



EUROPA[®] CHECK AND FOOT VALVES

105 EUROPA[®] foot valve

Suitable for domestic water services, heating, air-conditioning plants and compressed air.
They can be installed in any position: vertical, horizontal, oblique.



SIZE	PRESSURE	CODE	PACKING
3/8" (DN 10)	25bar/362.5psi	1050038	8/120
1/2" (DN 15)	25bar/362.5psi	1050012	8/120
3/4" (DN 20)	25bar/362.5psi	1050034	6/90
1" (DN 25)	25bar/362.5psi	1050100	4/60
1"1/4 (DN 32)	18bar/261psi	1050114	4/32
1"1/2 (DN 40)	18bar/261psi	1050112	2/26
2" (DN 50)	18bar/261psi	1050200	2/14
2"1/2 (DN 65)	12bar/174psi	1050212	1/6
3" (DN 80)	12bar/174psi	1050300	1/5
4" (DN 100)	12bar/174psi	1050400	1/3

CERTIFICATIONS



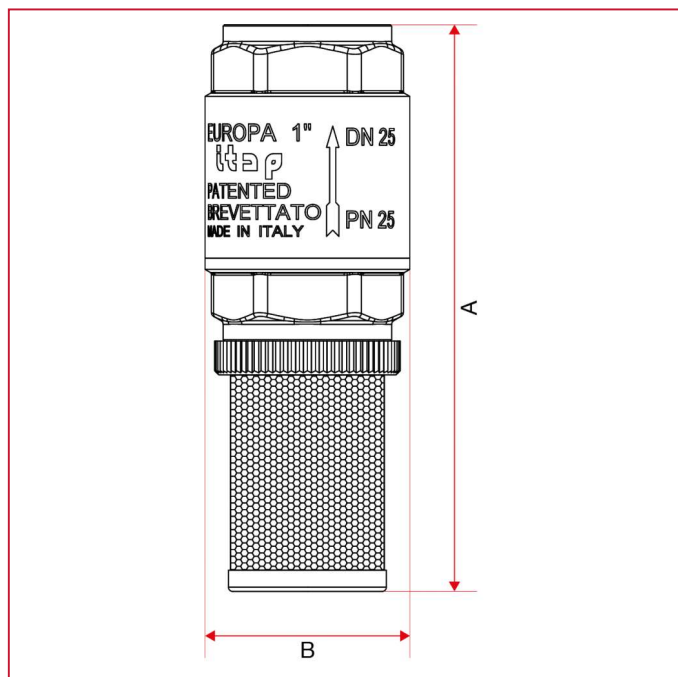
TECHNICAL SPECIFICATIONS

Body in brass.
Plate in stainless steel.
Washer in NBR.
Spring: stainless steel.
Strainer in polymer and stainless steel.
Filtration degree: 3/8" through 2": 1200µm; 2"1/2 through 4": 2000µm
Minimum and maximum working temperatures: -20°C, 100°C.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).
Available also with NPT thread in the sizes 2"1/2, 3" and 4".



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OVERALL DIMENSIONS



	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
DN	10	15	20	25	32	40	50	65	80	100
A	90,5	98,5	115,5	134,5	148,5	165	188,5	230	264,5	297
B	34,5	34,5	41,5	48	60,5	71	87	120	140	172
Kg/cm ² bar	25	25	25	25	18	18	18	12	12	12
LBS - psi	362,5	362,5	362,5	362,5	261	261	261	174	174	174



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INSTALLATION

The EUROPA[®] check valves are uni-directional; that means they manage the flow in one direction only, which is indicated by the arrow on the body.

The valves are composed by a spring, a little valve and a couple of parts made of brass (body and end-adapter) which contain them and that are assembled but means of thread and a sealed material to obtain their aim.

In order to avoid that the sealed material gets broken and then the valve loses the connection between the body and the end-adapter, it's necessary to avoid to submit the two parts under the influence of a torque.

For the installation normal hydraulic practices must be used, and especially:

- for a proper installation of the valve, near curves and circulation pumps, the valve must be mounted at a distance equal to 10 times the diameter of the pipe.
- ones have to be sure that the two pipes are correctly aligned;
- during the assembling process the installer has to apply its assembling tools at the end that is nearest to the pipe;
- the application of the sealing materials by the fitter (PTFE or hempen cloth) must be limited at the thread zone. An excess should interfere in the ball gasket's closure zone, compromising the tightness;
- in case the fluid transported has got some impurities (dust, too hard water, and so on) it's necessary to remove impurities by or filter them, otherwise they could damage the seal.

DISASSEMBLY

To remove the valve from the pipe line or anyhow before to unscrew the junctions linked to it:

- wear the protective clothing normally required to work with carried fluids;
- Depressurize the line;
- During the disassembling process, apply the key at the end of the valve, the one nearest the pipe.

MAINTENANCE

Verify the valves periodically, in function of their application's field and in function of their work conditions, to be sure that the valves work correctly.

In case of losses of tightening, take note that these can be caused by a deposit of foreign bodies (dirty, calcareous) on the rubber seal.

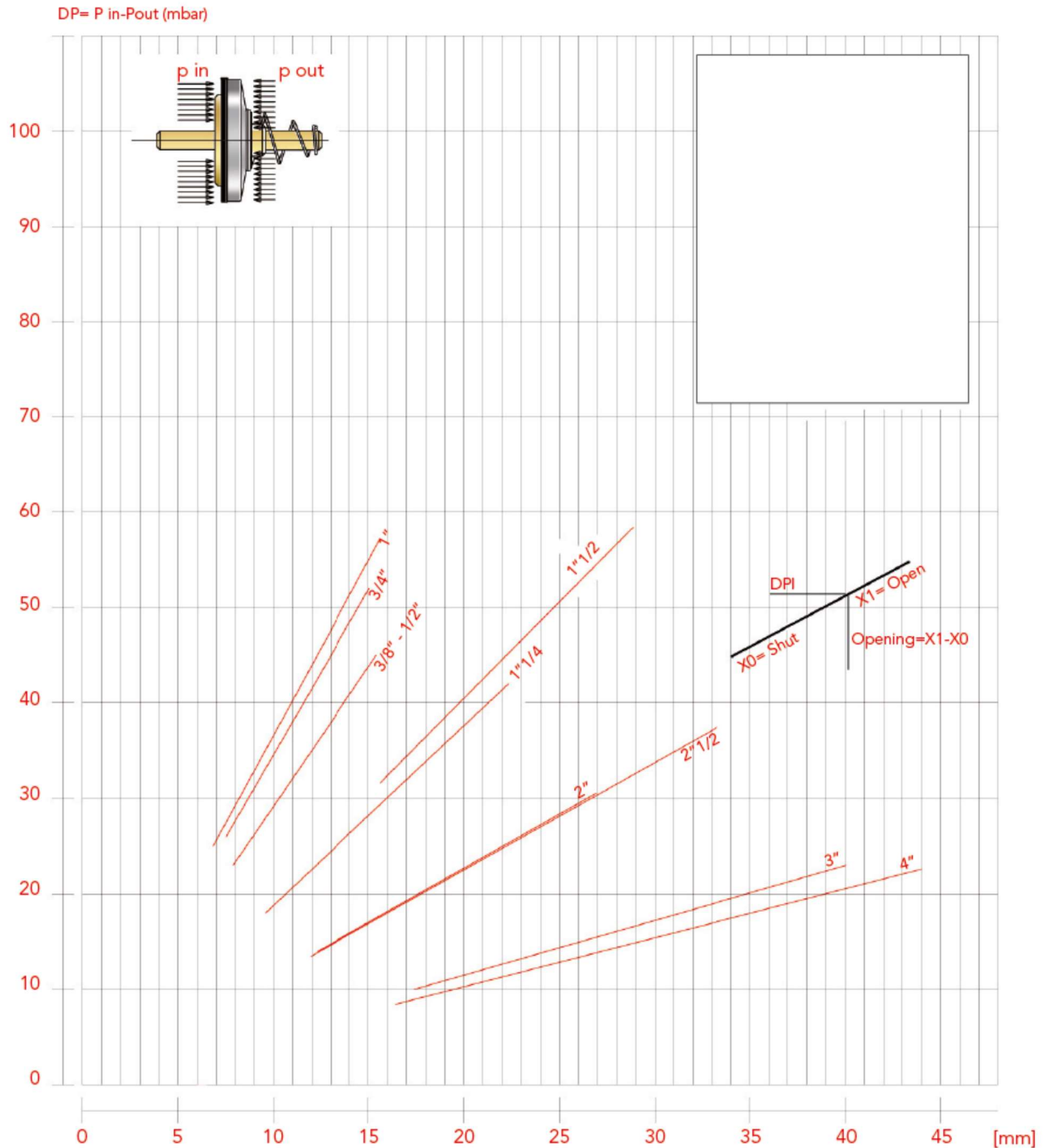
In order to solve this inconvenient, it's necessary to unmount the valve and remove the foreign body with compressed air tools.



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DIAGRAM OF THE MINIMUM PRESSURE NEEDED TO GET THE VALVES OPENING

The opening of the valve is given by the different pressure between the two sides of the seat.





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PRESSURE-TEMPERATURE DIAGRAM

The values shown by the dropping lines state the maximum limit of employment of the valves.
The shown values are approximate.

