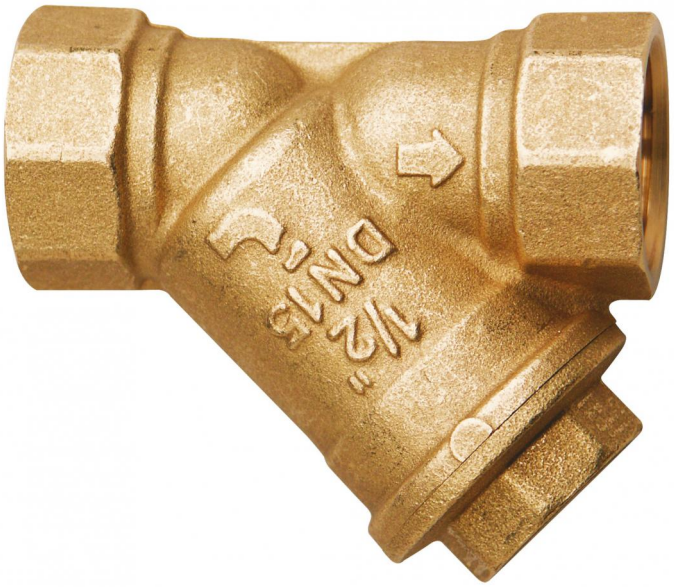
TECHNICAL CATALOGUE

STRAINERS



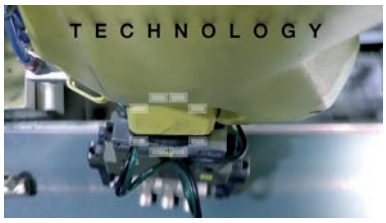
ITAP AT A GLANCE

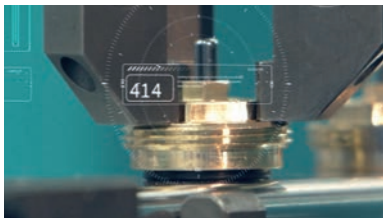
THE COMPANY

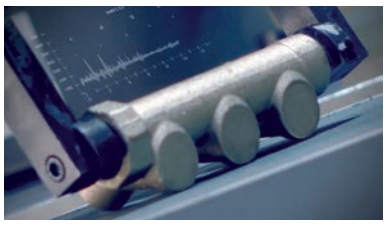
ITAP SpA, founded in Lumezzane (Brescia) in 1972, is currently one of the leading production companies in Italy of **valves, fittings and distribution manifolds** for plumbing and heating systems.

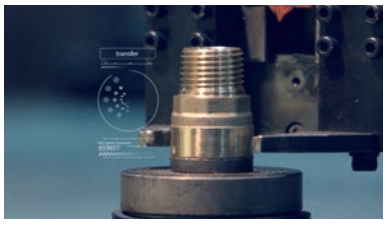
Thanks to a fully automated production process, with 85 transfer machines and 55 assembly lines, it is capable of producing 400,000 pieces per day.

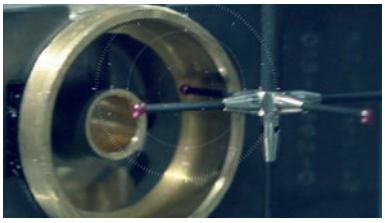
Our innate pursuit for innovation and observance of technical regulations is supported by the company certification ISO 9001. The company has always considered its focus on quality as the main tool to obtain significant business results: today ITAP SpA is proud to offer products bearing the approval of numerous international certifying bodies.







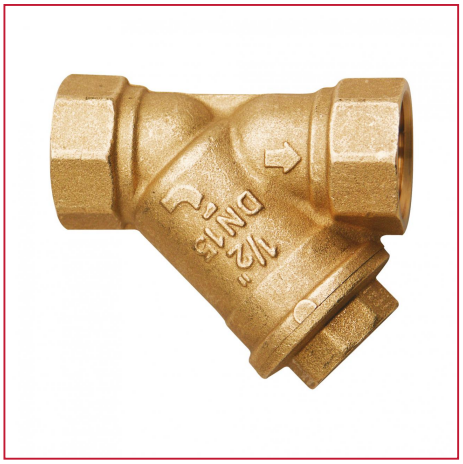




ITAP products have obtained approvals by more than 30 certification bodies from all over the world.

192 Y strainer

Suitable for domestic water services, heating and air-conditioning plants.
Art.192A also suitable for use in compressed air systems.



192

Filtration degree: 1/4” through 2”: 500µm; 2”1/2 through 4”: 800µm

MEASURE	PRESSURE	CODE	PACKING
1/4" (DN 8)	20bar/290psi	1920014	20/160
3/8" (DN 10)	20bar/290psi	1920038	20/160
1/2" (DN 15)	20bar/290psi	1920012	20/160
3/4" (DN 20)	20bar/290psi	1920034	10/80
1" (DN 25)	20bar/290psi	1920100	7/56
1"1/4 (DN 32)	20bar/290psi	1920114	4/32
1"1/2 (DN 40)	20bar/290psi	1920112	2/18
2" (DN 50)	20bar/290psi	1920200	2/10
2"1/2 (DN 65)	16bar/232psi	1920212	1/7
3" (DN 80)	16bar/232psi	1920300	1/6
4" (DN 100)	16bar/232psi	1920400	1/2

192A

Filtration degree: 1/4” through 2” 200µm

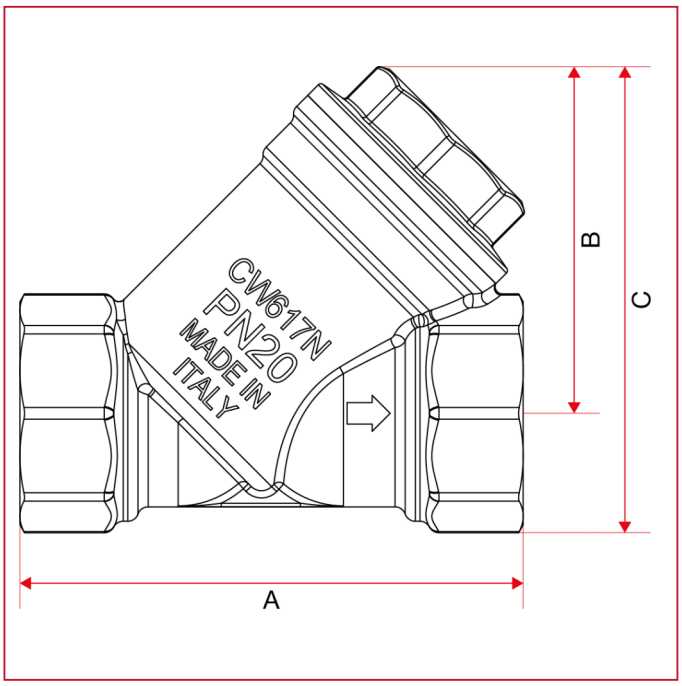
MEASURE	PRESSURE	CODE	PACKING
1/4" (DN 8)	20bar/290psi	1920014A	20/160
3/8" (DN 10)	20bar/290psi	1920038A	20/160
1/2" (DN 15)	20bar/290psi	1920012A	20/160
3/4" (DN 20)	20bar/290psi	1920034A	10/80
1" (DN 25)	20bar/290psi	1920100A	7/56
1"1/4 (DN 32)	20bar/290psi	1920114A	4/32
1"1/2 (DN 40)	20bar/290psi	1920112A	2/18
2" (DN 50)	20bar/290psi	1920200A	2/10

CERTIFICATIONS

TECHNICAL SPECIFICATIONS

Female/female threads and inspection plug.
Body in brass.
Minimum and maximum working temperatures: -20°C, 110°C in absence of steam.
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”.

OVERALL DIMENSIONS

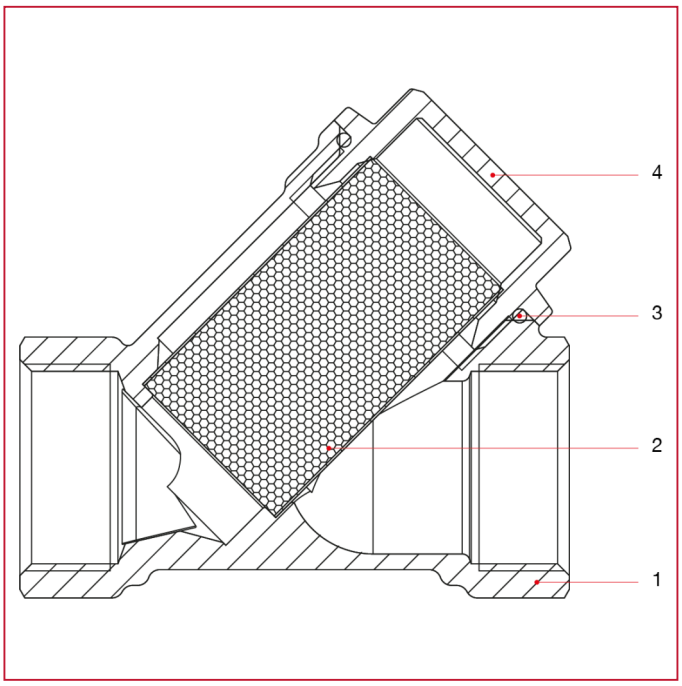


	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
DN	8	10	15	20	25	32	40	50	65	80	100
A	55	55	58	70	87	96	106	126	150	169	219
B	40	40	40	48	56	64	73	88,5	105	119	162
C	49,4	51	53	65,4	76	88	100	122	147	169	225
Kg/cm2 bar	20	20	20	20	20	20	20	20	16	16	16
LBS - psi	290	290	290	290	290	290	290	290	232	232	232

192A

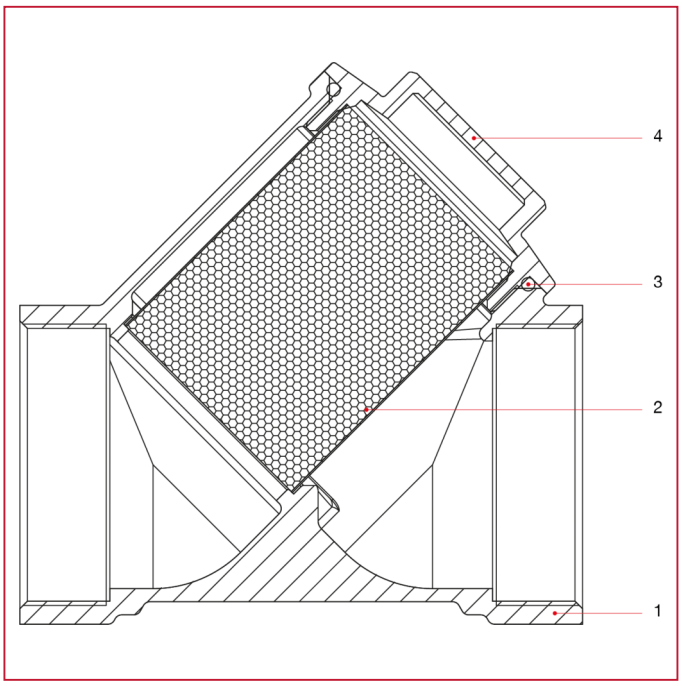
	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
DN	8	10	15	20	25	32	40	50
A	55	55	58	70	87	96	106	126
B	40	40	40	48	56	64	73	88,5
C	49,4	51	53	65,4	76	88	100	122
Kg/cm2 bar	20	20	20	20	20	20	20	20
LBS - psi	290	290	290	290	290	290	290	290

MATERIALS sizes 1/4" through 2"



POS.	DESCRIPTION	N.	MATERIAL
1	Body	1	Brass CW617N
2	Strainer	1	Stainless steel AISI 304
3	O-ring	1	NBR
4	End adapter	1	Brass CW617N

MATERIALS sizes 2"1/2 through 4"



POS.	DESCRIPTION	N.	MATERIAL
1	Body	1	Brass CB753S
2	Strainer	1	Stainless steel AISI 304
3	O-ring	1	NBR
4	End adapter	1	Brass CW617N

INSTRUCTIONS FOR INSTALLATION, MAINTENANCE AND USE - Y Strainer

INSTALLATION

The Y strainer with metal mesh was designed to prevent solid impurities from entering pipes where they can build up and thus reduce the flow, resulting in greater head losses and oxidation-related problems.
The strainer must be installed upstream of all the system components that can get damaged or lose efficiency due to the presence of impurities.
It is advisable to install shut-off valves both upstream and downstream of the strainer, to facilitate the latter's maintenance.
The filter is normally installed on the inlet to the water supply line before the check valves and the pressure reducers.
For improved filtering efficiency and trapping of solid impurities, the filter body should be installed on horizontal pipes with the cap facing downwards.

For the installation normal hydraulic practices must be used, and especially:
- ones have to be sure that the two pipes are correctly aligned;
- if the fluid contains impurities (dirt, dust, excessive water hardness), these must be removed or filtered out. The hydraulic circuit must be clean;
- when making the plumbing connections, be careful to avoid excessive mechanical stress on the threading and/or fittings in general: over time these may break and cause leakages, which may damage objects and/or harm people;
- it is forbidden to use the device for any purpose other than its intended use;
- if the device is coupled with other components of the system, this must be done by taking into account the operating characteristics of both: incorrect coupling could jeopardise the operation of the device and/or system;
- make sure that the fluid flows in the direction of the arrow printed on the valve body.

DISASSEMBLY

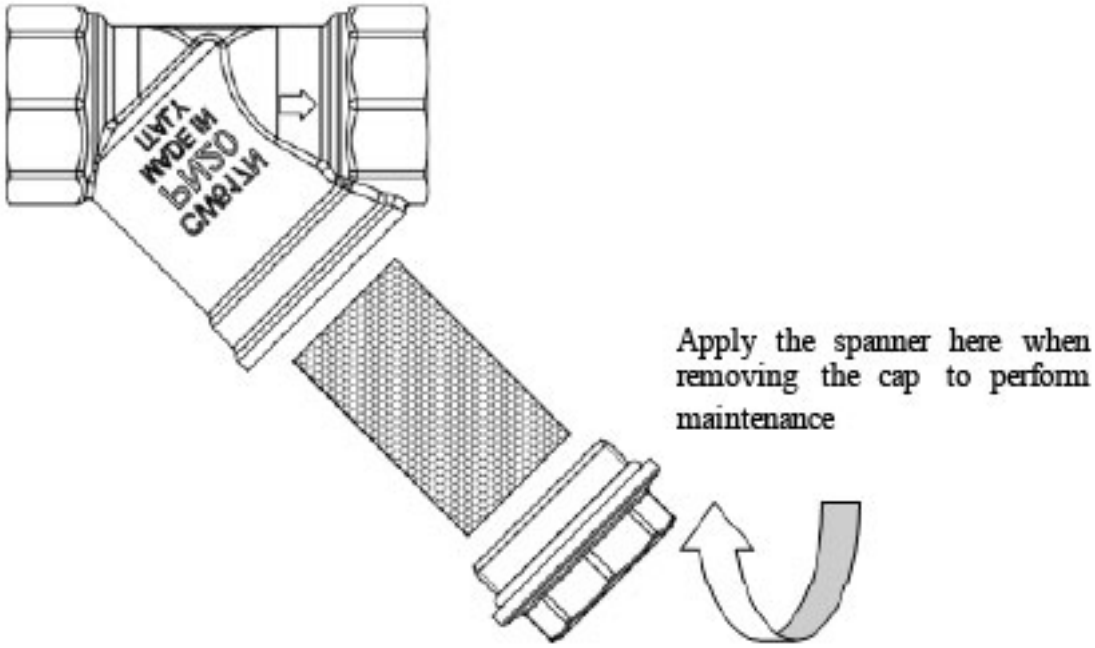
To deinstall the devices from the line or, nonetheless, before unscrewing the couplings connected to them:
- wear the protective clothing normally required for working with the fluid contained in the line;
- depressurizze the line and operate in this way:
- during dismantling, apply the spanner to the end of the filter nearest to the pipe;

MAINTENANCE

Impurity collectors require regular maintenance for cleaning the stainless steel filtering element and eliminating any impurities deposited inside the cap.
To perform these operations:
- carefully unscrew the blind cap;
- extract the stainless steel filter and clean it with water or compressed air;
- mount it back on by slotting it into the relevant cap housing for optimal positioning, taking care to ensure that the seal and/or O-ring between the body and the cap are properly positioned.

WARNINGS

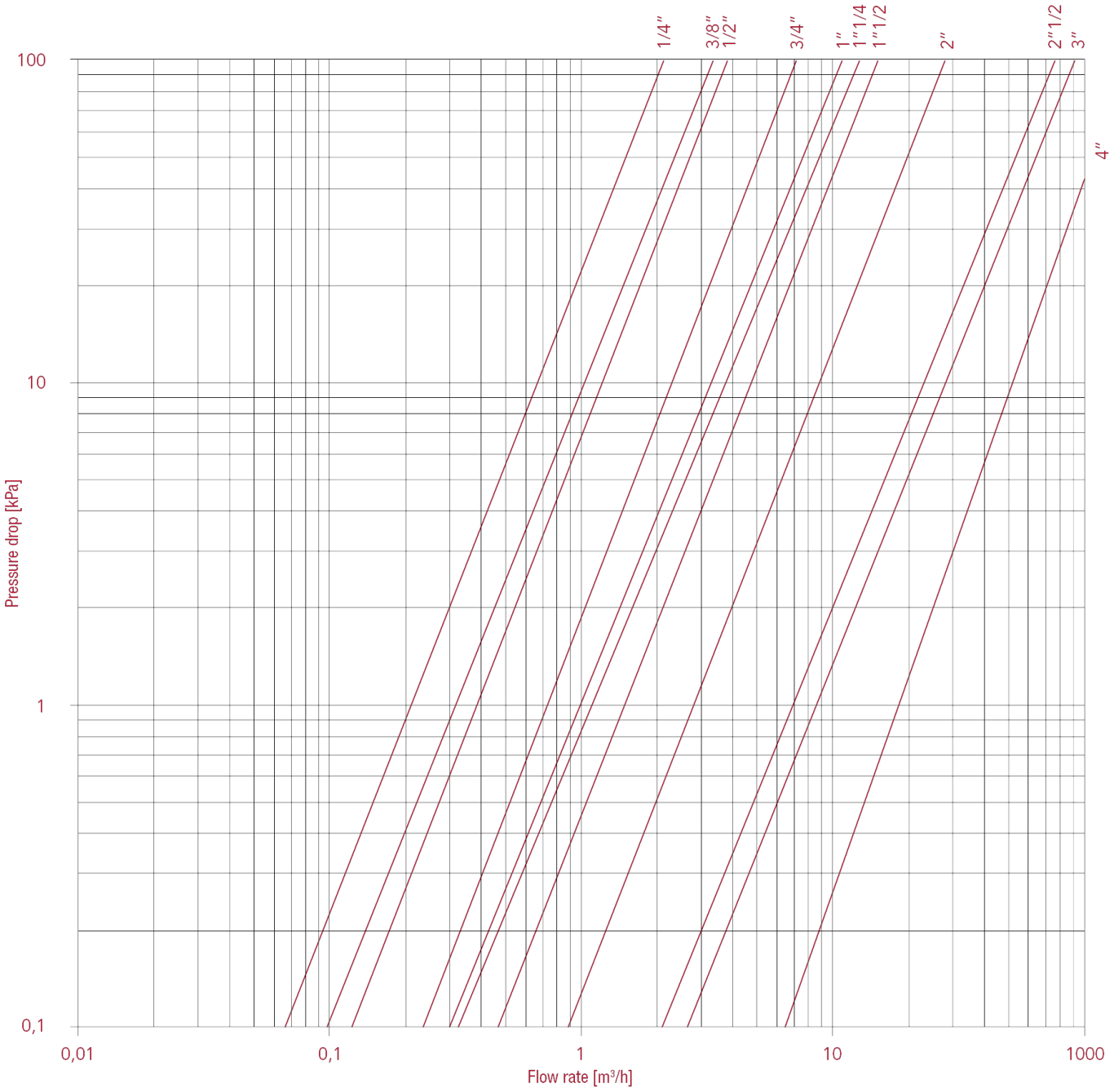
- 1 flow manifold in nickel-plated brass with flow meter
- all installations should be performed in accordance with existing local installation regulations and codes of practice where they exist;
- it is mandatory to follow the instructions supplied by the filter manufacturer and by the plant manufacturer, including those specifying how to properly position the filter connection.


Apply the spanner here when removing the cap to perform maintenance

LOSS DIAGRAM (With water), with a filtration degree of 500µm through 800µm.

192

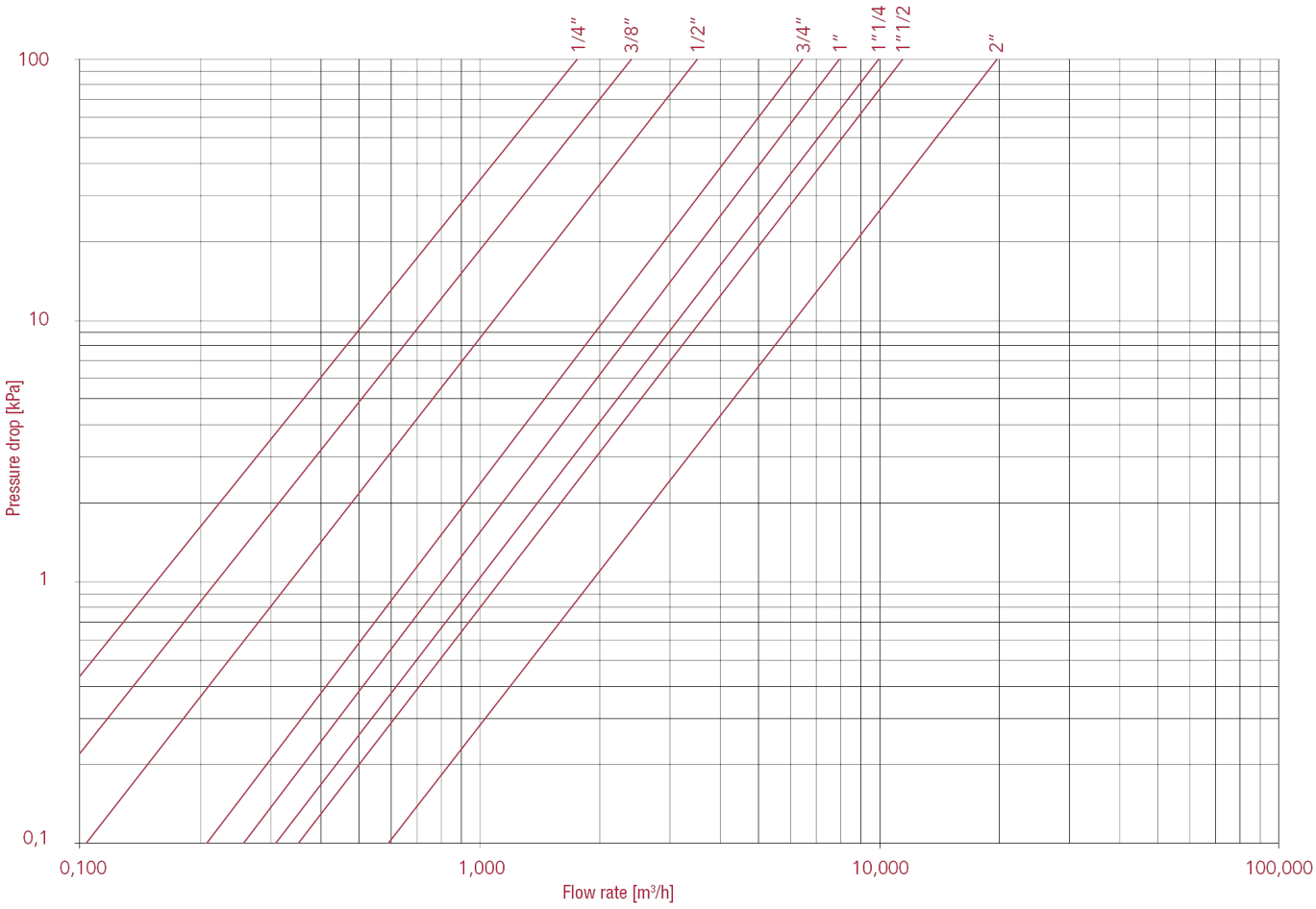
	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
KV	2,20	3,40	3,80	7,20	11	13	15	28	77	93	146



LOSS DIAGRAM (With water), with 200µm filtration degree

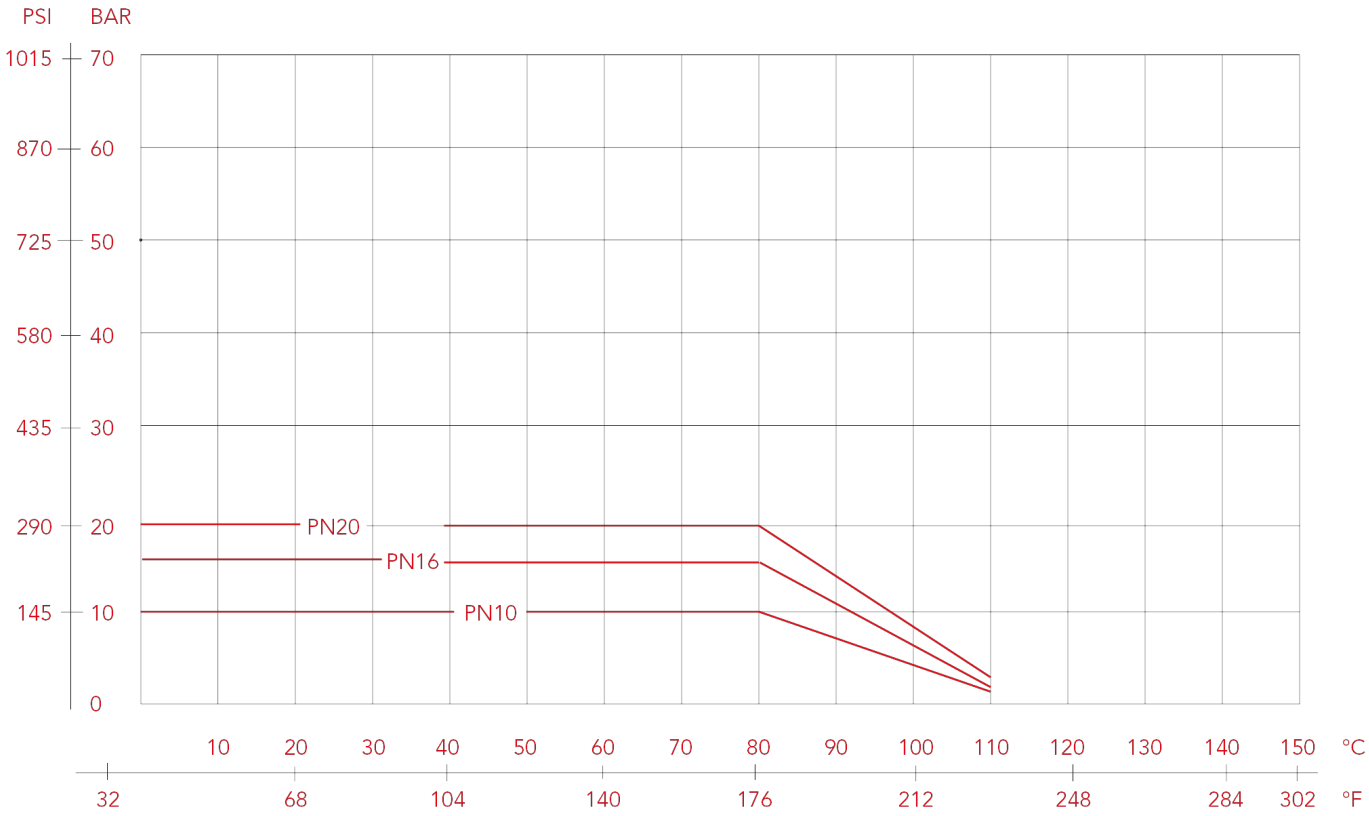
192A

	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
KV	1,7	2,4	3,5	6,5	8	10	11,5	19,6



PRESSURE-TEMPERATURE DIAGRAM

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



192CA Cartridge for Y strainer 192

192CA

Filtration degree: 1/4” through 2”: 500µm; 2”1/2 through 4”: 800µm

MEASURE	CODE	PACKING	FILTER
1/4" (DN 8)	192CA014	1/0	192 - 1/4“
1/4" (DN 8)	192CA014	1/0	192 - 3/8“
1/4" (DN 8)	192CA014	1/0	192 - 1/2“
3/4" (DN 20)	192CA034	1/0	192 - 3/4“
1" (DN 25)	192CA100	1/0	192 - 1“
1"1/4 (DN 32)	192CA114	1/0	192 - 1“1/4
1"1/2 (DN 40)	192CA112	1/0	192 - 1“1/2
2" (DN 50)	192CA200	1/0	192 - 2“
2"1/2 (DN 65)	192CA212	1/0	192 - 2“1/2
3" (DN 80)	192CA300	1/0	192 - 3“
4" (DN 100)	192CA400	1/0	192 - 4“

192CAA

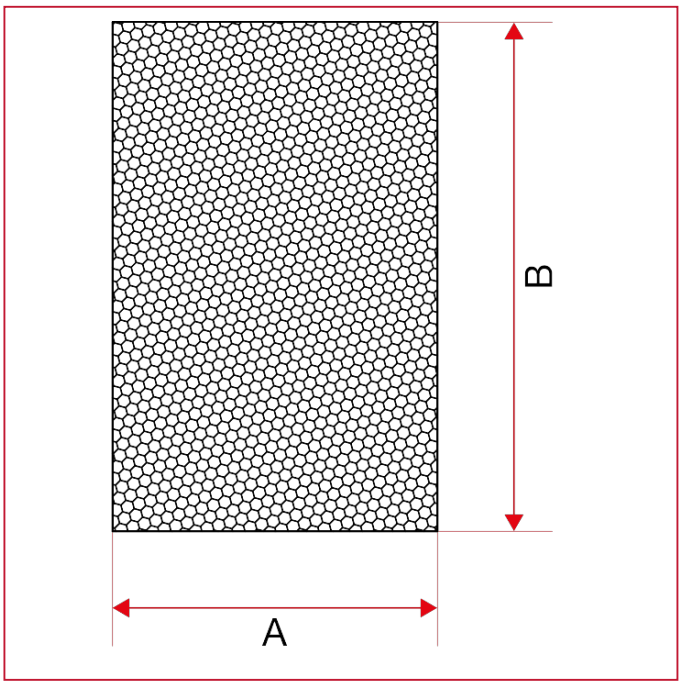
Filtration degree: 1/4” through 2” 200µm

MEASURE	CODE	PACKING	FILTER
1/4" (DN 8)	192CA014A	1/0	192A - 1/4“
1/4" (DN 8)	192CA014A	1/0	192A - 3/8“
1/4" (DN 8)	192CA014A	1/0	192A - 1/2“
3/4" (DN 20)	192CA034A	1/0	192A - 3/4“
1" (DN 25)	192CA100A	1/0	192A - 1“
1"1/4 (DN 32)	192CA114A	1/0	192A - 1“1/4
1"1/2 (DN 40)	192CA112A	1/0	192A - 1“1/2
2" (DN 50)	192CA200A	1/0	192A - 2“

TECHNICAL SPECIFICATIONS

Available filtration degrees:
- 1/4” through 2” 500µm or 200µm;
- 2”1/2, 3”, 4” 800µm.

OVERALL DIMENSIONS

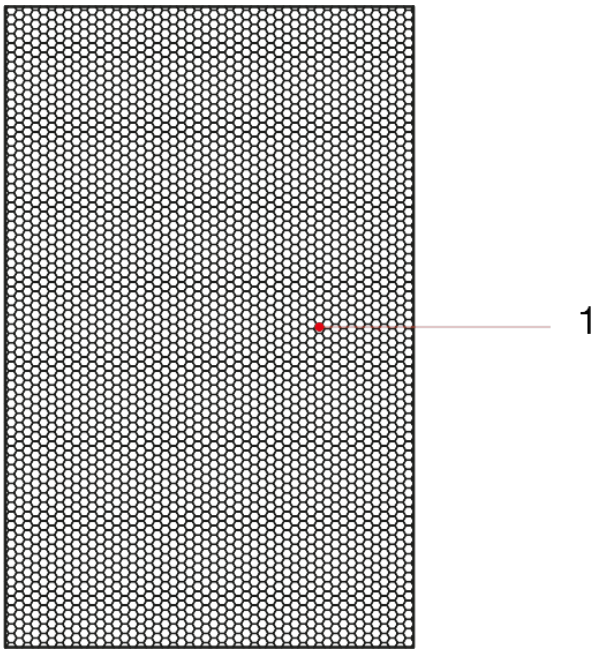


	1/4"	3/4"	1"	1"1/4	1"1/2	2"	2"1/2	3"	4"
DN	8	20	25	32	40	50	65	80	100
A	18	24	30	36	42	53	63	74	102
B	32	41	47	50	57	70	83,5	89,5	129,5

192CAA

	1/4"	3/4"	1"	1"1/4	1"1/2	2"
DN	8	20	25	32	40	50
A	18	24	30	36	42	53
B	32	41	47	50	57	70

MATERIALS



POS.	DESCRIPTION	N.	MATERIAL
1	Cartridge	1	Stainless steel AISI 304

193 Nickel-plated Y strainer

Suitable for domestic water services, heating and air-conditioning plants, compressed air systems.

193

Filtration degree: 500µm.

MEASURE	PRESSURE	CODE	PACKING
1/4" (DN 8)	20bar/290psi	1930014	20/160
3/8" (DN 10)	20bar/290psi	1930038	20/160
1/2" (DN 15)	20bar/290psi	1930012	20/160
3/4" (DN 20)	20bar/290psi	1930034	10/80
1" (DN 25)	20bar/290psi	1930100	7/56
1"1/4 (DN 32)	20bar/290psi	1930114	4/32
1"1/2 (DN 40)	20bar/290psi	1930112	2/18
2" (DN 50)	20bar/290psi	1930200	2/10

193G

Filtration degree: 300µm.

MEASURE	PRESSURE	CODE	PACKING
1/4" (DN 8)	20bar/290psi	1930014G	20/160
3/8" (DN 10)	20bar/290psi	1930038G	20/160
1/2" (DN 15)	20bar/290psi	1930012G	20/160
3/4" (DN 20)	20bar/290psi	1930034G	10/80
1" (DN 25)	20bar/290psi	1930100G	7/56
1"1/4 (DN 32)	20bar/290psi	1930114G	4/32
1"1/2 (DN 40)	20bar/290psi	1930112G	2/18
2" (DN 50)	20bar/290psi	1930200G	2/10

193GAS

Filtration degree: 50µm.

MEASURE	PRESSURE	CODE	PACKING
1/4" (DN 8)	20bar/290psi	1930014GAS	20/160
3/8" (DN 10)	20bar/290psi	1930038GAS	20/160
1/2" (DN 15)	20bar/290psi	1930012GAS	20/160
3/4" (DN 20)	20bar/290psi	1930034GAS	10/80
1" (DN 25)	20bar/290psi	1930100GAS	7/56
1"1/4 (DN 32)	20bar/290psi	1930114GAS	4/32
1"1/2 (DN 40)	20bar/290psi	1930112GAS	2/18
2" (DN 50)	20bar/290psi	1930200GAS	2/10

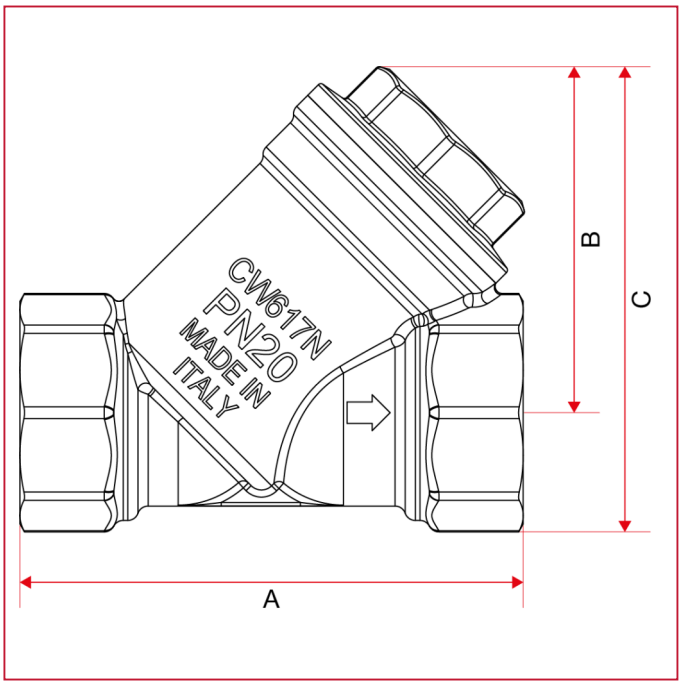
CERTIFICATIONS

TECHNICAL SPECIFICATIONS

Female/female threads and inspection plug.
Body in nickel-plated brass.

Minimum and maximum working temperatures: -20°C, 110°C in absence of steam.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

OVERALL DIMENSIONS



	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
DN	8	10	15	20	25	32	40	50
A	55	55	58	70	87	96	106	126
B	40	40	40	48	56	64	73	88,5
C	49,4	51	53	65	76	88	100	122
Kg/cm2 bar	20	20	20	20	20	20	20	20
LBS - psi	290	290	290	290	290	290	290	290

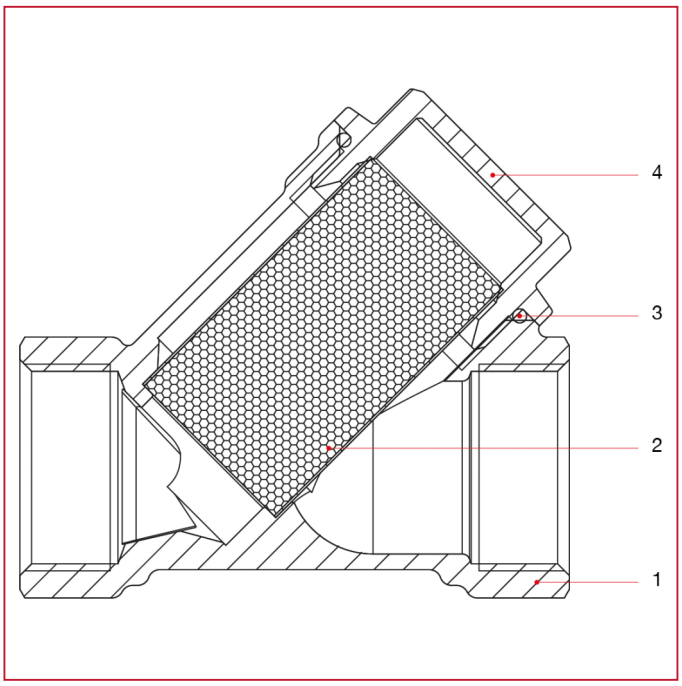
193G

	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
DN	8	10	15	20	25	32	40	50
A	55	55	58	70	87	96	106	126
B	40	40	40	48	56	64	73	88,5
C	49,4	51	53	65	76	88	100	122
Kg/cm2 bar	20	20	20	20	20	20	20	20
LBS - psi	290	290	290	290	290	290	290	290

193GAS

	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
DN	8	10	15	20	25	32	40	50
A	55	55	58	70	87	96	106	126
B	40	40	40	48	56	64	73	88,5
C	49,4	51	53	65	76	88	100	122
Kg/cm2 bar	20	20	20	20	20	20	20	20
LBS - psi	290	290	290	290	290	290	290	290

MATERIALS



POS.	DESCRIPTION	N.	MATERIAL
1	Body	1	Nickel-plated brass CW617N
2	Strainer	1	Stainless steel AISI 304
3	O-ring	1	NBR
4	End adapter	1	Nickel-plated brass CW617N

INSTRUCTIONS FOR INSTALLATION, MAINTENANCE AND USE - Y Strainer

INSTALLATION

The Y strainer with metal mesh was designed to prevent solid impurities from entering pipes where they can build up and thus reduce the flow, resulting in greater head losses and oxidation-related problems.
The strainer must be installed upstream of all the system components that can get damaged or lose efficiency due to the presence of impurities.
It is advisable to install shut-off valves both upstream and downstream of the strainer, to facilitate the latter's maintenance.
The filter is normally installed on the inlet to the water supply line before the check valves and the pressure reducers.
For improved filtering efficiency and trapping of solid impurities, the filter body should be installed on horizontal pipes with the cap facing downwards.

For the installation normal hydraulic practices must be used, and especially:
- ones have to be sure that the two pipes are correctly aligned;
- if the fluid contains impurities (dirt, dust, excessive water hardness), these must be removed or filtered out. The hydraulic circuit must be clean;
- when making the plumbing connections, be careful to avoid excessive mechanical stress on the threading and/or fittings in general: over time these may break and cause leakages, which may damage objects and/or harm people;
- it is forbidden to use the device for any purpose other than its intended use;
- if the device is coupled with other components of the system, this must be done by taking into account the operating characteristics of both: incorrect coupling could jeopardise the operation of the device and/or system;
- make sure that the fluid flows in the direction of the arrow printed on the valve body.

DISASSEMBLY

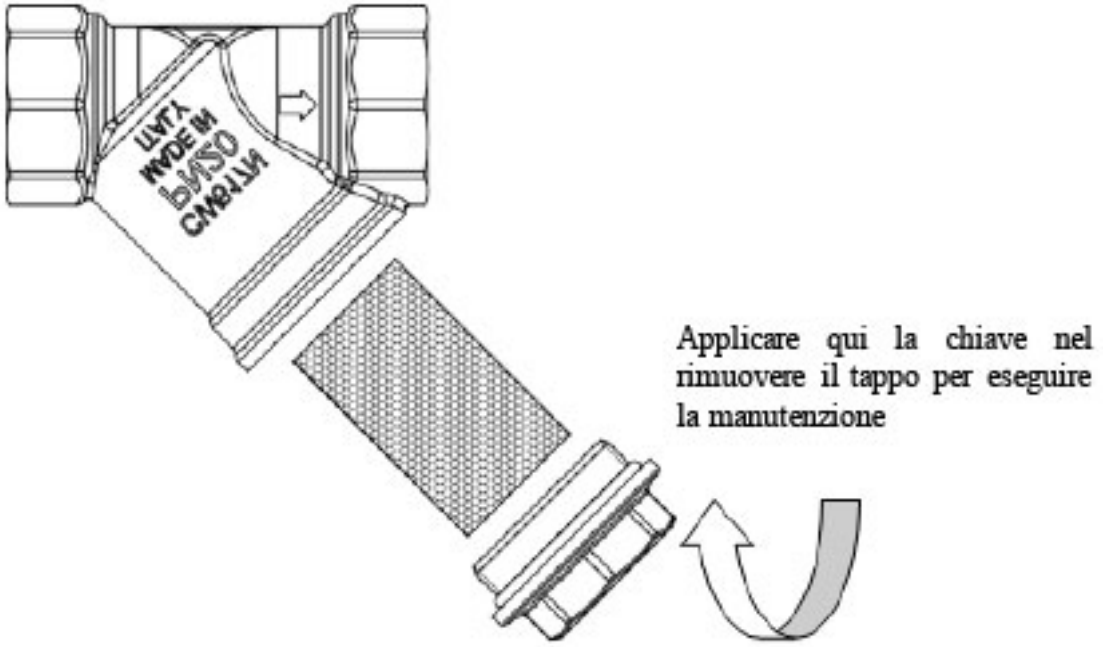
To deinstall the devices from the line or, nonetheless, before unscrewing the couplings connected to them:
- wear the protective clothing normally required for working with the fluid contained in the line;
- depressurizze the line and operate in this way:
- during dismantling, apply the spanner to the end of the filter nearest to the pipe;

MAINTENANCE

Impurity collectors require regular maintenance for cleaning the stainless steel filtering element and eliminating any impurities deposited inside the cap.
To perform these operations:
- carefully unscrew the blind cap;
- extract the stainless steel filter and clean it with water or compressed air;
- mount it back on by slotting it into the relevant cap housing for optimal positioning, taking care to ensure that the seal and/or O-ring between the body and the cap are properly positioned.

WARNINGS

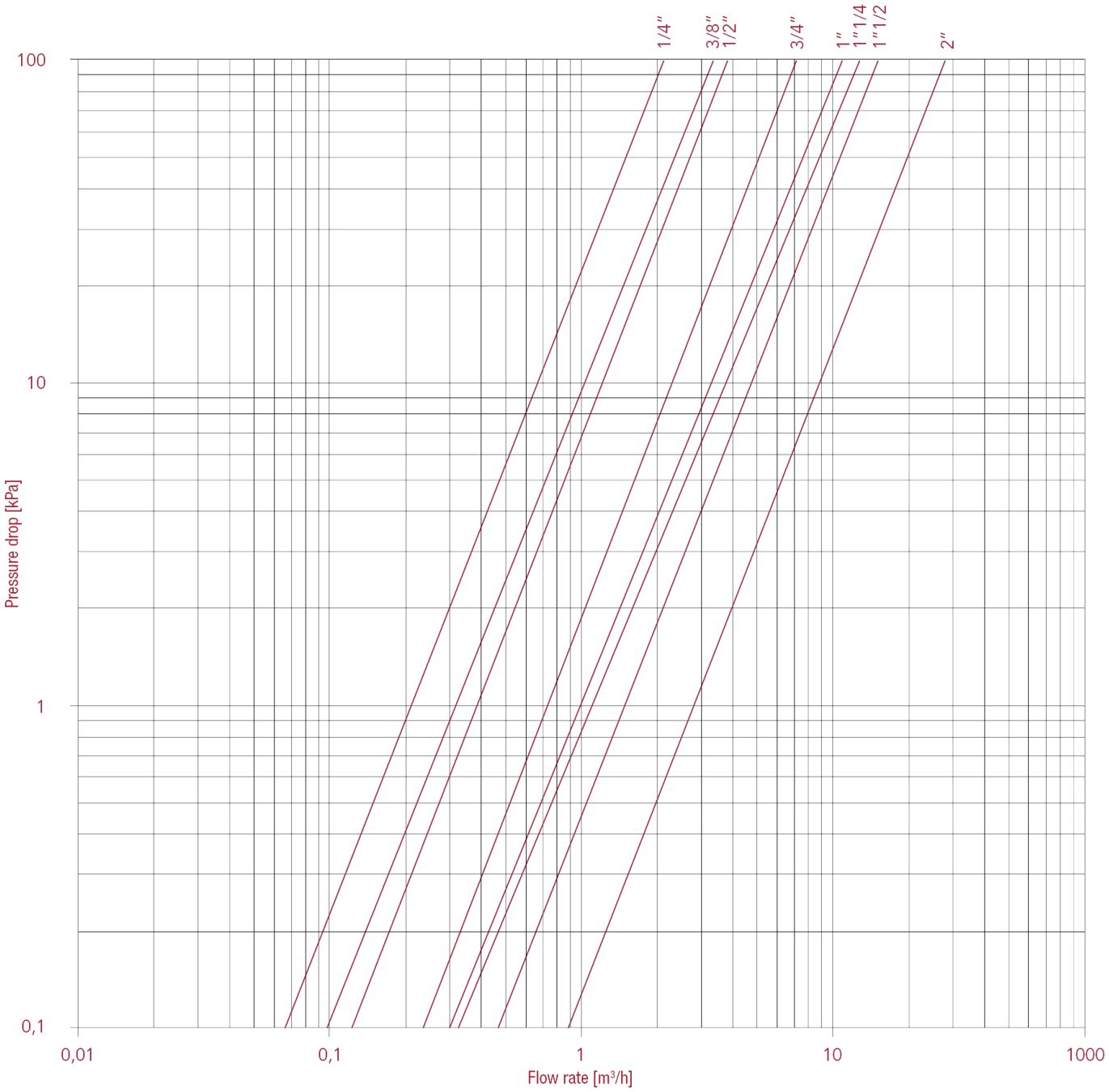
- 1 flow manifold in nickel-plated brass with flow meter
- all installations should be performed in accordance with existing local installation regulations and codes of practice where they exist;
- it is mandatory to follow the instructions supplied by the filter manufacturer and by the plant manufacturer, including those specifying how to properly position the filter connection.


Applicare qui la chiave nel rimuovere il tappo per eseguire la manutenzione

LOSS DIAGRAM (With water), with 500µm filtration degree

193

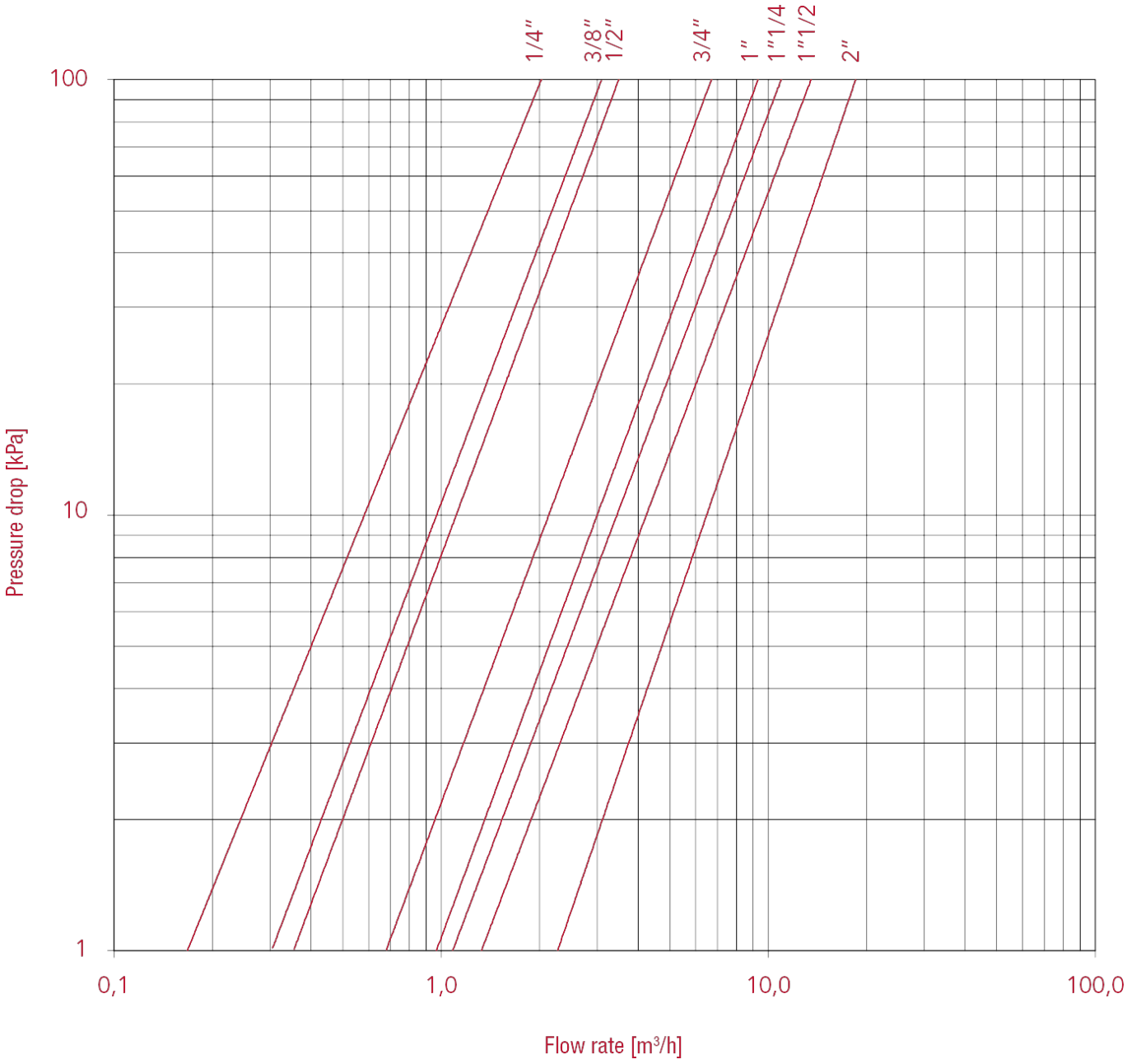
	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
KV	2,20	3,40	3,80	7,20	11	13	15	28



LOSS DIAGRAM (With water), with 300µm filtration degree

193G

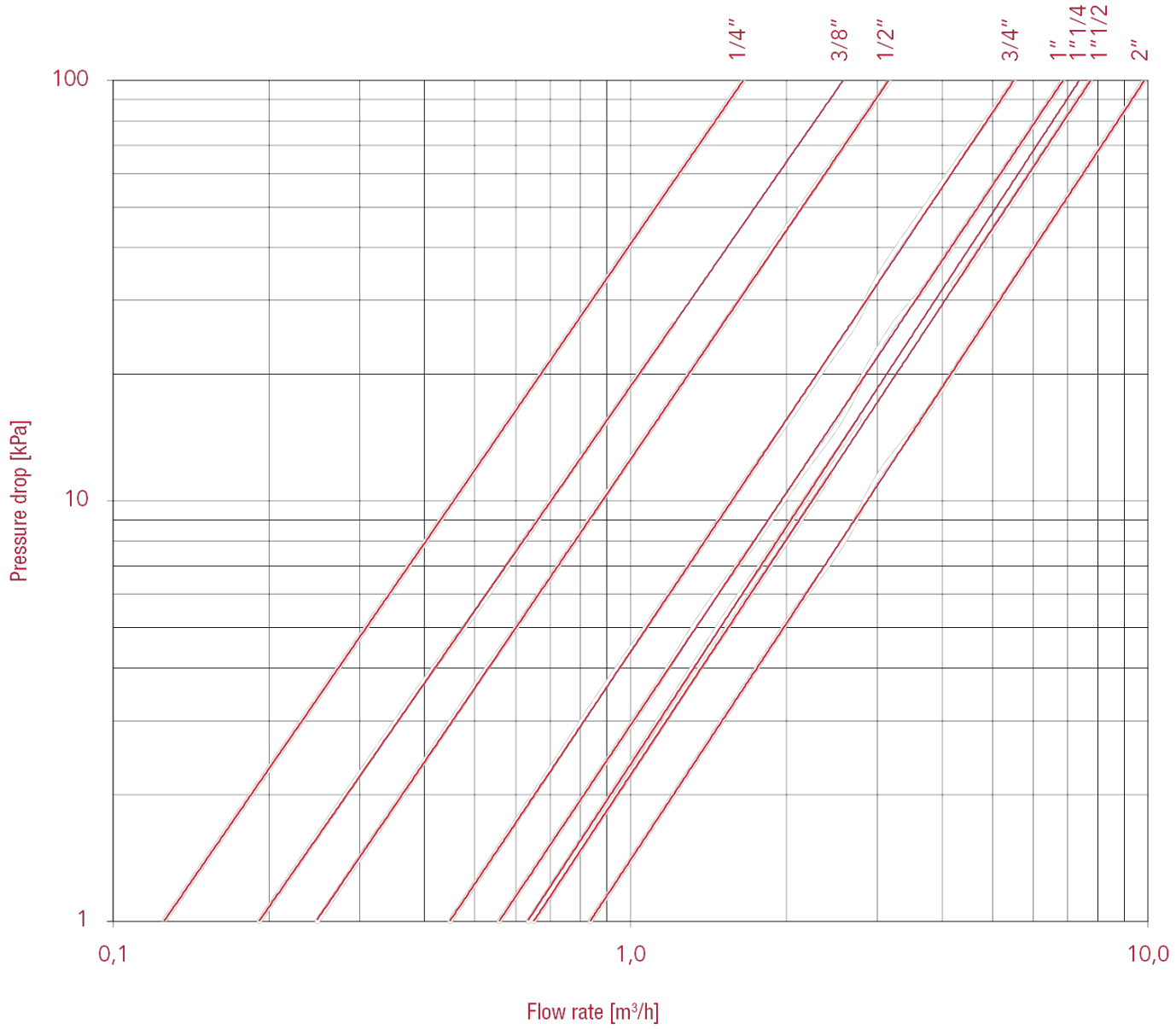
	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
KV	2,10	3,10	3,50	6,70	9,30	11,00	13,50	18,50



LOSS DIAGRAM (With water), with 50µm filtration degree

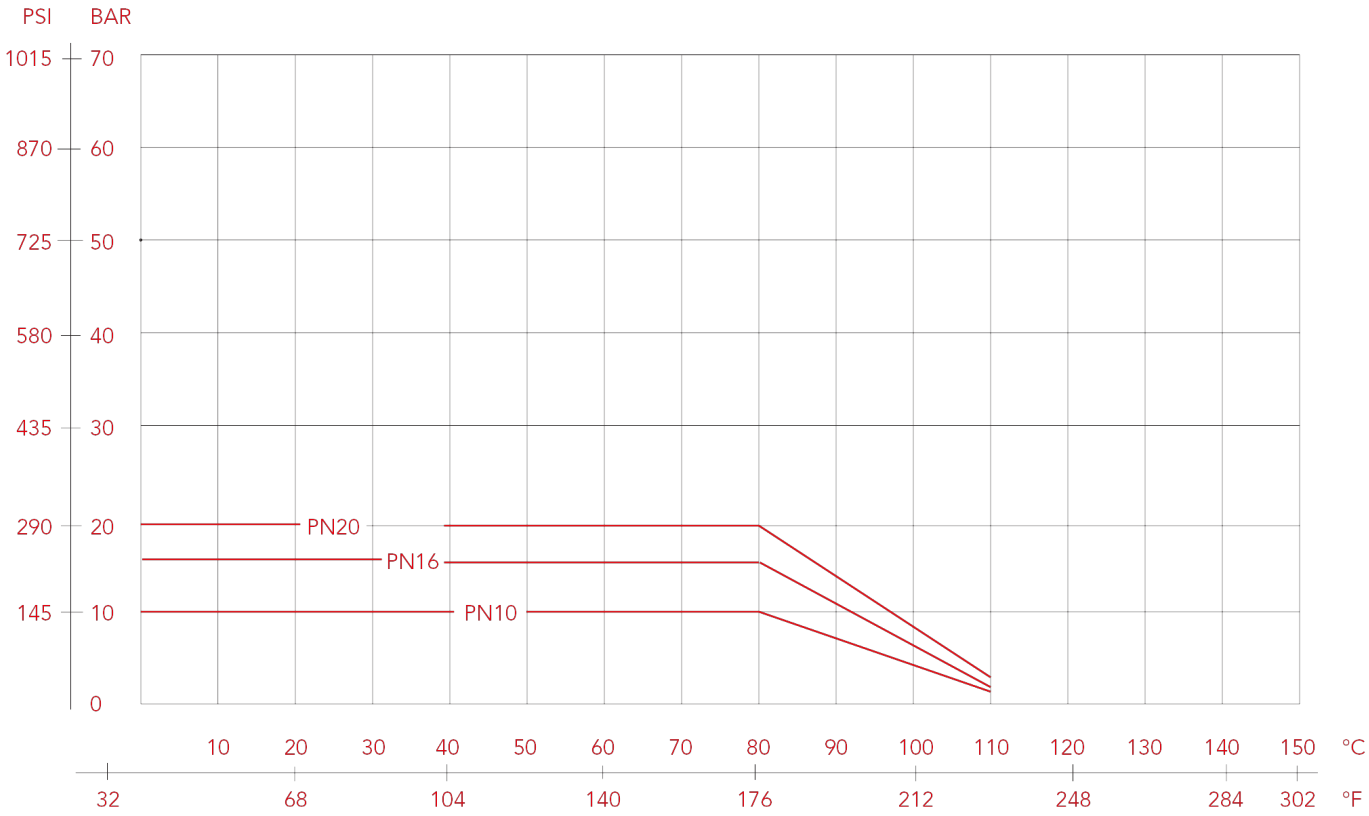
193GAS

	1/4"	3/8"	1/2"	3/4"	1"	1"1/4	1"1/2	2"
KV	1,70	2,60	3,20	5,50	6,80	7,30	7,80	9,80



PRESSURE-TEMPERATURE DIAGRAM

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



192CA Cartridge for Y strainer 193

192CA

Filtration degree: 500µm.

MEASURE	CODE	PACKING	FILTER
1/4" (DN 8)	192CA014	1/0	193 - 1/4“
1/4" (DN 8)	192CA014	1/0	193 - 3/8“
1/4" (DN 8)	192CA014	1/0	193 - 1/2“
3/4" (DN 20)	192CA034	1/0	193 - 3/4“
1" (DN 25)	192CA100	1/0	193 - 1“
1"1/4 (DN 32)	192CA114	1/0	193 - 1“1/4
1"1/2 (DN 40)	192CA112	1/0	193 - 1“1/2
2" (DN 50)	192CA200	1/0	193 - 2“

192CAG

Filtration degree: 300µm.

MEASURE	CODE	PACKING	FILTER
1/4" (DN 8)	192CA014G	1/0	193G - 1/4“
1/4" (DN 8)	192CA014G	1/0	193G - 3/8“
1/4" (DN 8)	192CA014G	1/0	193G - 1/2“
3/4" (DN 20)	192CA034G	1/0	193G - 3/4“
1" (DN 25)	192CA100G	1/0	193G - 1“
1"1/4 (DN 32)	192CA114G	1/0	193G - 1“1/4
1"1/2 (DN 40)	192CA112G	1/0	193G - 1“1/2
2" (DN 50)	192CA200G	1/0	193G - 2“

192CAGAS

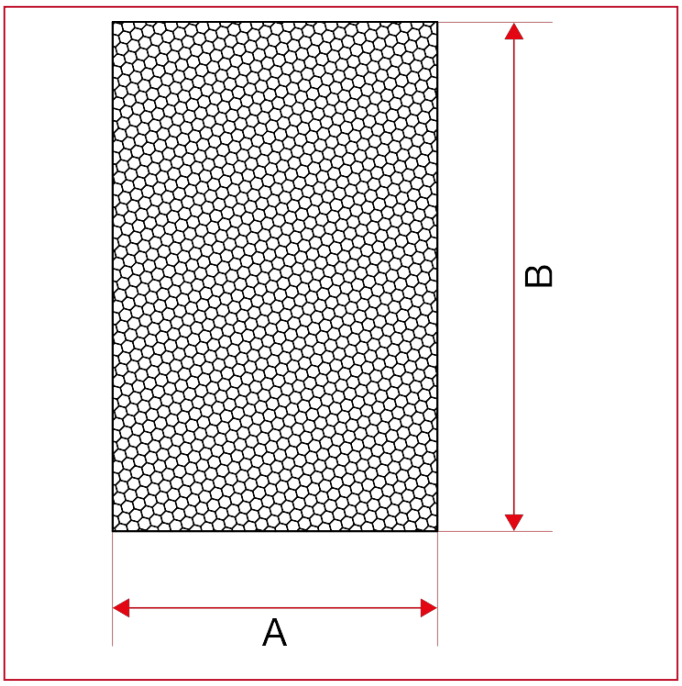
Filtration degree: 50µm.

MEASURE	CODE	PACKING	FILTER
1/4" (DN 8)	192CA014GAS	1/0	193GAS - 1/4“
1/4" (DN 8)	192CA014GAS	1/0	193GAS - 3/8“
1/4" (DN 8)	192CA014GAS	1/0	193GAS - 1/2“
3/4" (DN 20)	192CA034GAS	1/0	193GAS - 3/4“
1" (DN 25)	192CA100GAS	1/0	193GAS - 1“
1"1/4 (DN 32)	192CA114GAS	1/0	193GAS - 1“1/4
1"1/2 (DN 40)	192CA112GAS	1/0	193GAS - 1“1/2
2" (DN 50)	192CA200GAS	1/0	193GAS - 2“

TECHNICAL SPECIFICATIONS

Available in 3 filtration degrees: 500µm, 300µm, 50µm.

OVERALL DIMENSIONS



	1/4"	3/4"	1"	1"1/4	1"1/2	2"
DN	8	20	25	32	40	50
A	18	24	30	36	42	53
B	32	41	47	50	57	70

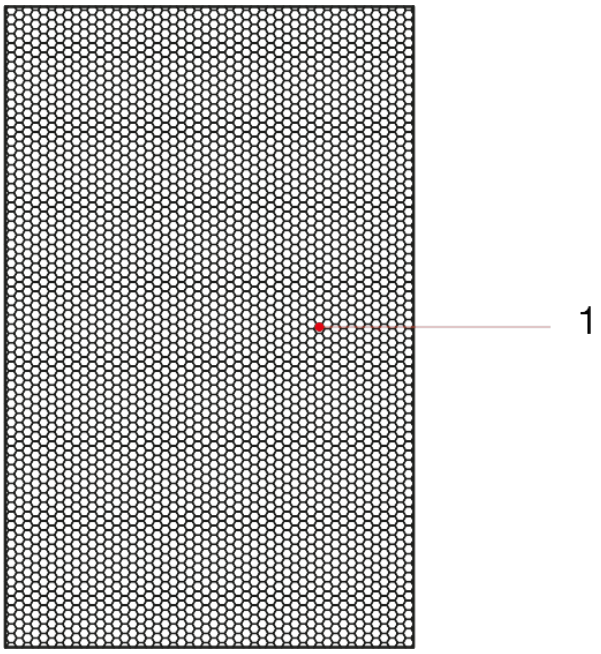
192CAG

	1/4"	3/4"	1"	1"1/4	1"1/2	2"
DN	8	20	25	32	40	50
A	18	24	30	36	42	53
B	32	41	47	50	57	70

192CAGAS

	1/4"	3/4"	1"	1"1/4	1"1/2	2"
DN	8	20	25	32	40	50
A	18	24	30	36	42	53
B	32	41	47	50	57	70

MATERIALS



POS.	DESCRIPTION	N.	MATERIAL
1	Cartridge	1	Stainless steel AISI 304

189 Self-cleaning strainer

Suitable for domestic water services, heating, air-conditioning plants.
Supplied with an extractable straining cartridge, double pressure gauge and hose cock to dump the impurities.

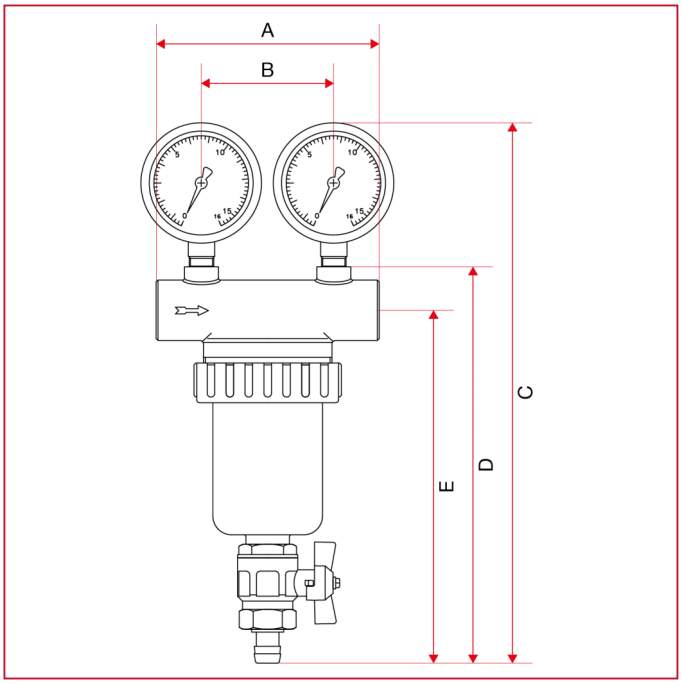
MEASURE	PRESSURE	CODE	PACKING
1/2" (DN 15)	16bar/232psi	1890012	1/6
3/4" (DN 20)	16bar/232psi	1890034	1/6
1" (DN 25)	16bar/232psi	1890100	1/4
1"1/4 (DN 32)	16bar/232psi	1890114	1/4
1"1/2 (DN 40)	16bar/232psi	1890112	1/4
2" (DN 50)	16bar/232psi	1890200	1/4

CERTIFICATIONS

TECHNICAL SPECIFICATIONS

Body in nickel-plated brass.
Minimum and maximum working temperatures: 0°C, 100°C in absence of steam.
Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).
Filtration degree: 300µm.

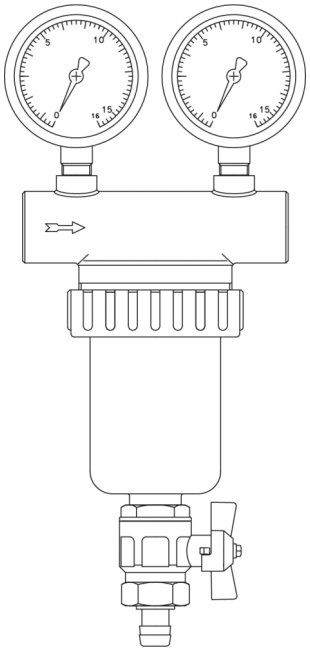
OVERALL DIMENSIONS



STRAINERS

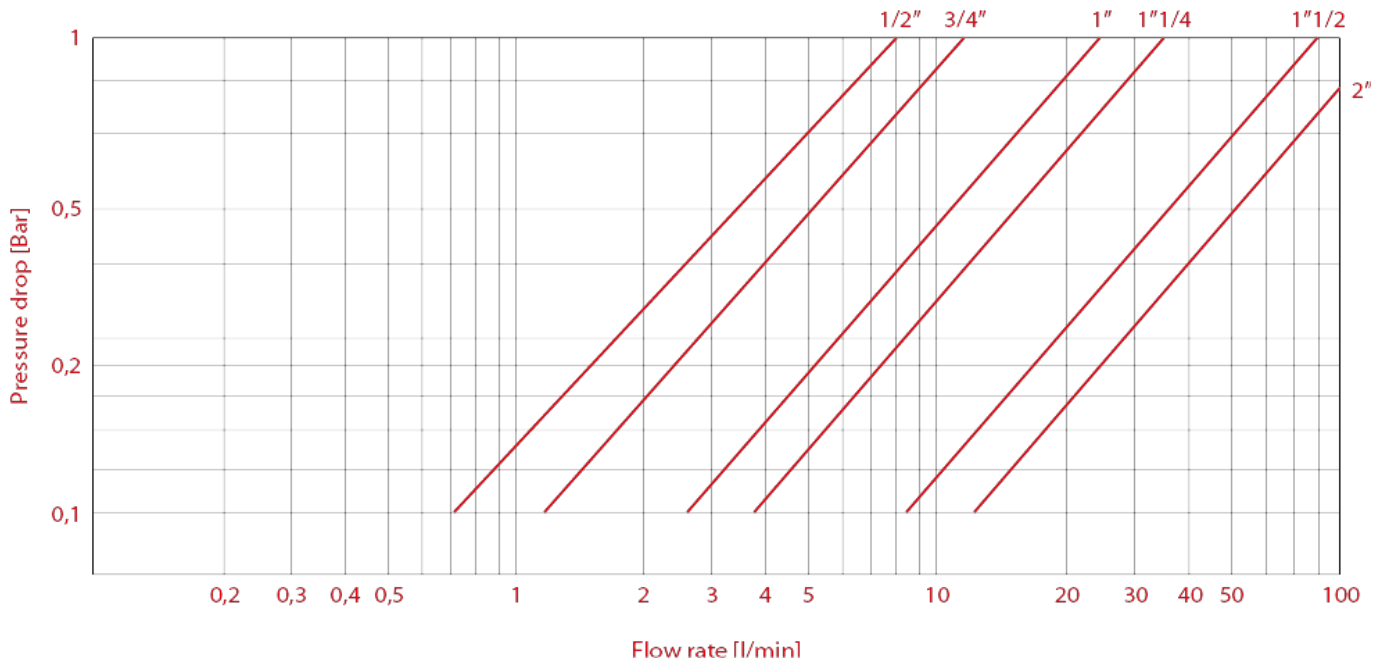
	1/2"	3/4"	1"	1"1/4	1"1/2	2"
A	118	118	123	123	153	153
B	70	70	72	72	98	98
C	272	272	302	302	342	342
D	208	208	234	234	272	272
E	187	187	202	202	236	236
Kg/cm2 bar	16	16	16	16	16	16
LBS - psi	232	232	232	232	232	232

MATERIALS



POS.	DESCRIPTION	N.	MATERIAL
1	Body	1	Nickel-plated brass CB735S
2	Nut	1	Nickel-plated brass CW617N
3	Cartridge	1	Stainless steel AISI 304
4	Cartridge seats	1	NBR
5	O-ring	1	NBR
6	Plastic parts	1	Ultramid®

LOSS DIAGRAM (With water)



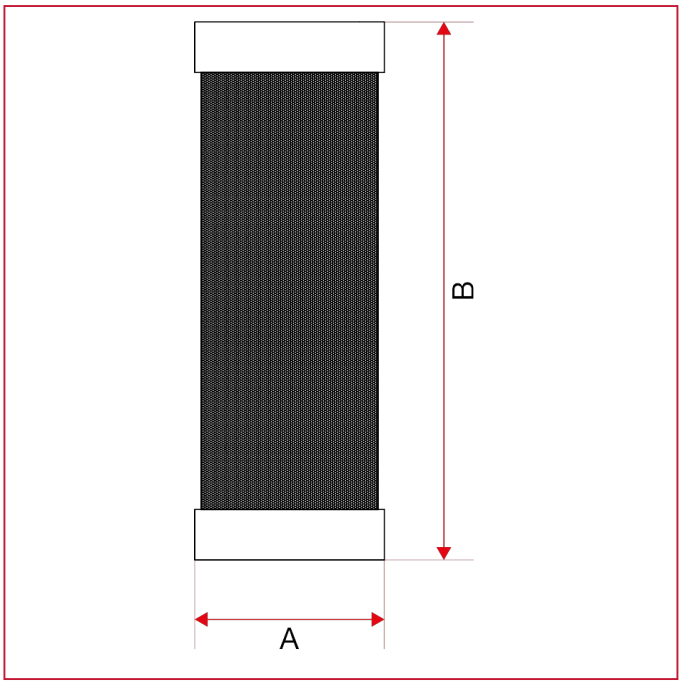
189CA Cartridge for self-cleaning strainer

MEASURE	CODE	PACKING	FILTER
1/2" (DN 15)	189CA012	1/0	1/2" (DN 15)
1/2" (DN 15)	189CA012	1/0	3/4" (DN 20)
1" (DN 25)	189CA100	1/0	1" (DN 25)
1" (DN 25)	189CA100	1/0	1"1/4 (DN 32)
1"1/2 (DN 40)	189CA112	1/0	1"1/2 (DN 40)
1"1/2 (DN 40)	189CA112	1/0	2" (DN 50)

TECHNICAL SPECIFICATIONS

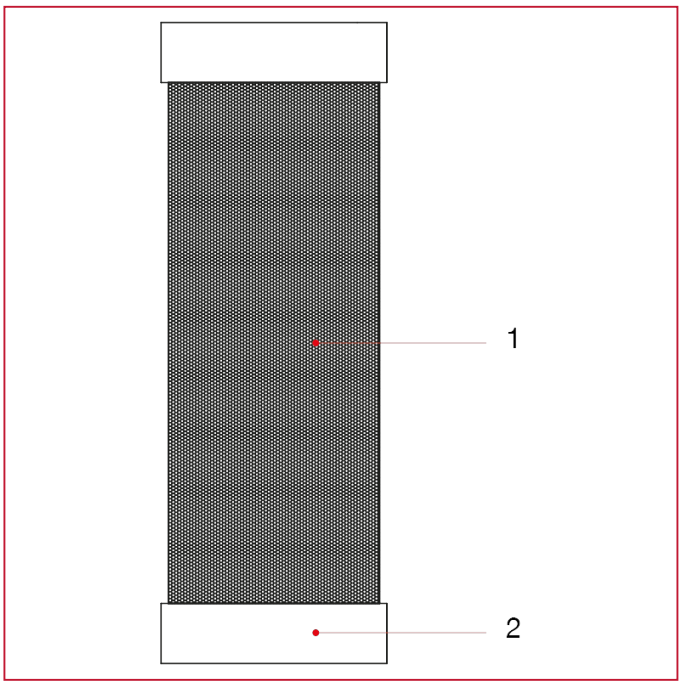
Filtration degree: 300µm.

OVERALL DIMENSIONS



	1/2"	1"	1"1/2
A	34	42	46
B	100	108	128

MATERIALS



POS.	DESCRIPTION	N.	MATERIAL
1	Cartridge	1	Stainless steel AISI 304
2	End ring	2	NBR

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