron pipe - RFS seal on radiator\*

Code	Measure	Pack	Outer	Cat.
<b>153.03.00</b>	RFS 3/8"	10	100	21.01
<b>153.04.00</b>	RFS 1/2"	10	100	21.01

#### Angle lockshield regulating valve for iron pipe

Code	Measure	Pack	Outer	Cat.
<b>153.03.40</b>	3/8"	10	100	21.01
<b>153.04.40</b>	1/2"	10	100	21.01
<b>153.05.40</b>	3/4"	10	100	21.01

Thread MF UNI-EN-ISO 228



### Series 154

#### Jet-Line Series: straight lockshield regulating valve for iron pipe.

Nickel brass body.  
Elastomer seals.  
Shockproof ABS handwheel.  
Threaded straight connection F UNI-EN-ISO 228 for iron pipe fittings.  
Connection to threaded terminal M UNI-EN-ISO 228 (with pre-gasket ogive in PTFE series \*).

- Max operating temperature 110 °C
- Max operating pressure 10 Bar

Certifications:



#### Straight lockshield regulating valve for iron pipe - RFS seal on radiator\*

Code	Measure	Pack	Outer	Cat.
<b>154.03.00</b>	RFS 3/8"	10	100	21.01
<b>154.04.00</b>	RFS 1/2"	10	100	21.01

#### Straight lockshield regulating valve for iron pipe

Code	Measure	Pack	Outer	Cat.
<b>154.03.40</b>	3/8"	10	100	21.01
<b>154.04.40</b>	1/2"	10	100	21.01
<b>154.05.40</b>	3/4"	10	100	21.01

Thread MF UNI-EN-ISO 228







### Series 564

#### Jet-Line Series: angle lockshield regulating valve for copper or polyethylene pipe, standard RBM connection.

Nickel brass body.  
Elastomer seals.  
Shockproof ABS handwheel.  
Threaded angled standard RBM connection for copper, polyethylene, multi-layer pipe fittings. Connection to threaded terminal M UNI-EN-ISO 228 (with pre-gasket ogive in PTFE series \*).

- Max operating temperature 110 °C
- Max operating pressure 10 Bar



Angle lockshield regulating valve for copper or polyethylene pipe - RFS seal on radiator\*

Code	Measure	Pack	Outer	Cat.
<b>564.03.00</b>	RFS 3/8"	10	100	21.01
<b>564.04.00</b>	RFS 1/2"	10	100	21.01

Angle lockshield regulating valve for copper or polyethylene pipe

Code	Measure	Pack	Outer	Cat.
<b>564.03.40</b>	RBM 3/8"	10	100	21.01
<b>564.04.40</b>	RBM 1/2"	10	100	21.01

System side standard RBM thread W 24.5x19F



Use fittings with RBM Standard thread for pipe connection.



### Series 565

#### Jet-Line Series: straight lockshield regulating valve for copper or polyethylene pipe, standard RBM connection.

Nickel brass body.  
Elastomer seals.  
Shockproof ABS handwheel.  
Threaded straight standard RBM connection for copper, polyethylene, multi-layer pipe fittings. Connection to threaded terminal M UNI-EN-ISO 228 (with pre-gasket ogive in PTFE series \*).

- Max operating temperature 110 °C
- Max operating pressure 10 Bar



Straight lockshield regulating valve for copper or polyethylene pipe - RFS seal on radiator\*

Code	Measure	Pack	Outer	Cat.
<b>565.03.00</b>	RFS 3/8"	10	100	21.01
<b>565.04.00</b>	RFS 1/2"	10	100	21.01

Straight lockshield regulating valve for copper or polyethylene pipe

Code	Measure	Pack	Outer	Cat.
<b>565.03.40</b>	RBM 3/8"	10	100	21.01
<b>565.04.40</b>	RBM 1/2"	10	100	21.01

System side standard RBM thread W 24.5x19F



Use fittings with RBM Standard thread for pipe connection.





**02.  
ENERGY  
EFFICIENCY**

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**22. HYDRAULIC BALANCING**

**22.01 HYDRAULIC BALANCING**

236

- Balancing lockshield valves
- Flow-rate measuring stub pipe
- Flow control valves
- PICV independent pressure adjustment valves
- Tools and accessories



### Series 619.A

#### Balanflow

**Threaded balancing valve, complete with knob indicating the number of turns, and "memory stop" function.**

Body and contact parts in brass.  
Seals in FKM.  
Threaded connections FF UNI-EN-ISO 228.

- Max operating pressure 20 Bar
- Allowed temperatures  $-30 \div +120$  °C
- Equipercantage regulation
- Allowed fluid water and water+glycol 50 %
- Pressure gauge plugs connection G1/8"

Certifications:



Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Outer	Cat.
619.03.50	G 3/8"	2,35	1	6	22.01
619.04.50	G 1/2"	3,35	1	6	22.01
619.05.50	G 3/4"	4,00	1	6	22.01
619.06.50	G 1"	11,20	1	6	22.01
619.07.50	G 1"1/4	13,40	1	6	22.01
619.08.50	G 1"1/2	19,00	1	6	22.01
619.09.50	G 2"	28,40	1	6	22.01



Designed for the insertion of pressure plugs for indirect flow rate reading.



To provide for a pair of pressure plugs accessories code. 621.01.50



### Series 619.B

#### Balanflow

**Flanged balancing valve, complete with knob indicating the number of turns, and "memory stop" function.**

Cast-iron body.  
Elastomer seals.  
Flanged connections PN 16.

- Max operating pressure 16 Bar
- Allowed temperatures  $-10 \div +130$  °C
- Equipercantage regulation
- Allowed fluid water and water+glycol 50 %
- Pressure gauge plugs connection G1/8"

Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Outer	Cat.
619.10.60	DN 65	93,40	1	1	22.01
619.11.60	DN 80	122,30	1	1	22.01
619.13.60	DN 100	200,00	1	1	22.01
619.14.60	DN 125	304,40	1	1	22.01
619.15.60	DN 150	400,80	1	1	22.01
619.17.60	DN 200	685,60	1	1	22.01
619.19.60	DN 250	952,30	1	1	22.01
619.21.60	DN 300	1380,20	1	1	22.01



Valve provided with two pressure plugs.



Flange suitable for coupling to counter-flange UNI EN 1092-1.



### Series 1147

**Insulation shell for Balanflow valve made of expanded polyethylene half-bearings with external antiscratch coating.**

Half-bearings fixed with double-sided adhesive tape already applied.

- Fire behaviour class1
- Density 33 kg/m<sup>3</sup>
- Max operating temperature  $-40 \div +90$  °C

Code	Measure	Pack	Outer	Cat.
1147.03.00	3/8"	10	10	22.01
1147.04.00	1/2"	10	10	22.01
1147.05.00	3/4"	10	10	22.01
1147.06.00	1"	10	10	22.01
1147.07.00	1"1/4	5	5	22.01
1147.08.00	1"1/2	5	5	22.01
1147.09.00	2"	5	5	22.01





### Series 620.A

**Threaded measuring stub pipe for indirect reading of transit flow rate, complete with quick coupling pressure plugs.**

Body and pressure plugs in brass.  
Elastomer pressure plugs internal seals.  
Threaded connections MF UNI-EN-ISO 228.

- Max operating pressure 20 Bar
- Allowed temperatures  $-30 \div +120$  °C
- Allowed fluid water and water+glycol 50 %
- Pressure gauge plugs connection G 1/8"

Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Outer	Cat.
620.04.50	G 1/2"	2,85	1	1	22.01
620.05.50	G 3/4"	5,80	1	1	22.01
620.06.50	G 1"	8,80	1	1	22.01
620.07.50	G 1"1/4	20,10	1	1	22.01
620.08.50	G 1"1/2	31,20	1	1	22.01
620.09.50	G 2"	69,90	1	1	22.01



### Series 620.B

**Flanged measuring stub pipe for indirect reading of transit flow rate, complete with quick coupling pressure plugs.**

Grey cast-iron body.  
Brass pressure plugs.  
Elastomer pressure plugs internal seals.  
Wafer flanged connections PN 16.

- Max operating pressure 16 Bar
- Allowed temperatures  $-10 \div +120$  °C
- Allowed fluid water and water+glycol 50 %
- Pressure gauge plugs connection G 1/4"

Code	Measure	Kv (m <sup>3</sup> /h)	Pack	Outer	Cat.
620.13.00	DN 100	244,00	1	1	22.01
620.17.00	DN 200	1010,00	1	1	22.01





### Series 2873.A

#### Automatic flow control valve with externally adjustable cartridge.

It allows to adjust the rate to the desired value, by acting on the cartridge through suitable adjusting device.

Such operation does not involve the valve.

Brass body.

Polymer cartridge with elastomer diaphragm.

Indicator with graduated scale.

Threaded connections FF UNI-EN-ISO 228.

- Max operating pressure 16 Bar
- Allowed temperatures  $-20 \div +120$  °C
- Allowed fluid water and water+glycol 50%
- Pressure gauge plugs connection G1/8"

Code	Measure	DP (kPa)	Flow rate (m <sup>3</sup> /h)	Cartridge	Pack	Outer	Cat.
<b>2873.04.10</b>	1/2"	17-210	0,100-0,412	B	1	1	22.01
<b>2873.04.20</b>	1/2"	17-210	0,157-0,609	G	1	1	22.01
<b>2873.04.30</b>	1/2"	17-200	0,275-0,825	RW	1	1	22.01
<b>2873.04.40</b>	1/2"	30-400	0,406-1,270	RG	1	1	22.01
<b>2873.05.10</b>	3/4"	17-210	0,100-0,412	B	1	1	22.01
<b>2873.05.20</b>	3/4"	17-210	0,157-0,609	G	1	1	22.01
<b>2873.05.30</b>	3/4"	17-200	0,275-0,825	RW	1	1	22.01
<b>2873.05.40</b>	3/4"	30-400	0,406-1,270	RG	1	1	22.01
<b>2873.06.10</b>	1"	17-210	0,100-0,412	B	1	1	22.01
<b>2873.06.20</b>	1"	17-210	0,157-0,609	G	1	1	22.01
<b>2873.06.30</b>	1"	17-200	0,275-0,825	RW	1	1	22.01
<b>2873.06.40</b>	1"	30-400	0,406-1,270	RG	1	1	22.01

B = Black

G = Green

RW = Red - b. white

RG = Red - b. grey



Replaceable cartridge. See Service Division.  
Cartridges are available in different colours for both the pressure field and flow rate to be immediately identified.



For flow rate adjustment use accessory spanner code 2961.00.02 (see page 243).



### Series 2874.A

#### Automatic flow control valve with externally adjustable cartridge, provided with pressure plugs.

It allows to adjust the rate to the desired value, by acting on the cartridge through suitable adjusting device.

Such operation does not involve the valve.

Brass body.

Polymer cartridge with elastomer diaphragm.

Indicator with graduated scale.

Threaded connections FF UNI-EN-ISO 228.

- Max operating pressure 16 Bar
- Allowed temperatures  $-20 \div +120$  °C
- Allowed fluid water and water+glycol 50%
- Pressure gauge plugs connection G1/8"

Code	Measure	DP (kPa)	Flow rate (m <sup>3</sup> /h)	Cartridge	Pack	Outer	Cat.
<b>2874.04.10</b>	G 1/2"	17-210	0,100-0,412	B	1	1	22.01
<b>2874.04.20</b>	G 1/2"	17-210	0,157-0,609	G	1	1	22.01
<b>2874.04.30</b>	G 1/2"	17-200	0,275-0,825	RW	1	1	22.01
<b>2874.04.40</b>	G 1/2"	30-400	0,406-1,270	RG	1	1	22.01
<b>2874.05.10</b>	G 3/4"	17-210	0,100-0,412	B	1	1	22.01
<b>2874.05.20</b>	G 3/4"	17-210	0,157-0,609	G	1	1	22.01
<b>2874.05.30</b>	G 3/4"	17-200	0,275-0,825	RW	1	1	22.01
<b>2874.05.40</b>	G 3/4"	30-400	0,406-1,270	RG	1	1	22.01
<b>2874.06.10</b>	G 1"	17-210	0,100-0,412	B	1	1	22.01
<b>2874.06.20</b>	G 1"	17-210	0,157-0,609	G	1	1	22.01
<b>2874.06.30</b>	G 1"	17-200	0,275-0,825	RW	1	1	22.01
<b>2874.06.40</b>	G 1"	30-400	0,406-1,270	RG	1	1	22.01

B = Black

G = Green

RW = Red - b. white

RG = Red - b. grey



Replaceable cartridge. See Service Division.  
Cartridges are available in different colours for both the pressure field and flow rate to be immediately identified.  
Valve provided with two pressure plugs.



For flow rate adjustment use accessory spanner code 2961.00.02 (see page 243).



# AUTOMATIC FLOW CONTROL VALVE



Automatic flow control valve allow maintaining a constant flow rate at the desired value, within a wide differential pressure range between upstream and downstream.

The flow rate value is set through a cartridge adjustable from outside using a special accessory spanner. During this operation, the valve does not need to be shut off. Inserted in hydraulic circuits, the automatic balancing valve ensures maintaining the design flow rate.

## USE

They are particularly indicated in the following cases:

- Adjustment for pumping stations in central thermal fluid systems.
- Customer junctions balancing.
- Rising pillars balancing.
- Third way adjustment and balancing on thermoregulation units.

## CHOICE

It is advisable to choose a automatic flow control valve whose adjustment degree corresponds to about half the cartridge flow rate range.

In this way, with the design nominal flow rate, a sufficient calibration margin is preserved so as to cope with any corrections due to inevitable route changes during work.

## POSSIBLE APPLICATIONS

Automatic flow control valve are mainly used on the hydraulic circuit delivery pipe. Below are some typical application examples:

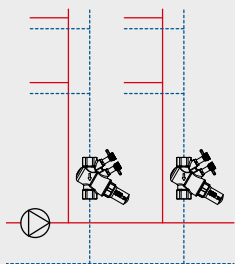


FIGURE 1

Automatic flow control valve with rising pillars balancing function.

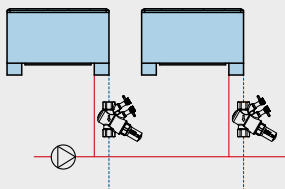


FIGURE 2

Automatic flow control valve with the function of serving in-line terminal elements (radiators, convectors, fan-coils, etc.).

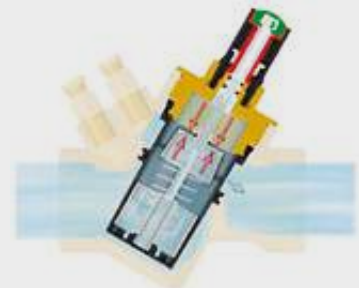
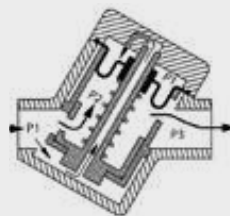


## OPERATING PRINCIPLE

Pressure P2 is determined by the membrane reacting to pressure P1 acting on the membrane upper chamber.

Interacting with the spring, the difference (P1-P2) remains constant, while maintaining a steady  $\Delta P$  through the orifice. As a result, a constant flow rate is obtained through the valve, regardless of the variations of the pressure difference between upstream and downstream.

Orifice bore



KEY:

P1 and P3: Circuit pressure values

P2: Pressure determined by membrane

$\Delta P = (P1 - P3) =$  Total pressure difference between upstream/downstream

→ Indicates pressure variations

→ Indicates the flow direction



### Series 2873.B

#### Pressure independent control valve.

It allows to keep the flow rate to the desired level even when pressure conditions change in the circuit where it is inserted.

Brass body.  
Polymer cartridge with elastomer diaphragm.  
Indicator with graduated scale.  
Threaded connections FF UNI-EN-ISO 228.

- Max operating pressure 16 Bar
- Allowed temperatures -20 ÷ +120 °C
- Allowed fluid water and water+glycol 50%
- Pressure gauge plugs connection G1/8"

Code	Measure	DP (kPa)	Flow rate (m <sup>3</sup> /h)	Cartridge	Pack	Outer	Cat.
<b>2873.04.50</b>	1/2"	16-200	0,037 - 0,575	G	1	1	22.01
<b>2873.04.60</b>	1/2"	30-400	0,064 - 1,110	B	1	1	22.01
<b>2873.05.50</b>	3/4"	16-200	0,037 - 0,575	G	1	1	22.01
<b>2873.05.60</b>	3/4"	30-400	0,064 - 1,110	B	1	1	22.01
<b>2873.06.50</b>	1"	16-200	0,037 - 0,575	G	1	1	22.01
<b>2873.06.60</b>	1"	30-400	0,064 - 1,110	B	1	1	22.01

G = O.R. Grey

B = O.R. Black



Replaceable cartridge. See Service Division.  
Cartridges are available in different colours for both the pressure field and flow rate to be immediately identified.



For flow rate adjustment use accessory spanner code 2961.00.02 (see page 243).

Optional actuator series 2881 - 2882 to be ordered separately (see page 243).



### Series 2874.B

#### Pressure independent control valve, provided with pressure plugs.

It allows to keep the flow rate to the desired level even when pressure conditions change in the circuit where it is inserted.

Brass body.  
Polymer cartridge with elastomer diaphragm.  
Indicator with graduated scale.  
Threaded connections FF UNI-EN-ISO 228.

- Max operating pressure 16 Bar
- Allowed temperatures -20 ÷ +120 °C
- Allowed fluid water and water+glycol 50%
- Pressure gauge plugs connection G1/8"

Code	Measure	DP (kPa)	Flow rate (m <sup>3</sup> /h)	Cartridge	Pack	Outer	Cat.
<b>2874.04.50</b>	1/2"	16-200	0,037 - 0,575	G	1	1	22.01
<b>2874.04.60</b>	1/2"	30-400	0,064 - 1,110	B	1	1	22.01
<b>2874.05.50</b>	3/4"	16-200	0,037 - 0,575	G	1	1	22.01
<b>2874.05.60</b>	3/4"	30-400	0,064 - 1,110	B	1	1	22.01
<b>2874.06.50</b>	1"	16-200	0,037 - 0,575	G	1	1	22.01
<b>2874.06.60</b>	1"	30-400	0,064 - 1,110	B	1	1	22.01

G = O.R. Grey

B = O.R. Black



Replaceable cartridge. See Service Division.  
Cartridges are available in different colours for both the pressure field and flow rate to be immediately identified.  
Valve provided with two pressure plugs.



For flow rate adjustment use accessory spanner code 2961.00.02 (see page 243).

Optional actuator series 2881 - 2882 to be ordered separately (see page 243).



### Series 3717

#### Valve system that combines the pressure independent control valve with isolation, flushing, draining and commissioning components into a prefabricated tested and ready to install terminal bypass unit.

It allows pressure independent control ensuring full stroke against pressure fluctuation.  
It can be used also for flushing and isolating operations at whatever of commissioning and maintenance stage.  
The unit can be used for both heating and cooling.

All components made in DZR Brass.  
Threaded connections FF UNI-EN-ISO 228.

- Max operating pressure 25 Bar
- Allowed temperatures -10 ÷ +120 °C
- Allowed fluid water and water+glycol 50%

Code	Measure	Flow rate (m <sup>3</sup> /h)	Pack	Outer	Cat.
<b>3717.05.50</b>	3/4"	0,4	1	2	22.01
<b>3717.05.60</b>	3/4"	0,7	1	2	22.01
<b>3717.05.70</b>	3/4"	1,3	1	2	22.01



Supplied with:  
isolation valves  
strainer  
draining point  
P/T plugs  
integrated venturi metering station  
PICV valve for flow, temperature and pressure control



# PRESSURE INDEPENDENT CONTROL VALVE

The pressure independent control valve allows adjusting and keeping the flow rate constant to the desired value, within a wide differential pressure range upstream and downstream. Therefore, it encloses the functions of a automatic flow control valve and a control valve in a single product.

The flow rate value is adjusted in the following ways:

- Through a cartridge adjustable from outside (manual operation to be carried out using a special accessory spanner) so as to limit the maximum set value.
- Through an electrothermal or electrical motor (automatic operation) according to the thermal loads required by the system.

During these operations/adjustments the valve does not need to be shut off.



## USE

It is particularly indicated in the following cases:

- Adjustment for pumping stations in central thermal fluid systems.
- Terminal balancing and adjustment on customer junctions.
- Third way adjustment and balancing on thermoregulation units.

## CHOICE

It is advisable to choose the pressure independent control valve, the pressure adjustment degree corresponding to about half the cartridge flow rate range.

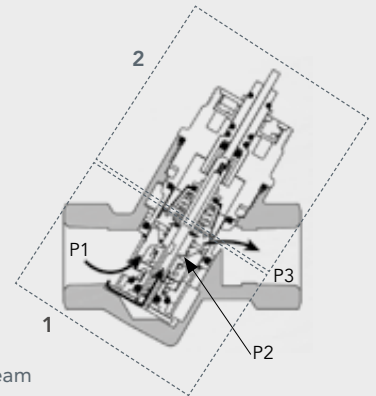
In this way, with the design nominal flow rate, a sufficient calibration margin is preserved so as to cope with any corrections due to inevitable route changes during work.

## OPERATING PRINCIPLE

Pressure P2 is determined by the membrane reacting to pressure P1 acting on the membrane upper chamber. Interacting with the spring, the difference (P1-P2) remains constant, while maintaining a steady  $\Delta P$  through the orifice. As a result, a **constant flow rate through the valve is obtained regardless of variations in the pressure difference between upstream and downstream, which can be adjusted by the motor depending on the system thermal requirements.**

### KEY:

- 1 Control device  $\Delta P$
- 2 Flow rate adjustment device
- P1 and P3: Circuit pressure values
- P2: Pressure determined by membrane
- $\Delta P = (P1 - P3) =$  Total pressure difference between upstream/downstream



## POSSIBLE APPLICATIONS

Pressure independent control valves are mainly used on the hydraulic circuit return pipe. Below are some typical application examples:

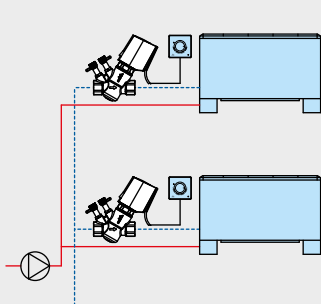


Figure 1

Pressure independent control valve with the function of serving in-line terminal elements (radiators, convectors, fancoils, etc.). Each valve provided with an thermoelectric motor is controlled by a thermostat/chronothermostat.

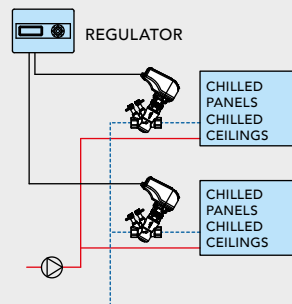


Figure 2

Pressure independent control valve with the function of serving terminal elements (chilled panels, chilled beams, etc.). Each valve provided with an electrical motor is managed by a controller (signal 0÷10V / 230V / 24V).





### Series 3566

**Portable electronic differential pressure and flow rate measuring instrument. Suitable for detecting work parameters of balancing valves and of measuring stub pipes. Battery-operated.**

Supplied complete with professional case and holes for connection to circuit.  
Pair of adapters code 932.01.00 not included.

- Max allowable static pressure: 20 Bar
- Measurement range: 2 kPa ÷ 600 kPa
- Accuracy: +/-2% of reading or +/-0.2 kPa whichever is the greater

Instrument with the following accessories:

- Pair of pressure plugs code 621.01.50
- Adapter kit code 1422.02.00
- Cartridge adjustment spanner code 2961.00.02

Code	Pack	Outer	Cat.
3566.00.00	1	1	22.01



Option of using the instrumental rental service. Contact RBM's sales department for the terms, conditions and prices.



### Series 932

**Pair of needle adapters to measure pressure.**

**Connection of the electronic differential pressure measuring instrument to the pressure plugs on the measuring stub pipes and RBM balancing valves.**

Brass body.  
Steel needle.  
Threaded connections F UNI-EN-ISO 228.

- Max operating pressure 16 Bar
- Max operating temperature 120 °C

Code	Measure	Pack	Outer	Cat.
932.01.00	1/8"	1	1	22.01



Used to connect pressure plugs code 621.01.50 to digital measuring instrument code 3566.00.00



### Series 621

**Pair of pressure plugs.**

Body and plugs in brass.  
Elastomer pressure plugs internal seals.  
Threaded connections M UNI-EN-ISO 228.

- Max operating pressure 16 Bar
- Max operating temperature 120 °C

Code	Measure	Pack	Outer	Cat.
621.01.50*	1/8"	1	10	22.01

\*Pressure plugs for balancing valves and threaded stub pipes.



Pressure plugs for needle adapters code 932.01.00  
Accessory supplied with the digital meter code 3566.00.00



### Series 1422

**1/4" M X 1/8" F reducing coupling pair. To adapt 1/8" gauge plugs, code 621.01.50, to stub pipes and RBM flanged balancing valves with 1/4" connection.**

Brass body.  
Elastomer seals.  
Threaded connections MF UNI-EN-ISO 228.

- Max operating pressure 16 Bar
- Max operating temperature 120 °C

Code	Size A	Size B	Pack	Outer	Cat.
1422.02.00	1/4" M	1/8" F	1	10	22.01



For pressure gauge connections other than the G 1/4" F standard, contact RBM for more specifications about the accessory to be connected to the measuring instrument.  
Accessory supplied with the digital meter code 3566.00.00







### Series 2882

**Electromechanical actuator. Complete with ring nut clamping to valve body and power supply cable.**

Normally closed valve position when power missing.

- Power supply 24/230 V
- Consumption 5 W
- Frequency 50 Hz
- Electric protection IP54
- Cable length 1 m

Code	Power supply	Pack	Outer	Cat.
2882.00.02	24V AC 0÷10V	1	1	22.01
2882.00.12	110-230V AC 3 POINTS	1	1	22.01
2882.00.22	24V AC 3 POINTS	1	1	22.01



Specific accessory for independent pressure control valve series 2873 and 2874.



### Series 2881

**Thermo-electric actuator. Complete with ring nut clamping to valve body and power supply cable.**

Normally closed valve position when power missing.

- Power supply 24/230 V
- Consumption 2,5 W
- Frequency 50 Hz
- Electric protection IP54
- Cable length 1 m
- Nominal thrust 170 N

Code	Power supply	Pack	Outer	Cat.
2881.00.12	24V AC/DC	1	50	22.01
2881.00.22	230V AC	1	50	22.01

Version without auxiliary microswitch (2 wires)



Specific accessory for independent pressure control valve series 2873 and 2874.



### Series 3537

**Adapter for the series 3535 and 3536 differential pressure control and balancing valve capillary pipe.**

Brass body.  
Threaded connection M UNI-EN-ISO 228.

- Max operating pressure 16 Bar
- Max operating temperature 120 °C

Code	Measure	Pack	Outer	Cat.
3537.01.00*	1/8"	1	1	22.01
3537.02.00**	1/4"	1	1	22.01

\*Suitable for connection with series 619 Balanflow balancing valves

\*\*Suitable for connection to ball valves with series 3465 water drain (refer to Sferika catalogue).



To be used to connect the capillary pipe of the series 3535 and 3536 differential pressure control and balancing valves to control wells with 1/8" or 1/4" connection.



### Series 2961

**Cap adjusting wrench.**

It allows to adjust the flow rate to the desired value, by acting on the cartridge. Such operation does not involve the valve.

Code	Pack	Outer	Cat.
2961.00.02	1	1	22.01



Specific accessory for automatic flow control valve and independent pressure control valve series 2873 and 2874.



Accessory supplied with the digital meter code 3566.00.00



**RBM**

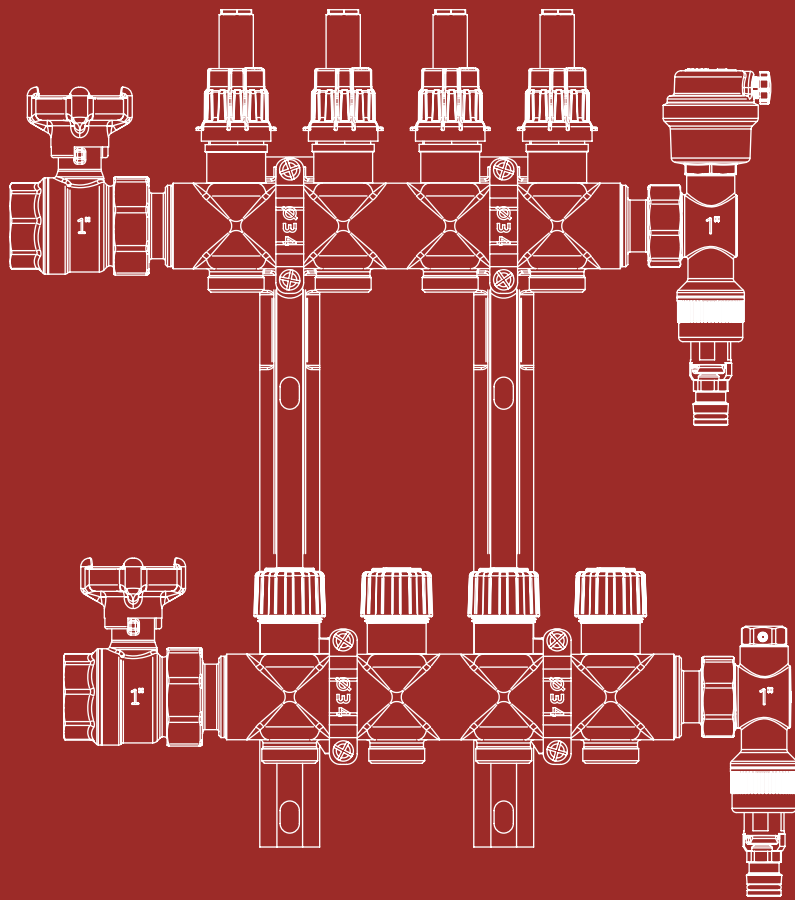
03. CLIMATE COMFORT

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GROUP		CATEGORY		LINE	
30. Radiant climate control systems	246	30.01 Manifolds	248	Brass compact manifold kits	249
				Polymer compact manifold kits	253
				1"1/4 manifold kits	256
				Manifold kits for large areas	257
				Manifold kits anticondensation	258
				Modular brass manifold kits	260
		30.02 Mixing and distribution units	266	Mixing and distribution units	267
				Kilma Basic 2 mixing unit	278
				Kilma Easy 2 mixing unit	280
		30.03 Housing boxes	283	Housing boxes	284
		30.04 Insulating panels	290	Insulating panels	291
		30.05 Dry insulating panels	293	Kilma Futura	294
		30.06 Piping	303	Polyethylene pipes	304
		30.07 Accessories for radiant systems	308	Accessories for radiant systems	309
Distribution accessories	318				
30.08 Temperature control	322	Thermostats, programmable thermostats and room humidity regulator	323		

03.  
CLIMATE  
COMFORT

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## **30. RADIANT CLIMATE CONTROL SYSTEMS**

### **30.01 MANIFOLDS**

248

Brass compact manifold kits  
Polymer compact manifold kits  
1"1/4 manifold kits  
Manifold kits for large areas  
Manifold kits anticondensation  
Modular brass manifold kits

### **30.02 MIXING AND DISTRIBUTION UNITS**

266

Mixing and distribution units  
Kilma Basic 2 mixing uNIT  
Kilma Easy 2 mixing unit

### **30.03 HOUSING BOXES**

283

Housing boxes

### **30.04 INSULATING PANELS**

290

Insulating panels

### **30.05 DRY INSULATING PANEL**

293

Kilma Futura

### **30.06 PIPING**

303

Polyethylene pipes

### **30.07 ACCESSORIES FOR RADIANT SYSTEMS**

308

Accessories for radiant systems  
Distribution accessories

### **30.08 TEMPERATURE CONTROL**

323

Thermostats, programmable thermostats and room humidity regulator

**03.  
CLIMATE  
COMFORT**

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**30. RADIANT CLIMATE CONTROL SYSTEMS**

**30.01 MANIFOLDS**

249

- Brass compact manifold kits
- Polymer compact manifold kits
- 1"1/4 manifold kits
- Manifold kits for large areas
- Manifold kits anticondensation
- Modular brass manifold kits

## Series 608



### Brass compact manifold kit.

Each kit contains:  
 n° 1 multi-way manifold unit complete with flow meters with lockshield and flow indicator function;  
 n° 1 multi-way manifold unit complete with valves with thermostatic option with hand wheel;  
 1 pair of plastic brackets for fixing manifolds.

- Temperature range 0÷80 °C
- Max operating pressure 10 Bar

Code	Measure	Ways	Pack	Outer	Cat.
608.26.10	1"	2+2	1	1	30.01
608.06.10	1"	3+3	1	1	30.01
609.06.10	1"	4+4	1	1	30.01
610.06.10	1"	5+5	1	1	30.01
611.06.10	1"	6+6	1	1	30.01
612.06.10	1"	7+7	1	1	30.01
613.06.10	1"	8+8	1	1	30.01
614.06.10	1"	9+9	1	1	30.01
615.06.10	1"	10+10	1	1	30.01
616.06.10	1"	11+11	1	1	30.01
616.12.10	1"	12+12	1	1	30.01
616.13.10	1"	13+13	1	1	30.01
616.14.10	1"	14+14	1	1	30.01

Centre distance connections through 50mm distribution -EUROCONUS G3/4" UNI-EN-ISO 228 threading



Manifold kit can be inserted in walls constructed in 8 cm box, plastered. Made up of flow meter supply indicator on each supply way. Loose packaged components. Use Euroconus fittings with G3/4" thread (see page 103) for pipe connection.

## Series 2028.A



### Brass compact manifold kit.

Each kit contains:  
 n° 1 multi-way manifold unit complete with flow meters with lockshield and flow indicator function;  
 n° 1 multi-way manifold unit complete with valves with thermostatic option with hand wheel;  
 1 pair of plastic brackets for fixing manifolds;  
 n° 2 thermometers 0÷80 °C;  
 n° 2 union fittings;  
 1 x 1" air / water automatic discharge terminal unit;  
 n° 1 manual 1" air / water discharge terminal unit.

- Temperature range 0÷80 °C
- Max operating pressure 10 Bar

Code	Measure	Ways	Pack	Outer	Cat.
2028.06.10	1"	2+2	1	1	30.01
2029.06.10	1"	3+3	1	1	30.01
2030.06.10	1"	4+4	1	1	30.01
2031.06.10	1"	5+5	1	1	30.01
2032.06.10	1"	6+6	1	1	30.01
2033.06.10	1"	7+7	1	1	30.01
2034.06.10	1"	8+8	1	1	30.01
2035.06.10	1"	9+9	1	1	30.01
2036.06.10	1"	10+10	1	1	30.01
2037.06.10	1"	11+11	1	1	30.01
2038.06.10	1"	12+12	1	1	30.01
2038.13.10	1"	13+13	1	1	30.01
2038.14.10	1"	14+14	1	1	30.01

Kit including distribution way connections centre distance 50mm, thread EUROCONUS G3/4" UNI-EN-ISO 228



Manifold kit can be inserted in walls constructed in 8 cm box, plastered. Made up of flow meter supply indicator on each supply way. Loose packaged components. Use Euroconus fittings with G3/4" thread (see page 103) for pipe connection. Composition that can be used in combination with mixing units.



## Series 2028.C



### Brass compact manifold kit.

- Temperature range 0÷80 °C
- Max operating pressure 10 Bar
- Each kit contains:
  - n° 1 multi-way manifold unit complete with flow meters with lockshield and flow indicator function;
  - n° 1 multi-way manifold unit complete with valves with thermostatic option with hand wheel;
  - 1 pair of plastic brackets for fixing manifolds;
  - n° 2 1" ball valves with built-in thermometer 0÷80 °C;
  - n° 2 union fittings;
  - 1 x 1" air / water automatic discharge terminal unit;
  - n° 1 manual 1" air / water discharge terminal unit.

Code	Measure	Ways	Pack	Outer	Cat.
2028.06.20	1"	2+2	1	1	30.01
2029.06.20	1"	3+3	1	1	30.01
2030.06.20	1"	4+4	1	1	30.01
2031.06.20	1"	5+5	1	1	30.01
2032.06.20	1"	6+6	1	1	30.01
2033.06.20	1"	7+7	1	1	30.01
2034.06.20	1"	8+8	1	1	30.01
2035.06.20	1"	9+9	1	1	30.01
2036.06.20	1"	10+10	1	1	30.01
2037.06.20	1"	11+11	1	1	30.01
2038.06.20	1"	12+12	1	1	30.01
2038.13.20	1"	13+13	1	1	30.01
2038.14.20	1"	14+14	1	1	30.01

Centre distance connections through 50mm distribution -EUROCONUS G3/4" UNI-EN-ISO 228 threading



Manifold kit can be inserted in walls constructed in 8 cm box, plastered. Made up of flow meter supply indicator on each supply way. Loose packaged components. Use Euroconus fittings with G3/4" thread (see page 103) for pipe connection.







### Series 3784.A

**Insulation casing for single manifold, made of expanded polyethylene half-bearings with external antiscratch coating.**

Fire behaviour class I  
Density 33 kg/m<sup>3</sup>  
Max operating temperature -40 ÷ +90 °C

Code	Measure	Pack	Outer	Cat.
3784.10.10*	1"	1	1	30.01
3784.14.10**	1"	1	1	30.01

\*for 2-10 way manifolds

\*\*for 11-14 way manifolds



Can be coupled to 2028 series brass manifolds.



### Series 3784.B

**Insulation shell for terminal unit with series 449 automatic vent valve made from expanded polyethylene half-bearings with external anti-scratch coating.**

Fire behaviour class I  
Density 33 kg/m<sup>3</sup>  
Max operating temperature -40 ÷ +90 °C

Code	Measure	Pack	Outer	Cat.
3784.00.10	1"1/4	1	1	30.01



Can be coupled to terminal unit code 449.06.053.



### Series 3784.C

**Insulation shell for terminal unit with series 450 manual vent valve made from expanded polyethylene half-bearings with external anti-scratch coating.**

Fire behaviour class I  
Density 33 kg/m<sup>3</sup>  
Max operating temperature -40 ÷ +90 °C

Code	Measure	Pack	Outer	Cat.
3784.00.20	1"	1	1	30.01



Can be coupled to terminal unit code 450.06.053.



### Series 3785

**Insulation shell for series 67.A ball valve, made of expanded polyethylene half-bearings with external antiscratch coating.**

Fire behaviour class I  
Density 33 kg/m<sup>3</sup>  
Max operating temperature -40 ÷ +90 °C

Code	Measure	Pack	Outer	Cat.
3785.00.00	1"	1	1	30.01



## COMPACT MANIFOLDS KIT

Polymer and brass for radiant climate control systems



Nickel-plated brass compact manifold kits



Technopolymer compact manifold kits



**Space-saving:** insertion in 80 mm thick boxes +

**Shut-off ball valves** with built-in thermometer

**Manual or automatic shut-off** on-off of individual circuits

**Micrometric control of the passing flow** to balance the circuits

**Easier system supply/discharge:** thanks to terminal valves 1

**Direct reading on flow meter** of flow rate value in transit on individual circuit

**Flow meter with adjustment memory function** (memory stop)

**Manifold with micro-corrosion retention chamber:** allows purging of accumulated residues through the tap 1

**Attention to materials:** RBM offers manifolds made of externally nickel-plated brass and/or technopolymer; high quality materials for maximum reliability over time; not subject to corrosion that can impair the functioning of the system, unlike steel manifolds

**Made in one piece:** no possibility of leakage (unlike those made from bar stock)

**Built-in automatic venting valve**

## Series 1410.A



### Compact polymer manifolds kit.

Each kit contains:  
 n° 1 multi-way manifold unit complete with flow meters with lockshield and flow indicator function;  
 n° 1 multi-way manifold unit complete with valves with thermostatic option with hand wheel;  
 1 pair of plastic brackets for fixing manifolds.

- Temperature range 5÷80°C
- Max. operating pressure 8 Bar

Code	Measure	Ways	Pack	Outer	Cat.
1410.06.10	1"	2+2	1	1	30.01
1411.06.10	1"	3+3	1	1	30.01
1412.06.10	1"	4+4	1	1	30.01
1413.06.10	1"	5+5	1	1	30.01
1414.06.10	1"	6+6	1	1	30.01
1415.06.10	1"	7+7	1	1	30.01
1416.06.10	1"	8+8	1	1	30.01
1417.06.10	1"	9+9	1	1	30.01
1418.06.10	1"	10+10	1	1	30.01
1419.06.10	1"	11+11	1	1	30.01
1420.06.10	1"	12+12	1	1	30.01
1420.13.10	1"	13+13	1	1	30.01
1420.14.10	1"	14+14	1	1	30.01

Centre distance connections through 50mm distribution -EUROCONUS G3/4" UNI-EN-ISO 228 threading



Manifold kit can be inserted in walls constructed in 8 cm box, plastered.  
 Flow meter supply indicator on each supply way.  
 Use Euroconus fittings with G3/4" thread (see page 103) for pipe connection.



Warning: branch pipe fittings tightened to max torque of 30Nm.

## Series 1410.B



### Compact polymer manifolds kit.

Each kit contains:  
 n° 1 multi-way manifold unit complete with flow meters with lockshield and flow indicator function;  
 n° 1 multi-way manifold unit complete with valves with thermostatic option with hand wheel;  
 1 pair of plastic brackets for fixing manifolds; 2 thermometers 0-80°C;  
 n° 2 union fittings;  
 1 x 1" air / water automatic discharge terminal unit;  
 n° 1 manual 1" air / water discharge terminal unit.

- Temperature range 5÷80°C
- Max. operating pressure 8 Bar

Code	Measure	Ways	Pack	Outer	Cat.
1410.06.40	1"	2+2	1	1	30.01
1411.06.40	1"	3+3	1	1	30.01
1412.06.40	1"	4+4	1	1	30.01
1413.06.40	1"	5+5	1	1	30.01
1414.06.40	1"	6+6	1	1	30.01
1415.06.40	1"	7+7	1	1	30.01
1416.06.40	1"	8+8	1	1	30.01
1417.06.40	1"	9+9	1	1	30.01
1418.06.40	1"	10+10	1	1	30.01
1419.06.40	1"	11+11	1	1	30.01
1420.06.40	1"	12+12	1	1	30.01
1420.13.40	1"	13+13	1	1	30.01
1420.14.40	1"	14+14	1	1	30.01

Centre distance connections through 50mm distribution -EUROCONUS G3/4" UNI-EN-ISO 228 threading



Manifold kit can be inserted in walls constructed in 8 cm box, plastered.  
 Flow meter supply indicator on each supply way.  
 Use Euroconus fittings with G3/4" thread (see page 103) for pipe connection.  
 Composition that can be used in combination with mixing units.



Warning: branch pipe fittings tightened to max torque of 30Nm.



## Series 1410.D



### Compact polymer manifolds kit.

Each kit contains:

- n° 1 multi-way manifold unit complete with flow meters with lockshield and flow indicator function;
- n° 1 multi-way manifold unit complete with valves with thermostatic option with hand wheel;
- 1 pair of plastic brackets for fixing manifolds;
- n° 2 1" ball valves with built-in thermometer 0÷80 °C;
- n° 2 union fittings;
- 1 x 1" air / water automatic discharge terminal unit;
- n° 1 manual 1" air / water discharge terminal unit.

- Temperature range 5÷80 °C
- Max. operating pressure 8 Bar

Code	Measure	Ways	Pack	Outer	Cat.
1410.06.20	1"	2+2	1	1	30.01
1411.06.20	1"	3+3	1	1	30.01
1412.06.20	1"	4+4	1	1	30.01
1413.06.20	1"	5+5	1	1	30.01
1414.06.20	1"	6+6	1	1	30.01
1415.06.20	1"	7+7	1	1	30.01
1416.06.20	1"	8+8	1	1	30.01
1417.06.20	1"	9+9	1	1	30.01
1418.06.20	1"	10+10	1	1	30.01
1419.06.20	1"	11+11	1	1	30.01
1420.06.20	1"	12+12	1	1	30.01
1420.13.20	1"	13+13	1	1	30.01
1420.14.20	1"	14+14	1	1	30.01

Centre distance connections through 50mm distribution -EUROCONUS G3/4" UNI-EN-ISO 228 threading



Manifold kit can be inserted in walls constructed in 8 cm box, plastered. Flow rate indicator flow meters on each supply way, air vent valves. Loose packaged components. Use Euroconus fittings with G3/4" thread (see page 103) for pipe connection.



Warning: branch pipe fittings tightened to max torque of 30Nm.



**MANIFOLDS COUPLING 1" / HOUSING BOXES**

POLYMER ANTI CONDENSATION MANIFOLDS WITH RELIEF VALVE 1410 series												
2	3	4	5	6	7	8	9	10	11	12	13	14
L1 (mm) 285	L1 (mm) 335	L1 (mm) 385	L1 (mm) 435	L1 (mm) 485	L1 (mm) 535	L1 (mm) 585	L1 (mm) 635	L1 (mm) 685	L1 (mm) 795	L1 (mm) 845	L1 (mm) 895	L1 (mm) 945
L=400 Cod. 2606.40.02		L=600 Cod. 2606.60.02			L=800 Cod. 2606.80.02			L=1000 Cod. 2606.10.02				
L=550 Cod. 1972.55.00*					L=700 Cod. 1972.70.00*		L=850 Cod. 1972.85.00*		UNAVAILABLE QUICKBOX			

POLYMER ANTI CONDENSATION MANIFOLDS WITH BY-PASS 1410 series												
2	3	4	5	6	7	8	9	10	11	12	13	
L1 (mm) 370	L1 (mm) 420	L1 (mm) 470	L1 (mm) 520	L1 (mm) 570	L1 (mm) 620	L1 (mm) 670	L1 (mm) 720	L1 (mm) 770	L1 (mm) 880	L1 (mm) 930	L1 (mm) 980	
L=600 Cod. 2606.60.02				L=800 Cod. 2606.80.02				L=1000 Cod. 2606.10.02				
L=550 Cod. 1972.55.00*			L=700 Cod. 1972.70.00*			L=850 Cod. 1972.85.00*			UNAVAILABLE QUICKBOX			

BRASS MULTI-ZONE MODULAR MANIFOLDS WITH RELIEF VALVES 608 - 2028 series													
2	3	4	5	6	7	8	9	10	11	12	13	14	
L1 (mm) 280	L1 (mm) 330	L1 (mm) 380	L1 (mm) 430	L1 (mm) 480	L1 (mm) 530	L1 (mm) 580	L1 (mm) 630	L1 (mm) 680	L1 (mm) 745	L1 (mm) 795	L1 (mm) 845	L1 (mm) 895	
L=400 Cod. 2606.40.02		L=600 Cod. 2606.60.02			L=800 Cod. 2606.80.02			L=1000 Cod. 2606.10.02					
L=550 Cod. 1972.55.00*					L=700 Cod. 1972.70.00*		L=850 Cod. 1972.85.00*		UNAVAILABLE QUICKBOX				

BRASS MULTI-ZONE MODULAR MANIFOLDS WITH BY-PASS 608 - 2028 series												
2	3	4	5	6	7	8	9	10	11	12	13	
L1 (mm) 365	L1 (mm) 415	L1 (mm) 465	L1 (mm) 515	L1 (mm) 565	L1 (mm) 615	L1 (mm) 665	L1 (mm) 715	L1 (mm) 765	L1 (mm) 830	L1 (mm) 880	L1 (mm) 930	
L=600 Cod. 2606.60.02				L=800 Cod. 2606.80.02				L=1000 Cod. 2606.10.02				
L=550 Cod. 1972.55.00*			L=700 Cod. 1972.70.00*			L=850 Cod. 1972.85.00*			UNAVAILABLE QUICKBOX			

\* To house the manifolds in the Quickbox box it is necessary to use the dedicated brackets, supplied with the box

## Series 279



Code	Measure	Ways	Pack	Outer	Cat.
<b>279.07.00</b>	1"1/4	3+3	1	1	30.01
<b>280.07.00</b>	1"1/4	4+4	1	1	30.01
<b>281.07.00</b>	1"1/4	5+5	1	1	30.01
<b>282.07.00</b>	1"1/4	6+6	1	1	30.01
<b>283.07.00</b>	1"1/4	7+7	1	1	30.01
<b>284.07.00</b>	1"1/4	8+8	1	1	30.01
<b>285.07.00</b>	1"1/4	9+9	1	1	30.01
<b>286.07.00</b>	1"1/4	10+10	1	1	30.01
<b>287.07.00</b>	1"1/4	11+11	1	1	30.01
<b>288.07.00</b>	1"1/4	12+12	1	1	30.01

Centre distance connections through 50mm distribution -EUROCONUS G3/4" UNI-EN-ISO 228 threading

### 1"1/4 manifolds kit

Each kit consists of: (loose pieces)

n° 1 Manifold kit (depending on the required measurement)

n° 1 Air vent valve with 1"1/4 side attachment code 216.07.60

n° 1 manual discharge unit code. 450.07.00

n° 2 Ball valves with 1"1/4 fitting code 67.07.02

n° 1 pair of Ø 40 thermometers code 303.04.00

n° 2 1"1/4 connection fittings code 96.07.00

n° 3 or more 3/4" straight lockshields (EUROCONUS) code 215.05.50

(depending on the manifold outputs)

n° 3 or more 3/4" straight valves with thermostatic option

(EUROCONUS) code 267.05.50 (depending on the manifold outputs)



Use RBM fittings with Euroconus G3/4" thread for pipe connection.



## Series 1349



### Kilma High Flow 2" manifolds kit.

Each kit consists of: (pre-assembled pieces)  
 n° 2 Manifolds (composition based on request)  
 n° 2 metal clamping brackets with relative clamping screws and  
 vibration-damping supports.  
 Ball shut-off valves for each distribution way.  
 n° 1 Air vent valve  
 n° 1 Manual air discharge, system loading unit.

Code	Measure	Ways	Pack	Outer	Cat.
1348.09.02	2"	4+4	1	1	30.01
1349.09.02	2"	5+5	1	1	30.01
1350.09.02	2"	6+6	1	1	30.01
1351.09.02	2"	7+7	1	1	30.01
1352.09.02	2"	8+8	1	1	30.01
1353.09.02	2"	9+9	1	1	30.01
1354.09.02	2"	10+10	1	1	30.01
1355.09.02	2"	11+11	1	1	30.01
1356.09.02	2"	12+12	1	1	30.01
1357.09.02	2"	13+13	1	1	30.01
1358.09.02	2"	14+14	1	1	30.01

*Distribution way connections, centre distance 70 mm - G1" thread*



Use RBM fittings with G1" thread for pipe connection.



## Series 1002.A



### Kit for modular manifolds in anti-condensation polymer

Each kit consists of: (pre-assembled components)  
 n° 1 multi-way manifold unit complete with micrometric lockshield valves with graduated handwheel;  
 n° 1 multi-way manifold unit complete with valves with thermostatic option with hand wheel;  
 1 pair of plastic brackets for fixing manifolds.

- Temperature range 5÷80 °C
- Max. operating pressure 8 Bar

Code	Measure	Ways	Pack	Outer	Cat.
1002.06.60	1"	2+2	1	1	30.01
1003.06.60	1"	3+3	1	1	30.01
1004.06.60	1"	4+4	1	1	30.01
1005.06.60	1"	5+5	1	1	30.01
1006.06.60	1"	6+6	1	1	30.01
1007.06.60	1"	7+7	1	1	30.01
1008.06.60	1"	8+8	1	1	30.01
1009.06.60	1"	9+9	1	1	30.01
1010.06.60	1"	10+10	1	1	30.01
1011.06.60	1"	11+11	1	1	30.01
1012.06.60	1"	12+12	1	1	30.01
1013.06.60	1"	13+13	1	1	30.01

Centre distance connections through 50mm distribution -EUROCONUS G3/4" UNI-EN-ISO 228 threading  
 Patent nr. 262005



Adjustable lockshield valves with graduated hand wheel.  
 Manifolds with internal cavities with thermal insulation and anti-condensation functions.  
 Use RBM fittings with Euroconus G3/4" thread for pipe connection.



Warning: branch pipe fittings tightened to max torque of 30Nm.

## Series 1002.B



### Kit for modular manifolds in anti-condensation polymer

Each kit consists of: (pre-assembled components)  
 n° 1 multi-way manifold unit complete with flow meters with lockshield and flow indicator function;  
 n° 1 multi-way manifold unit complete with valves with thermostatic option with hand wheel;  
 1 pair of plastic brackets for fixing manifolds.

- Temperature range 5÷80 °C
- Max. operating pressure 8 Bar

Code	Measure	Ways	Pack	Outer	Cat.
1002.06.10	1"	2+2	1	1	30.01
1003.06.10	1"	3+3	1	1	30.01
1004.06.10	1"	4+4	1	1	30.01
1005.06.10	1"	5+5	1	1	30.01
1006.06.10	1"	6+6	1	1	30.01
1007.06.10	1"	7+7	1	1	30.01
1008.06.10	1"	8+8	1	1	30.01
1009.06.10	1"	9+9	1	1	30.01
1010.06.10	1"	10+10	1	1	30.01
1011.06.10	1"	11+11	1	1	30.01
1012.06.10	1"	12+12	1	1	30.01
1013.06.10	1"	13+13	1	1	30.01

Centre distance connections through 50mm distribution -EUROCONUS G3/4" UNI-EN-ISO 228 threading  
 Patent nr. 262005



Supply indicator flow meters on each supply way.  
 Manifolds with internal cavities with thermal insulation and anti-condensation functions.  
 Use Euroconus fittings with G3/4" thread (see page 103) for pipe connection.



Warning: branch pipe fittings tightened to max torque of 30Nm.





## Series 1002.C



### Kit for modular manifolds in anti-condensation polymer

Each kit contains:

- n° 1 multi-way manifold unit complete with flow meters with lockshield and flow indicator function;
- n° 1 multi-way manifold unit complete with valves with thermostatic option with hand wheel;
- 1 pair of plastic brackets for fixing manifolds;
- n° 2 1" ball valves with built-in thermometer 0÷80 °C;
- n° 2 union fittings;
- n° 1 automatic 1" air / water discharge terminal unit.
- n° 1 manual 1" air / water discharge terminal unit.

- Temperature range 5÷80 °C
- Max. operating pressure 8 Bar

Code	Measure	Ways	Pack	Outer	Cat.
1002.06.40	1"	2+2	1	1	30.01
1003.06.40	1"	3+3	1	1	30.01
1004.06.40	1"	4+4	1	1	30.01
1005.06.40	1"	5+5	1	1	30.01
1006.06.40	1"	6+6	1	1	30.01
1007.06.40	1"	7+7	1	1	30.01
1008.06.40	1"	8+8	1	1	30.01
1009.06.40	1"	9+9	1	1	30.01
1010.06.40	1"	10+10	1	1	30.01
1011.06.40	1"	11+11	1	1	30.01
1012.06.40	1"	12+12	1	1	30.01
1013.06.40	1"	13+13	1	1	30.01

Centre distance connections through 50mm distribution -EUROCONUS G3/4" UNI-EN-ISO 228 threading

Patent nr. 262005



Supply indicator flow meters on each supply way.

Manifolds with internal cavities with thermal insulation and anti-condensation functions.

Use RBM fittings with G3/4" Euroconus thread for pipe connection (217M.A and 224M.A series)



Warning: branch pipe fittings tightened to max torque of 30Nm.



## Series 3202.B



### Modular brass manifold kit with a 37mm centre-to-centre distance

Each kit contains:

- n° 1 multi-way manifold unit complete with flow meters with lockshield and flow indicator function;
- n° 1 multi-way manifold unit complete with valves with thermostatic option with hand wheel;
- n° 1 pair of steel brackets for mounting manifolds;
- n° 2 thermometers 0÷80 °C;
- 1 x 1" air / water automatic discharge terminal unit;
- n° 1 manual 1" air / water discharge terminal unit.

- Temperature range 0÷80 °C
- Max operating pressure 10 Bar

Code	Measure	Ways	Pack	Outer	Cat.
3202.06.10	1"	2+2	1	1	30.01
3203.06.10	1"	3+3	1	1	30.01
3204.06.10	1"	4+4	1	1	30.01
3205.06.10	1"	5+5	1	1	30.01
3206.06.10	1"	6+6	1	1	30.01
3207.06.10	1"	7+7	1	1	30.01
3208.06.10	1"	8+8	1	1	30.01
3209.06.10	1"	9+9	1	1	30.01
3210.06.10	1"	10+10	1	1	30.01
3211.06.10	1"	11+11	1	1	30.01
3212.06.10	1"	12+12	1	1	30.01
3213.06.10	1"	13+13	1	1	30.01
3214.06.10	1"	14+14	1	1	30.01

Centre distance between connections via distribution manifolds 37 mm - threading Standard RBM W24,5x19F



Manifold kit can be inserted in walls constructed in 8 cm box, plastered.

Made up of flow meter supply indicator on each supply way.

Use fittings with RBM Standard thread for pipe connection.

Set up RBM Series 3189 thermo-electric actuators to automatically shut off the single circuits.



## Series 3201.C

### Modular brass complete with valves with thermostatic option and manual handwheel.

- Temperature range 0 - 100 °C
- Max operating pressure 10 Bar

Code	Measure	Ways	Pack	Outer	Cat.
3201.06.30	1"	1	1	10	30.01
3202.06.30	1"	2	1	10	30.01
3203.06.30	1"	3	1	10	30.01
3204.06.30	1"	4	1	10	30.01
3205.06.30	1"	5	1	10	30.01

Centre distance between connections via distribution manifolds 37 mm - threading Standard RBM W24,5x19F



Use fittings with RBM Standard thread for pipe connection.

Available thermal insulation shell accessory cod. 3674.X0.02



## Series 3248

### Pair of steel brackets with collar for the aligned fixing of the series 3201 - 3202 brass modular manifolds.

Code	Pack	Outer	Cat.
3248.06.00	1	10	30.01



Suitable for RBM housing boxes cod. 2606.x0.02.

Provided as standard in 3202 series modular brass manifolds kits.





### Series 3201.A

**Modular manifold, complete with flow meters, with lockshield and flow indicator function.**

- Temperature range 0 - 80 °C
- Max operating pressure 10 Bar

Code	Measure	Ways	Pack	Outer	Cat.
3201.06.00	1"	1	1	10	30.01
3202.06.00	1"	2	1	10	30.01
3203.06.00	1"	3	1	10	30.01
3204.06.00	1"	4	1	10	30.01
3205.06.00	1"	5	1	10	30.01

Centre distance between connections via distribution manifolds 37 mm - threading Standard RBM W24,5x19F



Use fittings with RBM Standard thread for pipe connection.  
Available thermal insulation shell accessory cod. 3674.X0.02



### Series 8647

**Thermometer for 3615, 3201, 3202 series manifold kit**

- Thermometers scale 0 + 80°C

Code	Pack	Outer	Cat.
864.70.05	1	1	30.01



### Series 3201.B

**Modular manifold complete with micrometric lockshield regulating valves with graduated handwheel.**

- Temperature range 0 - 100 °C
- Max operating pressure 10 Bar

Code	Measure	Ways	Pack	Outer	Cat.
3201.06.20	1"	1	1	10	30.01
3202.06.20	1"	2	1	10	30.01
3203.06.20	1"	3	1	10	30.01
3204.06.20	1"	4	1	10	30.01
3205.06.20	1"	5	1	10	30.01

Centre distance between connections via distribution manifolds 37 mm - threading Standard RBM W24,5x19F



Use fittings with RBM Standard thread for pipe connection.  
Available thermal insulation shell accessory cod. 3674.X0.02



## Series 3615R



Code	Measure	Ways	Pack	Cat.
3615R0300	1"	3+3	1	30.01
3615R400	1"	4+4	1	30.01
3615R5300	1"	5+5	1	30.01
3615R600	1"	6+6	1	30.01
3615R700	1"	7+7	1	30.01
3615R800	1"	8+8	1	30.01
3615R900	1"	9+9	1	30.01
3615R1000	1"	10+10	1	30.01
3615R1100	1"	11+11	1	30.01
3615R1200	1"	12+12	1	30.01
3615R1300	1"	13+13	1	30.01
3615R1400	1"	14+14	1	30.01

Centre distance between connections via distribution manifolds 37 mm - threading Standard RBM W24,5x19F

## KILMA-ZONE

### Multi-zone brass modular manifolds kit.

- Temperature range 0÷80 °C
- Max operating pressure 10 Bar
- Each kit contains:
  - n° 1 multi-way manifold unit complete with flow meters with lockshield and flow indicator function;
  - n° 1 pair of steel brackets for mounting manifolds;
  - n° 2 thermometers 0÷80 °C;
  - 1 x 1" air / water automatic discharge terminal unit;
  - n° 1 manual 1" air / water discharge terminal unit.



Manifold kit can be inserted in walls constructed in 8 cm box, plastered. Made up of flow meter supply indicator on each supply way. Use fittings with RBM Standard thread for pipe connection. Set up Series 306 thermo-electric actuators to automatically shut off the single circuits. Provide for manifold with thermostatically-controlled valves Series 3616 (compulsory completion accessory to be chosen according to circuit management configuration).



## Series 3215

### Air and water automatic discharge terminal.

Standard installation on the delivery line of modular brass manifold kits.

- Pressure gauge holder connection G 1/8" (for RBM Ø 40 radial pressure gauge - scale 0 - 16 bar - Code 7469.005)

Code	Measure	Pack	Outer	Cat.
3215.06.50	1"	1	10	30.01



Pressure gauge holder connection G 1/8" (for RBM Ø 40 radial pressure gauge - scale 0 - 16 bar - Code 7469.005)  
Available thermal insulation shell accessory cod. 3672.00.02





### Series 3216

#### Air and water manual discharge terminal.

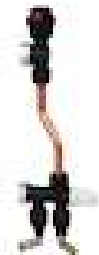
Standard installation on return line of modular brass manifold kits.

- Pressure gauge holder connection G 1/8" (for RBM Ø 40 radial pressure gauge - scale 0 - 16 bar - Code 7469.005)

Code	Measure	Pack	Outer	Cat.
3216.06.50	1"	1	10	30.01



Pressure gauge holder connection G 1/8" (for RBM Ø 40 radial pressure gauge - scale 0 - 16 bar - Code 7469.005)  
Available thermal insulation shell accessory cod. 3674.10.02



### Series 3217

#### By-pass group with rotatable elbow fittings for the system filling.

It consists of (loose pieces):

Automatic air vent;  
By-pass adjustment group;  
Fittings and connection pipe.

- Pressure gauge holder connection G 1/8" (for RBM ø 40 axial pressure gauge - scale 0 - 10 bar - Code 832.005)

Code	Measure	Pack	Outer	Cat.
3217.06.00	1"	1	10	30.01



It allows for by-pass fixed adjustment.



### Series 3672.A

#### Insulation shell for manual air and water discharge terminal unit series 3216 made of expanded polyethylene half-bearings with external anti-scratch coating.

Half-bearings fixed with double-sided adhesive tape already applied.

- Max temperature application -40°C ÷ +90°C
- Fire behaviour class I
- Density 33 Kg/m<sup>3</sup>

Code	Pack	Outer	Cat.
3672.10.02	1	1	30.01



### Series 3672.B

#### Insulation shell for automatic air and water discharge terminal unit made from expanded polyethylene half-bearings with external anti-scratch coating.

Half-bearings fixed with double-sided adhesive tape already applied.

- Max temperature application -40°C ÷ +90°C
- Fire behaviour class I
- Density 33 Kg/m<sup>3</sup>

Code	Pack	Outer	Cat.
3672.00.02	1	1	30.01





### Series 3673

**Insulation shell for modular brass manifold with thermostatically-controlled valve series 3616, made of expanded polyethylene half-bearings with external anti-scratch coating.**

Half-bearings fixed with double-sided adhesive tape already applied.

- Max temperature application -40°C ÷ +90 °C
- Fire behaviour class I
- Density 33 Kg/m<sup>3</sup>

Code	Ways	Pack	Outer	Cat.
3673.10.02	1	1	1	30.01
3673.20.02	2	1	1	30.01
3673.30.02	3	1	1	30.01
3673.40.02	4	1	1	30.01
3673.50.02	5	1	1	30.01



Insulation can be combined with 3616 series manifold.



### Series 3674

**Insulation shell for manifold with flow meters or manifold with micrometric lockshield valves, made of expanded polyethylene half-bearings with external anti-scratch coating.**

Half-bearings fixed with double-sided adhesive tape already applied.

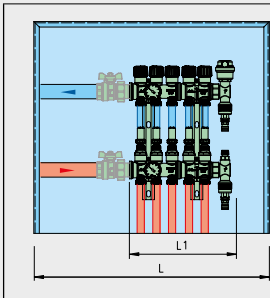
- Max temperature application -40°C ÷ +90 °C
- Fire behaviour class I
- Density 33 Kg/m<sup>3</sup>

Code	Ways	Pack	Outer	Cat.
3674.10.02	1	1	1	30.01
3674.20.02	2	1	1	30.01
3674.30.02	3	1	1	30.01
3674.40.02	4	1	1	30.01
3674.50.02	5	1	1	30.01

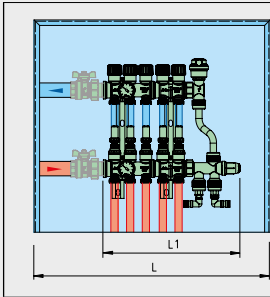


**MANIFOLD/HOUSING BOX COUPLING**

**COMPOSITION WITH RELIEF VALVES**



MODULAR BRASS MANIFOLDS WITH RELIEF VALVE series 3202												
2	3	4	5	6	7	8	9	10	11	12	13	14
L1 (mm) 133	L1 (mm) 170	L1 (mm) 207	L1 (mm) 247	L1 (mm) 284	L1 (mm) 321	L1 (mm) 358	L1 (mm) 398	L1 (mm) 435	L1 (mm) 472	L1 (mm) 509	L1 (mm) 549	L1 (mm) 586
BOX L=400 Code <b>2606.40.02</b> Code <b>3834R.40.12</b>				BOX L=600 Code <b>2606.60.02</b> Code <b>3834R.60.12</b>				HOUSING BOX L=800 Code <b>2606.80.02</b> Code <b>3834R.80.12</b>				
BOX L=550 Code <b>1972.55.00</b>								BOX L=700 Code <b>1972.70.00</b>				



MODULAR BRASS MANIFOLDS WITH BY-PASS series 3202												
2	3	4	5	6	7	8	9	10	11	12	13	14
L1 (mm) 208	L1 (mm) 245	L1 (mm) 282	L1 (mm) 322	L1 (mm) 359	L1 (mm) 396	L1 (mm) 433	L1 (mm) 473	L1 (mm) 510	L1 (mm) 547	L1 (mm) 584	L1 (mm) 624	L1 (mm) 661
BOX L=400 Code <b>2606.40.02</b> Code <b>3834R.40.12</b>		BOX L=600 Code <b>2606.60.02</b> Code <b>3834R.60.12</b>				HOUSING BOX L=800 Code <b>2606.80.02</b> Code <b>3834R.80.12</b>						
BOX L=550 Code <b>1972.55.00</b>								BOX L=700 Code <b>1972.70.00</b>				

80 mm clearance was already considered for the installation of an accessory shut-off valve to define the coupling of the manifolds/housing boxes kit.

**GUIDE TO THE CHOICE OF INSULATING CASING FOR MANIFOLD KIT SERIES 3202**

The choice of insulating casings to insulate the manifold kit must be carried out according to the precise configuration of the single modules that comprise the delivery and return manifold kit. Refer to the table below for the correct codes to order.

No. of manifold kit branches	Module composition	Supply and return manifold insulation codes	Drain units insulation codes
3	3	3674.30.02 (2 pcs)	3672.00.02 + 3672.10.02
4	4	3674.40.02 (2 pcs)	3672.00.02 + 3672.10.02
5	5	3674.50.02 (2 pcs)	3672.00.02 + 3672.10.02
6	3+3	3674.30.02 (4 pcs)	3672.00.02 + 3672.10.02
7	3+4	3674.30.02 (2 pcs) + 3674.40.02 (2 pcs)	3672.00.02 + 3672.10.02
8	4+4	3674.40.02 (4 pcs)	3672.00.02 + 3672.10.02
9	5+4	3674.50.02 (2 pcs) + 3674.40.02 (2 pcs)	3672.00.02 + 3672.10.02
10	5+5	3674.50.02 (4 pcs)	3672.00.02 + 3672.10.02
11	3+4+4	3674.30.02 (2 pcs) + 3674.40.02 (4 pcs)	3672.00.02 + 3672.10.02
12	4+4+4	3674.40.02 (6 pcs)	3672.00.02 + 3672.10.02
13	5+4+4	3674.50.02 (2 pcs) + 3674.40.02 (4 pcs)	3672.00.02 + 3672.10.02
14	5+5+4	3674.50.02 (4 pcs) + 3674.40.02 (2 pcs)	3672.00.02 + 3672.10.02

**03.**  
**CLIMATE**  
**COMFORT**

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**30. RADIANT CLIMATE CONTROL SYSTEMS**

**30.02 MIXING AND DISTRIBUTION UNITS**

267

Mixing and distribution units

Kilma Basic 2 mixing uNIT

Kilma Easy 2 mixing unit





### Series 782.A

#### KILMA-EVO-RM-AT Climate mixing unit Kilma-EVO-RM AT series.

Mixing and distribution unit for low and high temperature circuits, comprised of: H.T. manifold, circulation pump, manifold recirculation by-pass and mixing unit in-one; modulating adjustment using injection unit with servomotor, electronic climatic control unit, safety thermostat, external probe, immersed internal probe (low temperature delivery).

- System side connection centre distance 90 mm, G 3/4" ball valve connections.
- Centre distance of connections on the diverter line of the high temperature manifold 45 mm, Euroconus G 3/4" threaded connections

Code	Pump	Pack	Outer	Cat.
782.06.51	Para 15/7 SC 130	1	1	30.02

High performance adjustable flow pump EEI<0.23 - ERP 622/2012



Use RBM fittings with Euroconus G3/4" thread for connection to the H.T. manifold.

For matching manifolds, please refer to the Manifolds category in the RBM catalogue. Provide for assemblies without ball shut-off valves.

Minimum recessed depth of the accessory containment metal case 130 mm.



### Series 782.B

#### KILMA-EVO-RF-AT Fixed Point mixing unit Kilma-EVO-RF AT series.

Mixing and distribution unit for low and high temperature circuits, comprised of: H.T. manifold, circulation pump, manifold recirculation by-pass and mixing unit in-one; fixed value adjustment, using injection valve with thermostatic head with internal probe (low temperature delivery), immersed safety thermostat.

- System side connection centre distance 90 mm, G 3/4" ball valve connections.
- Centre distance of connections on the diverter line of the high temperature manifold 45 mm, Euroconus G 3/4" threaded connections

Code	Pump	Pack	Outer	Cat.
782.06.61	Para 15/7 SC 130	1	1	30.02

High performance adjustable flow pump EEI<0.23 - ERP 622/2012



Use RBM fittings with Euroconus G3/4" thread for connection to the H.T. manifold.

For matching manifolds, please refer to the Manifolds category in the RBM catalogue. Provide for assemblies without ball shut-off valves.

Minimum recessed depth of the accessory containment metal case 130 mm.



### Series 701.A

#### KILMA-ECO-RF-AT Fixed Point mixing unit Kilma-ECONBLOCK RF-AT series.

Mixing and distribution unit for low and high temperature circuits, comprised of: H.T. manifold, circulation pump, mixing manifold, including non-return valve and control return unit; fixed value adjustment using injection valve with thermostatic head with internal probe (low temperature delivery), immersed safety thermostat.

- System side connection centre distance 90 mm, G 3/4" ball valve connections.
- Centre distance of connections on the diverter line of the high temperature manifold 45 mm, Euroconus G 3/4" threaded connections

Code	Pump	Pack	Outer	Cat.
701.06.61	Para 15/7 SC 130	1	1	30.02

High performance adjustable flow pump EEI<0.23 - ERP 622/2012



Use Euroconus fittings with G 3/4" thread (see page 318) to connect the pipe to the H.T. manifold.

For matching manifolds, refer to the Manifold kit section of this catalogue (see page 249). Provide for assemblies without ball shut-off valves.

Minimum recessed depth of the accessory containment metal case 130 mm.





### Series 1531.A

#### KILMA-ECO-RF-AT Polymer Fixed Point mixing unit Kilma- ECONBLOCK RF-AT series in Polymer.

Mixing and distribution unit for low and high temperature circuits, comprised of: H.T. manifold, circulation pump, mixing manifold, including non-return valve and control return unit; fixed value adjustment using injection valve with thermostatic head with internal probe (low temperature delivery), immersed safety thermostat.

- System side connection centre distance 111 mm, G 3/4" ball valve connections.
- Centre distance between outlet connections for high temperature 37 mm, Standard threaded RBM connections

Code	Pump	Pack	Outer	Cat.
1531.06.71	Para 15/7 SC 130	1	1	30.02

high performance adjustable flow pump EEI<0.23 - ERP 622/2012



Use fittings with Standard RBM thread (see pg. 253) to connect the pipe to the H.T. manifold.

For matching manifolds, refer to the Manifold kit section of this catalogue (see page 249). Provide for assemblies without ball shut-off valves.

Minimum recessed depth of the accessory containment metal case 130 mm.



Warning: branch pipe fittings tightened to max torque of 30Nm.



### Series 770.A

#### KILMA-EVO-RM Climate mixing unit Kilma-EVO-RM series.

Mixing and distribution unit for low temperature circuits, comprised of: circulation pump, manifold recirculation by-pass, boiler recirculation by-pass and mixing unit in-one; modulating adjustment using injection unit with servomotor, electronic climatic control unit, safety thermostat, external probe, immersed internal probe (low temperature delivery).

- System side connection centre distance 111 mm, G 3/4" ball valve connections and thermostatic mixer.

Code	Pump	Pack	Outer	Cat.
770.06.51	Para 15/7 SC 130	1	1	30.02

high performance adjustable flow pump EEI<0.23 - ERP 622/2012



For matching manifolds, please refer to the Manifolds category in the RBM catalogue. Provide for assemblies without ball shut-off valves.

Minimum recessed depth of the accessory containment metal case 130 mm.



### Series 770.B

#### KILMA-EVO-RF Fixed Point mixing unit Kilma-EVO-RF series.

Mixing and distribution unit for low temperature circuits, comprised of: circulation pump, manifold recirculation by-pass, boiler recirculation by-pass and mixing unit in-one; fixed value adjustment using injection valve with thermostatic head with internal probe (low temperature delivery) immersed safety thermostat.

- System side connection centre distance 111 mm, G 3/4" ball valve connections and thermostatic mixer.

Code	Pump	Pack	Outer	Cat.
770.06.61	Para 15/7 SC 130	1	1	30.02

high performance adjustable flow pump EEI<0.23 - ERP 622/2012



For matching manifolds, please refer to the Manifolds category in the RBM catalogue. Provide for assemblies without ball shut-off valves.

Minimum recessed depth of the accessory containment metal case 130 mm.





### Series 701.B

#### KILMA-ECO-RF Fixed Point mixing unit Kilma- ECONBLOCK RF series.

Mixing and distribution unit for low temperature circuits, comprised of: circulation pump, mixing manifold, including non-return valve and control return unit; fixed value adjustment using injection valve with thermostatic head with internal probe (low temperature delivery), immersed safety thermostat.

- System side connection centre distance 111 mm, G 1/2" F connections.

Code	Pump	Pack	Outer	Cat.
701.06.51	Para 15/7 SC 130	1	1	30.02

high performance adjustable flow pump EEI<0.23 - ERP 622/2012



For matching manifolds, refer to the Manifold kit section of this catalogue (see page 249). Provide for assemblies without ball shut-off valves.

Minimum recessed depth of the accessory containment metal case 130 mm.



### Series 1531.B

#### KILMA-ECO-RF Polymer Fixed Point mixing unit Kilma- ECONBLOCK RF series in Polymer.

Mixing and distribution unit for low temperature circuits, comprised of: circulation pump, mixing manifold, including non-return valve and control return unit; fixed value adjustment using injection valve with thermostatic head with internal probe (low temperature delivery), immersed safety thermostat.

- System side connection centre distance 111 mm, G 1/2" M connections.

Code	Pump	Pack	Outer	Cat.
1531.06.51	Para 15/7 SC 130	1	1	30.02

high performance adjustable flow pump EEI<0.23 - ERP 622/2012



For matching manifolds, refer to the Manifold kit section of this catalogue (see page 249). Provide for assemblies without ball shut-off valves.

Minimum recessed depth of the accessory containment metal case 130 mm.



### Series 3523

#### Kilma-ECOMIX RF series Fixed Point mixing unit.

Mixing and distribution unit for low temperature circuits consisting of: circulation pump and thermostatic mixer.

- G 1" M system side connections.

#### ECOMIX RF 50 mixing unit

Code	Pump	Pack	Outer	Cat.
3523.06.51	Para 15/7 SC 130	1	1	30.02

high performance adjustable flow pump EEI<0.23 - ERP 622/2012

To be matched to manifolds with a 50 mm centre distance (see page 249)

#### ECOMIX RF 37 mixing unit

Code	Pump	Pack	Outer	Cat.
3523.06.37	Para 15/7 SC 130	1	1	30.02

high performance adjustable flow pump EEI<0.23 - ERP 622/2012

To be matched to manifolds with a 37 mm centre distance (series 3615 and 3202)



For matching manifolds, refer to the Manifold kit section of this catalogue (see page 249). Provide for assemblies without ball shut-off valves.

Minimum recessed depth of the accessory containment metal case 130 mm.



## Series 782.C



### KILMA EVO-RM2

Code	Measure	Ways	Width (mm)	Height (mm)	Pack	Outer	Cat.
<b>782.06.80</b>	1"	3+3	800	700÷820	1	1	30.02
<b>783.06.80</b>	1"	4+4	800	700÷820	1	1	30.02
<b>784.06.80</b>	1"	5+5	800	700÷820	1	1	30.02
<b>785.06.80</b>	1"	6+6	800	700÷820	1	1	30.02
<b>786.06.80</b>	1"	7+7	1000	700÷820	1	1	30.02
<b>787.06.80</b>	1"	8+8	1000	700÷820	1	1	30.02
<b>788.06.80</b>	1"	9+9	1000	700÷820	1	1	30.02
<b>789.06.80</b>	1"	10+10	1200	700÷820	1	1	30.02
<b>790.06.80</b>	1"	11+11	1200	700÷820	1	1	30.02
<b>790.12.80</b>	1"	12+12	1200	700÷820	1	1	30.02
<b>790.13.80</b>	1"	13+13	1200	700÷820	1	1	30.02

high performance adjustable flow pump  $EEL < 0.23$  - ERP 622/2012

Available version is equipped with 3-way H.T. distribution manifold with thermostatically controlled valves and lockshield regulating valves. Ordering code becomes 1xxx.xx.xx (request price).

Box depth 110÷160 mm

### Insulation casing

Code	Pack	Outer	Cat.
<b>3705.00.02*</b>	1	1	30.02
<b>3705.00.12**</b>	1	1	30.02

\* Specific insulation casing for mixing valve, circulator and well

\*\* Specific insulation casing for H.T. manifold.

### KILMA-EVO-RM2

#### Climate Control Unit Kilma-Evo-RM2 series

Distribution unit for low and high temperature circuits consisting of: specific manifolds, circulation pump and mixing unit integrated together: modulating adjustment by means of injection unit with actuator, electronic climate mixing unit, safety thermostat, external probe, internal probe (low temperature delivery) with well, all housed in a recessed metal case with locking hatch; Including: supply control flow meters, thermostatically controlled valves on the return line, 1 automatic air vent valve/degasser, equipped with connection for system filling, 1 air manual discharge unit, system loading 2 shut-off ball valves, thermometers for reading delivery and return temperatures.

- Centre distance between attachments on the plant side 90 mm.
- Centre distance of connections on the diverter line of the high temperature manifold 45 mm, Euroconus G 3/4" threaded connections
- Centre distance of connections on the diverter line of the low temperature manifold 50 mm, Euroconus G 3/4" threaded connections



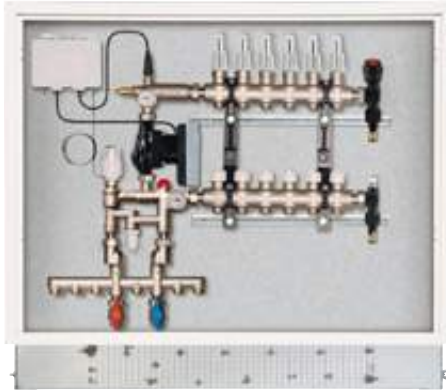
The case size enables installation of the Bypass unit code 910.06.00

Use RBM fittings with Euroconus G3/4" thread for connection to the H.T. manifold.

Use RBM fittings with Euroconus G3/4" thread for connection to the L.T. manifold.



## Series 782.D



### KILMA EVO-RF2

Code	Measure	Ways	Width (mm)	Height (mm)	Pack	Outer	Cat.
<b>782.06.90</b>	1"	3+3	800	700÷820	1	1	30.02
<b>783.06.90</b>	1"	4+4	800	700÷820	1	1	30.02
<b>784.06.90</b>	1"	5+5	800	700÷820	1	1	30.02
<b>785.06.90</b>	1"	6+6	800	700÷820	1	1	30.02
<b>786.06.90</b>	1"	7+7	1000	700÷820	1	1	30.02
<b>787.06.90</b>	1"	8+8	1000	700÷820	1	1	30.02
<b>788.06.90</b>	1"	9+9	1000	700÷820	1	1	30.02
<b>789.06.90</b>	1"	10+10	1000	700÷820	1	1	30.02
<b>790.06.90</b>	1"	11+11	1200	700÷820	1	1	30.02
<b>790.12.90</b>	1"	12+12	1200	700÷820	1	1	30.02
<b>790.13.90</b>	1"	13+13	1200	700÷820	1	1	30.02

high performance adjustable flow pump EEI<0.23 - ERP 622/2012

Available version is equipped with 3-way H.T. distribution manifold with valves with thermostatic capacity and lockshield regulating valves. Order code becomes 1xxx.xx.xx. Box depth 110÷160 mm

### Insulation casing

Code	Pack	Outer	Cat.
<b>3705.00.02*</b>	1	1	30.02

\* Specific insulation casing for mixing valve, circulator and well

### KILMA-EVO-RF2

#### Fixed Point Control Unit Kilma-Evo-RF2 series

Control unit for low and high temperature circuits consisting of: Specific manifolds, circulation pump and injection unit integrated together; fixed value adjustment, by means of injection valve with thermostatic head, internal probe (low temperature delivery), safety thermostat with well, all housed in a recessed metal case with locking hatch; Including: supply control flow meters, thermostatically controlled valves on the return line, 1 automatic air vent valve / degasser, equipped with connections for system filling, 1 air manual discharge unit, system loading, 2 shut-off ball valves, thermometers for reading delivery and return temperatures.

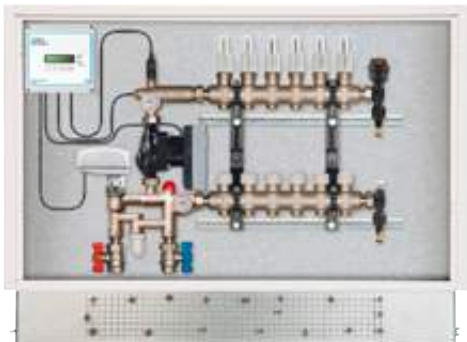
- Centre distance between attachments on the plant side 90 mm.
- Centre distance of connections on the diverter line of the high temperature manifold 45 mm, Euroconus G 3/4" threaded connections
- Centre distance of connections on the diverter line of the low temperature manifold 50 mm, Euroconus G 3/4" threaded connections



The case size enables installation of the Bypass unit code 910.06.00 Use RBM fittings with Euroconus G3/4" thread for connection to the H.T. manifold.  
Use RBM fittings with Euroconus G3/4" thread for connection to the L.T. manifold.



## Series 770.C



Code	Measure	Ways	Width (mm)	Height (mm)	Pack	Outer	Cat.
770.06.80	1"	3+3	800	700÷820	1	1	30.02
771.06.80	1"	4+4	800	700÷820	1	1	30.02
772.06.80	1"	5+5	800	700÷820	1	1	30.02
773.06.80	1"	6+6	800	700÷820	1	1	30.02
774.06.80	1"	7+7	1000	700÷820	1	1	30.02
775.06.80	1"	8+8	1000	700÷820	1	1	30.02
776.06.80	1"	9+9	1000	700÷820	1	1	30.02
777.06.80	1"	10+10	1000	700÷820	1	1	30.02
778.06.80	1"	11+11	1200	700÷820	1	1	30.02
778.12.80	1"	12+12	1200	700÷820	1	1	30.02
778.13.80	1"	13+13	1200	700÷820	1	1	30.02

high performance adjustable flow pump EEI<0.23 - ERP 622/2012

Box depth 110÷160 mm

The FLUSH WALL version is available for the control units in the list with a 10% surcharge.

When placing the order, add FP to the end of each individual code.

### KILMA-EVO-RM4

#### Climate Control Unit Kilma-Evo-RM4 series

Control distribution unit for low temperature circuits consisting of: specific manifolds, circulation pump, boiler recirculating by-pass and mixing unit integrated together: modulating regulation by means of injection unit with actuator, electronic climate control unit, safety thermostat, external probe, internal probe (low temperature delivery) with well, all housed in a recessed metal case with locking hatch; Including: supply control flow meters, thermostatically controlled valves on the return line, 1 automatic air vent valve/degasser, equipped with connection for system filling, 1 air manual discharge unit, system loading, 2 shut-off ball valves, thermometers for reading delivery and return temperatures.

- Centre distance between attachments on the plant side 111 mm.
- Centre distance of connections on the diverter line of the low temperature manifold 50 mm, Euroconus G 3/4" threaded connections

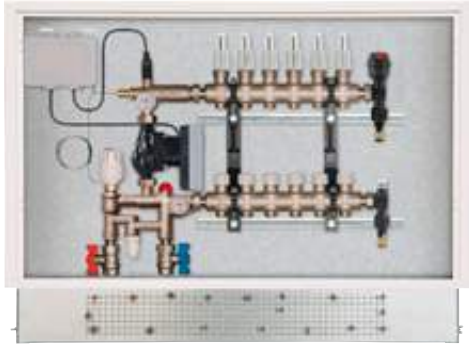


The case size enables installation of the Bypass unit code 910.06.00  
Use RBM fittings with Euroconus G3/4" thread for connection to the L.T. manifold.





## Series 770.D



Code	Measure	Ways	Width (mm)	Height (mm)	Pack	Outer	Cat.
770.06.90	1"	3+3	800	700÷820	1	1	30.02
771.06.90	1"	4+4	800	700÷820	1	1	30.02
772.06.90	1"	5+5	800	700÷820	1	1	30.02
773.06.90	1"	6+6	800	700÷820	1	1	30.02
774.06.90	1"	7+7	1000	700÷820	1	1	30.02
775.06.90	1"	8+8	1000	700÷820	1	1	30.02
776.06.90	1"	9+9	1000	700÷820	1	1	30.02
777.06.90	1"	10+10	1000	700÷820	1	1	30.02
778.06.90	1"	11+11	1200	700÷820	1	1	30.02
778.12.90	1"	12+12	1200	700÷820	1	1	30.02
778.13.90	1"	13+13	1200	700÷820	1	1	30.02

High performance adjustable flow pump  $EEI < 0.23$  - ERP 622/2012  
Box depth 110÷160 mm

### KILMA-EVO-RF4

#### Fixed Point Control Unit Kilma-EVO-RF4 series

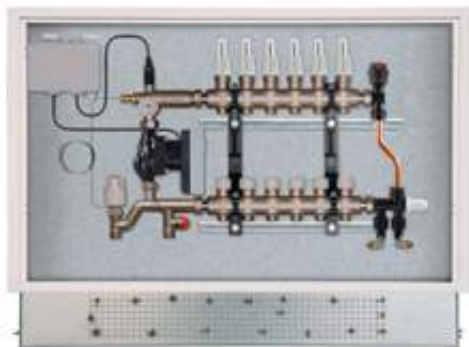
Control unit for low temperature circuits consisting of: Specific manifolds, circulation pump and injection unit integrated together; fixed value adjustment, by means of injection valve with thermostatic head, internal probe (low temperature delivery), safety thermostat with well, all housed in a recessed metal case with locking hatch; Including: supply control flow meters, thermostatically controlled valves on the return line, 1 automatic air vent valve /degasser, equipped with connections for system filling, 1 air manual discharge unit, system loading, 2 shut-off ball valves, thermometers for reading delivery and return temperatures.

- Centre distance between attachments on the plant side 111 mm.
- Centre distance of connections on the diverter line of the low temperature manifold 50 mm, Euroconus G 3/4" threaded connections



The case size enables installation of the bypass unit code 910.06.00  
Use RBM fittings with Euroconus G3/4" thread for connection to the L.T. manifold.

## Series 701.C



Code	Measure	Ways	Width (mm)	Height (mm)	Pack	Outer	Cat.
701.06.50	1"	3+3	800	700÷820	1	1	30.02
702.06.50	1"	4+4	800	700÷820	1	1	30.02
703.06.50	1"	5+5	800	700÷820	1	1	30.02
704.06.50	1"	6+6	800	700÷820	1	1	30.02
705.06.50	1"	7+7	1000	700÷820	1	1	30.02
706.06.50	1"	8+8	1000	700÷820	1	1	30.02
707.06.50	1"	9+9	1000	700÷820	1	1	30.02
708.06.50	1"	10+10	1200	700÷820	1	1	30.02
709.06.50	1"	11+11	1200	700÷820	1	1	30.02
709.12.50	1"	12+12	1200	700÷820	1	1	30.02

high performance adjustable flow pump  $EEI < 0.23$  - ERP 622/2012  
Box depth 110÷160 mm

The FLUSH WALL version is available for the control units in the list with a 10% surcharge.  
When placing the order, add FP to the end of each individual code.

### KILMA-ECONBLOCK RF

#### Fixed Point control unit Kilma-ECONBLOCK RF series

Distribution control unit for low temperature circuits consisting of: specific manifolds, circulation pump, mixing manifold, including non-return valve and control return unit; fixed point control through injection valve with thermostatic head internal probe (low temperature flow), immersion safety thermostat, all housed in a built-in metal case with locking hatch. Including: flow control meters, flow thermometer, valves with thermostatic option on return, 1 automatic air vent valve / air separator valve, adjustable by-pass valve equipped with connections for system filling.

Model recommended for use with electrothermic heads.

- Centre distance between attachments on the plant side 111 mm.
- Centre distance of connections on the diverter line of the low temperature manifold 50 mm, Euroconus G 3/4" threaded connections



Use Euroconus fittings with G 3/4" thread (see page 318) to connect the pipe to the L.T. manifold.



## Series 701.D



Code	Measure	Ways	Width (mm)	Height (mm)	Pack	Outer	Cat.
701.06.60	1"	3+3	800	700÷820	1	1	30.02
702.06.60	1"	4+4	800	700÷820	1	1	30.02
703.06.60	1"	5+5	800	700÷820	1	1	30.02
704.06.60	1"	6+6	800	700÷820	1	1	30.02
705.06.60	1"	7+7	1000	700÷820	1	1	30.02
706.06.60	1"	8+8	1000	700÷820	1	1	30.02
707.06.60	1"	9+9	1000	700÷820	1	1	30.02
708.06.60	1"	10+10	1200	700÷820	1	1	30.02
709.06.60	1"	11+11	1200	700÷820	1	1	30.02
709.12.60	1"	12+12	1200	700÷820	1	1	30.02

high performance adjustable flow pump EEI<0.23 - ERP 622/2012

Available version is equipped with 3-way H.T. distribution manifold with thermostatically controlled valves and lockshield regulating valves. Ordering code becomes 1xxx.xx.xx (request price).

Box depth 110÷160 mm

The FLUSH WALL version is available for the control units in the list with a 10% surcharge.

When placing the order, add FP to the end of each individual code.

### KILMA-ECONBLOCK RF-AT

#### Fixed Point control unit Kilma-ECONBLOCK RF-AT series

Distribution control unit for low and high temperature circuits consisting of: specific manifolds, circulation pump, mixing manifold, including non-return valve and control return unit; fixed point control through injection valve with thermostatic head internal probe (low temperature flow), immersion safety thermostat, all housed in a built-in metal case with locking hatch. Including: supply control flow meters, delivery thermometer, valves with thermostatic option on return,, 1 automatic air vent valve / air separator valve, adjustable by-pass unit equipped with connections for system filling, 2 shut-off ball valves. Model recommended for use with electrothermic heads.

- Centre distance between attachments on the plant side 90 mm.
- Centre distance of connections on the diverter line of the high temperature manifold 45 mm, Euroconus G 3/4" threaded connections
- Centre distance of connections on the diverter line of the low temperature manifold 50 mm, Euroconus G 3/4" threaded connections



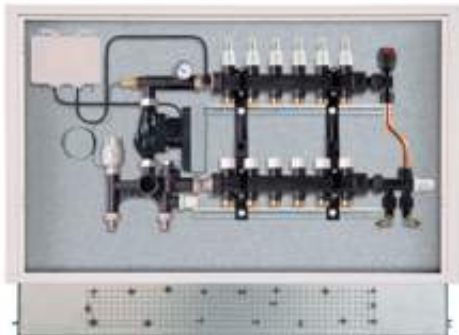
Use Euroconus fittings with G 3/4" thread (see page 318) to connect the pipe to the H.T. manifold.

Use Euroconus fittings with G 3/4" thread (see page 318) to connect the pipe to the L.T. manifold.





## Series 1531.C



### KILMA-ECONBLOCK RF Polymer Fixed Point control unit Kilma-ECONBLOCK RF series in Polymer

Distribution control unit for low temperature circuits consisting of: specific manifolds, circulation pump, mixing manifold, including non-return valve and control return unit; fixed point control through injection valve with thermostatic head internal probe (low temperature flow), immersion safety thermostat, all housed in a built-in metal case with locking hatch. Including: flow control meters, flow thermometer, valves with thermostatic option on return, 1 automatic air vent valve / air separator valve, adjustable by-pass valve equipped with connections for system filling.  
Model recommended for use with electrothermic heads.

- Centre distance between attachments on the plant side 111 mm.
- Centre distance of connections on the diverter line of the low temperature manifold 50 mm, Euroconus G 3/4" threaded connections

Code	Measure	Ways	Width (mm)	Height (mm)	Pack	Outer	Cat.
1531.06.50	1"	3+3	800	700÷820	1	1	30.02
1532.06.50	1"	4+4	800	700÷820	1	1	30.02
1533.06.50	1"	5+5	800	700÷820	1	1	30.02
1534.06.50	1"	6+6	800	700÷820	1	1	30.02
1535.06.50	1"	7+7	1000	700÷820	1	1	30.02
1536.06.50	1"	8+8	1000	700÷820	1	1	30.02
1537.06.50	1"	9+9	1000	700÷820	1	1	30.02
1538.06.50	1"	10+10	1200	700÷820	1	1	30.02
1539.06.50	1"	11+11	1200	700÷820	1	1	30.02
1540.06.50	1"	12+12	1200	700÷820	1	1	30.02

high performance adjustable flow pump EEI<0.23 - ERP 622/2012

Box depth 120÷160 mm

The FLUSH WALL version is available for the control units in the list with a 10% surcharge.

When placing the order, add FP to the end of each individual code.



Use Euroconus fittings with G 3/4" thread (see page 318) to connect the pipe to the L.T. manifold.



Warning: branch pipe fittings tightened to max torque of 30Nm.



## Series 1531.D



Code	Measure	Ways	Width (mm)	Height (mm)	Pack	Outer	Cat.
1531.06.70	1"	3+3	800	700÷820	1	1	30.02
1532.06.70	1"	4+4	800	700÷820	1	1	30.02
1533.06.70	1"	5+5	800	700÷820	1	1	30.02
1534.06.70	1"	6+6	800	700÷820	1	1	30.02
1535.06.70	1"	7+7	1000	700÷820	1	1	30.02
1536.06.70	1"	8+8	1000	700÷820	1	1	30.02
1537.06.70	1"	9+9	1000	700÷820	1	1	30.02
1538.06.70	1"	10+10	1200	700÷820	1	1	30.02
1539.06.70	1"	11+11	1200	700÷820	1	1	30.02
1540.06.70	1"	12+12	1200	700÷820	1	1	30.02

high performance adjustable flow pump EEI<0.23 - ERP 622/2012

Box depth 130÷160 mm

The FLUSH WALL version is available for the control units in the list with a 10% surcharge.

When placing the order, add FP to the end of each individual code.

### KILMA-ECONBLOCK RF-AT Polymer Fixed Point control unit Kilma-ECONBLOCK RF-AT series in Polymer

Distribution control unit for low and high temperature circuits consisting of: specific manifolds, circulation pump, mixing manifold, including non-return valve and control return unit; fixed point control through injection valve with thermostatic head internal probe (low temperature flow), immersion safety thermostat, all housed in a built-in metal case with locking hatch. Including: supply control flow meters, delivery thermometer, thermostatic valves on return, 1 automatic air vent valve / air separator valve, adjustable by-pass unit equipped with connections for system filling, 2 shut-off ball valves. Model recommended for use with electrothermic heads.

- Centre distance between attachments on the plant side 111 mm.
- Centre distance between outlet connections for high temperature 37 mm, Standard threaded RBM connections
- Centre distance of connections on the diverter line of the low temperature manifold 50 mm, Euroconus G 3/4" threaded connections



Use fittings with Standard RBM thread for pipe connection to the H.T. manifold.

Use Euroconus fittings with G 3/4" thread (see page 318) to connect the pipe to the L.T. manifold.



Warning: branch pipe fittings tightened to max torque of 30Nm.

## Series 3524



Code	Measure	Ways	Width (mm)	Height (mm)	Pack	Outer	Cat.
3524.06.90	1"	3+3	800	700÷820	1	1	30.02
3525.06.90	1"	4+4	800	700÷820	1	1	30.02
3526.06.90	1"	5+5	800	700÷820	1	1	30.02
3527.06.90	1"	6+6	800	700÷820	1	1	30.02
3528.06.90	1"	7+7	1000	700÷820	1	1	30.02
3529.06.90	1"	8+8	1000	700÷820	1	1	30.02
3530.06.90	1"	9+9	1000	700÷820	1	1	30.02
3531.06.90	1"	10+10	1000	700÷820	1	1	30.02
3532.06.90	1"	11+11	1200	700÷820	1	1	30.02
3533.06.90	1"	12+12	1200	700÷820	1	1	30.02

high performance adjustable flow pump EEI<0.23 - ERP 622/2012

Box depth 130÷160 mm

The FLUSH WALL version is available for the control units in the list with a 10% surcharge.

When placing the order, add FP to the end of each individual code.

### KILMA-ECOMIX-RF Kilma-ECOMIX RF series Fixed Point control unit

Distribution unit for low temperature circuits consisting of: specific manifolds, circulation pump, thermostatic mixer, all placed in a metal case with door designed for recessed installation. Includes: delivery control flowmeters, valves with thermostatic option on return, 1 automatic air vent/degasser valve fitted with a connection to fill the system and 1 air discharge manual unit.

- G 1" system side connections
- Centre distance of connections on the diverter line of the low temperature manifold 50 mm, Euroconus G 3/4" threaded connections



Use Euroconus fittings with G 3/4" thread (see page 318) to connect the pipe to the L.T. manifold.



**Series 941**

Code	Pump	Pack	Outer	Cat.
<b>941.05.60</b>	Para 15/7 SC 130	1	1	30.02

*Centre distance between attachments on the plant side 111 mm.  
high performance adjustable flow pump EEI<0.23 - ERP 622/2012*

**KILMA-EKONPAKT****Fixed Point Control Unit Kilma-EKONPAKT series.**

Distribution control unit for low temperature circuits consisting of mixing manifold including:  
fixed-point setting unit by means of injection valve with thermostatic head internal immersion probe, air vent valve, safety thermostat, circulation pump, non return valve, circuit control unit, assembly of motorized shut-off valves on the return.

**Series 2623****Mixing manifold and probe holder unit for Kilma-ECONBLOCK RF series Fixed Point control unit.**

unit comprised of: mixing manifold, including non-return valve and control return unit; fixed value adjustment using injection valve with thermostatic head with internal probe (low temperature delivery), probe holder unit and connector for circulation pump.

Code	Pack	Outer	Cat.
<b>2623.06.00</b>	1	1	30.02



## Series 3691.A



### Kilma Basic2

Code	Measure	Ways	Width (mm)	Height (mm)	Pack	Outer	Cat.
3691.02.60	1"	2+2	800	700÷820	1	1	30.02
3691.03.60	1"	3+3	800	700÷820	1	1	30.02
3691.04.60	1"	4+4	800	700÷820	1	1	30.02
3691.05.60	1"	5+5	800	700÷820	1	1	30.02
3691.06.60	1"	6+6	800	700÷820	1	1	30.02
3691.07.60	1"	7+7	1000	700÷820	1	1	30.02
3691.08.60	1"	8+8	1000	700÷820	1	1	30.02
3691.09.60	1"	9+9	1000	700÷820	1	1	30.02
3691.10.60	1"	10+10	1200	700÷820	1	1	30.02
3691.11.60	1"	11+11	1200	700÷820	1	1	30.02
3691.12.60	1"	12+12	1200	700÷820	1	1	30.02
3691.13.60	1"	13+13	1200	700÷820	1	1	30.02
3691.14.60	1"	14+14	1200	700÷820	1	1	30.02

high performance adjustable flow pump EEI<0.23 - ERP 622/2012

Box depth 110 ÷ 160 mm

The FLUSH WALL version is available for the control units in the list with a 10% surcharge.

When placing the order, add FP to the end of each individual code.

### Insulation casing

Code	Pack	Outer	Cat.
3705.00.02*	1	1	30.02

\*Specific insulation casing for mixing valve, circulator and well

### Kilma Basic2

#### "Kilma Basic2" distribution module in kit

Distribution module pre-assembled in wall flush mounted kit suitable for hydronic heating and cooling circuits.

The module is supplied with Kilma EVO2 HC internal regulator. Insulation casing, of the brass parts, not included.

- Centre distance between attachments on the plant side 111 mm.
- Centre distance of connections on the diverter line of the low temperature manifold 50 mm, Euroconus G 3/4" threaded connections.



External temperature probe available, code 3502.00.12

The case size enables installation of the Bypass unit code 910.06.00 (except for 14-branch composition).

Product specific for summer/winter radiant climate control.



## Series 3691.B



### Kilma Basic2 H.T.

Code	Measure	Ways	Width (mm)	Height (mm)	Pack	Outer	Cat.
3691.02.70	1"	2+2	800	700÷820	1	1	30.02
3691.03.70	1"	3+3	800	700÷820	1	1	30.02
3691.04.70	1"	4+4	800	700÷820	1	1	30.02
3691.05.70	1"	5+5	800	700÷820	1	1	30.02
3691.06.70	1"	6+6	800	700÷820	1	1	30.02
3691.07.70	1"	7+7	1000	700÷820	1	1	30.02
3691.08.70	1"	8+8	1000	700÷820	1	1	30.02
3691.09.70	1"	9+9	1000	700÷820	1	1	30.02
3691.10.70	1"	10+10	1200	700÷820	1	1	30.02
3691.11.70	1"	11+11	1200	700÷820	1	1	30.02
3691.12.70	1"	12+12	1200	700÷820	1	1	30.02
3691.13.70	1"	13+13	1200	700÷820	1	1	30.02
3691.14.70	1"	14+14	1200	700÷820	1	1	30.02

high performance adjustable flow pump EEI<0.23 - ERP 622/2012

Box depth 110 ÷ 160 mm

The FLUSH WALL version is available for the control units in the list with a 10% surcharge.

When placing the order, add FP to the end of each individual code.

### Insulation casing

Code	Pack	Outer	Cat.
3705.00.02*	1	1	30.02
3705.00.12**	1	1	30.02

\*Specific insulation casing for mixing valve, circulator and well

\*\*Specific insulation casing for H.T. manifold.

### Kilma Basic2 H.T.

#### "Kilma Basic2 H.T." distribution module in kit

Distribution module pre-assembled in wall flush mounted kit suitable for hydronic heating and cooling circuits.

The module is supplied with Kilma Basic RM internal regulator.

H.T. manifold thermostatically controlled.

Insulation casing, of the brass parts, not included.

- Centre distance between attachments on the plant side 90 mm.
- Centre distance of connections on the diverter line of the low temperature manifold 50 mm, Euroconus G 3/4" threaded connections.
- Centre distance of connections on the diverter line of the high temperature manifold 45 mm, Euroconus G 3/4" threaded connections.



External temperature probe available, code 3502.00.12

The case size enables installation of the Bypass unit code 910.06.00 (except for 14-branch composition).

Product specific for summer/winter radiant climate control.



## Series 3691.C



### Kilma Easy2

Code	Measure	Ways	Width (mm)	Height (mm)	Pack	Outer	Cat.
<b>3691.02.50</b>	1"	2+2	800	700÷820	1	1	30.02
<b>3691.03.50</b>	1"	3+3	800	700÷820	1	1	30.02
<b>3691.04.50</b>	1"	4+4	800	700÷820	1	1	30.02
<b>3691.05.50</b>	1"	5+5	800	700÷820	1	1	30.02
<b>3691.06.50</b>	1"	6+6	800	700÷820	1	1	30.02
<b>3691.07.50</b>	1"	7+7	1000	700÷820	1	1	30.02
<b>3691.08.50</b>	1"	8+8	1000	700÷820	1	1	30.02
<b>3691.09.50</b>	1"	9+9	1000	700÷820	1	1	30.02
<b>3691.10.50</b>	1"	10+10	1200	700÷820	1	1	30.02
<b>3691.11.50</b>	1"	11+11	1200	700÷820	1	1	30.02
<b>3691.12.50</b>	1"	12+12	1200	700÷820	1	1	30.02
<b>3691.13.50</b>	1"	13+13	1200	700÷820	1	1	30.02
<b>3691.14.50</b>	1"	14+14	1200	700÷820	1	1	30.02

high performance adjustable flow pump EEI<0.23 - ERP 622/2012

Box depth 110 ÷ 160 mm

### Insulation casing

Code	Pack	Outer	Cat.
<b>3705.00.02*</b>	1	1	30.02

\*Specific insulation casing for mixing valve, circulator and well

### Kilma Easy2

#### Kilma Easy2 distribution module in kit

Distribution module pre-assembled in wall flush mounted kit suitable for hydronic heating and cooling circuits.

The Module can be electrically connected to the thermoregulators in the Kilma Set 2 series.

Insulation casing, of the brass parts, not included.

Centre distance between attachments on the plant side 111 mm.

Centre distance of connections on the diverter line of the low temperature manifold 50 mm, Euroconus G 3/4" threaded connections.



The case size enables installation of the Bypass unit code 910M.06.00 (except for the 14-branch composition).

Use RBM fittings with Euroconus G 3/4" thread 217.A and 224.A series for pipe connection to the manifold.

Product specific for summer/winter radiant climate control.



## Series 3691.D



### Kilma Easy2 H.T.

Code	Measure	Ways	Width (mm)	Height (mm)	Pack	Outer	Cat.
<b>3691.02.00</b>	1"	2+2	800	700÷820	1	1	30.02
<b>3691.03.00</b>	1"	3+3	800	700÷820	1	1	30.02
<b>3691.04.00</b>	1"	4+4	800	700÷820	1	1	30.02
<b>3691.05.00</b>	1"	5+5	800	700÷820	1	1	30.02
<b>3691.06.00</b>	1"	6+6	800	700÷820	1	1	30.02
<b>3691.07.00</b>	1"	7+7	1000	700÷820	1	1	30.02
<b>3691.08.00</b>	1"	8+8	1000	700÷820	1	1	30.02
<b>3691.09.00</b>	1"	9+9	1000	700÷820	1	1	30.02
<b>3691.10.00</b>	1"	10+10	1200	700÷820	1	1	30.02
<b>3691.11.00</b>	1"	11+11	1200	700÷820	-	1	30.02
<b>3691.12.00</b>	1"	12+12	1200	700÷820	1	1	30.02
<b>3691.13.00</b>	1"	13+13	1200	700÷820	1	1	30.02
<b>3691.14.00</b>	1"	14+14	1200	700÷820	1	1	30.02

high performance adjustable flow pump EEI<0.23 - ERP 622/2012

Box depth 110 ÷ 160 mm

The FLUSH WALL version is available for the control units in the list with a 10% surcharge.

When placing the order, add FP to the end of each individual code.

### Insulation casing

Code	Pack	Outer	Cat.
<b>3705.00.02*</b>	1	1	30.02
<b>3705.00.12**</b>	1	1	30.02

\*Specific insulation casing for mixing valve, circulator and well

\*\*Specific insulation casing for H.T. manifold.

### Kilma Easy2 H.T.

#### Kilma Easy2 A.T. distribution module in kit

Distribution module pre-assembled in wall flush mounted kit suitable for hydronic heating and cooling circuits.

The Module can be electrically connected to the thermoregulators in the Kilma Set 2 series.

H.T. manifold thermostatically controlled.

Insulation casing, of the brass parts, not included.

Centre distance between attachments on the plant side 90 mm.

Centre distance of connections on the diverter line of the low temperature manifold 50 mm, Euroconus G 3/4" threaded connections.

Centre distance of connections on the diverter line of the high temperature manifold 45 mm, Euroconus G 3/4" threaded connections.



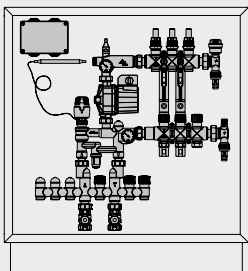
The case size enables installation of the Bypass unit code 910.06.00 (except for 14-branch composition).

Product specific for summer/winter radiant climate control.

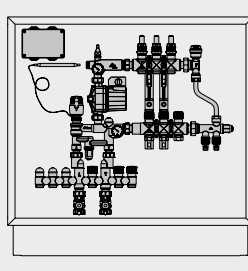


**MODULAR DISTRIBUTION SYSTEMS COUPLING AT + BT / HOUSING BOXES**

**COMPOSITION WITH RELIEF VALVES**

	NUMBER OF B.T. MANIFOLDS												
	2	3	4	5	6	7	8	9	10	11	12	13	
	HOUSING BOX L=800 Cod. <b>9241.005</b>				HOUSING BOX L=1000 Cod. <b>9242.005</b>				HOUSING BOX L=1200 Cod. <b>9243.005</b>				

**COMPOSITION WITH BY-PASS UNIT**

	NUMBER OF B.T. MANIFOLDS												
	2	3	4	5	6	7	8	9	10	11	12	13	
	HOUSING BOX L=800 Cod. <b>9241.005</b>				HOUSING BOX L=1000 Cod. <b>9242.005</b>				HOUSING BOX L=1200 Cod. <b>9243.005</b>				UNA- VAILABLE



**03.  
CLIMATE  
COMFORT**

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**30. RADIANT CLIMATE CONTROL SYSTEMS**

**30.03 HOUSING BOXES**

284

Housing boxes

# HOUSING AND INSPECTION BOXES FOR AIR CONDITIONING SYSTEMS

RBM's wide range of housing and inspection boxes is specially designed for manifolds and mixing units for air conditioning systems.

Choose **the most comprehensive solution on the market**, formulated to meet every functional and aesthetic need while guaranteeing high quality and maximum performance.





**Box 1 flush with the wall  
Series 3834.R**  
Sizes:  
400x500 mm - 600x500 mm  
800x500 mm - 1000x500 mm



Paintable MDF cover +

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Telescopic frame



**Box1 Filo Parete  
Series 3844.R**  
Sizes:  
800x700 mm - 1000x700 mm  
1200x700 mm



Paintable MDF cover +

---

Telescopic frame



**Box Dev  
Series 4124**  
Sizes:  
400x500 mm - 600x500 mm  
800x500 mm - 1000x500 mm



Paintable cover +

---

Telescopic bottom



**Box1  
Series 2606.A**  
Sizes:  
400x500 mm - 600x500 mm  
800x500 mm - 1000x500 mm



Paintable cover +

---

Telescopic bottom



**Quickbox  
Series 1972**  
Sizes:  
550x400 mm - 700x400 mm  
850x400 mm



Paintable cover +

---

Telescopic bottom



**S-Box  
Series 9241**  
Sizes:  
800x700 mm - 1000x700 mm  
1200x700 mm



Telescopic bottom +



## Series 3834R

### Box 1 flush with the wall Inspection and housing box, flush with the wall installation.

Recessed metal case for manifolds, flush with the wall installation.

Paintable MDF cover.  
Telescopic frame 95 - 145 mm

Recessed metal case for manifolds, flush with the wall installation

Code	Dim. LxH (mm)	Pack	Outer	Cat.
<b>3834R4012</b>	400x500	1	1	30.03
<b>3834R6012</b>	600x500	1	1	30.03
<b>3834R8012</b>	800x500	1	1	30.03
<b>3834R1012</b>	1000x500	1	1	30.03

Adjustable depth 95 - 145 mm

Pair of floor-anchoring feet

Code	Pack	Outer	Cat.
<b>2948.00.02</b>	1	1	30.03

Maximum adjustable height 100 mm

Telescopic chassis/frame and cover.

Execution with movable guides for the free positioning of the components inside the box.

Universal box, suitable for housing 1" manifolds kit series 608, 2028, 1410, 1002, 3202.

Feet for fastening to the floor, ordered separately as accessories.



## 3844R series

### Box for Kilma control units, flush with the wall installation.

Paintable cover.

Code	Dim. LxH (mm)	Pack	Outer	Cat.
<b>3844R8002</b>	800x700	1	1	30.03
<b>3844R1002</b>	1000x700	1	1	30.03
<b>3844R1202</b>	1200x700	1	1	30.03



Feet included in the supply.

Maximum adjustable height 120 mm.



## BOX 1

Housing and inspection box.  
Flush wall installation.



It can be used with **simple and thermostatically controlled** manifolds for heating systems.  
Galvanised steel structure, MDF cover.

**Adjustable depth/telescopic bottom** +

Can be installed in **plasterboard and masonry walls**

**Tileable/paintable cover**

**Easy installation**

**Elegant, minimal design**, which can be integrated with architectural solutions





## Series 4124

### Box Dev Box for air-conditioning system manifolds.

Cover in MDF and white painted frame.  
Adjustable frame.

#### Box for air-conditioning system manifolds

Code	Dim. LxH (mm)	Pack	Outer	Cat.
<b>4124.40.00</b>	400x500	1	1	30.03
<b>4124.60.00</b>	600x500	1	1	30.03
<b>4124.80.00</b>	800x500	1	1	30.03
<b>4124.10.00</b>	1000x500	1	1	30.03

#### Pair of floor-anchoring feet

Code	Pack	Outer	Cat.
<b>2948.00.02</b>	1	1	30.03

Maximum adjustable height 100 mm

Telescopic chassis/frame and cover.

Execution with movable guides for the free positioning of the components inside the box.

Universal box, suitable for housing 1" manifolds kit series 608, 2028, 1410, 1002, 3202.

Feet for fastening to the floor, ordered separately as accessories.



## Series 2606.A

### Box1 Manifold containment and inspection box, for flush-mount installation.

Made of galvanized steel with bottom and side locks, complete with universal moveable guides for bracket mounting and removable paintable plastic lid. Feet for fastening to the floor, ordered separately.

#### Flush-mount manifold box, metal structure and plastic cover

Code	Dim. LxH (mm)	Pack	Outer	Cat.
<b>2606.40.02</b>	400x500	1	1	30.03
<b>2606.60.02</b>	600x500	1	1	30.03
<b>2606.80.02</b>	800x500	1	1	30.03
<b>2606.10.02</b>	1000x500	1	1	30.03

Adjustable depth 80-130 mm (overall depth 80-150 mm if considering the useful stroke of the screws used for fixing the plastic cover to the metal structure).

#### Pair of floor-anchoring feet

Code	Pack	Outer	Cat.
<b>2948.00.02</b>	1	1	30.03

Maximum adjustable height 100 mm

It can be inserted in walls made with 8 cm bricks, plastered on both sides.

Paintable plastic cover.

Telescopic chassis/frame and cover.

With actuators installed on valves with thermostatic option, provide extended cover clamping screws code 2155.005

Execution with movable guides for the free positioning of the components inside the box.

UNIVERSAL case, suitable for housing 1" manifolds Kit series 608 - 2028 - 1410 - 1002 - 3202 - 3615

Feet for fastening to the floor, ordered separately as accessories.





## Series 1972

### Quickbox Plastic manifold containment and inspection box, for flush-mount installation.

Plastic structure with bottom and side closures, complete with removable cover and manifold tube clips. Independent collars running lengthwise inside the guides.

Code	Dim. LxH (mm)	Pack	Outer	Cat.
1972.55.00	550x450	1	1	30.03
1972.70.00	700x450	5	1	30.03
1972.85.00	850x450	5	1	30.03

*adjustable depth 80÷100 mm*



It can be inserted in walls made with 8 cm bricks, plastered on both sides.

Plastic box. Paintable cover

Suitable for housing 1" manifolds Kit SERIES 608 - 2028 - 1410

Box not suitable to house compositions with motorised zone valve.



## Series 9241

### Metal containment box for Kilma control unit.

Code	Useful Dim. (mm)	Pack	Outer	Cat.
924.10.05	800x110÷160x700÷820	1	1	30.03
924.20.05	1000x110÷160x700÷820	1	1	30.03
924.30.05	1200x110÷160x700÷820	1	1	30.03



## Series 898

### Containment box for manifold inspection, wall mounted.

Made of painted steel sheet with bottom and side closures, complete with guides for manifold fixing, lid with closure lock

- Wall-installation (not flush-mount) for indoors.
- Height H adjustable with feet (730÷870 mm).
- Depth 235 mm.

Code	Length (mm)	Pack	Outer	Cat.
898.60.02	600	1	1	30.03
898.10.02	1000	1	1	30.03
898.15.02	1500	1	1	30.03



**03.**  
**CLIMATE**  
**COMFORT**

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**30. RADIANT CLIMATE CONTROL SYSTEMS**

**30.04 INSULATING PANELS**

291

Insulating panels



## Series 1361



Code	Useful Dim. (mm)	Insul. Th. (mm)	Heat Res.	Pack	Pack m <sup>2</sup>	Pallet m <sup>2</sup>	Cat.
<b>1361.10.00</b>	1300x800x33	10	0,303	18	18,72	93,60	30.04
<b>1361.18.00</b>	1300x800x40	18	0,545	14	14,56	72,80	30.04
<b>1361.28.00</b>	1300x800x50	28	0,848	10	10,40	52	30.04
<b>1361.42.00</b>	1300x800x65	42	1,273	7	7,28	36,40	30.04
<b>1361.50.00</b>	1300x800x73	50	1,515	6	6,24	31,20	30.04

### KILMA-SUPER-STRONG Panel "KILMA-SUPER-STRONG".

Insulating panel made of sintered expanded polystyrene closed-cell foam, with preformed relief parts for pipe housing, combined with anti-collision polystyrene pre-formed sheet.  
Suitable panel to make circuits with a 50mm pitch and multiple circuits.  
Coupling with an overlap of the pre-formed foil on one side.

- Real size: 1350x850 mm
- Useful Dim. 1300x800 mm
- Usable floor area 1.04 m<sup>2</sup>
- Foil thickness 0.6 mm
- EPS 150
- Euroclass E



It is highly resistant to pressure from foot traffic.  
Applicable piping diameter: 14÷17 mm.

Certifications:

Compliant with UNI-EN 13163  
- UNI 331 IIP certified - HBCD FREE



Compatible systems:

KILMA-ISI

## Series 1188



Code	Useful Dim. (mm)	Pack	Pack m <sup>2</sup>	Pallet m <sup>2</sup>	Cat.
<b>1188.20.02</b>	1300x800x23	24	24,96	124,80	30.04

### KILMA-STRONG Kilma STRONG thermoformed sheet

Pre-formed foil sheet in printed shockproof polystyrene.  
Suitable for the creation of 50 mm multiple pitch circuits.  
Coupling by the overlapping of the pre-formed foil itself on one side.

- Real size: 1350x850 mm
- Useful Dim. 1300x800 mm
- Usable floor area 1.04 m<sup>2</sup>
- Foil thickness 1 mm



It is highly resistant to pressure from foot traffic.  
Applicable piping diameter: 14÷17 mm.

Compatible systems:

KILMA-ISI



## Series 1938



### KILMA-BULL

#### "Kilma-BULL" panel.

Insulating panel made of stamped sintered expanded polystyrene closed-cell foam, with pre-formed relief parts for pipe housing, combined with "PS" film.

Grooves undercut spacing 50mm for the realisation of 50 mm multiple pitch circuits

Coupling possible by male/female peripheral interlocking joints.

- Real size: 1223x823 mm
- Net size: 1200x800 mm
- Usable floor area 0.96 m<sup>2</sup>
- EPS 200 (thickness 33 mm) - EPS 150 (thickness 45-60 mm)
- Euroclass E

Code	Useful Dim. (mm)	Insul. Th. (mm)	Heat Res.	Pack m <sup>2</sup>	Pallet m <sup>2</sup>	Cat.
<b>1938.13.00</b>	1223X823x33	10+3	0,300	19,20	76,80	30.04
<b>1938.25.00</b>	1223x823x60	15+10	0,450	13,44	53,76	30.04
<b>1938.40.00</b>	1223x823x45	30+10	0,910	9,60	38,40	30.04

Certifications:

Compliant with UNI-EN 13163 - UNI 331 IIP certified - CSTB 250-179 certified - HBCDFREE



Applicable piping diameter: 16÷20 mm

## Series 1978



### "Kilma-ROLL" rolled panel.

Roll panel made of expanded polystyrene, bonded with reflective aluminised film, and featuring cross tracing with 50mm installation spacing. Can be combined with other panels by overlapping the reflective film on one side.

- Euroclass E

### KILMA-ROLL

Code	Useful Dim. (mm)	Insul. Th. (mm)	Heat Res.	Pack	Pack m <sup>2</sup>	Pallet m <sup>2</sup>	Cat.
<b>1978.20.02</b>	1000x10000x20	20	0,606	1	10	70	30.04
<b>1978.30.02</b>	1000x10000x30	30	0,909	1	10	60	30.04
<b>1978.40.02</b>	1000x10000x40	40	1,212	1	10	50	30.04
<b>1978.50.02</b>	1000x10000x50	50	1,515	1	10	50	30.04

### KILMA-ROLL EVO with athermanous elements

Code	Useful Dim. (mm)	Insul. Th. (mm)	Heat Res.	Pack	Pack m <sup>2</sup>	Pallet m <sup>2</sup>	Cat.
<b>1978.40.12</b>	1000x10000x40	40	1,333	1	10	50	30.04



For head joints use anodised aluminium adhesive tape code 2018.00.02

Certifications:

HBCD FREE

Compatible systems:

KILMA-GRAF

KILMA-RETE



**03.  
CLIMATE  
COMFORT**

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**30. RADIANT CLIMATE CONTROL SYSTEMS**

**30.05 DRY INSULATING PANEL**

294

Kilma Futura

# KILMA FUTURA

## The new high efficiency radiant air conditioning system for dry installation

**KILMA FUTURA** is a revolutionary high efficiency radiant air conditioning system, suitable for dry floor, wall and ceiling installation. If installed on the floor, **KILMA FUTURA** does not require a screed, therefore, it has very small overall dimensions.

Kilma Futura eliminates downtime in the site caused by waiting times for the screed to dry and consequently, guarantees immediate walk-ability. Lastly, thanks to the absence of the screed, it is possible for systems to be installed with very low thermal inertia.



- No cement screed is needed

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- Low thermal inertia: heats up in a few minutes

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- Great savings

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- Maximum comfort

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- Floor, wall, ceiling installation

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- Can be used in heating or cooling

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- Total thickness less than 3 cm

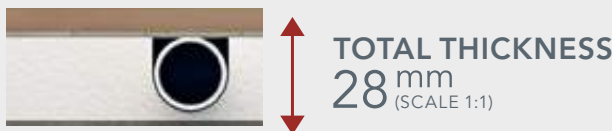
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- Quick and easy to install

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- Ideal for restorations and new homes with high energy efficiency!

- 1** Ceiling installation
- 2** False ceiling installation
- 3** Wall installation
- 4** Floor installation



Floor laid directly  
on the panel



## FLOOR INSTALLATION

### CERAMIC FINISH

- 1 Perimeter expansion joint
- 2 Glue for fixing the panel to the substrate
- 3 Kilma-Futura Panel
- 4 Pipe Kilma-Flex PE-RT Ø16x2 mm
- 5 If necessary, aluminised tape to block the pipe on the bends (about 1m/m<sup>2</sup>)
- 6A Protection epoxy primer (e.g. PRIMER MF RBM by Mapei)
- 6B Superior glue gripping primer (not supplied)
- 7 Glue for tiles (not supplied)
- 8 Tiles (minimum dim. 25x25 cm or in alternative 15x30 cm strips)
- 9 Skirting board



### PARQUET FINISH (TYPE 1 WITH FLOATING PARQUET)

- 1 Perimeter expansion joint
- 2 Glue for fixing the panel to the substrate
- 3 Kilma-Futura Panel
- 4 Pipe Kilma-Flex PE-RT Ø16x2 mm
- 5 If necessary, aluminised tape to block the pipe on the bends (about 1m/m<sup>2</sup>)
- 6 PE protective sheet
- 7 Any substrate fabric/non-fabric layer (not supplied)
- 8 Floating parquet placed resting on the underlying surface
- 9 Skirting board



### PARQUET FINISH (TYPE 2 WITH GLUED PARQUET)

- 1 Perimeter expansion joint
- 2 Glue for fixing the panel to the substrate
- 3 Kilma-Futura Panel
- 4 Pipe Kilma-Flex PE-RT Ø16x2 mm
- 5 If necessary, aluminised tape to block the pipe on the bends (about 1 m/m<sup>2</sup>)
- 6 IsoTile support mat (with adhesive)/IsoTile (without adhesive, requires glue not supplied by RBM) by Isolmant (not supplied)
- 7 Glue for parquet (not supplied)
- 8 Parquet
- 9 Skirting board

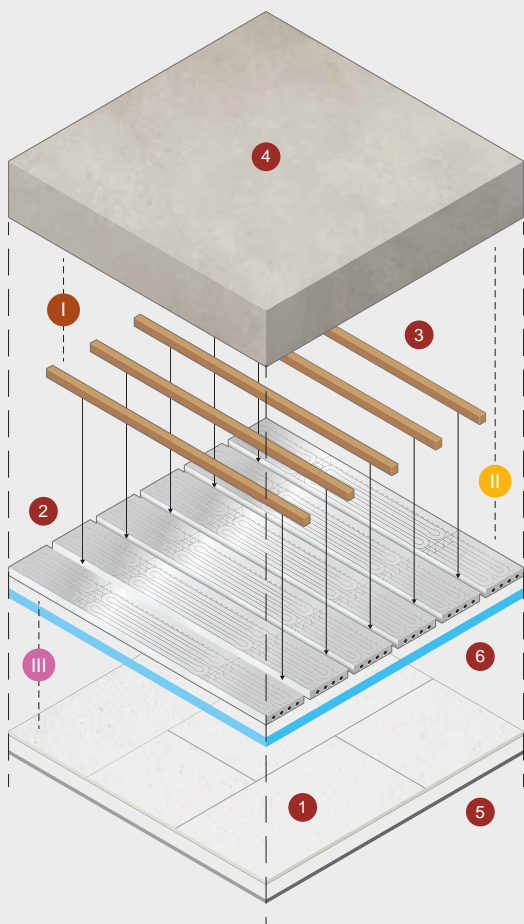


# KILMA FUTURA

The new high efficiency radiant air conditioning system for dry installation

## A1 KILMA-FUTURA SYSTEM / CEILING

Version: IN ADHERENCE on the soffit floor slab  
Hypothesised finish: 12,5 mm plasterboard slab



### COMPONENTS

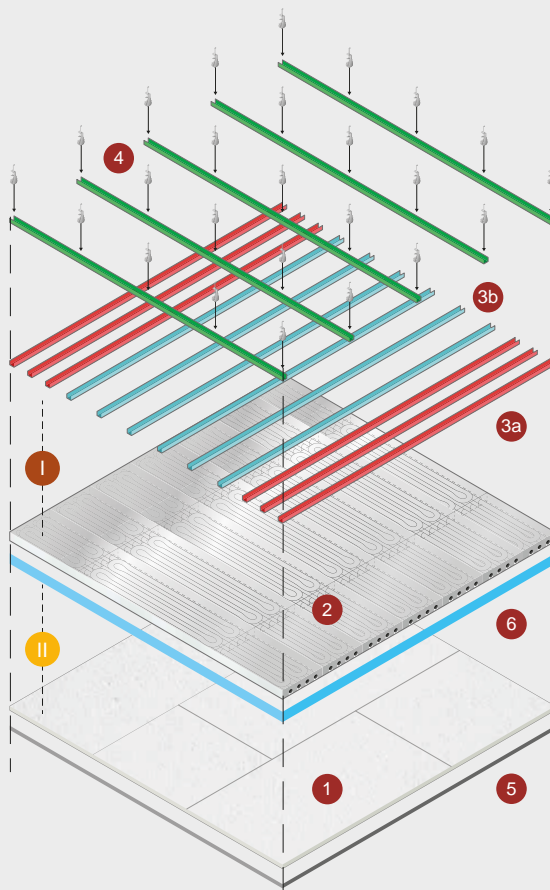
- 1 **Plasterboard slab**  
approximately 12.5
- 2 **Kilma Futura Panel**  
Th. 25 mm  
(or other chosen thickness, excluding 17 mm th.)
- 3 **Wood planks**  
40x25 mm section  
with possible interruptions of the section to allow the passage of pipe bends and circuit supplies.
- 4 **Attic**  
(necessarily flat)
- 5 **Elastic joint for slabs in plasterboard**  
PLEASE NOTE: Any expansion joints to be provided are the responsibility of the plasterer, in compliance with the specific installation specifications for the chosen finish.
- 6 **Perimeter strip**  
(optional)

### FIXING TYPES

- I **Fixing I:**  
wood plank on soffit floor slab
- II **Fixing II:**  
Futura panel on soffit floor slab  
(flange head screws suitable for EPS)
- III **Fixing III:**  
lasterboard finish fixed to the wood planks

## B1 KILMA-FUTURA SYSTEM / CEILING

Version: HANGING with cavity with DOUBLE OVERLAPPED STRUCTURE 1st level structure pitch RESTRICTED to the installation of the radiant  
Hypothesised finish: 12,5 mm plasterboard slab



### COMPONENTS

- 1 **Plasterboard slab**  
approximately 12.5
- 2 **Kilma Futura Panel**  
Th. 25 mm  
(or other chosen thickness, excluding 17 mm th.)
- 3a **1st Level structure**  
**Fine Pitch Zone**  
(for supporting the circuit curves)  
**Pitch structure restricted**
- 3b **1st Level structure**  
**Straight Zone**  
(for supporting the straight sections of the circuits)
- 4 **2nd level structure + suspension**
- 5 **Elastic joint for plasterboard slabs**  
PLEASE NOTE: Any expansion joints to be provided are the responsibility of the plasterer, in compliance with the specific installation specifications for the chosen finish.
- 6 **Perimeter strip**  
(optional)

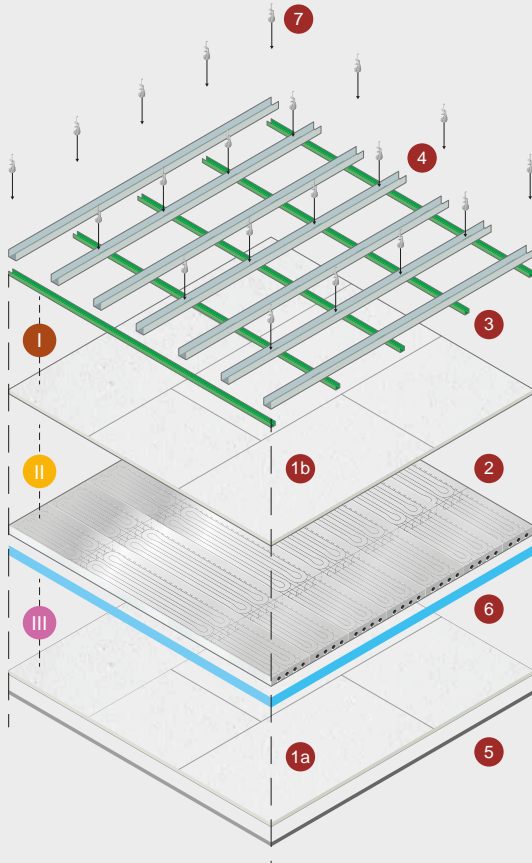
### FIXING TYPES

- I **Fixing I: Futura panel on 1st level structure**  
  
we recommend:  
- "flange head" screws suitable for self-drilling EPS
- II **Fixing II: for finishing slab on 1st level structure**



**B2** KILMA-FUTURA SYSTEM / CEILING

Version: HANGING with cavity with DOUBLE OVERLAPPED STRUCTURE  
1st level structure pitch NOT RESTRICTED to the installation of the radiant system.  
Hypothesised finish: 12,5 mm plasterboard slab



**COMPONENTS**

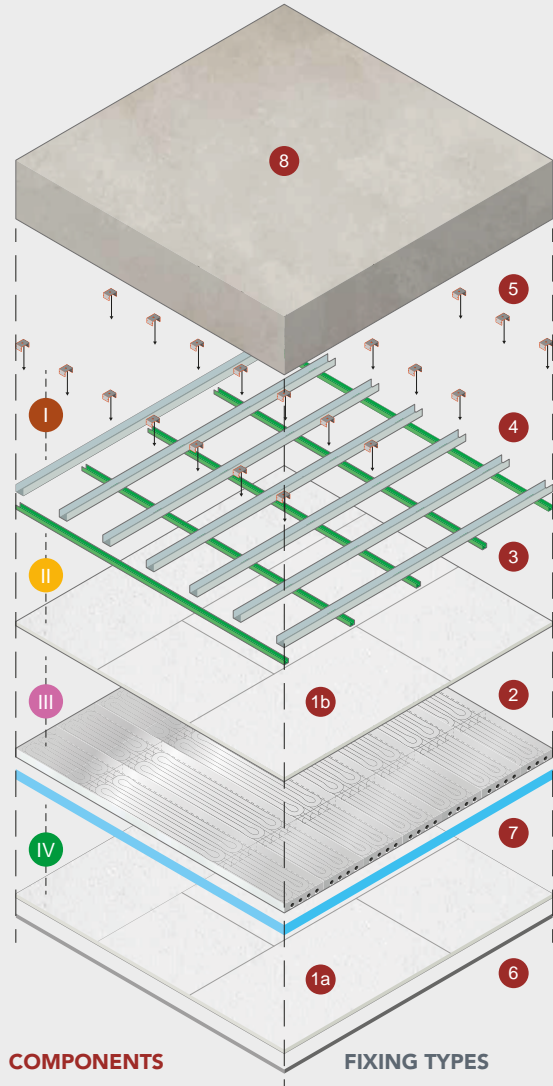
- 1a FINISH plasterboard slab approximately 12.5
- 1b SUPPORT plasterboard slab approximately 12.5
- 2 Kilma Futura Panel Th. 25 mm (or other chosen thickness, excluding 17 mm th.)
- 3 1st structure **FREE STRUCTURE PITCH**
- 4 2nd level structure
- 5 Elastic joint for plasterboard slabs  
PLEASE NOTE: Any expansion joints to be provided are the responsibility of the plasterer, in compliance with the specific installation specifications for the chosen finish.
- 6 Perimeter strip (optional)
- 7 Attic (necessarily flat)

**FIXING TYPES**

- I Fixing I: for support slab (1st slab) on 1st level structure
- II Fixing II: Futura panel on 1st level structure (or on support plasterboard slab) we recommend: - "flange head" screws suitable for self-drilling EPS
- III Fixing III: for finishing slab on 1st level structure

**C2** KILMA-FUTURA SYSTEM / CEILING

Version: WITH DOUBLE FLOATING STRUCTURE on soffit floor slab. Structure pitch NOT RESTRICTED to the installation of the radiant system.  
Hypothesised finish: 12,5 mm plasterboard slab



**COMPONENTS**

- 1a FINISH plasterboard slab approximately 12.5
- 1b REINFORCEMENT plasterboard slab approximately 12.5
- 2 Kilma Futura Panel Th. 25 mm (or other chosen thickness)
- 3 1st level structure  
Alternatively it is possible to use a single structure level defining an overall dimension of less than 90 mm.
- 4 2nd level structure
- 5 Simple snap hooks with spacer function
- 6 Elastic joint for plasterboard slabs  
PLEASE NOTE: Any expansion joints to be provided are the responsibility of the plasterer, in compliance with the specific installation specifications for the chosen finish.
- 7 Perimeter strip (optional)
- 8 Attic (necessarily flat)

**FIXING TYPES**

- I Fixing I: for support slab (1st slab) on 1st level structure
- II Fixing II: for support slab (1st slab) on 1st level structure
- III Fixing III: for Futura panel on 1st level structure we recommend: - "flange head" screws suitable for self-drilling EPS
- IV Fixing IV: plasterboard finish on 1st level structure

# KILMA FUTURA

## Wall mounted

The Kilma-Futura panel can also be mounted **on the wall**. It can be installed on masonry walls and on plasterboard walls, and then is covered with a plasterboard or gypsum fibre sheet. Its reduced thickness, quick installation and the use of 16x2 pipes that can be connected directly to the radiant manifold make it suitable for any installation.

### MASONRY WALL

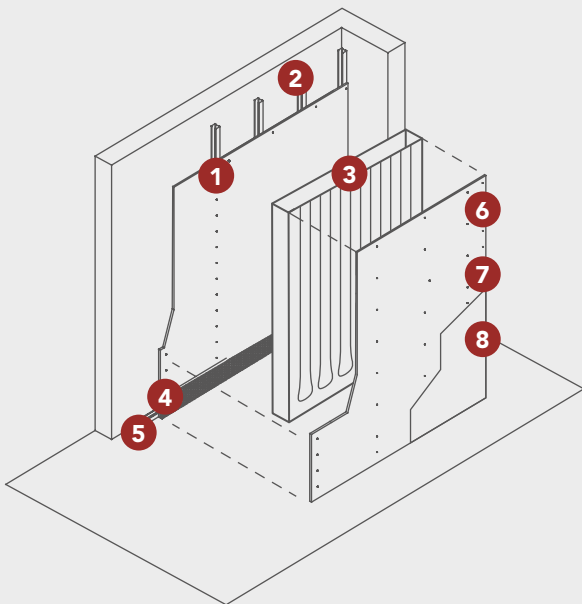


- 1 Wooden strip 40x25mm
- 2 EPS300 RBM Kilma Futura panel 25 mm thick
- 3 RBM Kilma Flex pipe  $\varnothing 16 \times 2$  mm
- 4 Plasterboard panel
- 5 Possible buffer strip for installation of electrical sockets according to CEI 64-8

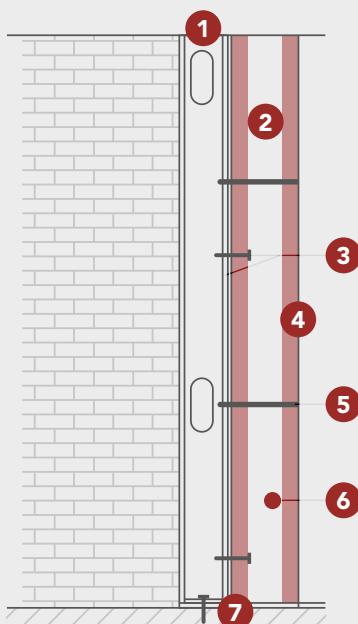




## PLASTERBOARD WALL



- 1 Single plasterboard slab (support)
- 2 Upright profile
- 3 RBM FUTURA panel
- 4 Clearance from floor level (for electrical sockets according to IEC 64-8)
- 5 Basic profile
- 6 Fixing the finishing sheet
- 7 Plasterboard sheet (system closure)
- 8 Levelling and finishing



- 1 Metal profile (upright)
- 2 RBM FUTURA 25 mm panel
- 3 Fixing I:  
for support sheet on upright profile frame
- 4 Plasterboard slab + levelling
- 5 Fixing II:  
for finishing sheet on upright profile structure
- 6 RBM tube  $\varnothing 16 \times 2$  mm
- 7 Basic profile

## Series 3841.A



### KILMA FUTURA

#### High efficiency insulation panel for dry installations.

Installation pitch 160 mm; coil circuit placement.  
Suitable for floor, wall, ceiling and false ceiling installation.

Panel obtained from EPS 300 sheet, milled to allow piping to be laid, top coating with an aluminium layer.

- Real Dim.: 1200X800 mm
- Usable floor area 0.96 m<sup>2</sup>

Code	Useful Dim. (mm)	Insul. Th. (mm)	Heat Res.	Pack m <sup>2</sup>	Pallet m <sup>2</sup>	Cat.
<b>3841.20.00</b>	1200x800x20	20	0,56	22,08	88,32	30.05
<b>3841.25.00</b>	1200x800x25	25	0,71	18,24	72,96	30.05
<b>3841.33.00</b>	1200x800x33	33	0,95	14,40	57,60	30.05
<b>3841.48.00</b>	1200x800x48	48	1,41	9,60	38,40	30.05



Applicable piping type: Hi Performance Plus 16x2 polyethylene.

To install the panel, it is recommended to use specific adhesives compatible with EPS and relative substrate (use KILMA FUTURA AD code 37020002 or else glues as per technical documentation).

To prevent the pipe from coming off the retention guides and to restore the aluminised film (in case this has been removed during operations performed at the building site) use the anodised aluminium adhesive tape code 2018.00.02

Certifications:

HBCD FREE

## Series 3841.B



### KILMA FUTURA

#### High efficiency insulation panel for dry installations.

Installation pitch 100 mm; coil circuit laying.  
Suitable for floor, ceiling and false ceiling installation.

Panel obtained from EPS 300 sheet, milled to allow piping to be laid, top coating with an aluminium layer.

- Real Dim.: 1200X800 mm
- Usable floor area 0.96 m<sup>2</sup>

Code	Useful Dim. (mm)	Insul. Th. (mm)	Heat Res.	Pack m <sup>2</sup>	Pallet m <sup>2</sup>	Cat.
<b>3841.20.10</b>	1200x800x20	20	0,51	22,08	88,32	30.05
<b>3841.25.10</b>	1200x800x25	25	0,53	18,24	72,96	30.05
<b>3841.33.10</b>	1200x800x33	33	0,78	14,40	57,60	30.05
<b>3841.48.10</b>	1200x800x48	48	1,25	9,60	38,40	30.05



Applicable piping type: Hi Performance Plus 16x2 polyethylene.

To install the panel, it is recommended to use specific adhesives compatible with EPS and relative substrate (use KILMA FUTURA AD code 37020002 or else glues as per technical documentation).

To prevent the pipe from coming off the retention guides and to restore the aluminised film (in case this has been removed during operations performed at the building site) use the anodised aluminium adhesive tape code 2018.00.02

Certifications:

HBCD FREE





## Series 4120

### PHONOFIX

#### Stabilising layer for parquet

PHONOFIX is a low-thickness, desolidarising and reinforcing elastodynamic resilient acoustic layer designed for the application of parquet glued with the KILMA FUTURA system.

- Nominal thickness 2 mm
- Supplied in 20 m rolls (covered area 20 m<sup>2</sup>)
- Compressive strength (CS): 127 kPa (0.5 mm strain)
- Thermal conductivity:  $\lambda = 0,037$  W/mK
- Thermal resistance:  $R_t = 0.054$  m<sup>2</sup>K/W
- Reaction to fire class: Cfl-s1 (3)

Code	Length (m)	Width (cm)	Pack	Outer	Cat.
4120.00.00	20	100	1	1	30.07

It provides a significant increase in impact sound insulation in both renovations and new constructions.

Can be used in all environments, both residential and tertiary. Low thickness, does not require changes to existing dimensions.

Low thermal resistance (compatible with underfloor heating systems even when laid under the floor).

Enables glue-in installation of parquet directly onto Kilma Futura with low thickness/low inertia.





## Stabilising layer for parquet

Phonofix by RBM is a technological and innovative product specifically for the application of glued parquet in combination with the Kilma Futura system.

**PHONOFIX is a low-thickness, desolidarising and reinforcing elastodynamic resilient acoustic layer** designed for the application of parquet glued with the KILMA FUTURA system. Nominal thickness 2 mm.



### INSTALLATION

#### STEP 1

##### SUBSTRATE PREPARATION

The surface of the KILMA FUTURA system onto which PHONOFIX is to be applied must be load-bearing, flat, level, clean and free of debris or oil. Check that the pipes are properly fitted into the appropriate seats in the panel and that they do not protrude from the panel. However, it will be the responsibility of the installer to assess the suitability of the surface for laying the mat.

#### STEP 2

##### LAYING OF SHEETS

Phonofix is laid floating on the KILMA FUTURA system (\*). Remove any air pockets below the Phonofix sheets to achieve perfect adhesion to the surface. In this regard, it is recommended to apply adequate pressure on the sheets, preferably by using a glue roller. During laying, extreme care must be taken to place the Phonofix sheets next to each other without overlapping, so as to guarantee the continuity of the insulating layer and avoid the formation of acoustic bridges. It is also necessary to tape the joints between the sheets themselves with the joint strip included in the package.

(\*). Only in the event that it is not easy to lay the sheets can they be bonded to the Kilma Futura system using, for example, an anti-slip adhesive such as D965 by Wakol or similar.

#### STEP 3

##### LAYING OF THE FLOOR

In the case of floating laying of the mat on the Kilma Futura system, the parquet laying operations can be carried out immediately, whereas when gluing the mats to the Kilma Futura panel, it will be necessary to wait for the times specified by the adhesive manufacturer before laying the flooring. The parquet (provided it is of a type compatible with the system) may be glued directly onto Phonofix by applying a layer of adhesive (excellent results have been obtained with epoxy-polyurethane glues) laid in accordance with the rules of art and according to the manufacturer's instructions. Phonofix is a water-proof covering: adequate drying times of the adhesive must be considered in relation to climate and site conditions.

#### STEP 4

##### SKIRTING BOARD LAYING

It is essential to make it known to all site operators that the excess of the perimeter strip should only be trimmed after the flooring has been laid and before the skirting board is installed. The direct contact of the floor with the walls, in fact, constitutes an acoustic bridge, causing a loss of insulation of several decibels. The perimeter strip also has the task of absorbing thermal expansion of the flooring subject to temperature differences.

Easy to lay

Thickness 2 mm

Can be used in all environments

Does not require the use of special adhesives

Contains no volatile substances (VOC A+)

Production with low environmental impact

Can be recycled and disposed of according to EWC No. 170604

Contributes to achieving credits for the environmental certification of a building according to LEED or ITACA protocols

Complies with the requirements defined by the CAM-Building for acoustic and thermal insulation materials regarding the demand for high acoustic insulation performance, the percentage of recycled material and the absence of hazardous substances



**03.  
CLIMATE  
COMFORT**

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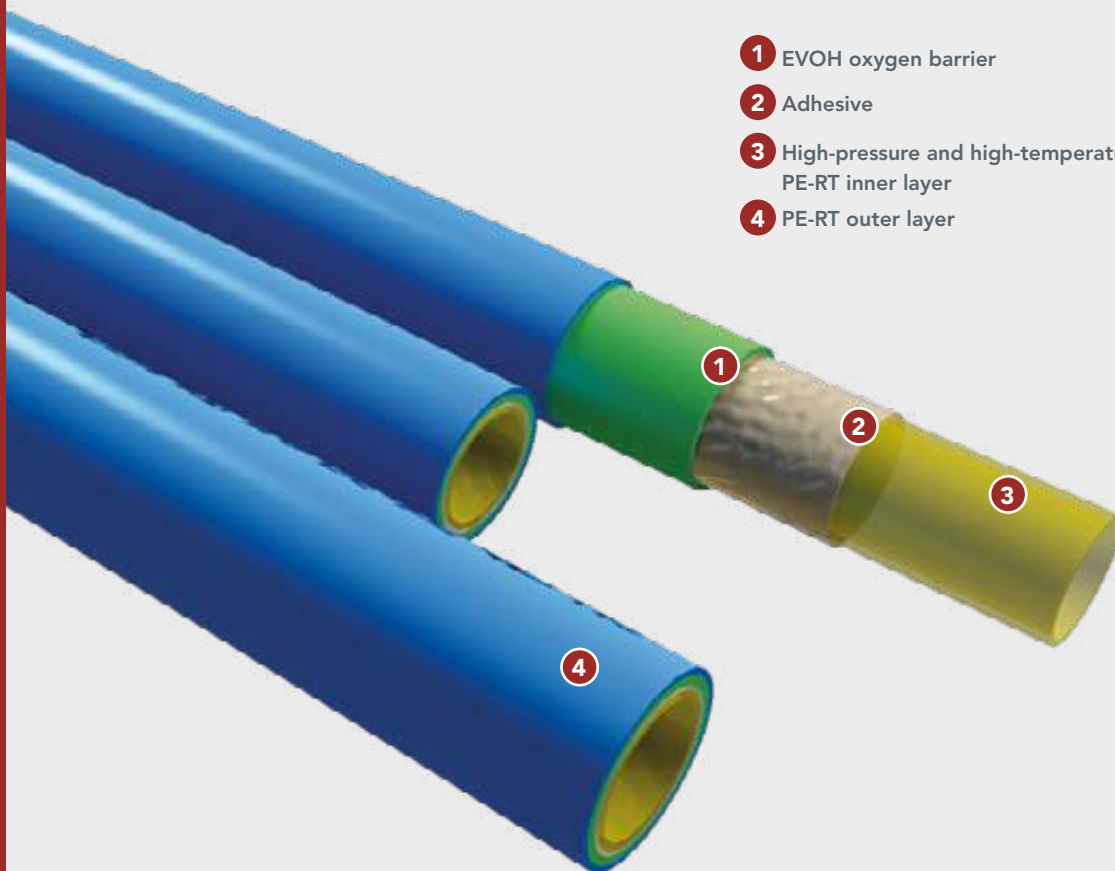
**30. RADIANT CLIMATE CONTROL SYSTEMS**

**30.06 PIPING**

304

Polyethylene pipes

## HI-PERFORMANCE PLUS PIPES



- 1 EVOH oxygen barrier
- 2 Adhesive
- 3 High-pressure and high-temperature resistant PE-RT inner layer
- 4 PE-RT outer layer

Hi Performance Plus pipes are made of a polymer resin, which has the traditional properties of polyethylene, with the addition of important extra features such as **increased resistance to high temperatures and high pressures**.

They do not require the post-extrusion cross-linking processes typical of PE-X pipes, making it possible to obtain a product that is:

- **Homogeneous** along the entire length and surface, not subject to unevenness
- **Heat-sealable**
- Extremely **flexible** in all weather conditions
- **Shape memory**: for example, in the case of crushing, just heat it up to make it perfectly circular again
- Duration **over 50 years**

### 4 LAYERS

**Hi Performance Plus** pipes consist of 4 layers, unlike conventional pipes which have only 3 layers (Polyethylene - Adhesive - Oxygen barrier).

In fact, the EVOH (oxygen barrier) layer is covered by a 4th PE-RT layer that protects its integrity from mechanical damage (e.g. from dragging or rubbing on site).

## OPERATING CONDITIONS ACCORDING TO ISO 10508 AND EN ISO 22391

SIZE	OPERATING PRESSURE [BAR]			
	FOR APPLICATION CLASS			
	CLASS 1	CLASS 2	CLASS 4	CLASS 5
16X2	10	8	8	8
17X2	8	8	8	6
20X2	6	6	6	6

APPLICATION CLASS	OPERATING CONDITIONS FOR A PERIOD OF 50 YEARS AND 100 HOURS OF WHICH	FIELD OF APPLICATION
1	49 years at operating temperature (TD) of 60°C, 1 year at maximum temperature (Tmax) of 80°C and 100 hours at malfunction temperature (Tmal) of 95°C	Hot water supply (60°C)
2	49 years at operating temperature (TD) of 70°C, 1 year at maximum temperature (Tmax) of 80°C and 100 hours at malfunction temperature (Tmal) of 95°C	Hot water supply (70°C)
4	2.5 years at operating temperature (TD) of 20°C, 20 years at operating temperature (TD) of 40°C, 25 years at operating temperature (TD) of 60°C, 2.5 years at maximum temperature (Tmax) of 70°C and 100 hours at malfunction temperature (Tmal) of 100°C	Low temperature underfloor heating and radiators
5	14 years at operating temperature (TD) of 20°C, 25 years at operating temperature (TD) of 60°C, 10 years at operating temperature (TD) of 80°C, 1 year at maximum temperature (Tmax) of 90°C and 100 hours at malfunction temperature (Tmal) of 100°C	High temperature underfloor heating and radiators

### CLASS 1

Hi-Performance Plus pipes can be used for sanitary installations (Class 4 and 5) and heating installations (Class 1 and 2).

Hi Performance Plus polymer resins show excellent performance in internal pressure resistance tests at elevated temperatures, making them ideal for use in hot and cold water piping systems.

Independent tests according to ISO 9080 at 20°, 80°, 95° and 110° C consistently show the absence of knee in the regression curves before 10,000 hours.

Therefore, RBM Kilma Hi Performance Plus pipes can be used for all class 1 applications in the same way as PE-Xa and PE-Xc.



## Series 2517

### Pipe Kilma HI-PERFORMANCE PLUS.

4-layer polyethylene pipe for underfloor heating (PE-RT Type II/EVOH/PE-RT).

The outer layer provides strong protection of the EVOH layer against the defects of mechanical agents. (e.g. scratches, gouges...).

EVOH oxygen barrier pipe, co-extruded, DIN 4726.

Certifications:

Compliant with: EN ISO 22391-2



Code	Measure	Model	Roll (m)	Pack	Pallet m	Cat.
2517.16.12	16x2	PE-RT Type II/EVOH/PE-RT	120	1	1680	30.06
2517.16.02	16x2	PE-RT Type II/EVOH/PE-RT	240	1	1680	30.06
2517.16.22	16x2	PE-RT Type II/EVOH/PE-RT	600	1	3600	30.06
2517.17.12	17x2	PE-RT Type II/EVOH/PE-RT	120	1	1680	30.06
2517.17.02	17x2	PE-RT Type II/EVOH/PE-RT	240	1	1680	30.06
2517.17.22	17x2	PE-RT Type II/EVOH/PE-RT	600	1	3600	30.06
2517.20.02	20x2	PE-RT Type II/EVOH/PE-RT	240	1	1680	30.06
2517.20.32	20x2	PE-RT Type II/EVOH/PE-RT	500	1	2000	30.06

Size: Outside  $\varnothing$  x pipe thickness.



Externally protected EVOH barrier against any mechanical damage.

Full KOMO certified range available. Contact our sales department for the ordering codes.



## Series 3954

### Kilma-Flex 4 FIN pipe

4-layer pipe for underfloor and wall-mounted heating systems.

The innermost layer, in Polyethylene of raised temperature resistance (polyethylene of raised temperature resistance, not cross-linked), has an extremely smooth surface that allows a drastic reduction in head loss compared to the traditional metal pipe used in the heating and plumbing sector;

The two intermediate layers consist of a first layer of pigmented adhesive material with high strength and durability (in polyolefin polymers) and of a second film-forming and adjuvant film that increases installation flexibility;

The outermost layer consisting of a compound of polyethylene and adhesive, with a thickness of a few tens of  $\mu\text{m}$ , constitutes a valid protection of the internal layers against defects caused by mechanical agents (e.g. scratches, gouges, etc.).

Code	Measure	Roll (m)	Pack	Pallet m	Cat.
3954.16.10	16x2	120	120	1680	30.06
3954.16.00	16x2	240	240	1680	30.06
3954.16.20	16x2	600	600	3600	30.06
3954.17.10	17x2	120	120	1680	30.06
3954.17.00	17x2	240	240	1680	30.06
3954.17.20	17x2	600	600	3600	30.06
3954.20.00	20x2	240	240	1680	30.06
3954.20.30	20x2	500	500	2000	30.06

Size: Outside  $\varnothing$  x pipe thickness.







## Series 464

### KILMA-FLEX PE-Xc pipe.

3-layers polyethylene pipe for underfloor heating. EVOH oxygen barrier pipe, co-extruded, DIN 4726.

Certifications:

Compliant with: EN ISO 15875-2



Code	Measure	Model	Roll (m)	Pack	Pallet m	Cat.
464.08.02	8x1	PE-Xc	1000	1	7000	30.06
464.08.12	8x1	PE-Xc	100	1	1200	30.06
464.10.02	10x1,2	PE-Xc	1000	1	7000	30.06
464.10.12	10x1,2	PE-Xc	120	1	1440	30.06
464.16.02	16x2	PE-Xc	120	1	1680	30.06
464.16.12	16x2	PE-Xc	240	1	1680	30.06
464.16.22	16x2	PE-Xc	600	1	3600	30.06
464.17.12	17x2	PE-Xc	120	1	1680	30.06
464.17.02	17x2	PE-Xc	240	1	1680	30.06
464.17.22	17x2	PE-Xc	600	1	3600	30.06
464.20.02	20x2	PE-Xc	240	1	1680	30.06
464.20.32	20x2	PE-Xc	500	1	2000	30.06
464.25.02	25x2,3	PE-Xc	240	1	960	30.06
464.25.22	25x2,3	PE-Xc	310	1	1240	30.06

Cross-linked polyethylene according to the "C" method with Beta type rays.  
Size: Outside  $\varnothing$  x pipe thickness.



Do not expose to direct sunlight.



## Series 2009

### KILMA-FLEX PE-Xa pipe

3-layers polyethylene pipe for underfloor heating. EVOH oxygen barrier pipe, co-extruded, DIN 4726.

• Type: PE-Xa

Certifications:

Compliant with: EN ISO 15875-2

Code	Measure	Model	Roll (m)	Pack	Pallet m	Cat.
2009.17.02	17x2	PE-Xa	600	1	2400	30.06
2009.20.02	20x2	PE-Xa	500	1	1500	30.06

Cross-linked polyethylene according to the "A" method with peroxides.  
Size: Outside  $\varnothing$  x pipe thickness.



Do not expose to direct sunlight.



## Series 1484

### KILMA-FLEX PE-RT pipe.

3-layers polyethylene pipe for underfloor heating. EVOH oxygen barrier pipe, co-extruded, DIN 4726.

• Type: PE-RT

Certifications:

Compliant with: EN ISO 22391-2



Code	Measure	Model	Roll (m)	Pack	Pallet m	Cat.
1484.16.22	16x2	PE-RT	120	1	1680	30.06
1484.16.32	16x2	PE-RT	240	1	1680	30.06
1484.16.02	16x2	PE-RT	600	1	3600	30.06
1484.17.12	17x2	PE-RT	120	1	1680	30.06
1484.17.02	17x2	PE-RT	240	1	1680	30.06
1484.17.22	17x2	PE-RT	600	1	3600	30.06
1484.20.02	20x2	PE-RT	500	1	2000	30.06
1484.25.12	25x2,3	PE-RT	240	1	960	30.06
1484.25.02	25x2,3	PE-RT	310	1	1240	30.06

Polyethylene of raised temperature resistance.  
Size: Outside  $\varnothing$  x pipe thickness



Do not expose to direct sunlight.



**03.**  
**CLIMATE**  
**COMFORT**

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**30. RADIANT CLIMATE CONTROL SYSTEMS**

**30.07 ACCESSORIES FOR RADIANT SYSTEMS**

**309**

Accessories for radiant systems

Distribution accessories



### Series 4120

#### PHONOFIX

##### Stabilising layer for parquet

PHONOFIX is a low-thickness, desolidarising and reinforcing elastodynamic resilient acoustic layer designed for the application of parquet glued with the KILMA FUTURA system.

- Nominal thickness 2 mm
- Supplied in 20 m rolls (covered area 20 m<sup>2</sup>)
- Compressive strength (CS): 127 kPa (0.5 mm strain)
- Thermal conductivity:  $\lambda=0,037$  W/mK
- Thermal resistance:  $R_t=0.054$  m<sup>2</sup>K/W
- Reaction to fire class: Cfl-s1 (3)

Code	Length (m)	Width (cm)	Pack	Outer	Cat.
4120.00.00	20	100	1	1	30.07

It provides a significant increase in impact sound insulation in both renovations and new constructions.

Can be used in all environments, both residential and tertiary. Low thickness, does not require changes to existing dimensions.

Low thermal resistance (compatible with underfloor heating systems even when laid under the floor).

Enables glue-in installation of parquet directly onto Kilma Futura with low thickness/low inertia.



### Series 483

#### Corrugated sheath pipe protector.

Can also be used as a pipe protector at the manifold, and at the screed dilation joints (code 472.15.12).

Compatible systems:

KILMA-ISI  
KILMA-GRAF  
KILMA-RETE  
KILMA-INDUSTRIALE  
KILMA-FUTURA

Code	Measure	Roll (m)	Pack	Outer	Cat.
483.25.02*	Ø 25	50	1	1	30.07
483.32.02**	Ø 32	25	1	1	30.07

\* Ø sheathed pipe 17x2

\*\* Ø sheathed pipe 20x2 - 25x2.3



Accessory that can be used on Kilma-Isi, Kilma-Graf, Kilma-Rete, Kilma-Industriale and Kilma-Futura radiant systems.



### Series 603

#### Bend former.

90° elbow, in polyamide F.V. used as a bend former as well as to protect the pipes close to their attachment to the manifold.

Code	Suitable for pipes	Pack	Outer	Cat.
603.18.12	Ø 17	50	500	30.07
603.20.12	Ø 20	50	300	30.07
603.25.02	Ø 25	25	150	30.07



Accessory that can be used on Kilma-Isi, Kilma-Graf, Kilma-Rete, Kilma-Industriale and Kilma-Futura radiant systems.



### Series 306

#### Thermo-electrically controlled servo motor for valve with thermostatic option, complete with valve body clamping ring nut and electric power cable.

Normally closed valve position when power missing.

- Power supply 24/230 V
- Consumption 2.5W
- Frequency 50/60 Hz
- IP54 protection rating
- Operating temperature -5 ÷ +50 °C
- 4 mm stroke
- Switch contact rating (0.5A) 1 A (if any)

Certifications:



#### Thermo-electrically controlled actuator

Code	Power supply	Pack	Outer	Cat.
306.00.02	230V AC	1	50	30.07
306.00.12	24V AC	1	50	30.07

Version without auxiliary microswitch (2 wires)

#### Thermo-electrically controlled actuator with auxiliary microswitch

Code	Power supply	Pack	Outer	Cat.
306.00.42	230V AC	1	50	30.07
306.00.52	24V AC	1	50	30.07

Version supplied with auxiliary microswitch (4 wires)



Servo control that can be matched with SERIES 608 - 2028 - 1410 - 1002 - 279 manifolds with a 50 mm centre distance, and Kilma-Zone SERIES 3615 - 3616 manifolds





### Series 3189

**Thermo-electrically controlled servo motor for valve with thermostatic option, complete with valve body clamping ring nut and electric power cable.**

Normally closed position when there is no power.

- Power supply 24/230 V
- Consumption 1.2W
- IP54 protection rating
- Operating temperature 0 ÷ +60 °C
- 5 mm stroke
- Cable length 1 m

Certifications:



#### Thermo-electrically controlled actuator

Code	Power supply	Pack	Outer	Cat.
<b>3189.00.02</b>	230V AC	1	100	30.07
<b>3189.00.12</b>	24V AC	1	100	30.07

*Version without auxiliary microswitch (2 wires)*

#### Thermo-electrically controlled actuator with auxiliary microswitch

Code	Power supply	Pack	Outer	Cat.
<b>3189.00.42</b>	230V AC	1	100	30.07
<b>3189.00.52</b>	24V AC	1	100	30.07

*Version supplied with auxiliary microswitch (4 wires)*



Servo control to be matched with modular brass SERIES 3202 manifolds with a 37 mm centre distance.  
Servo control with a first-open feature to make installation easier. See the instruction manual for details.



### Series 778

**Vapour barrier.**

Roll, sheet in PE with moisture barrier feature.

- Roll width: 1m
- PE sheet width: 2 m (folded in the middle)
- Roll length: 100 m

Compatible systems:

KILMA-ISI  
KILMA-GRAF  
KILMA-RETE  
KILMA-INDUSTRIALE  
KILMA-FUTURA

Code	Thickness (mm)	Pack	Pack m <sup>2</sup>	Cat.
<b>778.20.02</b>	0,2	1	200	30.07



Accessory that can be used on Kilma-Isi, Kilma-Graf, Kilma-Rete, Kilma-Industriale and Kilma-Futura radiant systems.  
Fitted with cross marking with 100 mm installation pitch.



### Series 472.A

**Base edging joint.**

Adhesive edging dilation joint, in polythene LPDE foam containing grout.

Compatible systems:

KILMA-ISI  
KILMA-GRAF  
KILMA-RETE

Code	Height (mm)	Thickness (mm)	Roll (m)	Pack	Outer	Cat.
<b>472.15.12</b>	150	8	60	1	5	30.07
<b>475.25.12</b>	250	8	60	60	180	30.07



Accessory that can be used on Kilma-Isi, Kilma-Graf, Kilma-Rete and Kilma-Industriale radiant systems.  
Adhesive on the full height of the joint.





### Series 472.B

#### Base edging joint.

Adhesive edging dilation joint, in polythene LPDE foam containing grout.

Code	Height (mm)	Thickness (mm)	Roll (m)	Pack	Outer	Cat.
472.08.12	80	5	25	1	1	30.07



Accessory that can be exclusively used on the Futura radiant system.



### Series 2531

#### Sound absorbing L-shaped base edging joint.

Code	Dim. (mm)	Lenght (m)	Pack	Outer	Cat.
2531.16.02	160x50x6*	2	120	120	30.07



Great sound absorbing properties.



### Series 2532

#### Adhesive joint tape.

Adhesive joint tape which prevents the formation of acoustic bridges between 2 adjacent panels and creates a single insulating layer.

- Tape width 10 cm
- Tape length 25 m
- Thickness 3 mm

Code	Lenght (m)	Width (cm)	Pack	Outer	Cat.
2532.10.02	25	10	1	1	30.07



Great sound absorbing properties.



### Series 3670

#### Screed expansion joint with adhesive base.

- Joint height 100 mm
- Profile length 2 m

Compatible systems:

KILMA-ISI  
KILMA-GRAF  
KILMA-RETE

Code	Lenght (m)	Pack	Outer	Cat.
3670.10.02	2	90	90	30.07



Accessory to be used on Kilma-Graf, Kilma-Isi and Kilma-Rete radiant systems.





## Series 468

### Pipe fastener clip.

Pipe anchor clip for KILMA panel  
Made of plastic with anchoring lugs.

Compatible systems:

KILMA-ISI  
KILMA-GRAF

### Pipe fastener clip

Code	Measure	Pack	Outer	Cat.
<b>468.45.12</b>	45x20	1000	10000	30.07
<b>468.45.00*</b>	45x20	300	300	30.07
<b>468.39.02**</b>	39x20	1050	1050	30.07
<b>19475702***</b>	56x20	300	300	30.07

\* Pack for fixing with special fastener clip tool code 469.00.02 - Clips joined together by heat-sealing

\*\* Pack for fixing with special fastener clip tool code 469.00.02 - Low clip to be used with thin panels (up to 20mm thick). Suitable for fixing pipes maximum  $\varnothing$  17 mm - Pack for fixing with special fastener clip tool code 469.00.02 - Clips joined together by heat-sealing

\*\*\* Pack for fixing with special fastener clip tool code 469.00.02 - Clips joined together by heat-sealing

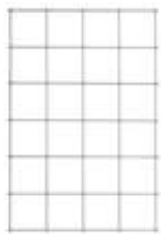
### Strong pipe fastener clip

Code	Measure	Pack	Outer	Cat.
<b>2003.42.02*</b>	42x20	1050	1050	30.07

\* Pack for fixing with special fastener clip tool code 469.00.02 - Strong clip to be used with aluminised panels - Clips joined together with adhesive tape



Accessory that can be used on Kilma-Isi and Kilma-Graf radiant systems.



## Series 476.A

### Electro-welded binding mesh $\varnothing$ 2 mm for screed.

Galvanised electro-welded mesh panels for underfloor heating which drastically reduces the formation of cracks in concrete screed. Overlap of 75 mm with very little waste.

- Dimension 991x2060 mm
- Wire diameter 2 mm

Compatible systems:

KILMA-ISI  
KILMA-GRAF  
KILMA-RETE

Code	Mesh (mm)	Pack	Pack m <sup>2</sup>	Outer	Cat.
<b>476.40.02</b>	75x75	1	40,80	20	30.07



Accessory that can be used on Kilma-Isi, Kilma-Graf and Kilma-Rete radiant systems.  
Binding function for concrete screeds.  
Supplied in bundles of 20 panels.



## Series 825

### Mesh fastener clip.

Clip for fixing the mesh to the Kilma panel, made of plastic with anchoring lugs.

- Centre distance 75 mm
- Height 28 mm

Compatible systems:

KILMA-ISI

Code	Centre distance (mm)	Height (mm)	Pack	Outer	Cat.
<b>825.00.02</b>	75	28	100	4000	30.07



Accessory that can be used on the Kilma-Isi radiant system.





### Series 475.A

#### Kilma-Therm Super fluidifying additive "KILMA- THERM".

Superfluidifying liquid additive for concrete screeds. Improves workability and performance characteristics. Gives the screed greater mechanical resistance and a higher thermal conductivity.

Compatible systems:

KILMA-ISI  
KILMA-GRAF  
KILMA-RETE

Code	Weight (kg)	Capacity (l)	Pack	Outer	Cat.
475.10.02	10	9,80	1	60	30.07
475.25.02	25	24,5	1	24	30.07



Accessory that can be used on Kilma-Isi, Kilma-Graf, Kilma-Rete and Kilma-Industriale radiant systems.  
Recommended dose: 1.0-1.2 Kg additive every 100 Kg of cement.



### Series 475.B

#### Polypropylene short fibre additive for concrete screeds.

Improves the elasticity and resistance of the screed, eliminating the risk of cracks as a result of plastic shrinkage in floors not properly wet cured. Non-flammable product. Excellent resistance to acids, bases and chemical agents present in cement mixes.

Compatible systems:

KILMA-ISI  
KILMA-GRAF  
KILMA-RETE

Code	Weight (kg)	Pack	Outer	Cat.
475.10.12	1	1	25	30.07



Accessory that can be used on Kilma-Isi, Kilma-Graf and Kilma-Rete radiant systems.  
Dosage for mixes with average cement content: 0.9 kg/1 m<sup>3</sup> of screed.  
To restore workability (concrete treated with fibre additive) combine with KILMA-THERM 0.5÷0.7 l/100kg cement.



### Series 862.A

#### Rail for fastening of the pipe.

Profile in plastic, sections of 1m in length which can be hooked together for a custom size.

Compatible systems:

KILMA-INDUSTRIALE

Code	Suitable for pipes	Pitch (mm)	Pack	Outer	Cat.
862.16.00	ø 16-17	50	80	80	30.07
862.16.10*	ø 16-17	50	80	80	30.07
862.20.00	ø 17 - 20 - 25	100	50	50	30.07
862.20.10*	ø 17 - 20 - 25	100	50	50	30.07
862.24.42**	ø 20	50	63	63	30.07

\*with fixing adhesive

\*\*with fixing anchors



Accessory that can be used on the Kilma-Industriale radiant system.  
Suitable for Kilma-flex polyethylene pipe and Tita-fix multi-layer pipe





### Series 476.B

#### Electro-welded mesh Ø 3 mm for pipe anchoring.

Galvanised electro-welded mesh panels for underfloor heating.

- Size 1200x2100 mm
- Wire diameter 3 mm

Compatible systems:

KILMA-RETE

KILMA-INDUSTRIALE

Code	Mesh (mm)	Pack	Pack m <sup>2</sup>	Outer	Cat.
476.10.02	100x100	1	40	18	30.07



Accessory that can be used on Kilma-Rete and Kilma-Industriale radiant systems.

Pipe fastener clip anchoring function.  
Supplied in bundles of 15 panels.



### Series 595.A

#### Automatic pipe fastener clip for electro-welded mesh Ø 3 mm.

Plastic clip for anchoring the pipe to the electro-welded mesh (Code 476.10.02).  
Wire diameter of 3 mm.  
Fastening by clip fastener tool.

Compatible systems:

KILMA-RETE

Code	Suitable for pipes	Pack	Outer	Cat.
595.00.42	ø 17	1700	1700	30.07



Accessory that can be used on the Kilma-Rete radiant system.



### Series 595.B

#### Manual flat pipe fastener clip for electro-welded mesh Ø 3 mm.

Plastic clip for anchoring the pipe to the electro-welded mesh (Code 476.10.02).  
Wire diameter of 3 mm.

Compatible systems:

KILMA-RETE

Code	Suitable for pipes	Pack	Outer	Cat.
595.00.12	ø 17	500	500	30.07



Accessory that can be used on the Kilma-Rete radiant system.



### Series 862.B

#### Rail for fastening of the pipe.

Profile in plastic, sections of 900 mm in length which can be hooked together for a custom size.

Code	Suitable for pipes	Pitch (mm)	Pack	Outer	Cat.
862.10.00	ø 10	60	6	150	30.07



### Series 595.C

#### Manual pipe fastener clip for electro-welded mesh Ø 3 mm.

Plastic clip for anchoring the pipe to the electro-welded mesh (Code 476.10.02).  
Wire diameter of 3 mm.

Compatible systems:

KILMA-RETE

KILMA-INDUSTRIALE

Code	Suitable for pipes	Pack	Outer	Cat.
595.00.00	ø 17 - 20	200	200	30.07



Accessory to be used on Kilma-Rete and Kilma-Industriale radiant systems.







### Series 595.D

#### Manual pipe fastener clip for electro-welded mesh Ø 6 mm.

Clip made of plastic for anchoring the pipe to the electro-welded mesh.  
Wire diameter of 6 mm.

Compatible systems:  
KILMA-INDUSTRIALE

Code	Suitable for pipes	Pack	Outer	Cat.
595.00.22	ø 20	200	200	30.07
595.00.52	ø 25	100	100	30.07



Accessory that can be used on the Kilma-Industriale radiant system.



### Series 470

#### Fixing clamp.

Clamp made of plastic for fastening the pipe to the electro-welded mesh (Cod.

Compatible systems:  
KILMA-INDUSTRIALE

Code	Size A	Pack	Outer	Cat.
470.00.02	x	1000	1000	30.07



Accessory that can be used on the Kilma-Industriale radiant system.



### Series 1200

#### Pipe clip for mesh.

Ideal to fasten the pipe (up to Ø 25) to the industrial mesh (max Ø 8 ÷ 10 mm).

Compatible systems:  
KILMA-INDUSTRIALE

Code	Suitable for pipes	Pack	Outer	Cat.
1200.00.02	up to Ø 25	50	2000	30.07



Accessory that can be used on the Kilma-Industriale radiant system.



### Series 1333

#### Double mesh spacer.

The ideal solution to assure maximum grip of the metal structure inside the castings, for increased resistance to compression.  
It ensures that the structure is raised from the bottom (3 cm) and that there is an excellent distance between the two meshes (6 cm) and the PE-X pipes.

Compatible systems:  
KILMA-INDUSTRIALE

Code	Lenght (mm)	Height (mm)	Pack	Outer	Cat.
1333.00.02	150	95	1800	1800	30.07

Pack: 1800 pcs. on pallet wrapped with PE film.



Accessory that can be used on the Kilma-Industriale radiant system.





### Series 2018

#### Anodised aluminium adhesive tape.

Aluminium adhesive tape to prevent the formation of acoustic bridges between 2 adjacent panels and to create a single insulating layer.

- Tape width 5 cm
- Tape length 50 m

Code	Lenght (m)	Width (cm)	Pack	Outer	Cat.
2018.00.02	50	5	1	24	30.07



For use on the head joints of Kilma-Roll rolled panels, Kilma Reel and Futura system.



### Series 3702

#### KILMA FUTURA AD Adhesive.

Gluing function of Kilma-Futura panels on existing substrate support.

Code	Weight (kg)	Pack	Outer	Cat.
3702.00.02	1	1	1	30.07



Accessory that can be exclusively used on the Kilma-Futura radiant system.  
Average use 0.10 - 0.15 kg/m<sup>2</sup>.



### Series 3055

#### PRIMER MF by MAPEI® Epoxy primer.

Waterproofing and protection of the aluminised surface of the panel and piping in case of subsequent laying of flooring with cement-based glues or self-levelling screeds.

Supplied as a kit consisting of 1 3-kg box (primer) + 1 1-kg box (reagent).

Code	Pack	Outer	Cat.
3055.00.12	1	1	30.07



Accessory that can be used on the Futura radiant system.  
Average use 0.2 kg/m<sup>2</sup>.



### Series 832

#### Axial pressure gauge.

Pressure gauge for automatic Alinox feeder.

Code	Measure	Scale (bar)	Pack	Outer	Cat.
83.20.05	1/8" Ø40	0 ÷ 10	1	1	30.07





### Series 3597

**Compression fitting for polyethylene pipes, specifically designed for 3201 - 3202 - 3615 - 3616 series manifolds.**

Brass nut, core and pipe clamping ogive.  
Nickel plated nut.  
Elastomer seal ring.  
Standard RBM threaded F connection.

- Max operating temperature 95 °C
- Max operating pressure 10 Bar

Code	Measure	Measure	Pack	Outer	Cat.
3597.16.00	16x2	RBM 16	10	100	30.07
3597.17.00	17x2	RBM 17	10	100	30.07

Standard RBM thread W 24.5x19F - int. 37 mm

Size: Outside Ø x pipe thickness



Fitting to be used exclusively with compact modular brass manifolds, centre-to-centre distance 37mm 3201 - 3202 - 3615 - 3616 series.



### Serie 450.A

**Air and water manual discharge terminal unit.**

Code	Measure	Pack	Outer	Cat.
450.06.00	1"	1	10	30.07
450.07.00	1 1/4"	1	10	30.07





### Series 217.B

#### Polyethylene pipe fitting.

Euroconus G3/4" connection (UNI-EN-ISO 228)

Certifications:



Code	Measure	Measure	Pack	Outer	Cat.
<b>217.16.00</b>	16x2	G 3/4" 16 EK	10	100	30.07
<b>217.17.00</b>	17x2	G 3/4" 17 EK	10	100	30.07
<b>217.20.00</b>	20x2	G 3/4" 20 EK	10	100	30.07

Size: Outside  $\varnothing$  x pipe thickness



KOMO certified diameter 16x2 – 17x2 and 20x2 fittings available. Contact our sales department for the ordering codes.



### Series 224.B

#### Compression fitting for multilayer pipe.

Euroconus G3/4" connection (UNI-EN-ISO 228)

Certifications:



Code	Measure	Measure	Pack	Outer	Cat.
<b>224.16.00</b>	16x2	G 3/4" 16 EK	10	100	30.07
<b>224.20.00</b>	20x2	G 3/4" 20 EK	10	100	30.07

Size: Outside  $\varnothing$  x pipe thickness



### Series 8579

#### MM 1" connection fitting.

Suitable for connecting 2 1" manifolds to reach the number of required junctions.

Code	Measure	Pack	Outer	Cat.
<b>857.90.03</b>	1"	1	10	30.07



### Series 208

#### Flow meter to measure the flow rate of single circuit directly.

Euroconus F threaded swivel connection for connection to manifold.  
Euroconus M threaded straight connection for fittings for copper, polyethylene, multilayer pipe.

- Scale 0÷5l/min
- Reading precision  $\pm 10\%$

Code	Measure	Pack	Outer	Cat.
<b>208.05.10</b>	G 3/4" EK	10	10	30.07





### Series 311.B

**Y-shaped fitting to split copper, polyethylene and multilayer metal-plastic circuits.**

Euroconus G3/4" swivel threaded connection (UNI-EN-ISO 228)  
Standard RBM split threaded connections W24.5x19F  
Nickel brass body.  
Elastomer seals.

- Max operating temperature 100 °C
- Max operating pressure 10 Bar

Certifications:



Code	Size A	Size B	Pack	Outer	Cat.
311.05.00	G 3/4" EK	RBM	10	10	30.07



Allows to split circuits deriving from Euroconus manifolds. Use fittings with Standard RBM thread (see page 98) for pipe connection.



### Series 215

**Straight adjustment lockshield for junction circuits from Euroconus manifolds.**

Euroconus F threaded swivel connection for connection to manifold.  
Euroconus M threaded straight connection for fittings for copper, polyethylene, multilayer pipe.

Code	Measure	Pack	Outer	Cat.
215.05.50	G 3/4" EK	10	10	30.07



### Series 267

**Straight valve with thermostatic option for junction circuits from Euroconus manifolds.**

Euroconus F threaded swivel connection for connection to manifold.  
Euroconus M threaded straight connection for fittings for copper, polyethylene, multilayer pipe.

Code	Measure	Pack	Outer	Cat.
267.05.50	G 3/4" EK	10	10	30.07



It can be coupled with RBM thermo-electric servo motors code 306.00.X2



### Series 3930

**Reversible ball valve**

Nickel brass body.  
Thick chrome plated brass ball.  
Elastomer gaskets.  
UNI-EN-ISO 228 MF connections.

- Operating temperature with water 20 ± +120 °C

Code	Measure	Pack	Outer	Cat.
3930.06.00	1"	2	20	30.07



### Series 451

**In line fitting with thermowell and socket and dial thermometer to check the manifold's temperature.**

Threaded line connections MF UNI-EN-ISO 228

- Thermometer scale 0÷80 °C

Code	Measure	Pack	Outer	Cat.
451.06.00	1"	10	10	30.07
451.07.00	1"1/4	10	10	30.07





### Series 7469

**Pressure gauge ø 40. For pressure control.**

- Scale 0 - 16 Bar (radial pressure gauge).
- Scale 0 - 10 Bar (axial pressure gauge).

Code	Measure	Pack	Outer	Cat.
746.90.05	1/8"	1	1	30.07



### Series 793

**Joint connection for aligning zone valve.**

Threaded line connections MF UNI-EN-ISO 228

Code	Measure	Pack	Outer	Cat.
793.06.00	1"	1	1	30.07



For the fitting of the zone valve, when using misaligned brackets cod. 792.06.00 or else 1528.06.00



### Series 1529

**By-pass group with rotatable elbow fittings for the system filling.**

It consists of (loose pieces):

- Automatic air vent;
- By-pass adjustment group;
- Fittings and connection pipe.

- G 1/8" pressure gauge holder connection (for RBM Ø 40 radial pressure gauge - scale 0-10 bar - Code 832.005)

Code	Measure	Pack	Outer	Cat.
1529.06.00	1"	1	1	30.07

For manifold kits code 1410.XX.XX - 1420.XX.XX, 608.XX.XX - 616.XX.XX and 2028.XX.XX - 2038.XX.XX



It allows for by-pass fixed adjustment. For connection to manifolds series 608 and 1410.A, please also include the fitting code 930.06.00.



### Series 3786

**Insulation shell for series 1529 bypass, made of expanded polyethylene half-bearings with external antiscratch coating.**

Fire behaviour class I  
Density 33 kg/m<sup>3</sup>  
Max operating temperature -40 ÷ +90 °C

Code	Measure	Pack	Outer	Cat.
3786.00.00	1"	1	1	30.07





### Series 114.C

#### Motorised zone valve, 4-way, with 220 mm extension lead.

Threaded connections FFUNI-EN-ISO 228  
Complete with adjustable micrometric bypass.

- Centre distance 220±225 mm
- Misalignment 33 mm

Code	Measure	Model	Pack	Outer	Cat.
114.06.30	1"	Zone 4	1	1	30.07



Fitted for servocontrols code 360.00.X0 and 373.00.X0



### Series 1360

#### Polyethylene pipe fitting.

1" F connection (UNI-EN-ISO 228)

Code	Measure	Pack	Outer	Cat.
1360.00.10	20x2	10	40	30.07
1360.00.30	25x2,3	10	40	30.07

Size: Outside  $\varnothing$  x pipe thickness



This connection can be used in combination with Kilma Big Acciaio Manifold Kit, SERIES 1349



### Series 1095

#### Brass sealing cap with o-ring for pressurising system with air.

Code	Pack	Outer	Cat.
1095.00.00	1	1	30.07



For use only on the air vent valves model Vasa - VasaTre.



**03.  
CLIMATE  
COMFORT**

---

**30. RADIANT CLIMATE CONTROL SYSTEMS**

**30.08 TEMPERATURE CONTROL**

323

Thermostats, programmable thermostats and room humidity regulator



# TEMPERATURE CONTROL

## Comfort and energy efficiency

A modern building cannot do without an efficient heating and air conditioning system that guarantees energy savings while maintaining comfort for the occupants.

The zoned temperature control system is a key element in achieving **comfort and energy efficiency**.

Dividing the building into separately controlled zones makes the following possible:

- Manage comfort temperature only when people are present
- Manage artificial heating or cooling only when it is really necessary, depending on the contribution of solar radiation

For example, in the cold season, rooms exposed to sunlight need less energy to be heated than those not exposed to the sun.

By installing multi-zone systems, **cost savings of up to 30%** can be achieved, compared to traditional systems with a single thermostat.



## ADVANTAGES

### ADVANCED RADIANT SYSTEM MANAGEMENT

The system stores usage patterns and recognises the climatically disadvantaged environment, correcting discomfort.

### INTEGRATED SYSTEM WITH START & STOP

The intelligent control continuously calculates the inertia of each individual room, anticipating start-up and shutdown.

### OPTIMISED PID CONTROL STRATEGY

The technology algorithm allows the radiant system to be managed with maximum efficiency.

### ADVANCED AIR TREATMENT MANAGEMENT

Optimises unit operation according to different requirements.

### COMPATIBLE WITH HOME AUTOMATION SYSTEM

Using an interface device with the chosen home automation system, it will be possible to monitor and control the system from a single application in a simple way.

### CONNECTION TO THE CLOUD PLATFORM

The platform allows system supervision and the display of graphs and statistics.

### VOC SENSOR TO MEASURE AIR QUALITY

VOC sensors help determine air quality by measuring volatile organic compounds.

## TAX DEDUCTIONS

Compatible with the requirements of current legislation on tax deductions.



### Series 386

#### Electromechanical room thermostat

**Electromechanical room thermostat. Wall-mounted installation. White. Summer-Winter selector.**

Setting range 5÷30 bar  
Thermal differential 1.3°C (± 0.2°C)  
Wall-mounted.  
Size mm (lxhxd.): 83.7x82.9x30.9  
Electrical protection rating: IP20

Certifications:



Code	Control	Colour	Pack	Outer	Cat.
386.00.22	Daily	White	1	1	30.08



Wall mounted.



### Series 2726

#### Digital electronic room chronothermostat

**Digital electronic room chronothermostat. The temperature can be programmed at any time of day and for each day of the week. Wall-mounted installation. Summer-Winter switchover.**

- Power supply: 3 x 1.5V AAA alkaline batteries (not included)
- Type of setting ON/OFF or proportional
- Setting range 2÷37.7°C
- Temperature resolution 0.1°C
- Fixed thermal differential 0.3°C
- Minimum programming interval 1 hour
- 4 operating temperatures: Comfort - Economy
- Manual - Off
- Programming: 7 programmes for winter operation (editable) and 7 programmes for summer operation (editable).
- Size mm (lxhxd.): 123x86x23
- Electrical protection rating: IP40

Certifications:



Code	Control	Colour	Pack	Outer	Cat.
2726.00.12	Weekly	White	1	1	30.08



Wall mounted.





## Series 1552

**Electronic room thermostat**  
**Electronic ambient thermostat recessed installation. Summer-Winter-Off selector.**

- Power supply: 2 x 1.5V AAA alkaline batteries (not included)
- Mode: summer/winter/off
- Temperature setting:
- ON/OFF with fixed differential 0.3°C
- proportional with 0.8°C band and 8 min time base.
- proportional with 1.5°C band and 15 min time base.
- Temperature setting: 5 ÷ 35°C
- (Fixed) differential: 0-3°C
- Operating temperature: 0 ÷ 50°C
- Storage temperature: -10 ÷ +60°C
- Operating humidity: 20 ÷ 90% RH (non-condensing)
- Electrical protection rating: IP40
- Interchangeable front panel available in two colours: white and anthracite grey (included in the package)

Certifications:



Code	Control	Colour	Pack	Outer	Cat.
1552.00.02	Daily	White/ Charcoal	1	1	30.08

Recessed assembly.

Compatibility with civil series plates

ABB S.p.a.: Chiara, Mylos.

AVE S.p.a.: S44.

BTICINO S.p.a.: Axolute, Light, Light Tech, Living, Livinglight, Luna, Matix.

GEWISS S.p.a.: Chorus.

VIMAR S.p.a.: Eikon, Eikon Evo, Idea, Plana, Arke



## Series 1553

**Digital electronic room**  
**chronothermostat. The temperature can**  
**be programmed at any time of day and**  
**for each day of the week. Recessed**  
**installation. Summer-Winter switchover.**

- Power supply: 2 x 1.5V AAA alkaline batteries (not included)
- Mode: summer/winter/off
- Temperature setting: 2 ÷ 35°C
- Differential (adjustable): 0.1 ÷ 1 °C
- Operating temperature: 0 ÷ 50 °C
- Antifreeze temperature: 1 ÷ +10 °C, can be disabled
- Storage temperature: -10 ÷ +65 °C
- Operating humidity: 20 ÷ 90% RH (non-condensing)
- Electrical protection rating: IP40
- Interchangeable front panel available in two colours: white and anthracite grey (included in the package)



Code	Control	Colour	Pack	Outer	Cat.
1553.00.02	Weekly	White/ Charcoal	1	1	30.08

Recessed assembly.

Compatibility with civil series plates

ABB S.p.a.: Chiara, Mylos.

AVE S.p.a.: S44.

BTICINO S.p.a.: Axolute, Light, Light Tech, Living, Livinglight, Luna, Matix.

GEWISS S.p.a.: Chorus.

VIMAR S.p.a.: Eikon, Eikon Evo, Idea, Plana, Arke.





## Series 2295

### Umiclima Touch Screen Wall mounted digital electronic ambient programmable thermostat with humidity sensor.

- Power supply 2 AAA 1.5V alkaline batteries
- Autonomy (Stand-by): 2 years
- Automatic battery discharge control with 2 intervention thresholds
- Graphical display of set temperature, time, measured temperature, measured relative humidity and calculated dew point
- Temperature control
- Second relay for dehumidifier summer intervention control based on dew temperature control
- LCD touch screen display
- Battery replacement without loss of data within 1 minute
- Setting range: 5°C to 30°C in WINTER programme, 15°C to 35°C in SUMMER programme
- Setting pitch: 0.2°C
- Adjustable thermal differential: 0.2 to 2.0°C (intervention range + 0.1°C to +1.0°C)
- Possibility of programming any temperature within the setting ranges at any half-hour of the day for each day of the week
- Contacts capacity: 230Vac - 5A (resistive load)
- Wall mounted
- Dimensions (LxHxD): 123.5x83.5x31mm
- Available colours: white or anthracite grey
- Class 1 temperature control device
- Contribution of the temperature control device to the seasonal efficiency of room heating: 1%. (in accordance with Directive 2010/30/EC Regulation 811/2013/EU)

Certifications:



Code	Model	Colour	Pack	Outer	Cat.
2295.00.22	UMICLIMA TOUCH	White	1	1	30.08
2295.00.32	UMICLIMA TOUCH	Black	1	1	30.08



## Series 2294

### UMIDAY-V ambient humidistat Ambient humidistat.

- Power supply: 230Vac 50/60 Hz
- Absorption: 4Va (0.5W)
- Output with bistable relay 5(3)A/250Vac
- Setting range: 30÷90% RH
- Minimum time between one switchover and the next: 1 minute
- Operating temperature: 0÷50°C
- Storage temperature: +0÷+60°C
- Electrical protection rating: IP40
- Interchangeable front panel available in two colours: white and anthracite grey (included in the package)
- Selector with two positions: off and automatic

Certifications:



Code	Colour	Pack	Outer	Cat.
2294.00.32	White/Charcoal	1	1	30.08

Flush mount installation in 503 box.  
Suitable for room relative humidity control and adjustment.  
Compatibility with civil series plates  
ABB S.p.a.: Chiara, Mylos.  
AVE S.p.a.: S44.  
BTICINO S.p.a.: Axolute, Light, Light Tech, Living, Livinglight, Luna, Matix.  
GEWISS S.p.a.: Chorus.  
VIMAR S.p.a.: Eikon, Eikon Evo, Idea, Plana, Arke





## Series 3499

### Kilma Set 2

**Kilma Set 2 MULTIZONE pre-configured electronic regulator. Regulator for DIN guide installation with control up to 32 zones, dehumidification control, clock/calendar with built-in buffer battery, 0/10V outputs, expansion bus to connect temperature and humidity sensors.**

Specifically designed for radiant air-conditioning systems. Keyboard-guided settings and values shown on the backlit display on the controller.

- DIN rail insertion of 6 modules (108 mm long)
- Control up to 32 zones
- Power supply 12-14V DC, absorption 500 mA
- 8 relay outputs, NO potential-free contacts with a capacity of 4A 250V AC, 2A 30V DC
- 2 0/10V outputs to control the mixing valves
- Summer/winter mode
- 8 inputs for passive temperature probes

Code	Model	Pack	Outer	Cat.
3499.00.02*	Kilma Set 2*	1	1	30.08

\* DIN rail controller with 6 modules fitted with 8 inputs, 8 digital outputs and 2 analogue outputs



## Series 3500

### Expansion module for Kilma Set 2 regulator.

Fixing to DIN rail.

- 12-14V DC power supply, connection with bus control systems
- Digital output, potential-free exchange contact, 4A, 250V AC, 2A 30V DC capacity
- 0/10V signal analogue output (if there is one)
- LED for status indication: inputs, outputs, power supply, bus communication
- Removable terminals

Code	Model	Pack	Outer	Cat.
35000002(a)	Kilma Set EXP	1	1	30.08
35000012(b)	Kilma Set DD	1	1	30.08
35000022(c)	Kilma Set AD	1	1	30.08
35000032(d)	Kilma Set AA	1	1	30.08

(a) DIN rail expansion with 6 modules fitted with 8 inputs, 8 digital outputs and 2 analogue outputs.

(b) DIN rail expansion 2 module with 2 inputs and 2 digital outputs.

(c) DIN rail expansion 2 module with 2 inputs and 1 digital output and 1 analogue output.

(d) DIN rail expansion with 2 modules with 2 digital outputs and 2 analogue outputs.



## Series 3501

### Power supply.

Fixing to DIN rail (3 modules).

- 100-240V AC power supply
- 12V DC output voltage
- 60W rated power
- Protection against short circuit, overload, overvoltage
- Insulation Class II
- Operating temperature -20 ÷ +40°C (at full load)
- -20 ÷ +60°C (at 60% of the load)
- Operating humidity 20% ÷ 90%, without condensation
- Dimensions (HxLxD): 93x53x56 mm

Code	Model	Pack	Outer	Cat.
3501.00.12	W60	1	1	30.08





### Series 3502.A

#### Immersion temperature probe and well.

Brass thermowell  
PG7 cable gland for probe insertion and fixing

- Sensitive element  $\varnothing$  6 mm
- NTC sensor
- Length 50 mm
- Silicone cable length 3 m
- Well G 1/2" thread
- Maximum probe/regulator distance: 200 m (with a 2 x 0.75 mm<sup>2</sup> cable)



#### Immersion temperature probe

Code	Model	Description	Pack	Outer	Cat.
3502.00.02	STP	for KILMA SET 2	1	1	30.08

#### STP probe holder drain

Code	Pack	Outer	Cat.
3502.00.32	1	1	30.08



### Series 3502.B

#### ETP probe for external temperature only.

- Sensitive element NTC
- ABS container
- Electrical protection: IP65
- Maximum probe/regulator distance: 200 m (with a 2 x 0.75 mm<sup>2</sup> cable)
- Operating/storage temperature range: -30 ÷ +85°C
- Storage humidity range: 10÷90% (non-condensing)
- Built-in cable gland for cable diameter from 5 to 10 mm
- Size (lxhxd) 45x45x25 mm (excluding the size of the cable gland)

Code	Model	Pack	Outer	Cat.
3502.00.12	ETP	1	1	30.08



Wall mounted.



### Series 3503

#### Blind room temperature probe, suitable for installation with the most common recessed civil series.

Suitable for room temperature control.

- NTC temperature probe
- Takes up 1 position on the case body for installation. - 2-pole terminal.
- Connection via analogue input (on Kilma Set 2 regulator or expansion).
- Maximum probe/regulator distance: 200 m (with a 2 x 0.75 mm<sup>2</sup> cable)
- Operating/storage temperature range: -20 ÷ +50°C
- Storage humidity range: 10÷90% (non-condensing)

Code	Model	Pack	Outer	Cat.
3503.01.02*	TA	1	1	30.08
3503.80.02**	TA-80	1	1	30.08

\* Recessed installation. For the full ordering code, see the table below with the "coding method for the compatibility of civil recessed series plates".

\*\* Wall mounted.



Recessed/wall-mounted installation (two different versions). Plate, basket and plugs not included in the supply.





### Series 3504

**Blind room temperature and relative humidity combined probe, suitable for installation with the most common recessed civil series.**

Suitable for room temperature and relative humidity control.

- NTC temperature probe
- Temperature measurement with resolution and repeatability of 0.1°C
- Relative humidity measurement with resolution and repeatability of 0.1% RH
- Takes up 1 position on the case body for installation
- 12V DC power supply, removable 4-pole terminal for easy wiring
- Bus connection to the other system components
- Operating temperature range: -5 ÷ +45°C
- Storage temperature range: -20 ÷ +50°C
- Operating humidity range: 5÷90%
- Storage humidity range: 10÷90% (without condensation)

Code	Model	Pack	Outer	Cat.
<b>3504.01.02*</b>	THB	1	1	30.08
<b>3504.80.02**</b>	THB-80	1	1	30.08

\* Recessed installation. For the full ordering code, see the table below with the "coding method for the compatibility of civil recessed series plates".

\*\* Wall mounted.



Recessed/wall-mounted installation (two different versions).  
Plate, basket and plugs not included in the supply.



### Series 3505

**Room temperature and relative humidity combined probe with LED display, suitable for installation with the most common recessed civil series.**

Suitable for room temperature and relative humidity control.

- Temperature measurement with resolution and repeatability of 0.1°C
- Relative humidity measurement with resolution and repeatability of 0.1% RH
- Takes up 2 positions on the case body for installation
- 12V DC power supply, removable 4-pole terminal for easy wiring
- Bus connection to the other system components
- High readability LED display, in standby it switches to low brightness mode
- Operating temperature range: -5 ÷ +45°C
- Storage temperature range: -20 ÷ +50°C
- Operating humidity range: 5÷90%
- Storage humidity range: 10÷90% (without condensation)

Code	Model	Pack	Outer	Cat.
<b>3505.01.02*</b>	THB Led	1	1	30.08

\* Recessed installation. For the full ordering code, see the table below with the "coding method for the compatibility of civil recessed series plates".



Plate, basket and plugs not included in the supply.



### Series 3506

**Blind room CO2 probe, suitable for installation with the most common recessed civil series.**

Suitable for monitoring room air quality.

- Takes up 1 position on the case body for installation
- 12V DC power supply, removable 4-pole terminal for easy wiring
- Bus connection to the other system components

Code	Model	Pack	Outer	Cat.
<b>3506.01.02*</b>	VOC	1	-	30.08
<b>3506.80.02**</b>	VOC-80	1	1	30.08

\* Recessed installation. For the full ordering code, see the table below with the "coding method for the compatibility of civil recessed series plates".

\*\* Wall mounted.



Recessed/wall-mounted installation (two different versions).  
Plate, basket and plugs not included in the supply.





## Series 3507

### Kilma Set Touch

Remote terminal for connection with Kilma Set 2 controllers, suitable for installation with the most common recessed civil series.

2.4" backlit touch screen display  
12V DC power supply  
BUS connection to the other system components

Code	Model	Pack	Outer	Cat.
3507.01.02*	Kilma Set Touch	1	1	30.08
3507.80.02**	Kilma Set Touch-80	1	1	30.08

\* Recessed installation. For the full order code, see the table with the "coding method for the compatibility civil series plates for recessed installation" reported below – Article not compatible with JUNG LS SQUARE plate. Price not valid for BTICINO LIVING NOW series (request specific quotation).

\*\* Wall mounted.



Recessed/wall-mounted installation (two different versions).  
Plate, basket and plugs not included in the supply.





## CODING METHOD FOR RECESSED DOMESTIC SERIES COVER PLATE COMPATIBILITY

The components of the SERIES 3503 - 3504 - 3505 - 3506 - 3507 system (room temperature probes and remote touch screen terminal) are designed for installation in line with the most common recessed domestic series. When placing the order, you must complete the code corresponding to the series of domestic cover plates provided for the housing unit to be combined as shown in the following table.

## COMPLETE ORDER CODE

**XXXX.YY.ZZ**

**SERIES FIELD**    **DOMESTIC SERIES TYPE**  
(refer to the table below for the expected completion code)

DOMESTIC SERIES TYPE	CODE COMPLETION
VIMAR PLANA SILVER	XXXX.01.02
VIMAR PLANA WHITE	XXXX.02.02
VIMAR IDEA WHITE	XXXX.03.02
VIMAR IDEA BLACK	XXXX.04.02
VIMAR EIKON WHITE	XXXX.05.02
VIMAR EIKON BLACK	XXXX.06.02
VIMAR EIKON NEXT	XXXX.07.02
VIMAR EIKON WHITE EVO	XXXX.05.12
VIMAR EIKON BLACK EVO	XXXX.06.12
VIMAR EIKON NEXT EVO	XXXX.07.12
VIMAR ARKE' WHITE	XXXX.50.02
VIMAR ARKE' BLACK	XXXX.51.02
VIMAR ARKE' METAL	XXXX.52.02
VIMAR ARKÉ WHITE FIT	XXXX.50.12
VIMAR ARKÉ BLACK FIT	XXXX.51.12
VIMAR ARKÉ METAL FIT	XXXX.52.12
VIMAR LINEA WHITE*	XXXX.57.12
VIMAR LINEA BLACK*	XXXX.58.12
VIMAR LINEA HEMP*	XXXX.59.12
BTICINO INTERNATIONAL BLACK (BTICINO LIVING LIGHT BLACK)	XXXX.10.02
BTICINO LIVING LIGHT WHITE	XXXX.11.02
BTICINO LIVING NOW WHITE	XXXX.17.02
BTICINO LIVING NOW BLACK	XXXX.18.02
BTICINO LIVING NOW SAND	XXXX.19.02
BTICINO AXOLUTE WHITE	XXXX.12.02
BTICINO AXOLUTE BLACK	XXXX.13.02
BTICINO MATIX WHITE	XXXX.14.02
BTICINO MATIX IVORY	XXXX.19.12
BTICINO MATIX GO WHITE	XXXX.48.02
BTICINO MATIX GO GREY	XXXX.49.02
BTICINO LIVING LIGHT TECH	XXXX.15.02
BTICINO AXOLUTE SILVER	XXXX.16.02
BTICINO INTERNATIONAL BLACK AIR (BTICINO LIVING LIGHT BLACK AIR)	XXXX.10.12
BTICINO LIVING LIGHT WHITE AIR	XXXX.11.12

DOMESTIC SERIES TYPE	CODE COMPLETION
BTICINO AXOLUTE WHITE AIR	XXXX.12.12
BTICINO AXOLUTE BLACK AIR	XXXX.13.12
BTICINO LIVING LIGHT TECH AIR	XXXX.15.12
BTICINO AXOLUTE SILVER AIR	XXXX.16.12
GEWISS SYSTEM WHITE	XXXX.20.02
GEWISS SYSTEM BLACK	XXXX.25.02
GEWISS PLAYBUS BLACK	XXXX.21.02
GEWISS CHORUS WHITE	XXXX.22.02
GEWISS CHORUS BLACK	XXXX.23.02
GEWISS CHORUS TITANIUM	XXXX.24.02
GEWISS CHORUS GLOSSY WHITE	XXXX.22.02
GEWISS CHORUS OPAQUE WHITE	XXXX.27.02
ABB MYLOS WHITE	XXXX.30.02
ABB MYLOS BLACK	XXXX.31.02
ABB CHIARA WHITE	XXXX.32.02
LEGRAND VELA BLACK	XXXX.40.02
LEGRAND VELA WHITE	XXXX.41.02
AVE LIFE BLACK	XXXX.61.02
AVE DOMUS 44 WHITE	XXXX.62.02
AVE SYSTEM 45 NEUTRAL WHITE GLOSSY*	XXXX.63.02
AVE TEKLA BLACK (OPAQUE) SYSTEM 44	XXXX.64.02
AVE ALLUMIA SILVER GREY	XXXX.65.02
AVE LIFE BLACK (GLOSSY) SYSTEM 44	XXXX.66.02
AVE DOMUS CLASS IVORY SYSTEM 44	XXXX.68.02
URMET NEA ALUMINIUM KARBON	XXXX.70.02
URMET NEA ALUMINIUM SATIN FINISH	XXXX.71.02
URMET NEA WHITE OPAQUE	XXXX.72.02
URMET NEA ANTHRACITE BLACK	XXXX.73.02
JUNG LS SQUARE ALPINE WHITE**	XXXX.00.02
JUNG LS SQUARE ALPINE BLACK**	XXXX.00.12
JUNG LS SQUARE LIGHT GREY**	XXXX.00.22
WALL-MOUNTED IN BOX 80X120	XXXX.80.02

\* Not available for THB Led probe (3505xxxx)

\*\* Not available for remote touch screen display (3507xxxx)

**Example:** If you need to order the SERIES 3504 temperature only room probe compatible with the VIMAR PLANA SILVER domestic series, the code to order will be 3504.01.02

**NOTE:** The cover plate/basket and blind caps are not included in the supply.



### Series 3508

#### Kilma Set Touch 2.0

Touch screen with integrated WiFi to be used coupled to Kilma Set 2 regulator

4.3" backlit touch screen display.  
12V DC power supply  
BUS connection to the other system components.  
Integrated relative humidity temperature sensor.

Code	Model	Pack	Cat.
3508.80.12	Kilma Set Touch 2.0	1	30.08



Wall-mounted or to cover box recessed series 503.  
Includes Wi-Fi modem, to access the remote management portal.



### Series 3509.A

Gateway to connect the Kilma Set 2 regulator with home automation systems based on EIB/KNX standards (Konnex).

The bus can be used to:  
Turn on/off the entire system, individual zones or groups of zones;  
Read/edit the zone setpoint values;  
Read/edit how the clocks work;  
Read the temperature and humidity of all the zones;  
Option of configuring the interface via the software.

Code	Pack	Outer	Cat.
3509.00.02	1	1	30.08



### Series 3509.B

Module for remote control with Ethernet / LAN technology

Module to connect Kilma Set 2 systems to the remote control portal with Ethernet/LAN technology.

- Fixing with  $\varnothing$  3.4 mm holes
- Power supply 5-36 VDC, max absorption 325 mA
- Supplied with a magnetic base antenna and a kit of connection cables

Code	Pack	Outer	Cat.
3509.00.12	1	1	30.08



### Series 3509.C

Module for remote control with GSM / GPRS technology.

Module to connect Kilma Set 2 systems to the remote control portal with GSM/GPRS technology.

Fixing with  $\varnothing$  3.4 mm holes  
Power supply 5-36V DC, max absorption 325 mA  
Supplied with a magnetic base antenna and a kit of connection cables

Code	Pack	Outer	Cat.
3509.00.22	1	1	30.08



## Series 3509.D

**Interface to connect the boards to supervision systems (BMS) through Modbus over TCP or Modbus over 485 protocols.**

Fixing to DIN rail  
12V dc power supply  
Operating temperature range:  $-5 \div +45^{\circ}\text{C}$   
Storage temperature range:  $-20 \div +50^{\circ}\text{C}$   
Storage humidity range:  $10 \div 90\%$  (without condensation)

Supervision interface for Modbus over TCP/IP system

Code	Pack	Outer	Cat.
3509.00.32	1	1	30.08

Supervision interface for Modbus over 485 system (RTU protocol)

Code	Pack	Outer	Cat.
3509.00.42	1	1	30.08



## Series 5897.A

**KILMA AIR TOUCH**  
**Touch screen display for renewal unit control**

4.3" backlit touch screen display.  
Wall-mounted to cover box 503.  
12VDC power supply  
Mod-BUS interface, RS485 port.  
Integrated relative humidity and temperature sensor.  
Dimensions (LXHXD): 121x87x19mm

Certifications:



Code	Model	Description	Pack	Outer	Cat.
5897.30.15	AIRTOUCH_TH	Basic model	1	1	30.08



Power supply 12VDC included.  
It can only be used with the fresh air units with heat recovery from the RBM Airflat range.



**RBM**

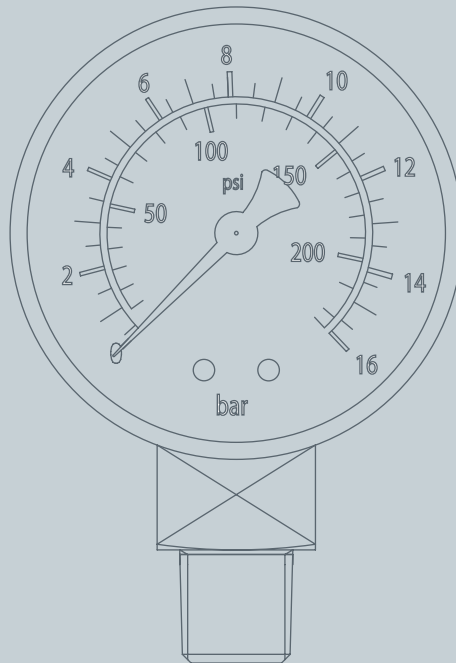
06. SERVICE

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GROUP	CATEGORY		LINE		
60. Service	336	60.01 Service	337	Spare parts	338

**06.**  
**SERVICE**

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**60. SERVICE**

**60.01 SERVICE**

337

Spare parts



### Series 1213

#### Radial pressure gauge.

Pressure gauge for pressure reducing valves and self-cleaning filters.

Code	Measure	Scale (bar)	Pack	Outer	Cat.
1213.005	1/4" - Ø50	0 ÷ 16	1	280	60.01

\*Spare part for self-cleaning filter series 126



### Series 8188

#### Radial pressure gauge for Filler feeder series 39 – 3153

Pressure gauge for automatic Filler feeders.

Code	Measure	Scale (bar)	Pack	Outer	Cat.
8188.005*	1/8" - Ø40	0 ÷ 4	1	1	60.01

\* Pressure gauge for Filler feeder series 39 – 3153



### Series 2549

#### Axial pressure gauge with red index.

Pressure gauge for standards safety relief valves.

Code	Measure	Scale (bar)	Pack	Outer	Cat.
2549.005	1/4" - Ø50	0 ÷ 4	1	1	60.01
2574.005	1/4" - Ø50	0 ÷ 10	1	1	60.01



### Series 380

#### Adjustable contact thermostat with spring-loaded pipe clamp.

- Temperature range +20 - +90°C
- Differential 8±3K
- Electrical protection rating IP30
- Thermal gradient <1K/min.
- Maximum head temperature 80°C
- Storage temperature -15 - +60°C
- Contact capacity 16(2.5)A 250V 2.5A 250V
- M20x1.5 fairlead
- Installation on piping

Code	Pack	Outer	Cat.
380.00.02	1	1	60.01



### Series 383

#### Immersion thermostat with manual reset.

- Triggering temperature (fixed setting): Min. 50 - Max. 120°C
- Fixed setting 100°C
- Triggering tolerance +0/-6°C
- Control head temperature limit 85°C
- Electrical protection rating IP43
- 1/2" conduit connection
- Contact capacity 16(4)A 250V

Certifications:  
PED

Code	Pack	Outer	Cat.
383.00.02	1	1	60.01



Spare part for 3603 Series RBM instrument holder manifold







### Series 382

**Dual immersion thermostat with thermometric conduit, including a manual reset locking thermostat and a regulation thermostat.**

- Operating range: Min. 0 - Max. 120°C
- Triggering tolerance: Min. T ±6°C - Max T ±4°C
- Triggering temperature (fixed setting): Min. 50 - Max. 120°C
- Fixed setting 100°C
- Triggering tolerance +0/-6°C
- Control head temperature limit 85°C
- Electrical protection rating IP43
- Contact capacity 16(4)A 250V

Code	Pack	Outer	Cat.
382.00.02	1	1	60.01



Accessory for 3603 Series RBM instrument holder manifold



### Series 625

**Safety pressure switch, used to protect, command and control pressure in heating systems.**

- Setting range 2 - 5.5 bar
- Minimum differential for reset 0.6 bar
- Maximum sensitive element pressure: 7 bar
- Maximum controlled fluid temperature 120°C
- Allowed pressure switch body temperature: -35 - +80°C
- Electrical protection rating IP44
- G 1/2" F connection with dome

Certifications:

PED

Code	Measure	Calibration (bar)	Pack	Outer	Cat.
625.02.00	1/2"	2 ÷ 5,5	1	1	60.01



Spare part for 3603 Series RBM instrument holder manifold



### Series 2240

**Low pressure switch with manual reset, used to command and control pressure in heating systems.**

- Setting range 0.5 - 2.5 bar
- Minimum differential for reset 0.5 bar
- Factory setting 0.5 bar
- Maximum sensitive element pressure 6 bar
- Maximum controlled fluid temperature 120°C
- Allowed pressure switch body temperature: -35 - +80°C
- Electrical protection rating IP44
- G 1/2" F connection with dome

Code	Measure	Calibration (bar)	Pack	Outer	Cat.
2240.02.00	1/2"	0,5 ÷ 2,5	1	1	60.01



Spare part for 3603 Series RBM instrument holder manifold



### Series 636

**Thermometer. Compliant with INAIL requirements.**

- Scale 0-120°C
- Precision class 2
- G 1/2" radial connection

Code	Measure	Scale (°C)	Pack	Outer	Cat.
636.00.50	1/2"	0 ÷ 120	2	1	60.01



Spare part for 3603 Series RBM instrument holder manifold  
Well included in supply





### Series 626

**Radial pressure gauge. Compliant with INAIL requirements.**

- G 1/4" radial connection

Code	Measure	Scale (bar)	Pack	Outer	Cat.
626.02.00	1/4"	0 ÷ 4	1	1	60.01
626.02.10*	1/4"	0 ÷ 6	1	1	60.01
626.02.20	1/4"	0 ÷ 10	1	1	60.01

\*Pressure gauge supplied with the instrument holder manifold



Spare part for 3603 Series RBM instrument holder manifold



### Series 3604

**Control probe holder for thermometer. Compliant with INAIL requirements.**

- G 1/2" threaded connection

Code	Measure	Pack	Outer	Cat.
3604.04.02	1/2"	1	1	60.01



Spare part for 3603 Series RBM instrument holder manifold



### Series 891

**Spare float unit for "Vasa" - "VasaTre" automatic air vent valves.**

Including:

- Cap complete with float;
- Lever;
- Rod;
- Protection cap;
- Plastic protection cap, with venting holes.

Code	Measure	Pack	Outer	Cat.
891.00.00	U	10	10	60.01

U = Universal



### Series 875.A

**Complete cap unit for thermostatically controlled valves.**

Code	Pack	Outer	Cat.
87.50.03*	1	1	60.01
3517.00.02**	1	1	60.01

\*Brass cap unit suitable for valve size 3/8" - 1/2" - 3/4"

\*\*Brass cap unit suitable for valve size 1"





### 761 series

**Complete cap unit for valves with thermostatic option with pre-adjustment.**

6 adjustment positions.  
Brass cap unit suitable for valve size 3/8" - 1/2" - 3/4" - 1"

Code	Pack	Outer	Cat.
761.30.13	1	1	60.01



### Series 426

**Nut and spherical fitting for iron and copper valves, with O-Ring.**

Code	Measure	Pack	Outer	Cat.
4260.13	3/8"	1	1	60.01
4290.13	1/2"	1	1	60.01



### Series 3518

**Kit with nut, spherical fitting and probe for series 3101 thermostatic single/double pipe valves.**

Kit inclusive of:

- Nut;
- Spherical fitting;
- Flat seat gasket;
- Probe guide;
- L110 mm standard length probe.

Code	Measure	Pack	Outer	Cat.
3518.04.02	1/2"	1	1	60.01
3518.05.02	3/4"	1	1	60.01
3518.06.02	1"	1	1	60.01
1011.10.05*	1" SX	1	1	60.01

\*Stem only



### Series 307

**Wrench for spherical fittings.**

Code	Measure	Description	Figure	Pack	Outer	Cat.
307.00.00	3/8" - 1/2"	-	1	5	5	60.01
307.00.10	-	Monoflux - Uniflux	2	1	1	60.01



### 1016 series

**New hand wheel for thermostatically controlled valve.**

Code	Measure	Pack	Outer	Cat.
1016.60.03	U	1	1	60.01

U = Universal





### Series 3097

Hand wheel for thermostatically controlled valve.

Code	Measure	Pack	Outer	Cat.
<b>309.70.03</b>	U	1	1	60.01

U = Universal



### Series 2587

Hand wheel for manual valve.

Hand wheel for manual valve, white version

Code	Measure	Pack	Outer	Cat.
<b>2587.003</b>	3/8" - 1/2"	1	1	60.01
<b>2587.093</b>	3/8" - 1/2"	1	1	60.01
<b>3310.13</b>	3/4"	1	1	60.01
<b>3320.13</b>	1"	1	1	60.01
<b>3330.13</b>	1"1/4	1	1	60.01

Hand wheel for manual valve, chrome-plated version

Code	Measure	Pack	Outer	Cat.
<b>2587.053</b>	3/8" - 1/2"	1	1	60.01
<b>2587.083</b>	3/8" - 1/2"	1	1	60.01

Hand wheel for manual Jet-line valve, white version

Code	Measure	Pack	Outer	Cat.
<b>3512.005</b>	3/8" - 1/2" Jet-line	1	1	60.01



### Series 2711

Cap for lockshield valve.

Cap for lockshield valve, white version

Code	Measure	Pack	Outer	Cat.
<b>2711.005</b>	3/8" - 1/2"	1	1	60.01
<b>2711.095</b>	3/8" - 1/2"	1	1	60.01
<b>3511.005</b>	3/4" - 1" - 1"1/4	1	1	60.01

Cap for lockshield valve, chrome-plated version

Code	Measure	Pack	Outer	Cat.
<b>2711.055</b>	3/8" - 1/2"	1	1	60.01
<b>2711.085</b>	3/8" - 1/2"	1	1	60.01

Cap for Jet-line lockshield valve, white version

Code	Measure	Pack	Outer	Cat.
<b>3511.005</b>	3/4" - 1" - 1"1/4	1	1	60.01



### Series 2440

Complete adjustment unit for "Mono-Zona" 433 series manifold zone valve

Code	Pack	Outer	Cat.
<b>244.00.13</b>	1	1	60.01



**Series 2343.B****Cap unit plus screw for zone valves.**

Code	Measure	Pack	Outer	Cat.
<b>234.30.03</b>	U	1	1	60.01

*U = Universal***Series 8780.A****1/2" screw unit to be adjusted with butterfly handwheel.**

For Domestic Monoblock D.S. manifold

Code	Measure	Figure	Pack	Outer	Cat.
<b>878.00.05</b>	1/2"	1	1	1	60.01

**Series 8780.B****1/2" screw unit with screwdriver adjustment.**

For Domestic Monoblock D.S. manifold

Code	Pack	Outer	Cat.
<b>878.00.15</b>	1	1	60.01

**Series 929****Complete plastic box for the Domestic Monoblock D.S. manifold**

Domestic Monoblock D.S. water system manifold box 5+3 branches

Code	Model	Pack	Outer	Cat.
<b>9290.00.03*</b>	CFF	1	1	60.01
<b>9290.00.13**</b>	CCF	1	1	60.01

*\* Part specific for manifold code 967.00.00**\*\* Part specific for manifold code 967.00.10*

Domestic Monoblock D.S. water system manifold box 6+4 branches

Code	Model	Pack	Outer	Cat.
<b>9290.00.53*</b>	CFF	1	1	60.01
<b>9290.00.63**</b>	CCF	1	1	60.01

*\* Part specific for manifold code 903.00.50**\*\* Part specific for manifold code 903.00.60***Series 2155****Screw for closing plastic box cover**

Code	L (mm)	Pack	Outer	Cat.
<b>215.50.35</b>	35	1	1	60.01
<b>215.50.05</b>	60	1	1	60.01





### Series 8167

**Complete cartridge for RinoxPlus M RinoxPlusSmart M diaphragm pressure reducing valve.**

Code	Measure	Pack	Outer	Cat.
<b>8167.003</b>	1/2" - 3/4"	1	1	60.01
<b>8201.003</b>	1"	1	1	60.01
<b>8202.003</b>	1"1/4	1	1	60.01
<b>8203.003</b>	1"1/2 - 2"	1	1	60.01



### Series 7367

**Filter for RinoxPlus M and RinoxPlusSmart M diaphragm pressure reducing valve.**

Code	Measure	Pack	Outer	Cat.
<b>7367.005</b>	1/2" - 3/4"	1	1	60.01
<b>7387.005</b>	1"	1	1	60.01
<b>7401.005</b>	1"1/4	1	1	60.01
<b>7403.005</b>	1"1/2 - 2"	1	1	60.01



### Series 8454

**Cartridge for automatic flow control valve.**

Manual cartridge.

Code	Colour	Flow rate (m <sup>3</sup> /h)	Pack	Outer	Cat.
<b>845.40.05</b>	B	0,100 - 0,412	1	1	60.01
<b>845.40.15</b>	G	0,157 - 0,609	1	1	60.01
<b>845.40.25</b>	RW	0,275 - 0,825	1	1	60.01
<b>845.40.55</b>	RG	0,406 - 1,270	1	1	60.01

*B = Black*

*G = Green*

*RW = Red - b. white*

*RG = Red - b. grey*



### Series 8455

**Cartridge for pressure independent control valve.**

Cartridge can be motorised.

Code	Colour	Flow rate (m <sup>3</sup> /h)	Pack	Outer	Cat.
<b>845.50.05</b>	G	0,057 - 0,575	1	1	60.01
<b>845.50.55</b>	B	0,064 - 1,110	1	1	60.01

*G = O.R. Grey*

*B = O.R. Black*





### Series 8852

**Cartridge for differential pressure control and regulating valve.**

Code	DP (kPa)	Flow rate (m <sup>3</sup> /h)	Pack	Outer	Cat.
885.20.25	20	0,050 - 0,960	1	1	60.01
885.20.35	30	0,050 - 1,419	1	1	60.01



### Series 3238

**Adaptor ring nut connection M28x1.5 / M30x1.5 to couple thermostatic head.**

Code	Pack	Outer	Cat.
3238.00.02	1	1	60.01



Spare part for Fixed Point (FR) DN25 booster module



### Series 590.B

**Thermostatic control for fixed point mixing units and zone modules.**

- Temperature adjustment range: 25-52 °C (Model TL50) / 40-70 °C (Model TL70S)

Code	Model	Pack	Outer	Cat.
590.00.50*	TL50	1	1	60.01
3218.00.12*	TL70 M	1	1	60.01
3218.00.02**	TL70 S	1	1	60.01

\*Connection M30x1.5

\*\*Connection M28x1.5



Spare part for Fixed Point (FR) DN25 booster module  
Specific accessory for Micromega MIX series 3240.





### Series 3244

**Safety thermostat.**

Code	Pack	Outer	Cat.
<b>3244.00.02</b>	1	1	60.01



Spare part for Fixed Point (FR) DN25 booster module



### Series 8519

**Cartridge for MG1 magnetic sludge remover filter.**

#### Cartridge for MG1 magnetic sludge remover filter (800 µm)

Code	Measure	Pack	Outer	Cat.
<b>851.90.15</b>	3/4"	1	1	60.01

#### Cartridge for MG1 magnetic sludge remover filter (400 µm)

Code	Measure	Pack	Outer	Cat.
<b>851.90.35</b>	3/4"	1	1	60.01



Spare part for MG1 magnetic sludge remover filter Series 3070.







## Series 1041

Cartridge for line filter.

### Cartridge for line filter (800 µm)

Code	Measure	Pack	Outer	Cat.
1041.005	3/8" - 1/2"	1	1	60.01
9290.05	3/4"	1	1	60.01
9590.05	1"	1	1	60.01
9300.05	1"1/4	1	1	60.01
9310.05	1"1/2 - 2"	1	1	60.01
1156.003	2"1/2 - 3" - 4"	1	1	60.01

### Cartridge for line filter (300 µm)

Code	Measure	Pack	Outer	Cat.
1041.015	3/8" - 1/2"	1	1	60.01
9290.15	3/4"	1	1	60.01
9590.15	1"	1	1	60.01
9300.15	1"1/4	1	1	60.01
9310.15	1"1/2 - 2"	1	1	60.01
1156.013	2"1/2 - 3" - 4"	1	1	60.01

### Cartridge for line filter (100 µm)

Code	Measure	Pack	Outer	Cat.
1041.055	3/8" - 1/2"	1	1	60.01
9290.55	3/4"	1	1	60.01
9590.55	1"	1	1	60.01
9300.55	1"1/4	1	1	60.01
9310.55	1"1/2 - 2"	1	1	60.01

### Cartridge for line filter (50 µm)

Code	Measure	Pack	Outer	Cat.
1041.025	3/8" - 1/2"	1	1	60.01
9290.25	3/4"	1	1	60.01
9590.25	1"	1	1	60.01
9300.25	1"1/4	1	1	60.01
9310.25	1"1/2 - 2"	1	1	60.01
1156.023	2"1/2 - 3" - 4"	1	1	60.01



Spare part for line filters Series 3 - 4.





## Series 6065

Cartridge for Y-shaped filter.

### Cartridge for Y-shaped filter (800 µm)

Code	Measure	Pack	Outer	Cat.
606.50.05	1/2"	1	1	60.01
606.20.05	3/4"	1	1	60.01
605.90.05	1"	1	1	60.01
606.80.05	1"1/4	1	1	60.01
607.10.05	1"1/2	1	1	60.01
607.40.05	2"	1	1	60.01

### Cartridge for Y-shaped filter (300 µm)

Code	Measure	Pack	Outer	Cat.
606.50.15	1/2"	1	1	60.01
606.20.15	3/4"	1	1	60.01
605.90.15	1"	1	1	60.01
606.80.15	1"1/4	1	1	60.01
607.10.15	1"1/2	1	1	60.01
607.40.15	2"	1	1	60.01

### Cartridge for Y-shaped filter (100 µm)

Code	Measure	Pack	Outer	Cat.
606.50.55	1/2"	1	1	60.01
606.20.55	3/4"	1	1	60.01
605.90.55	1"	1	1	60.01
606.80.55	1"1/4	1	1	60.01
607.10.55	1"1/2	1	1	60.01
607.40.55	2"	1	1	60.01



Spare part for Y-shaped filter Series 858.





## Series 1171

Self-cleaning filter cartridge.

### Cartridge for self-cleaning filter (800 µm)

Code	Measure	Pack	Outer	Cat.
1171.003	3/8" - 1/2"	1	1	60.01
1172.003	3/4"	1	1	60.01
1173.003	1"	1	1	60.01
1200.003	1"1/4	1	1	60.01
1201.003	1"1/2 - 2"	1	1	60.01
1215.003	2"1/2 - 3" - 4"	1	1	60.01

### Self-cleaning filter cartridge (300 µm)

Code	Measure	Pack	Outer	Cat.
1171.013	3/8" - 1/2"	1	1	60.01
1172.013	3/4"	1	1	60.01
1173.013	1"	1	1	60.01
1200.013	1"1/4	1	1	60.01
1201.013	1"1/2 - 2"	1	1	60.01
1215.013	2"1/2 - 3" - 4"	1	1	60.01

### Self-cleaning filter cartridge (100 µm)

Code	Measure	Pack	Outer	Cat.
1171.023	3/8" - 1/2"	1	1	60.01
1172.023	3/4"	1	1	60.01
1173.023	1"	1	1	60.01
1200.023	1"1/4	1	1	60.01
1201.023	1"1/2 - 2"	1	1	60.01
1215.023	2"1/2 - 3" - 4"	1	1	60.01



Spare part for self-cleaning filter Series 126.



## Series 3696

Metal cover and frame for unit boxes  
Kilma-Evo, Kilma-Econblock, Kilma-  
Basic2 and Kilma-Easy2.

???

Code	LxH (mm)	Pack	Outer	Cat.
3696.80.52	800 x 580	1	1	60.01
3696.10.52	1000 x 580	1	1	60.01
3696.12.52	1200 x 580	1	1	60.01



Spare part for box series 9241





### Series 2606.B

Plastic cover for BOX1 boxes.

Code	LxH (mm)	Pack	Outer	Cat.
2606.40.00	400 x 500	1	1	60.01
2606.60.00	600 x 500	1	1	60.01
2606.80.00	800 x 500	1	1	60.01
2606.10.00	1000 x 500	1	1	60.01



Use 5 plastic screws series 2155 to fasten cover (see page 343)



### Series 2261

Plastic cover for Quickbox boxes.

Code	LxH (mm)	Pack	Outer	Cat.
2261.55.02	550 x 450	1	1	60.01
2261.70.02	700 x 450	1	1	60.01
2261.85.02	850 x 450	1	1	60.01



Use 6 plastic screws series 2155 to fasten cover.



### Series 4566

Mixing unit with by-pass.

For Kilma-Evo-RF and Kilma-Evo-RM control units.

Code	Pack	Outer	Cat.
456.60.03	1	1	60.01



### Series 875.B

Cap group and rod/ring nut group.

For mixing unit code 4566.003

#### Cap group

Code	Pack	Outer	Cat.
87.50.33	1	1	60.01

#### Rod/ring nut group

Code	Pack	Outer	Cat.
462.20.03	1	1	60.01



Cap group





### Series 8041

#### Modulating actuator.

- For Kilma-Evo-RM control unit.
- 24V AC 0-10V power supply

Code	Pack	Outer	Cat.
804.10.05	1	1	60.01



To be matched with mixing unit code 4566.003



### Series 373.B

#### Modulating actuator.

- For Kilma-Evo-RM control unit.
- 230V AC power supply
  - 4W consumption
  - Frequency 50Hz
  - Electric protection IP42
  - Operating temperature -5 ÷ +60 °C
  - Triggering time 240 seconds

Certifications:



Code	Pack	Outer	Cat.
373.00.20	1	1	60.01



### Series 3612

#### Digital electronic temperature controller with climatic compensation function.

For Kilma-Evo-RM - Kilma Basic2 control unit.

Certifications:



Code	Model	Pack	Outer	Cat.
3612.00.02	Kilma EVO2 HC	1	1	60.01



### Series 2001

#### Fixed-point electrical unit.

Electric control unit for electrical power supply of the thermostat, the pump and the safety thermostat; contact without power supply (potential-free contact).

Including housing box, pump connection cable and safety thermostat connection.

Certifications:



Code	Model	Pack	Outer	Cat.
2001.00.00*	Without Microprocessor	1	1	60.01
2001.00.60**	With Microprocessor	1	1	60.01

\* Suitable for polymer Econblock RF control units.  
Suitable for RF copper control units and sub-control units.





### Series 577

#### Fixed-point electrical board.

Electrical circuit for the thermostat, pump, safety thermostat power supply connection; free-voltage contact (potential-free contact).

Certifications:



Code	Model	Pack	Outer	Cat.
577.00.02*	Without Microprocessor	1	1	60.01
577.00.12**	With Microprocessor	1	1	60.01

\* Suitable for polymer Econblock RF control units.

\*\* Suitable for RF copper control units and sub-control units.



### Series 4021.B

#### Safety thermostat and connector for safety thermostat connection.

Well insertion.  
Bimetallic type.

- Tripping temperature 55 °C

Code	Model	Pack	Outer	Cat.
402.10.15*	Thermostat	1	1	60.01
480.00.02**	Thermostat	1	1	60.01
265.90.05	Connector	1	1	60.01

\* Suitable for polymer Econblock RF control units.

\*\* Suitable for RM/RF copper control units and sub-control units.



### Series 3404.B

#### 1/2" probe holder well with copper conduit.

For Kilma-Evo-RM control unit.

Code	Pack	Outer	Cat.
340.40.05	1	1	60.01



### Series 2448

#### 1/2" probe holder well with copper conduit for TL50 thermostatic head.

For Kilma-Evo/Econblock RF control unit.

Code	Pack	Outer	Cat.
244.80.23	1	1	60.01



### Series 303

#### Two dial thermometers complete with thermowell.

- Thermometers scale 0 ÷ 80 °C
- G1/2" connection (UNI-EN-ISO 228)

Code	Measure	Pack	Outer	Cat.
303.04.00	Ø 40	1	1	60.01





### Series 875.C

**Complete cap unit for valves with thermostatic option and compact brass and polymer manifolds.**



Complete cap unit for thermostatically controlled valves

Code	Pack	Outer	Cat.
<b>87.50.23</b>	1	1	60.01

Can be used for a 1-way manifold.

Cap group

Code	Pack	Outer	Cat.
<b>87.50.73</b>	1	1	60.01

Can be used for 2,3,4 and 5-way manifolds.

Rod/ring nut group

Code	Pack	Outer	Cat.
<b>911.90.03</b>	1	1	60.01

Can be used for 2,3,4 and 5-way manifolds.



### Series 2250

**Flow meter with lockshield valve function and flow rate indicator.**

- Temperature range 0 - 80 °C
- Max operating pressure 10 Bar

Code	Adjustment (l/min)	Pack	Outer	Cat.
<b>2250.00.02</b>	1 ÷ 2	10	10	60.01
<b>2250.00.12*</b>	1 ÷ 4	10	10	60.01
<b>2250.00.22</b>	0 ÷ 2,5	10	10	60.01

\*Flow meter provided with pre-assembled kits



### Series 1528

**Pair of polymer brackets for offset fixing of polymer manifolds, complete with collar series 1410.**

- Centre distance 220 mm

Code	Pack	Outer	Cat.
<b>1528.06.00</b>	1	1	60.01



For pipes to be assembled with no overlaps. Suitable with housing boxes series 2606. Standard in polymer compact manifolds 1410 series.



### Series 1000

**Pair of polymer brackets for aligned fixing of polymer anti-condensation 1002 series manifolds, complete with collar.**

- Centre distance 220 mm

Code	Pack	Outer	Cat.
<b>1000.06.00</b>	1	1	60.01



Suitable with housing boxes series 2606. Standard in polymer compact manifolds 1002 series.





### Series 792

**Pair of polymer brackets for offset fixing of polymer manifolds, complete with compact brass collar series 2028.**

- Centre distance 220 mm

Code	Pack	Outer	Cat.
792.06.00	1	1	60.01



For pipes to be assembled with no overlaps.  
Suitable with housing boxes series 2606.  
Standard in brass compact polymer manifolds 2028 series.



### Series 810

**Pair of polymer brackets for aligned fixing of polymer manifolds, complete with collar series.**

- Centre distance 220 mm

Code	Pack	Outer	Cat.
810.06.00	1	1	60.01



Brackets used to assemble Kilma control units.  
Brass manifolds aligned fixing.



### Series 8629

**Thermometer with collar for brackets for 1410 - 2028 and 608 series manifold kits.**

- Thermometer scale 0 ÷ 80°C

Code	Pack	Outer	Cat.
862.90.05	1	1	60.01



### Series 829.A

**Multi-way compact manifold complete with valves with thermostatic option and hand wheel.**

- Temperature range 0 - 100°C
- Max operating pressure 10 Bar

Code	Measure	Ways	Pack	Outer	Cat.
829.26.30	1"	2	1	1	60.01
829.06.30	1"	3	1	1	60.01
830.06.30	1"	4	1	1	60.01
831.06.30	1"	5	1	1	60.01
832.06.30	1"	6	1	1	60.01
834.06.30	1"	8	1	1	60.01
835.06.30	1"	9	1	1	60.01
836.06.30	1"	10	1	1	60.01
837.06.30	1"	11	1	1	60.01
837.12.30	1"	12	1	1	60.01
837.13.30	1"	13	1	1	60.01

Centre distance connections through 50mm distribution -EUROCONUS G3/4"  
UNI-EN-ISO 228 threading







### Series 829.B

**Multi-way compact manifold, complete with micrometric lockshield regulating valves with graduated hand wheel.**

- Temperature range 0 - 100 °C
- Max operating pressure 10 Bar

Code	Measure	Ways	Pack	Outer	Cat.
<b>829.26.10</b>	1"	2	1	1	60.01
<b>829.06.10</b>	1"	3	1	1	60.01
<b>830.06.10</b>	1"	4	1	1	60.01
<b>831.06.10</b>	1"	5	1	1	60.01
<b>832.06.10</b>	1"	6	1	1	60.01
<b>833.06.10</b>	1"	7	1	1	60.01
<b>834.06.10</b>	1"	8	1	1	60.01
<b>835.06.10</b>	1"	9	1	1	60.01
<b>836.06.10</b>	1"	10	1	1	60.01
<b>837.06.10</b>	1"	11	1	1	60.01
<b>837.12.10</b>	1"	12	1	1	60.01
<b>837.13.10</b>	1"	13	1	1	60.01

Centre distance connections through 50mm distribution -EUROCONUS G3/4"  
UNI-EN-ISO 228 threading



### Series 829.C

**Compact manifold, multi-way, complete with flow meters, with lockshield valve and flow indicator function.**

- Temperature range 0 - 80 °C
- Max operating pressure 10 Bar

Code	Measure	Ways	Pack	Outer	Cat.
<b>829.26.00</b>	1"	2	1	1	60.01
<b>829.06.00</b>	1"	3	1	1	60.01
<b>830.06.00</b>	1"	4	1	1	60.01
<b>831.06.00</b>	1"	5	1	1	60.01
<b>832.06.00</b>	1"	6	1	1	60.01
<b>833.06.00</b>	1"	7	1	1	60.01
<b>834.06.00</b>	1"	8	1	1	60.01
<b>835.06.00</b>	1"	9	1	1	60.01
<b>836.06.00</b>	1"	10	1	1	60.01
<b>837.06.00</b>	1"	11	1	1	60.01
<b>837.12.00</b>	1"	12	1	1	60.01
<b>837.13.00</b>	1"	13	1	1	60.01

Centre distance connections through 50mm distribution -EUROCONUS G3/4"  
UNI-EN-ISO 228 threading



### Series 67.E

**Ball valve kit for full bore manifolds.**

Knob operated complete with immersion thermometer with removable rear bulb, MF connections, with OR seal fitting. Suitable for water, water+glycol.

- Operating temperature with water -20 - +120 °C
- Thermometer scale 0 - +80 °C

Certifications:



Code	Measure	Pack	Outer	Cat.
<b>67.06.30</b>	1"	1	1	60.01



Fitting with OR seal connection.





### Series 450.B

#### Air and water manual discharge terminal unit.

Brass and polymer manifolds kits standard installation.

- Pressure gauge holder connection G 1/8" (for RBM Ø 40 radial pressure gauge - scale 0 - 16 bar - Code 7469.005)

Code	Measure	Pack	Outer	Cat.
450.06.50	1"	1	1	60.01



### Series 449

#### Air and water manual discharge terminal.

Standard installation on delivery line of brass and polymer manifold kits.

- Pressure gauge holder connection G 1/8" (for RBM Ø 40 radial pressure gauge - scale 0 - 16 bar - Code 7469.005)

Code	Measure	Pack	Outer	Cat.
449.06.50	1"	1	1	60.01



### Series 221

#### Ball discharge cock, with hose connection and rotating cap.

- Threaded connection M UNI-EN-ISO 228

Code	Measure	Pack	Outer	Cat.
221.04.00	1/2"	10	10	60.01





# General Terms of sale

## Scope

These sales terms apply to all the products shown in the price list sold by R.B.M. spa or by other companies of the R.B.M. Group (hereafter "R.B.M."). Should these terms and conditions not be consistent with the terms and conditions agreed in individual sales contracts concluded between R.B.M. and its customers, the latter will prevail. R.B.M. will not be bound by the customer's general purchase terms (hereafter "CGA") regardless of them being mentioned or included in the orders or in any other documentation coming from the customer, unless expressly accepted in writing by R.B.M. R.B.M. reserves the right to add, change or eliminate any of the provisions included in these sales terms and these additions, changes or cancellations will apply to all orders made by the customer, starting from the day following the date when the relevant notification concerning the new sales terms was made to him.

## Orders

All orders are considered as bookings and do not result in a commitment for R.B.M. to deliver the goods ordered either partially or totally.

## Prices

Unless agreed otherwise, the prices valid on the date of the order will apply. The prices refer to goods supplied ex works in Nave Incoterms 2020. Packaging costs are at the purchaser's expense.

## Deliveries

Usual conditions: prompt delivery, if in stock. Special terms: to be defined from time to time. The seller is not liable to pay compensation for direct damage resulting from delayed deliveries.

## Transport

Goods always travel at the purchaser's risk even when they are delivered carriage free to their destination according to special agreements.

## Payments

Unless agreed otherwise, payments are considered as settled on the date of receipt of the invoice. Payments are due within the deadlines agreed, even when the goods arrive late and in the case of malfunctioning, partial and total loss during transport and when the purchaser does not collect the goods for which collection on his side has been agreed. In the case of non-payment, 10 days after the submittal of the invoice or after the deadline established, the seller will be entitled to issue a sight draft and to debit the relevant costs. Furthermore, after the deadline established has been exceeded, interest will be calculated at the rate established in Decree Law 231/2002.

## Tolerances

Wear tolerances both on finished products and on their individual elements they consist of, are admitted.

## Suspension of orders

45 days after the delivery date established has been exceeded the purchaser will be entitled to request the cancellation of the order. The relevant notification must be made by registered letter and no rights will arise from the cancellation. If the seller establishes that the purchaser has difficulties settling payments, he/she will be entitled to suspend or delay further deliveries after the agreed payment deadlines.

## Returns

Returns will be accepted only with our prior authorization and must be only DAP (Nave) Incoterms 2020.

## Complaints and Claims

Complaints concerning the quantity or quality of the goods supplied must be notified by the purchaser to the seller within 8 days after receiving the goods.

## Modifications

R.B.M. reserves the right to make all the changes it may deem necessary to the Products without prior notice.

## Applicable law and Jurisdiction

The sales terms and each individual sales contract will be regulated and interpreted according to Italian Law, unless otherwise agreed in writing between R.B.M. and the Customer. All disputes resulting from or connected with, these sale terms and/or individual sales contracts are subject to the exclusive jurisdiction of the Court of Brescia. However, R.B.M. reserves the right to start legal action also as plaintiff in the customer's country, either in Italy or abroad.

## Code of Ethics

The customer declares that they have viewed and carefully read the RBM Code of Ethics, available on the website [[https://rbm.eu/storage/app/media/documenti/RBM\\_Codice\\_Etico\\_IT\\_ott2023.pdf](https://rbm.eu/storage/app/media/documenti/RBM_Codice_Etico_IT_ott2023.pdf)] and undertake to comply with its contents.

## R.B.M. spa

# Quality certificate

**At R.B.M. raw materials undergo rigorous checks. We guarantee a careful product selection and use cutting-edge manufacturing techniques.**

**Manufacturer's liability for damage from defective products.**

## **DURATION**

R.B.M. is liable for the system for 10 years from its sale within the limits and conditions as per art. 114 and ss. Legislative Decree 06.09.2005 n. 206 . The replacement or repair of the Product or of one of its components does not extend the duration, which remains unchanged.

## **THE SERVICE PROVIDED BY R.B.M.**

The service covers the damages that R.B.M. is required to pay for compensation as civilly liable by law for material damage and/or bodily harm accidentally caused to third parties due to a defect of the products, after their delivery to third parties and thereby benefiting from third-party liability insurance on products with ceiling of €10m for each accident and for year. Expenses for product replacements and repairs, costs for inquiries by anyone not authorised beforehand by RBM, property damage deriving from non-compliance of the product with its intended use, damage caused by the infringement of patents and/or trademarks, and penalties are excluded.

## **LIABILITY OPERABILITY AND EFFECT**

An essential condition is to ensure that the installation of the product has been carried out according to the provisions for the design, installation and operation of the system, which must be installed by a specialised heating and plumbing installer. Furthermore, the product must be installed in accordance with applicable laws and the highest professional standards and the installer must provide a system certification. Finally, the instructions and warnings for the use and maintenance of the system must be complied with.

## **EXCLUSIONS**

R.B.M. shall not be liable in case of damage or malfunctions that are due, among other reasons, to facts and faults not attributable to the manufacturer and in any case to the following causes:

- use of non-original parts and/or products and/or components and accessories or not recommended by R.B.M.;
- failure to comply with rules, regulations, use;
- installation defects or failure to take the necessary precautions to ensure execution to a professional standard;

- maintenance defects, negligence and careless use;
- failure to comply with the instructions and warnings provided by R.B.M. and/or by the installer;
- tampering, maintenance in general, work by unauthorised personnel;
- anomalous use, use of aggressive liquids or otherwise unsuitable for correct storage and use;
- damage caused by incorrect or avoidable work in the attempt to remedy the defect;
- anomalies or malfunction of non-R.B.M components;
- corrosion, encrustations or failures caused by stray currents, condensation, aggressive or acid water, descaling treatments carried out incorrectly, lack of water, sludge deposits or limescale;
- accidents, force majeure such as frost, overheating, fires, natural events (hail, tornadoes, lightning, floods, earthquakes), etc.;
- hydraulic and/or electrical systems that do not comply with current standards.

Technical work to eliminate the above defects and resulting damage must be agreed with R.B.M., which reserves the right to accept or refuse the assignment. In any case, it must be specifically agreed upon and according to the workers or best rates or quotes for the work to be carried out.

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