



Data sheet 7Y00.R7

Universal check valve F/F with acetal copolymer (POM) shutter

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7Y00.R7**Universal check valve F/F with
acetal copolymer (POM) shutter**

DESCRIPTION

7Y00.R7 is an universal check valve F/F with acetal copolymer (POM) shutter.

Universal check valves are unidirectional operating devices that allow to avoid the return of the fluid under pressure. They are used in plants with sanitary water, water raising, heating, in the thermal power stations, in heat generators (wall boilers, heat pumps...), and others.

The internal hydraulic seal is carried out by means of the forces exerted by a spring and the liquid pressure over a gasket which also implements the seal at minimum back pressures.

In addition to this, the strength of the spring allows the valve to have universal characteristic with regard to installation position.

PERFORMANCE

Working temperature (occasional)	- 20°C ; + 110 °C
Working temperature (no freeze)	0 °C ; + 95 °C
Opening pressure	0.02 bar
Max. working pressure	16 bar (G 1/2-G1) 10 bar (G 1 1/4-G2)
Compatible fluids	thermal water, glycol solutions (max 30%), sanitary water.
Tests and inspections	EN12166-1 §A.3.

COMPONENTS AND MATERIALS

COMPONENTS	MATERIALS
Body	CW617N EN 12165
Gaskets	ELASTOMER
Spring	STAINLESS STEEL AISI 302
Cut off valve	POM

REGULATIONS

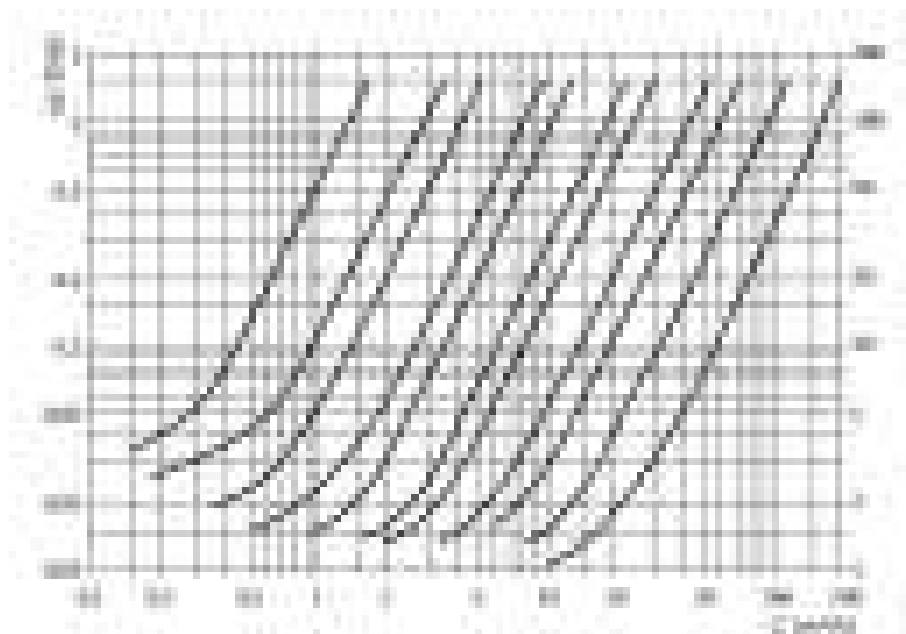
- UN EN ISO 228-1

Threads complies with UNI EN ISO 228-1:2003 law: "Piping thread for coupling not with tightness on the thread"

- D.M. 174 (06/04/2004)

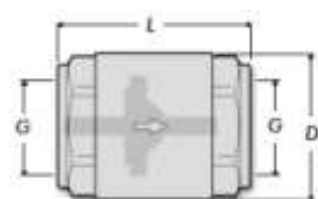
Raw materials used are of high quality and comply with the Ministerial Decree N°174 dated 06/04/2004 concerning the materials and the items used in fixed installations for water collection, treatment and supply.

CHART



SIZE	G [m³/h] con Dp=1 bar	G [m³/h] con Dp=1,5 bar
G 1/2	4	5.2
G 3/4	8	9.6
G 1	10.3	12
G 1 1/4	18	22.5
G 1 1/2	24	30
G 2	40	52

DIMENSIONS



CODE	P (bar)	G	D	L	Weight (g)
7Y00R7H040400H	16	G 1/2	30	48	102

CODE	P (bar)	G	D	L	Weight (g)
7Y00R7H050500H	16	G 3/4	37	53	155
7Y00R7H101000H	16	G 1	44	59	225
7Y00R7H121200H	10	G 1 1/4	56	66	350
7Y00R7H141400H	10	G 1 1/2	63	71	470
7Y00R7H202000H	10	G 2	78	80	710

ASSEMBLY INSTRUCTIONS

The universal check valves can be installed in any position respecting the direction flow indicated by the arrow on the valve body.

The assembly on the pipes is done through threads, using normal hydraulic practices.

We recommend installing the check valve by combining it with an upstream shut-off valve, easily accessible. Before installation, it is recommended to flush the pipe to remove residues.

MAINTENANCE

Check the valve periodically, according to the frequency of use and the working conditions:

- 1) at each pressure drop in the upstream water supply network or flow stop, check the closure of the valve to prevent backflow upstream;
- 2) if there are leaks at the seal, these can be caused by deposits or foreign bodies. In this case it is necessary to disassemble the valve from the system and clean carefully the gasket removing with compressed air or mechanical action all the impurities. If necessary, replace the valve.



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