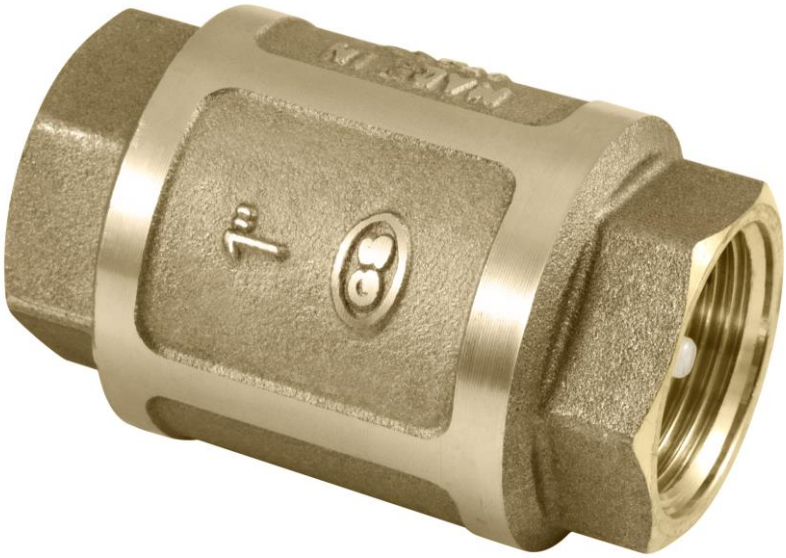
RBM	**GS CHECK VALVE**	CT3085.0_01 EN October 2018



PRODUCTION RANGE

Code	PN [bar]	Size
3085 38I	16	3/8”
3085 12I		1/2"
3085 34I		3/4"
3085 10I		1”
3085 04I		1”1/4
3085 02I		1”1/2
3085 20I		2”
3082 22	6	2”1/2
3082 30		3”
3082 40		4”

DESCRIPTION

Non-controllable check valve suitable for any type of system (industrial, pneumatic, hydraulic and residential). It can be mounted in a horizontal, vertical and oblique position.

The internal sealing device has been designed in order to withstand any overpressure of the circuit and always ensure maximum valve efficiency.

THE PURPOSE:

The non-controllable check valve can be considered as a safety device to be inserted inside a circuit.

Its purpose is to enable the circulation of fluid inside the circuit solely in the direction imposed by the check valve and to prevent the fluid from flowing in the opposite direction with respect to that imposed by the valve.

USE:

The non-controllable check valve can be used in industrial and residential systems and can be mounted in a horizontal, vertical and oblique position.

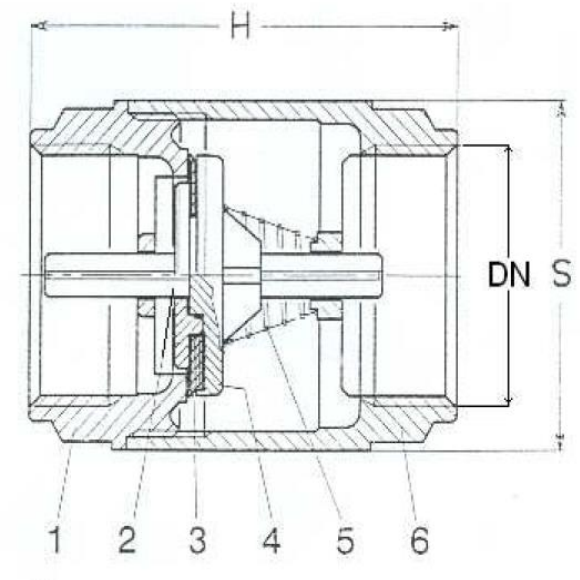
When mounting, **it is important to observe the direction shown by the arrow on the check valve body**.

In the event of circuit overpressure, the sealing system shutter rests directly on the stop in the check valve body, ensuring perfect closure of the valve.

TECHNICAL FEATURES

P_{max} operating pressure	refer to what is indicated in the table
T_{max} operating temperature	0° ÷ 80 °C

DIMENSIONAL / CONSTRUCTION FEATURES



Code	Size (G)	DN [mm]	H [mm]	S [mm]
3085 38I	3/8”	10	62	33
3085 12I	1/2"	15	62	34
3085 34I	3/4"	20	67	44
3085 10I	1”	25	82	53
3085 04I	1”1/4	32	87	65
3085 02I	1”1/2	40	94.5	73.5
3085 20I	2”	50	100	90.5
3082 22	2”1/2	65	91	101
3082 30	3”	80	105	110
3082 40	4”	100	118	154

Ref.	Component	Material
1	Sleeve	Brass CW617
2	Shutter	PA6 natural polymer
3	Gasket	NBR
4	Shutter	PA6 natural polymer
5	Spring	AISI 302 stainless steel
6	Body	Brass CW617

ACCESSORIES

THREADED FLANGE PN 16

- Nickel-plated brass body;
- UNI-EN-ISO 228/I M threaded connection;
- Flange connection suitable for coupling with counter-flange UNI EN 1092-1
- P_{max} max. operating pressure: 16 bar;
- Max. temperature: 150 °C;

Code	Size	DN
120.09.00	2”	DN50
120.10.00	2”1/2	DN65
120.11.00	3”	DN80
120.13.00	4”	DN100

FILTER WITH THREADED FITTING

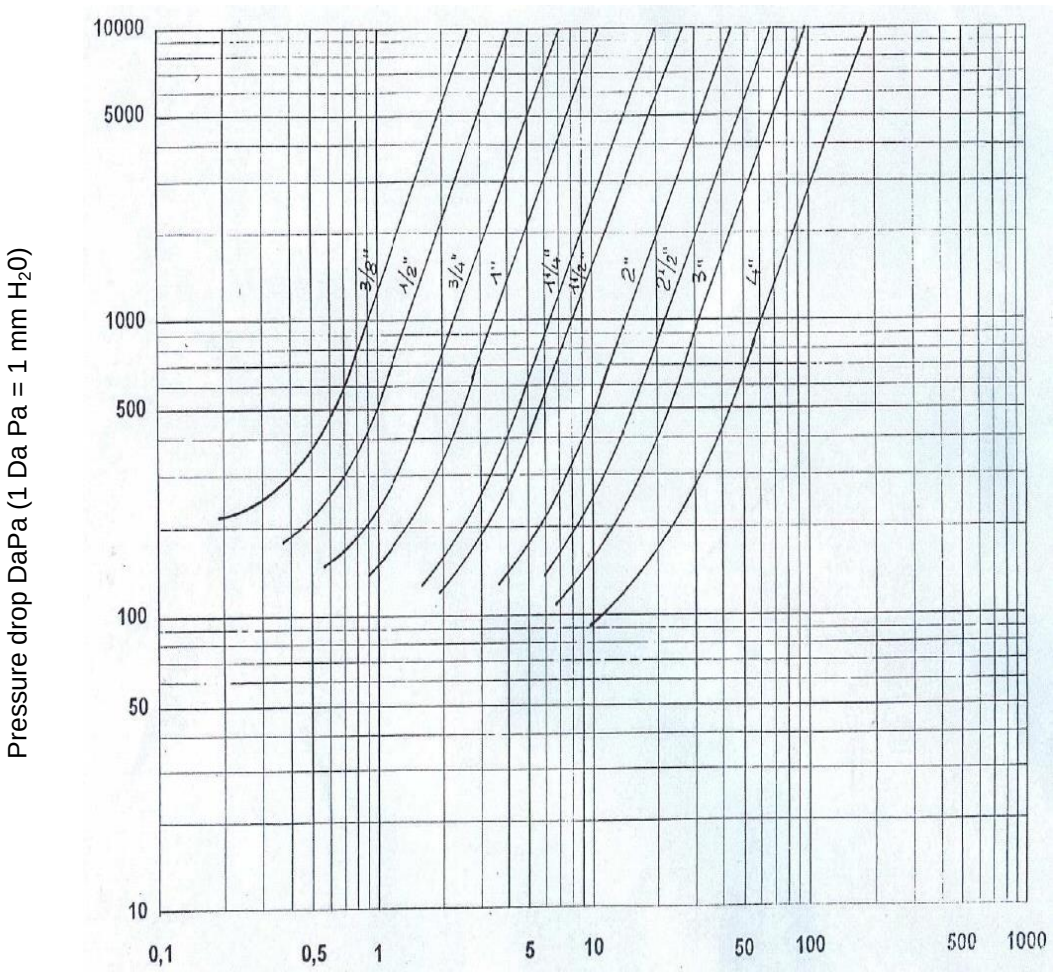
Coupled with the check valves it forms a valid protection for the pumps.

- AISI 304L stainless steel filter
- Nylon 6.6 threaded fitting
- Max operating temperature: 90 °C

Code	Size
3086 38I	3/8”
3086 12I	1/2”
3086 34I	3/4”
3086 10I	1”
3086 04I	1”1/4
3086 02I	1”1/2
3086 20I	2”
3086 22	2”1/2
3086 30	3”
3086 40	4”

FLUID DYNAMICS FEATURES

Pressure drop diagram



VALVE INSTALLATION

a) We recommend installing the valve using suitable tools only;
b) We recommend installing and tightening the valve using only the sleeve that is in contact with the pipe thread.

SAFETY REGULATIONS AND FIELD OF APPLICATION

a) Before every installation, check the maximum pressure limit stated on the valve body, referring to the operating temperature at 20 °C. Example: PN 16, max. pressure 16 bar for water;

b) The fluid passing through the valve must not contain suspended solids, soiling and/or abrasive substances, that are not compatible with copper and alloys;

c) No maintenance is required on the valve;

d) With the use of water and/or liquids in general, the operating temperature must not drop below their freezing point.

SPECIFICATIONS

3085 SERIES
Check valve, FF connections. Suitable for water. Brass body. NBR OR gasket. Shutter made of PA6 natural polymer. Stainless steel spring. Threaded connections FF UNI-EN-ISO 228. Maximum operating pressure 16 bar (for sizes 3/8" ÷ 2") / Maximum operating pressure 6 bar (for sizes 2"1/2 ÷ 4"). Operating temperature with water 0 ÷ +80 °C. Available sizes 3/8" ÷ 4".

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