



RÜCKSCHLAG- UND FUSSVENTILE EUROPA®

100 Rückschlagventil EUROPA®

Geeignet für Wasserversorgungs-, Heizungs-, Klima- und Druckluftanlagen.

In quasi jeder Lage zu installieren: in der senkrechten, waagerechten und schrägen Lage.



ABMESSUNG	DRUCK	ARTIKELNUMMER	VERPACKUNG
3/8" (DN 10)	25bar/362.5psi	1000038	10/130
1/2" (DN 15)	25bar/362.5psi	1000012	10/120
3/4" (DN 20)	25bar/362.5psi	1000034	8/88
1" (DN 25)	25bar/362.5psi	1000100	6/54
1"1/4 (DN 32)	18bar/261psi	1000114	4/36
1"1/2 (DN 40)	18bar/261psi	1000112	4/32
2" (DN 50)	18bar/261psi	1000200	2/20
2"1/2 (DN 65)	12bar/174psi	1000212	1/9
3" (DN 80)	12bar/174psi	1000300	1/6
4" (DN 100)	12bar/174psi	1000400	1/4

ZERTIFIZIERUNGEN



BESCHREIBUNG

Körper aus Messing.

Dichtung aus Edelstahl.

Dichtung aus NBR.

Feder aus Edelstahl.

Minimale und maximale Betriebstemperatur: -20°C, 100°C.

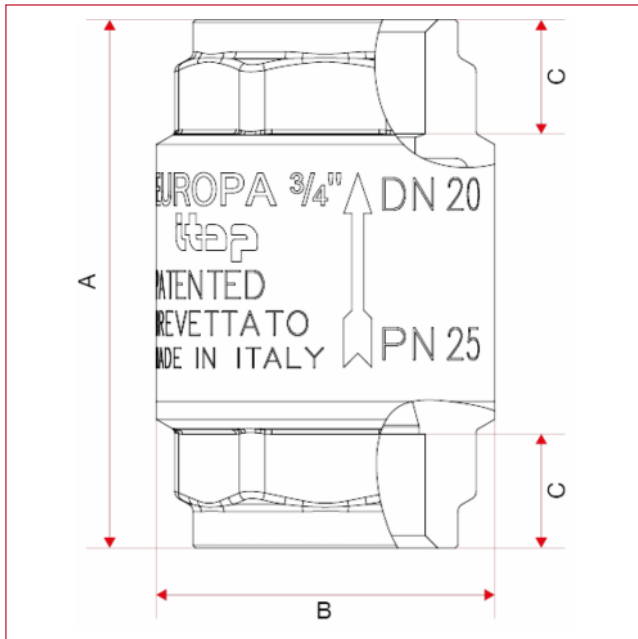
Gewindeanschlüsse: ISO228 (entspricht DIN EN ISO 228 und BS EN ISO 228).

Mit amerikanischem NPT-Gewinde in den Größen 1/2" bis 4" erhältlich.



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OVERALL DIMENSIONS

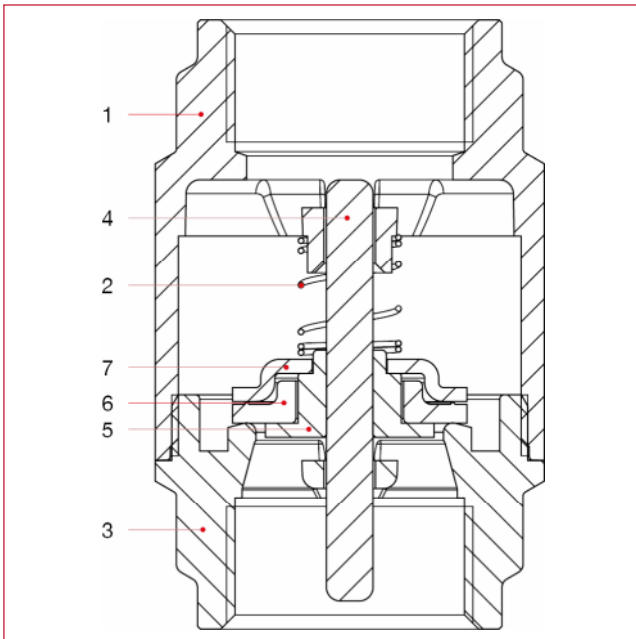


	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
DN	10	15	20	25	32	40	50	65	80	100
A	55	58,5	65	74,5	83	93	101	122	141,5	158,5
A (NPT)	-	61	65	74,5	83	93	101	122	141,5	159,5
B	34,5	34,5	41,5	48	60,5	71	87	120	140	172
C	10,5	11,5	14	16,5	18,5	20,5	21	24	28	28
Kg/cm ² bar	25	25	25	25	18	18	18	12	12	12
LBS - psi	362,5	362,5	362,5	362,5	261	261	261	174	174	174



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MATERIALS



NUM.	BESCHREIBUNG	Qt	MATERIALIEN
1	Body	1	Brass CW617N
2	Spring	1	Stainless steel AISI 302
3	End adapter	1	Brass CW617N
4	Pin	1	Brass CW614N
5	Cap	1	Brass CW614N
6	Washer	1	NBR
7	Plate	1	Stainless steel AISI 304



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.

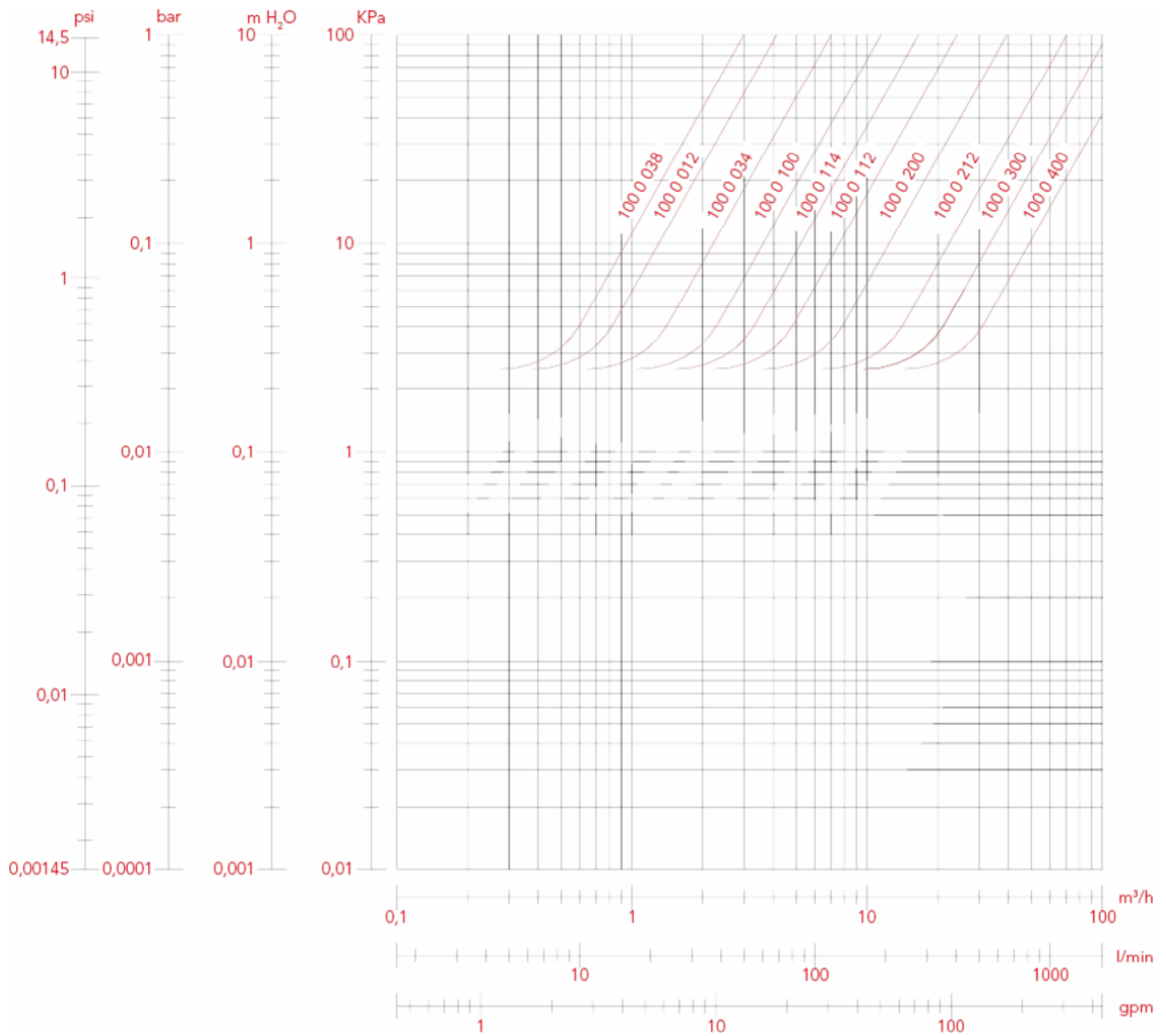
In order to solve this inconvenient, it's necessary to unmount the valve and remove the foreign body with compressed air tools.



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LOSS DIAGRAM (With water)

	3/8"	1/2"	3/4"	1"	1"1/4"	1"1/2"	2"	2"1/2"	3"	4"
KV	2,99	4,12	7,03	11,45	16,54	24,12	39,32	70,64	105,6	155,3

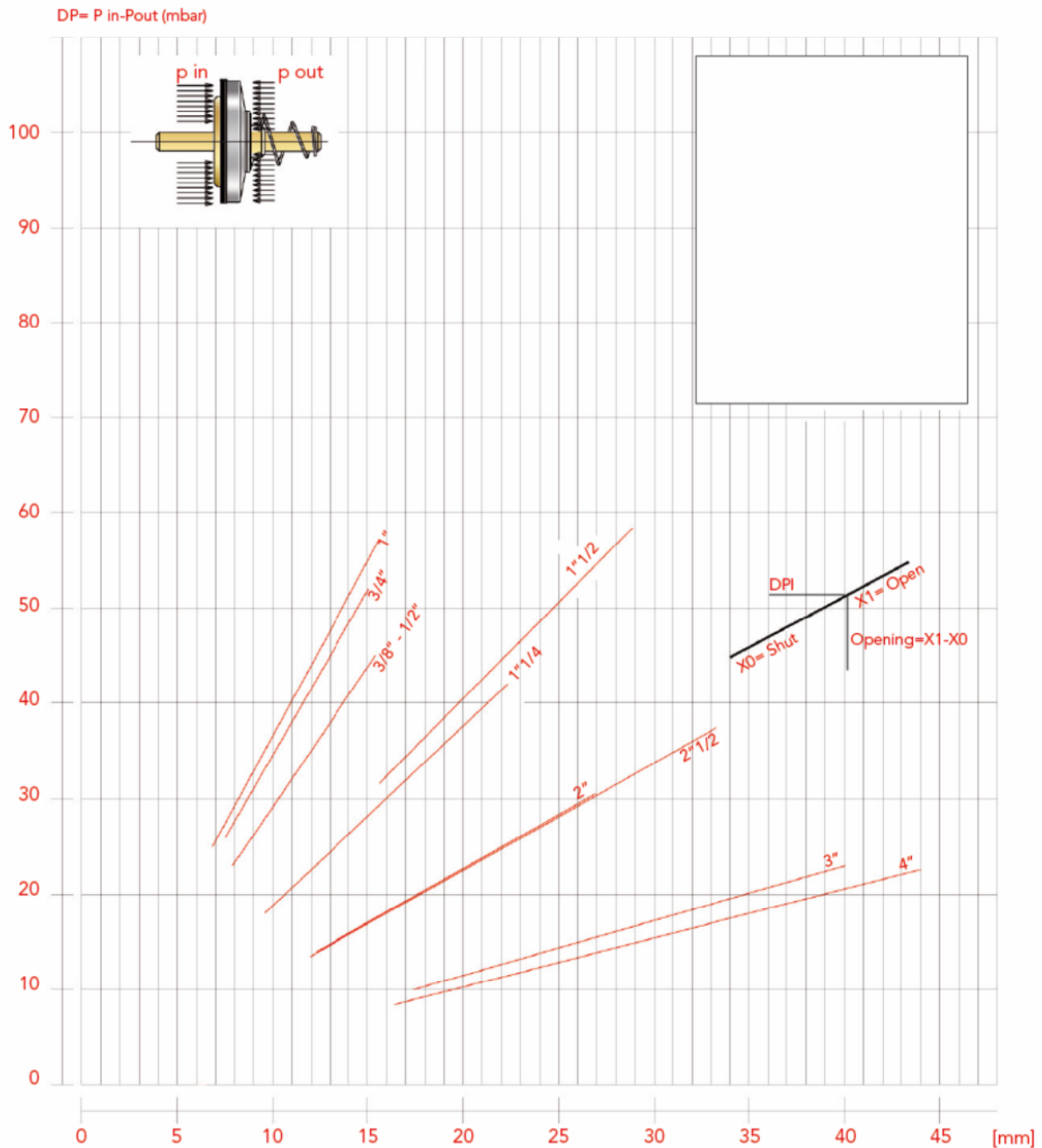




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DIAGRAM OF THE MINIMUM PRESSURE NEEDED TO GET THE VALVES OPENING

Differenzdruck zwischen den zwei Seiten der Dichtungsfläche ermöglicht die Eröffnung des Ventils.





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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.

