

## "Y" Type strainer DN40-300



All "Y" type strainer valves offered by SAINT-GOBAIN PAM are designed:

- To protect all downstream installed valves by retaining all debris which could be conveyed by the fluid inside the water distribution pipeline.
- To get the best hydraulic working conditions and also an efficient protection in the water distribution system due to its "Y" body shape and the filtering cartridge position

### Valves range

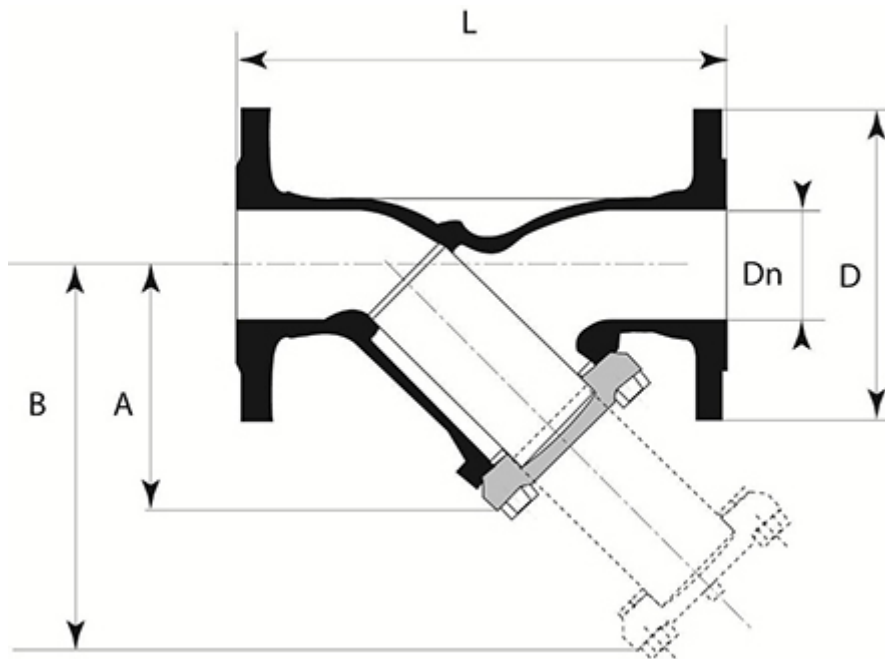
- From DN40 to DN300.
- Designed for a pressure rating of 16 bars.
- Flanges drilling connection in accordance with ( to be stated when ordering ):

\*\* ISO 7005 - 2 table 9 ISO PN16 = BS 4504 section 3.2 table 11 - C2 PN16 = DIN 2501 PN16

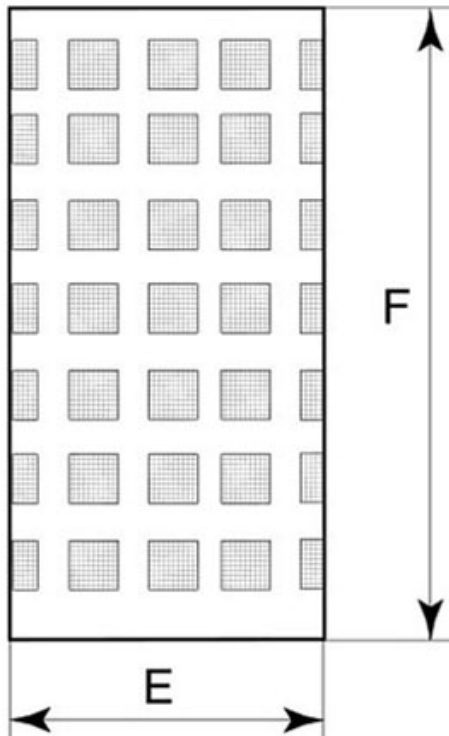
\*\* ISO 7005 - 2 table 8 ISO PN10 = BS 4504 section 3.2 table 10- C2 PN10 = DIN 2501 PN10

DN (mm)	PFA	L (mm)	D (mm)	A (mm)	B (mm)	Mass (kg)	References
40	16 bar	200	150	110	170	6.50	RCA40QACHL
50	16 bar	230	165	120	190	8.50	RCA50QACHL
65	16 bar	290	185	140	220	12.00	RCA65QACHL
80	16 bar	310	200	165	265	17.00	RCA80QACHL
100	16 bar	350	220	220	340	25.00	RCB10QACHL
125	16 bar	400	250	260	410	39.00	RCB12QACHL
150	16 bar	480	285	300	475	61.00	RCB15QACHL
200	10 bar	600	340	360	580	106.00	RCB20QABHL
200	16 bar	600	340	360	580	109.00	RCB20QAAHL

DN (mm)	PFA	L (mm)	D (mm)	A (mm)	B (mm)	Mass (kg)	References
250	10 bar	730	395	470	680	137.00	RCB25QABHL
250	16 bar	730	405	470	680	125.00	RCB25QAAHL
300	10 bar	850	445	560	820	187.00	RCB30QABHL
300	16 bar	850	460	560	820	171.00	RCB30QAAHL



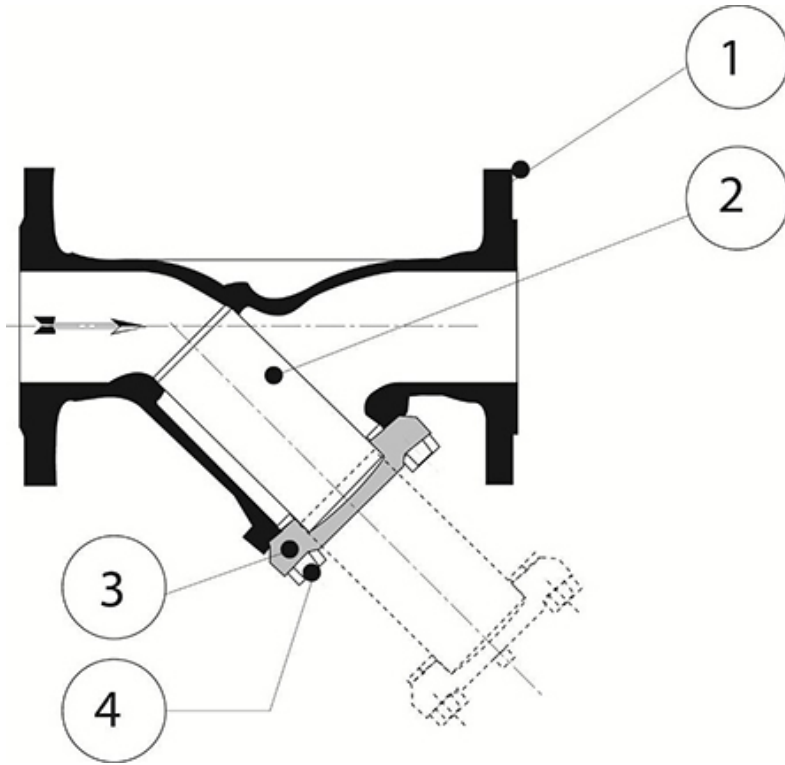
## Filtering Cartridge material



The filtering element is a meshed screen of size 2 mm, supported inside of a 1 mm thickness cylindrical metal sheet of with square aperture area of section 10mm $\times$ 10mm.

DN	E	F
mm	mm	mm
40	47	91
50	57	105
65	73	123
80	88	144
100	108	184
125	135	221
150	160	260
200	208	335
250	231	360
300	281	390

## Material and coatings



Item	Description	Material	Coating
1	Body	Cast iron FGL 250	Epoxy 250 microns
2	Filtering element	Inox 1-4301	
3	Lid fitted with a drain plug of size ½ inch	Cast iron FGL 250	Epoxy 250 microns
4	Screws and bolts		Inox A2

## Hydraulic characteristics

Headloss calculation

With “Kv” flow coefficient it is possible to determinate the headloss inside the filter by application of the hereunder stated formula:

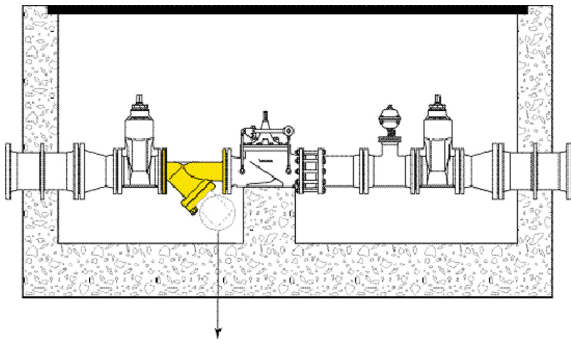
$$\Delta P = \frac{Q^2}{Kv^2}$$

with  $\Delta P$  = headloss in bar, Q = flow rate in m<sup>3</sup>/hour, Kv = flow coefficient in m<sup>3</sup>/hour

Headloss with a new filter

DN	40	45	65	80	100	125	150	200	250	300
Kv	44	56	89	127	200	332	494	675	1260	1735

## Installation, maintenance



- The double flanged “Y” type strainer valve must be installed on the upstream side of the valve to be protected.
- When valve installing instructions:
  - On valve body an arrow indicating the water way circulation. Inside the filtering Cartridge.
  - The filtering cartridge must be placed at the bottom position for cleaning and drainage

### Typical installation of “Y” Type Strainer Valve

Attention : prévoir le dégagement de la cartouche filtrante

### Maintenance

The filtering Cartridge must be regularly inspected and cleaned.

After each repairable damage on the main, systematically it must be inspected and cleaned out of all debris. Take care when pipeline washing operation does not damage the filter cartridge.

After the filtering cartridge removal and in order to get a perfectly compression of the sealing gasket between the valve body and the lid, it is recommended to screw on bolting one to one opposite side .

The filtering cartridge and its sealing gasket are such as spare parts supply.

*The information on this sketch is, to the best of our knowledge correct at the time of printing. However Saint-Gobain are constantly looking at ways of improving their products and services therefore reserve the right to change without prior notice, any of the data shown. Any orders placed will be subject to our Standard Conditions of Sale, available on request.*