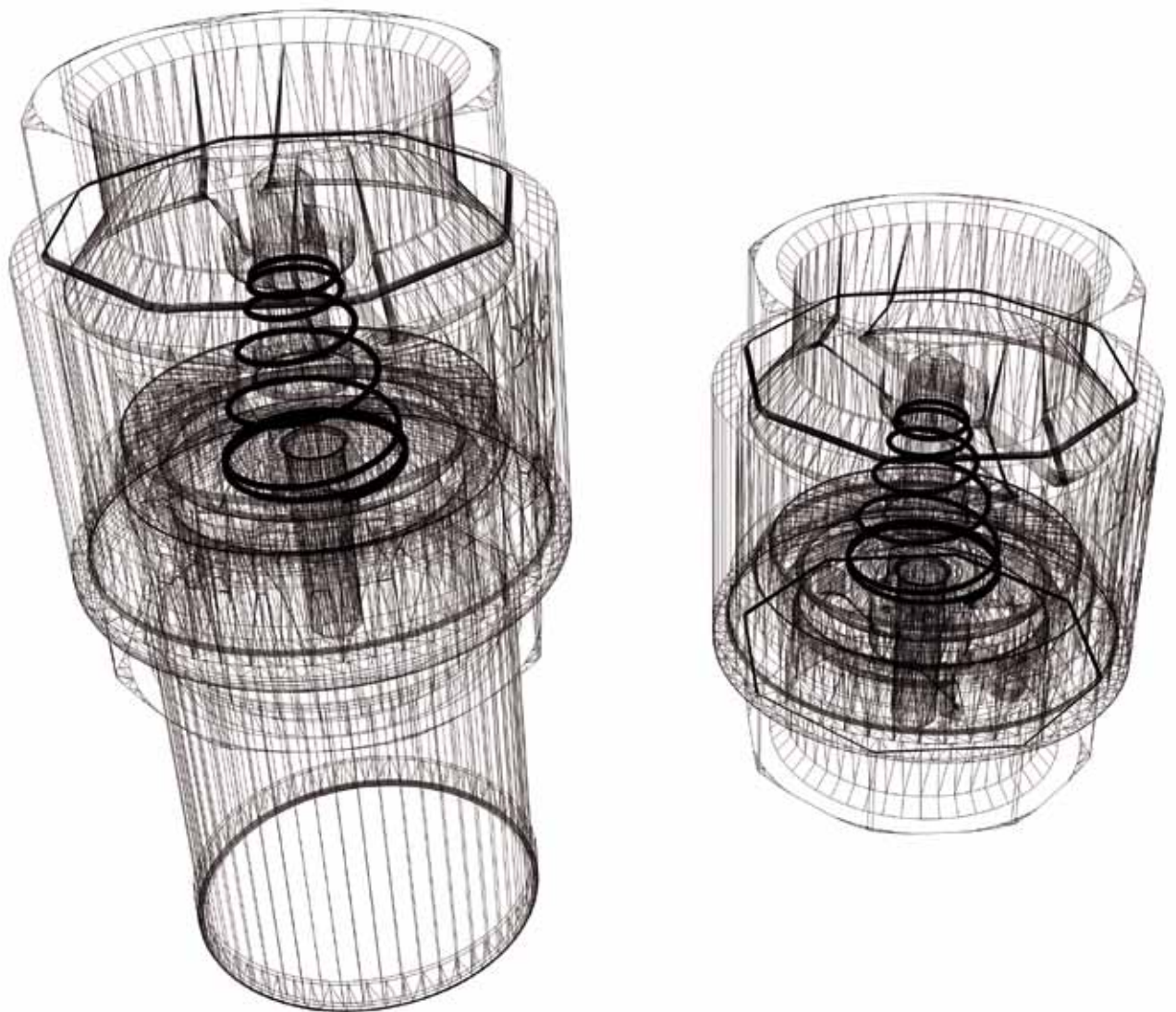


A-2512 TRIBUSWINKEL, WERKSGASSE 7

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ARMATUREN Handels - GmbH



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CHECK AND  
FOOT VALVES

# RV103

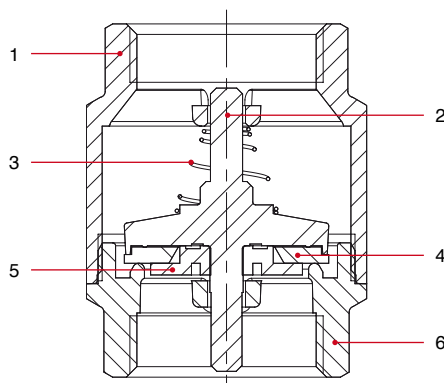


SIZE	PRESSURE	
3/8" (DN 10)	12bar/174psi	
1/2" (DN 15)	12bar/174psi	
3/4" (DN 20)	12bar/174psi	
1" (DN 25)	12bar/174psi	
1"1/4 (DN 32)	10bar/145psi	
1"1/2 (DN 40)	10bar/145psi	
2" (DN 50)	10bar/145psi	
2"1/2 (DN 65)	8bar/116psi	
3" (DN 80)	8bar/116psi	
4" (DN 100)	8bar/116psi	

## TECHNICAL SPECIFICATIONS

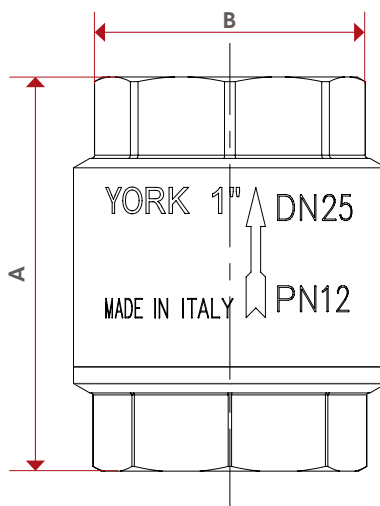
Body in brass.  
 Plate in polymer.  
 Washer in NBR.  
 Spring in stainless steel.  
 Minimum and maximum working temperatures: -20°C, 100°C.  
 Threads: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

## MATERIALS



POS.	DESCRIPTION	N.	MATERIAL
1	Body	1	Brass CW617N
2	Pin	1	Polymer
3	Spring	1	Stainless steel AISI 302
4	Washer	1	NBR
5	Plate	1	Polymer
6	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	46,5	48	53	60,5	66,5	74	80,5	98	103	118,5
B	35	35	42	48	59,5	70,5	86	103	126	154
Kg/cm <sup>2</sup> bar	12	12	12	12	10	10	10	8	8	8
LBS - psi	170	170	170	170	140	140	140	110	110	110

## MANUFACTURER INSTRUCTIONS

### Installation

The YORK® 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 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:

- 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.
- The installer has 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 the installed valve

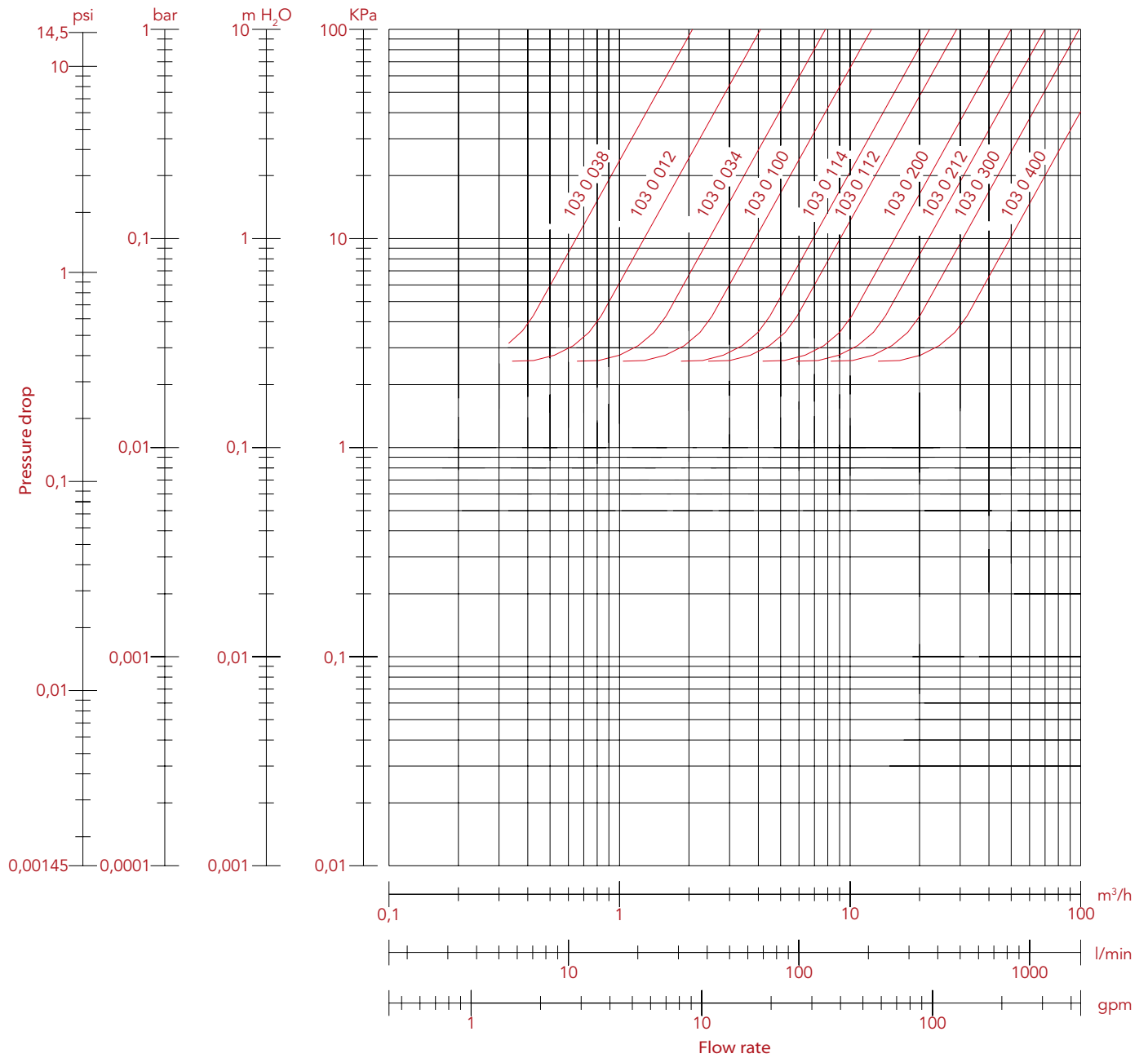
To remove the valve from the pipe line or anyhow before unscrewing the connections linked:

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

### Maintenance

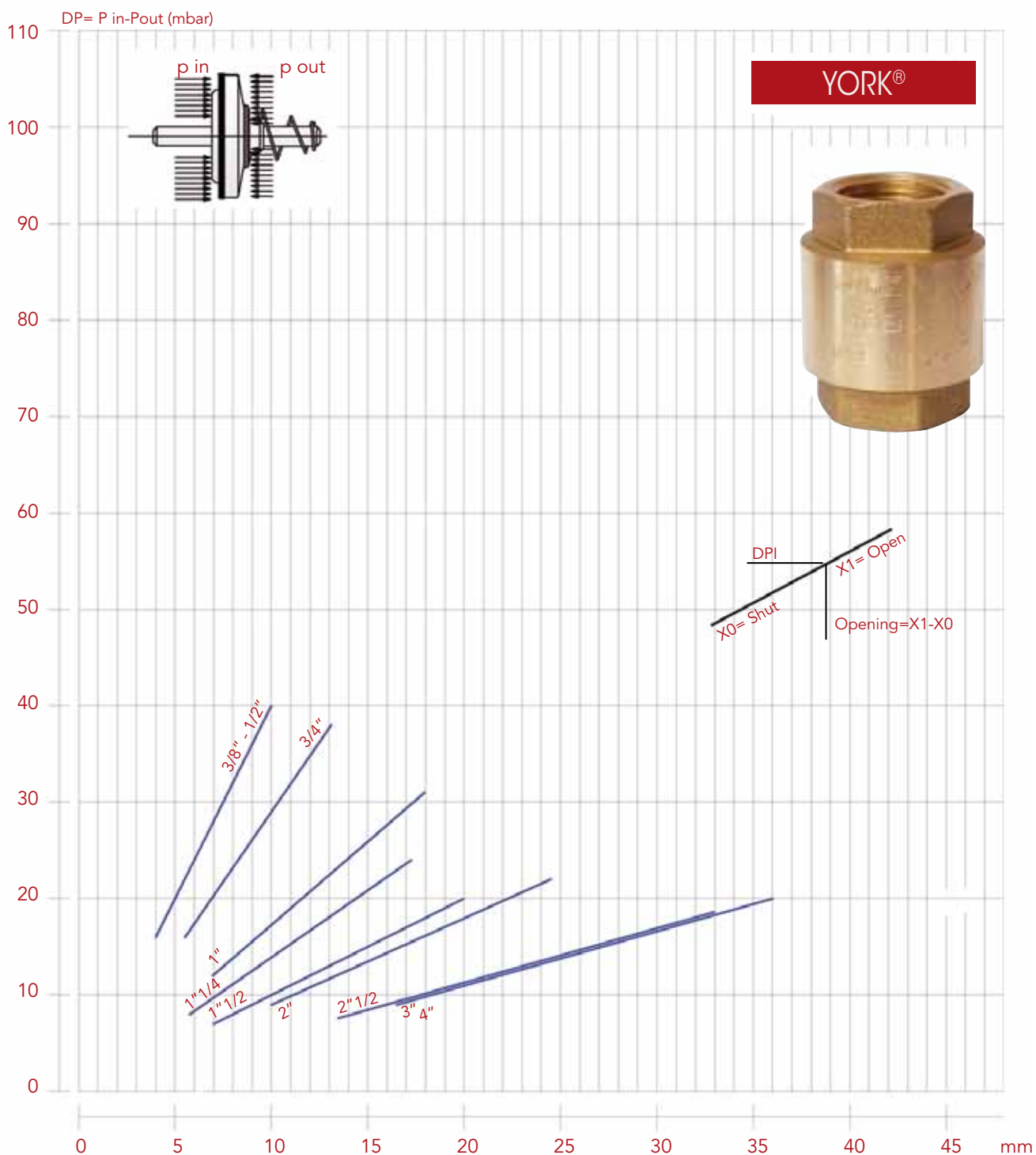
Verify the valve periodically, according to its application's field and its works' field and its work's conditions, in order to be sure that the valve works correctly. In case of losses of tightening, take note that these can be caused by a deposit of foreign bodies (dirty, calcareous) on the rubber 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	2.11	4.22	7.92	11.67	22.42	29.39	51.40	69.90	98.49	157.91

# DIAGRAM MINIMUM PRESSURE TO GET THE VALVES OPENING



# RV108

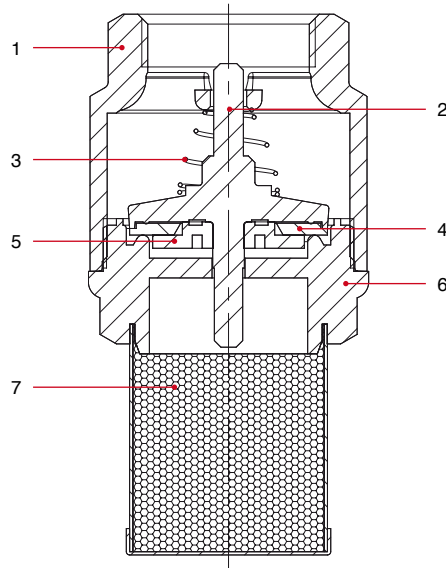


SIZE	PRESSURE	CODE	PACKING
3/8" (DN 10)	12bar/174psi	1080038	10/220
1/2" (DN 15)	12bar/174psi	1080012	10/220
3/4" (DN 20)	12bar/174psi	1080034	8/144
1" (DN 25)	12bar/174psi	1080100	8/120
1"1/4 (DN 32)	10bar/145psi	1080114	6/60
1"1/2 (DN 40)	10bar/145psi	1080112	4/48
2" (DN 50)	10bar/145psi	1080200	2/26
2"1/2 (DN 65)	6bar/87psi	1080212	1/25
3" (DN 80)	6bar/87psi	1080300	1/17
4" (DN 100)	6bar/87psi	1080400	1/10

## TECHNICAL SPECIFICATIONS

Body in brass.  
 Plate in polymer.  
 Washer in NBR.  
 Spring in 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: ISO228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

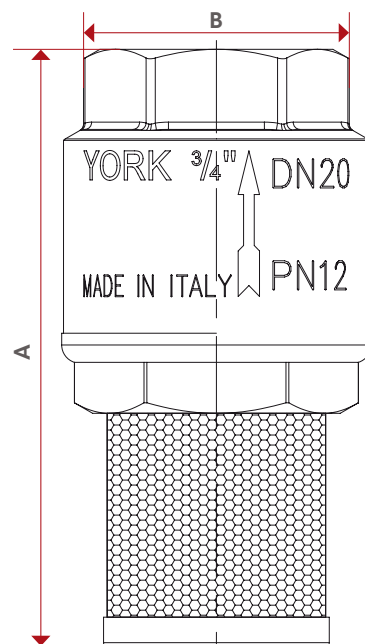
## MATERIALS



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

## OVERALL DIMENSIONS

	<b>3/8" - 1/2" - 3/4" - 1" - 1 1/4" - 1 1/2" - 2"</b>	<b>2 1/2" - 3" - 4"</b>
<b>Filtration</b>	μ 1200	μ 2000



	<b>3/8"</b>	<b>1/2"</b>	<b>3/4"</b>	<b>1"</b>	<b>1 1/4"</b>	<b>1 1/2"</b>	<b>2"</b>	<b>2 1/2"</b>	<b>3"</b>	<b>4"</b>
<b>DN</b>	10	15	20	25	32	40	50	65	80	100
<b>A</b>	69,5	70	82	91,5	108	119	136,5	164,5	184,5	214,5
<b>B</b>	35	35	42	48	59,5	70,5	86	103	126	154
<b>Kg/cm<sup>2</sup> bar</b>	12	12	12	12	10	10	10	6	6	6
<b>LBS - psi</b>	174	174	174	174	145	145	145	87	87	87

## MANUFACTURER INSTRUCTIONS

### Installation

The YORK® 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 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:

- 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.
- The installer has 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 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;
- Depressurize the line;
- 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.

# RV102

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

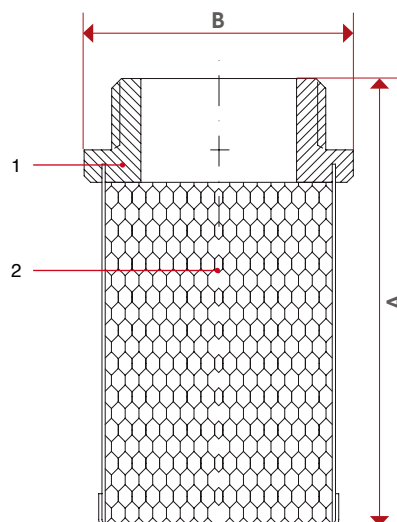


## TECHNICAL SPECIFICATIONS

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



# RV107

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

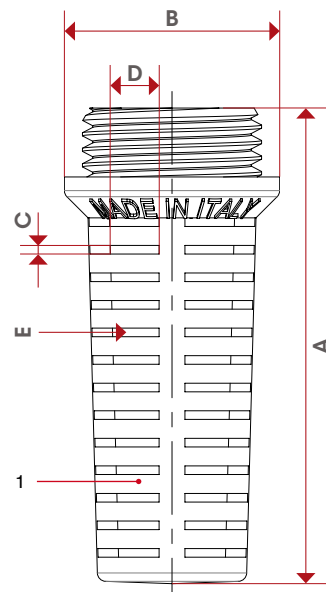


## TECHNICAL SPECIFICATIONS

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

## MATERIALS

## OVERALL DIMENSIONS



	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
A	55,5	55	55,3	59	69,5	74	87,3
B	23	25	32	39	47	54	66
C	1	1	1	1	1	1	1
D	5,58	8,15	11,37	14,74	20,78	23,94	30,99
E (n°)	52	52	52	52	56	64	76
Filtration (μ)	1.000	1.000	1.000	1.000	1.000	1.000	1.000

POS.	DESCRIPTION	N.	MATERIAL
1	Strainer	1	Polymer