



CSA high capacity horizontal strainer Mod. Fortix

The CSA strainer is used when effective filtration is required. Thanks to the needle shape body and compact design, maintenance is fast and easy and requires only top cover removal. The shape and flat stainless steel strainer mesh perpendicular to flow optimizes pressure drop compared to the majority of similar solutions to the market. The strainer may be installed in any position, however installation with the cover on top side is recommended.



Technical features and benefits

- Flanged version DN 50-300 mm.
- Compact version to allow installation with reduced space and directly on the ground.
- Ductile cast iron for body and cap, mesh and drainage valve in stainless.
- Innovative self cleaning filtration with reinforced support to avoid mesh deformations.
- Innovative body needle shape design for reduction of noise and high Kv.
- Equipped with drainage at the bottom of the filtration part to facilitate the maintenance.
- Large expansion chamber to reduce noise and to provide an excellent resistance to cavitation and low headloss.
- Epoxy powder applied using FBT technology.

Applications

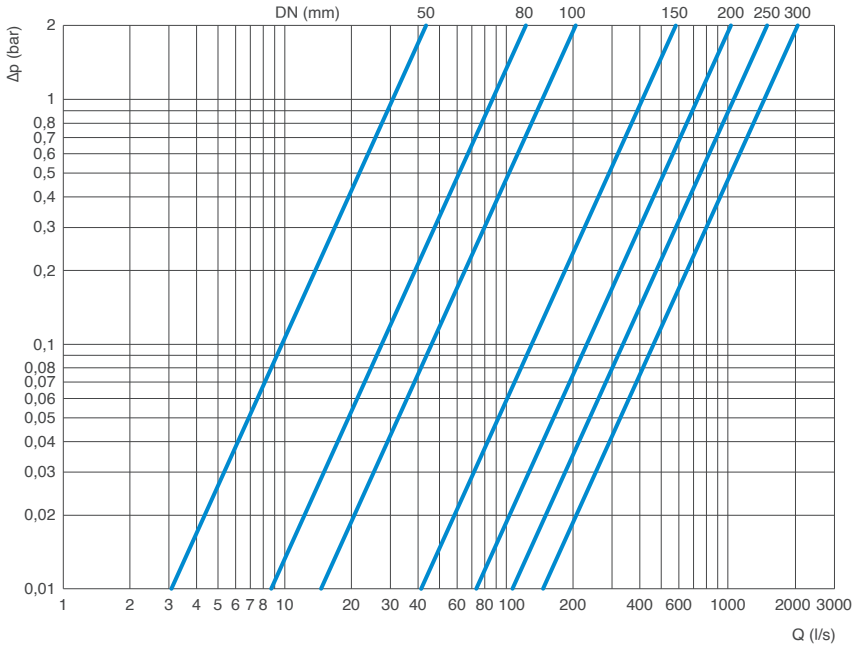
- Water distribution systems.
- Buildings and civil installations.
- Irrigations.
- Cooling systems.
- In general whenever the pressure reduction has to be ensured.

Technical data

DN mm	50	80	100	150	200	250	300
Kv (m ³ /h)/bar	112	310	565	1482	2634	4109	5722

Head loss coefficient

Kv coefficient representing the flow rate which is flowing through the valve fully open, and producing a head loss of 1 bar.



Head loss chart

The chart indicates the head loss of CSA Fortix filter fully open versus flow rate in l/s.

Working conditions

Treated water with a maximum temperature of 70°C.
Upstream pressure (inlet): maximum 25 bar.

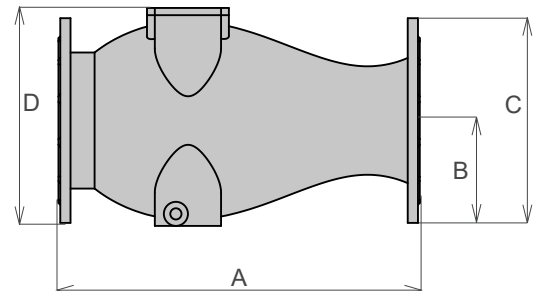
Standard

Certified and tested in compliance with EN 1074/5.
Flanges according to EN 1092/2- ANSI 150 others on request Epoxy painting applied through fluidized bed technology blue RAL 5005. Changes on flanges and painting on request.

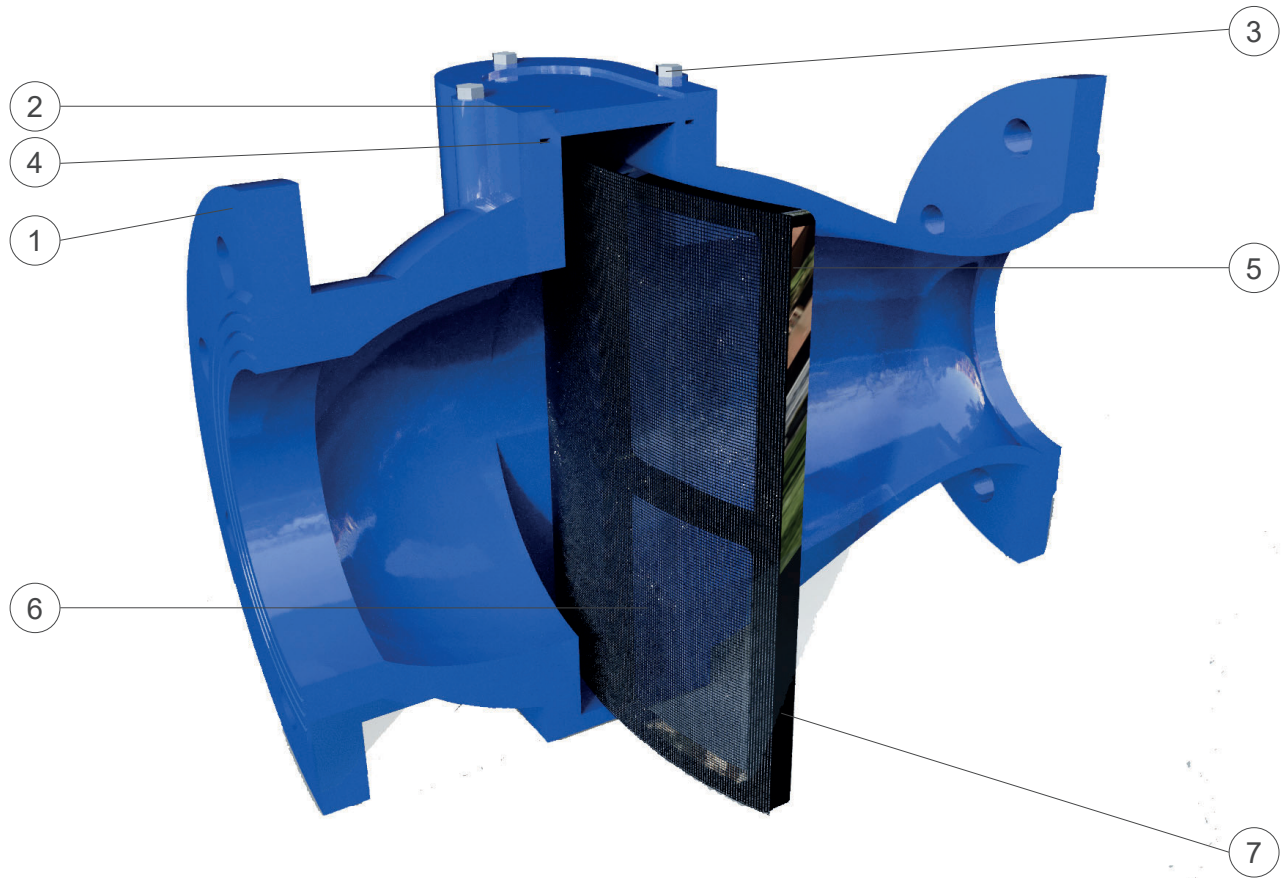
Weights and dimensions

DN (mm)	50	80	100	150	200	250	300
A (mm)	230	310	350	480	600	730	850
B (mm)	82,8	100	110	150	170	212,25	242,5
C (mm)	165	200	220	300	340	425	485
D (mm)	170,5	216	222	322	362	427	497
Weight (Kg)	12	22	32	72	104	206	285

Values are approximate, consult CSA service for more details.



Technical details



N.	Component	Standard material	Optional
1	Body	ductile cast iron GJS 450-10	
2	Cap	ductile cast iron GJS 450-10	
3	Nuts	stainless steel AISI 304	stainless steel AISI 316
4	Gasket	EPDM	
5	Support	ductile cast iron GJS 450-10	
6	Mesh	stainless steel AISI 304	
7	Taps for drainage	stainless steel AISI 316	

The list of materials and components is subject to changes without notice.

Installation layout

The installation layout shows an example of CSA Fortix filter with a standard prv chamber lay-out, featuring a CSA pilot operated control valve XLC 310/410, non slam csa air valves FOX 3F RFP before and after the prv. The pictures also shows a CSA pressure relief valve VSM downstream, to discharge possible increase in pressure and protect the system.



Installation layout

The installation layout shows an example of CSA Fortix filters in a building or indoor, with a standard prv chamber lay-out, featuring a CSA pressure reducing pilot operated control valve CSA Mod. XLC 310/410 on the main line, direct acting PRV CSA Mod. VRCD on the by-pass. On top of the column the five functions non slam csa air valves FOX HR. The pictures also shows a CSA pressure relief valve VSM FF downstream of the PRV valves, to discharge possible increase in pressure and protect the system.

