

100

EUROPA®  
CHECK VALVE

TECHNICAL  
SPECIFICATIONS

MATERIALS



SIZE	PRESSURE	CODE	PACKING
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	1/8
3" (DN 80)	12bar/174psi	1000300	1/6
4" (DN 100)	12bar/174psi	1000400	1/4

Body in brass.

Plate in stainless steel.

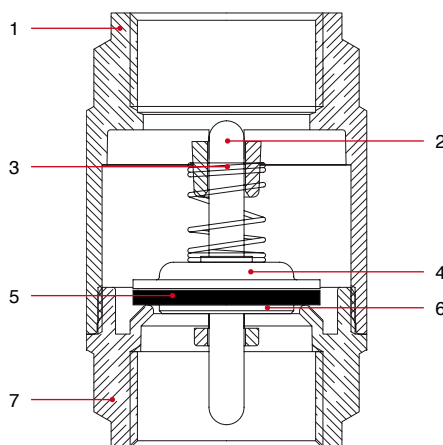
Washer in NBR.

Spring in stainless steel.

Minimum and maximum working temperatures: -20°C, 100°C.

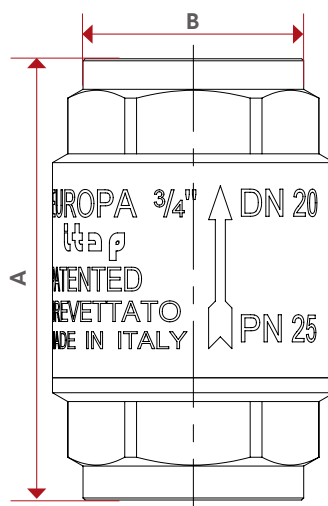
Threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

Available also with NPT thread in the sizes from 1/2" to 4".



POS.	DESCRIPTION	N.	MATERIAL
1	Body	1	Brass CW617N
2	Pin	1	Brass CW614N
3	Spring	1	Stainless steel AISI 302
4	Plate	1	Stainless steel AISI 304
5	Washer	1	NBR
6	Plug	1	Brass CW614N
7	End adapter	1	Brass CW617N

## 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
B	34,5	34,5	41,5	48	60,5	71	87	120	140	172
Kg/cm <sup>2</sup> 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

## MANUFACTURER INSTRUCTIONS

### Installation

The EUROPA® check valves are uni-directional; in the sense that 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 by 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:

- The installer has to be sure that the two pipes are correctly allied;
- 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 gas get'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 the installed valve

To remove the valve from the pipe line or anyhow before unscrewing the connections linked:

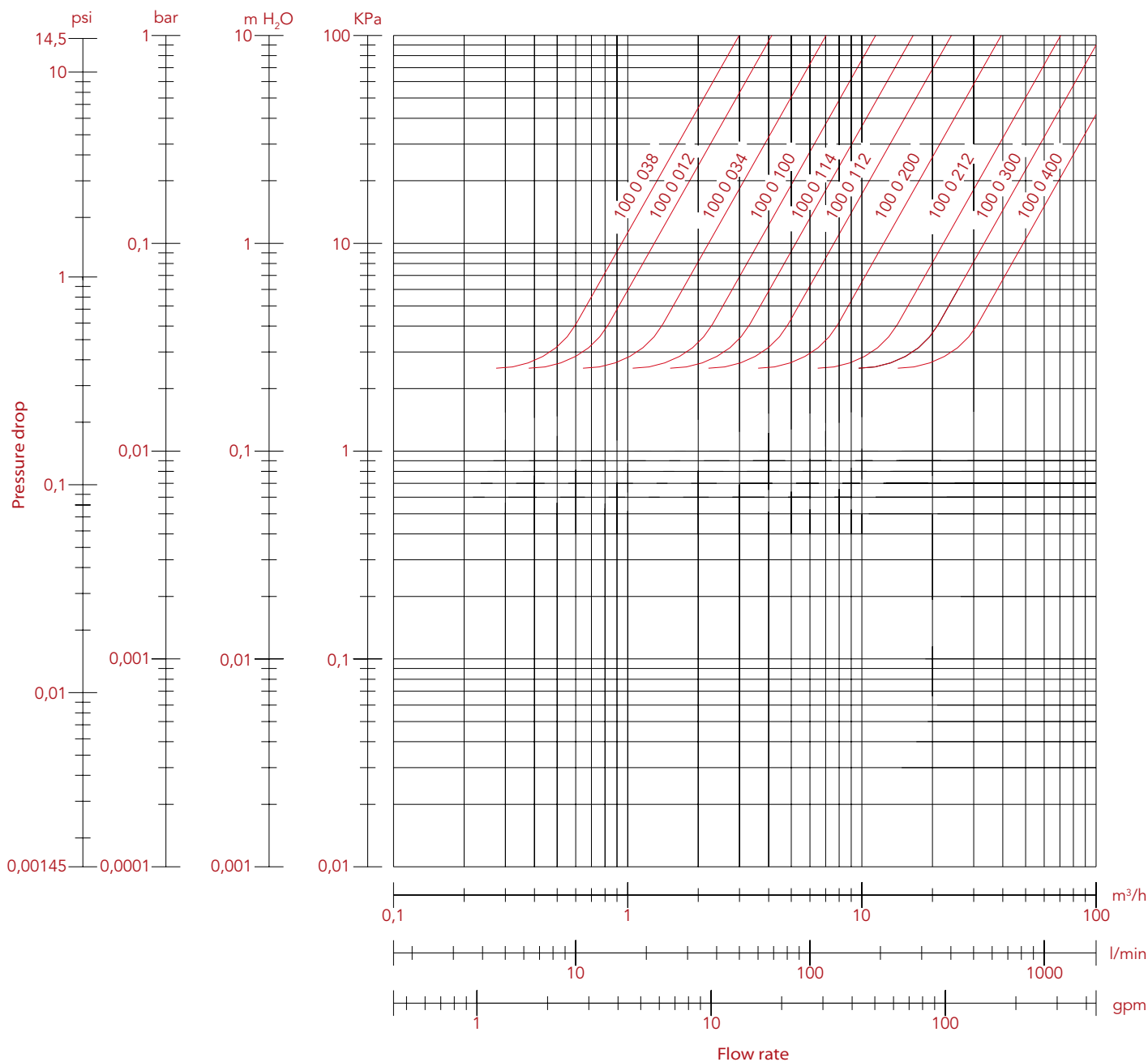
- Wear the protective clothing normally required to work with carried fluids;
- Take the pressure inside the line out;
- During the disassembling process, apply the key at the end of the valve, the one nearest the pipe

### Maintenance

Verify the valve periodically, according to its application's field and its works' field and its work's conditions, in order to be sure that the valve works 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.

# FLOW RATE AND PRESSURE DROP CHART

WITH WATER



SIZE	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	105,60	155,30

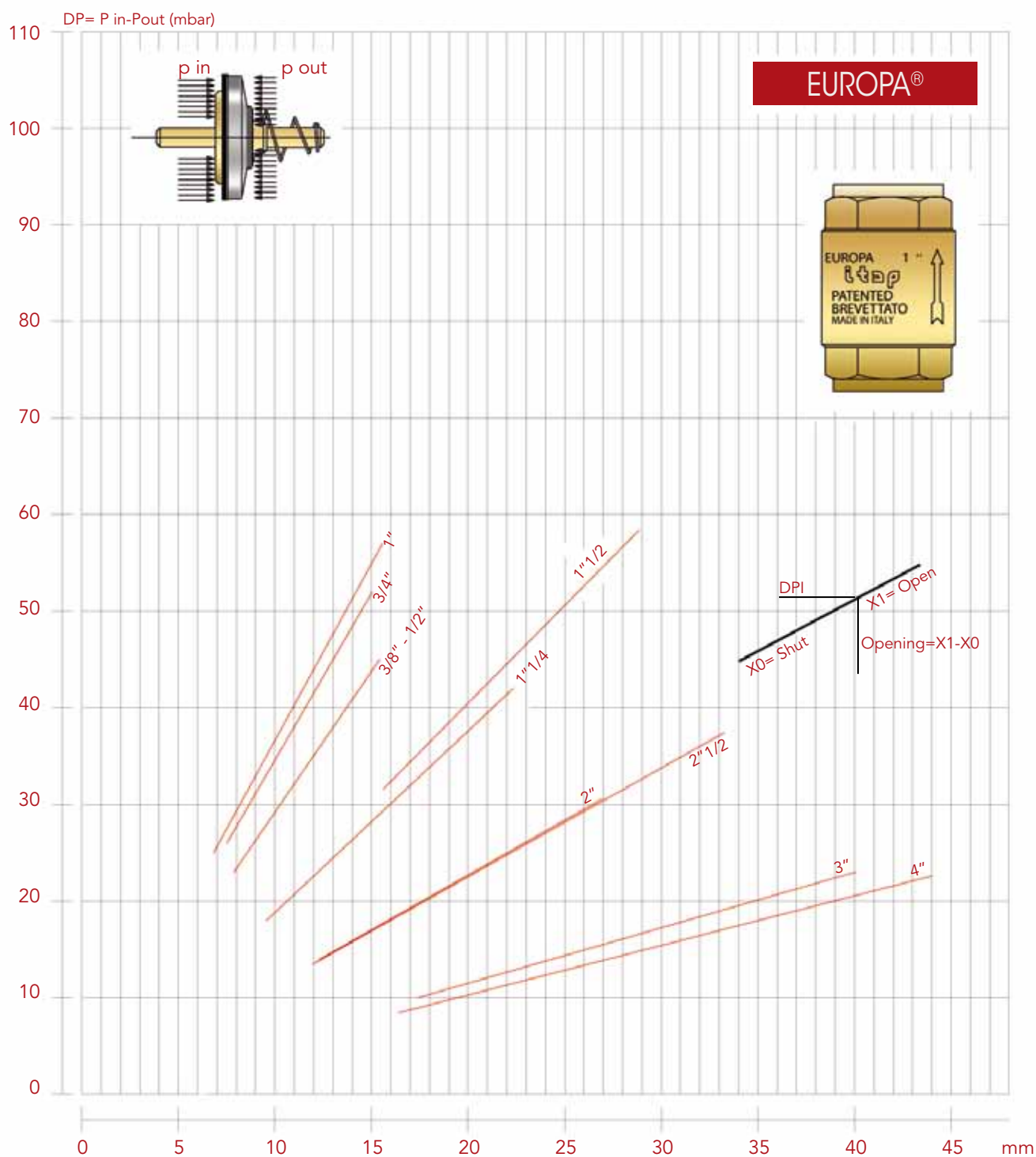
Dates given by laboratory CETIM accredited by RNE





TEC

# DIAGRAM MINIMUM PRESSURE TO GET THE VALVES OPENING



EUROPA®

# 105

EUROPA®  
FOOT VALVE

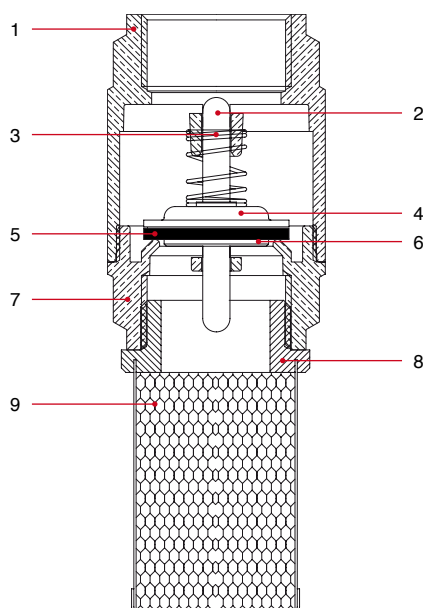


SIZE	PRESSURE	CODE	PACKING
3/8" (DN 10)	25bar/362.5psi	1050038	8/120
1/2" (DN 15)	25bar/362.5psi	1050012	8/120
3/4" (DN 20)	25bar/362.5psi	1050034	6/90
1" (DN 25)	25bar/362.5psi	1050100	4/60
1 1/4" (DN 32)	18bar/261psi	1050114	4/32
1 1/2" (DN 40)	18bar/261psi	1050112	2/26
2" (DN 50)	18bar/261psi	1050200	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

## TECHNICAL SPECIFICATIONS

Body in brass.  
Plate in stainless steel.  
Washer in NBR.  
Spring in stainless steel.  
Strainer in polymer and stainless steel.  
Filtration degree: 3/8" through 2": 1200µm; from 2 1/2" to 4": 2000µm.  
Minimum and maximum working temperatures: -20°C, 100°C.  
Threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).  
**Available also with NPT thread in the sizes 2 1/2, 3" e 4".**

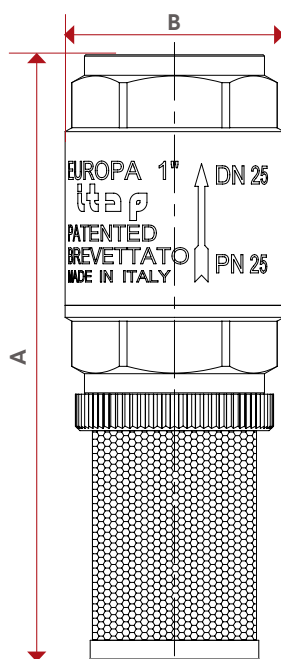
## MATERIALS



POS.	DESCRIPTION	N.	MATERIAL
1	Body	1	Brass CW617N
2	Pin	1	Brass CW614N
3	Spring	1	Stainless steel AISI 302
4	Plate	1	Stainless steel AISI 304
5	Washer	1	NBR
6	Plug	1	Brass CW614N
7	End adapter	1	Brass CW617N
8	End adapter	1	Polymer
9	Strainer	1	Stainless steel AISI 304



## 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	97,5	114,5	133,5	147	165	187	230	264,5	297
B	34,5	34,5	41,5	48	60,5	71	87	120	140	172
Kg/cm² 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

## MANUFACTURER INSTRUCTIONS

### Installation

The EUROPA® check valves are uni-directional; in the sense that 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 by 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:

- The installer has to be sure that the two pipes are correctly allied;
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- 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 gas get'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 the installed valve

To remove the valve from the pipe line or anyhow before unscrewing the connections linked:

- Wear the protective clothing normally required to work with carried fluids;
- Take the pressure inside the line out;
- During the disassembling process, apply the key at the end of the valve, the one nearest the pipe

### Maintenance

Verify the valve periodically, according to its application's field and its works' field and its work's conditions, in order to be sure that the valve works 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.

# 102

STRAINER FOR  
EUROPA®, YORK®,  
ROMA®, BLOCK®  
CHECK VALVES



SIZE	CODE	PACKING
3/8" (DN 10)	1020038	30/1200
1/2" (DN 15)	1020012	30/900
3/4" (DN 20)	1020034	20/480
1" (DN 25)	1020100	20/280
1"1/4 (DN 32)	1020114	10/180
1"1/2 (DN 40)	1020112	10/140
2" (DN 50)	1020200	4/76
2"1/2 (DN 65)	1020212	1/62
3" (DN 80)	1020300	1/36
4" (DN 100)	1020400	1/20

## TECHNICAL SPECIFICATIONS

Filtration degree:

- 3/8" through 2": 1200µm;
- 2"1/2 through 4": 2000µm.

Strainer in stainless steel.

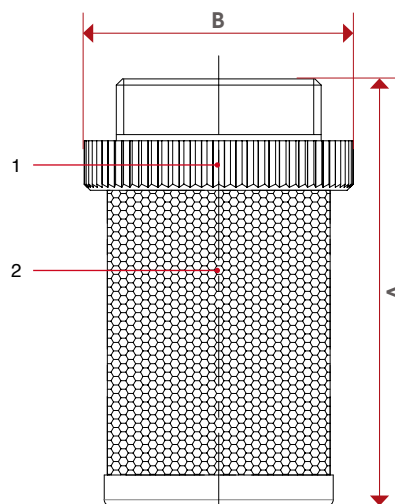
Threaded end in polymer.

Thread: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

**Available also with NPT thread in the sizes 2"1/2, 3" e 4".**

## MATERIALS

## OVERALL DIMENSIONS



	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
A	42	47	57,5	69	75	83	98	123	138	152,5
B	25,5	29,5	36	43,5	50,5	56,5	69	86	102	129

POS.	DESCRIPTION	N.	MATERIAL
1	End adapter	1	Polymer
2	Strainer	1	Stainless steel AISI 304