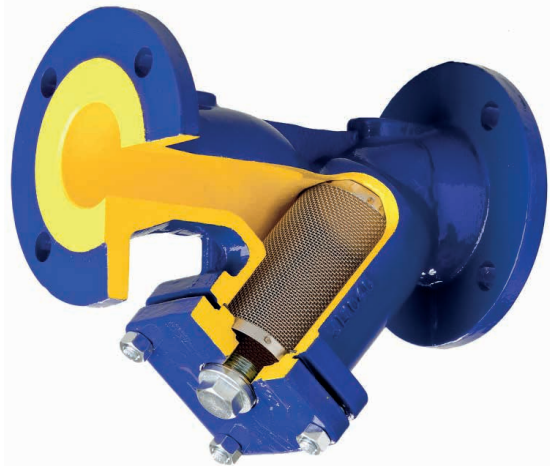


FIVC Y-Strainer

Grey Cast Iron – PN 16



FYS series

Technical data

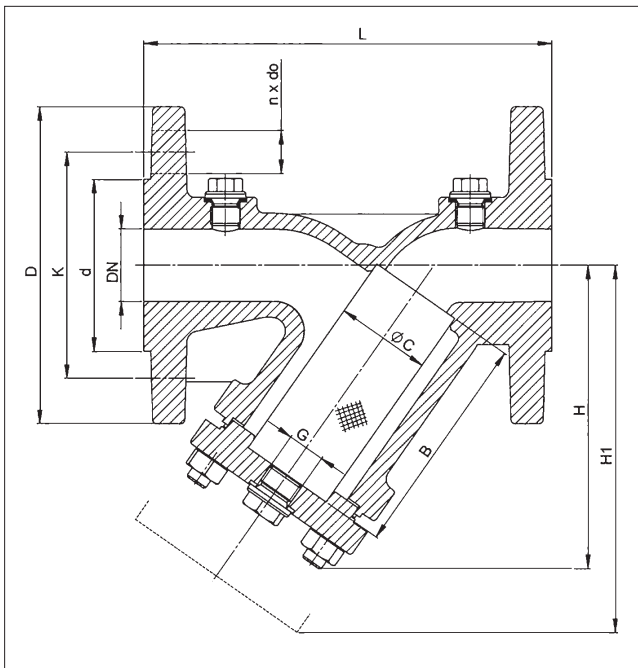
Main features and materials

- Screen made of stainless steel (from DN 65 with reinforced ring - from DN 150 with supporting basket)
- Compact settlement
- Environment-friendly
- Cleaning of screen without disassembling
- Face-to-face dimension according to EN 558 series 1
- Flanges drilled according to EN 1092-2
- Closing tightness according to EN-12266-1
- Mesh 1,25 - 28 mesh/cm² (DN 65 - 80) and mesh 1,6 - 15 mesh/cm² (DN 100 - 200)

Field of applications

- Max. working pressure (PN): 16 bar
- Temperature range: -10 to +300 °C
- Hot and cold water plants
- Steam plants
- Industrial Technologies
- Heat and refrigerating, engineering and air-conditioning

Dimensions



Size	L [mm]	D [mm]	d [mm]	K [mm]	nxdo [mm]	H [mm]	H1 [mm]	G [mm]	C [mm]	B [mm]
65	290	185	118	145	4x19	180	285	1	78,5	134
80	310	200	132	160	8x19	215	330	1	89,5	149
100	350	220	156	180	8x19	240	395	1 1/2	109,5	169
125	400	250	184	210	8x19	280	455	1 1/2	137,5	199
150	480	285	211	240	8x23	330	525	1 1/2	160	224
200	600	340	266	295	12x23	405	650	1 1/2	210	284

Product codes with Kv values and weight

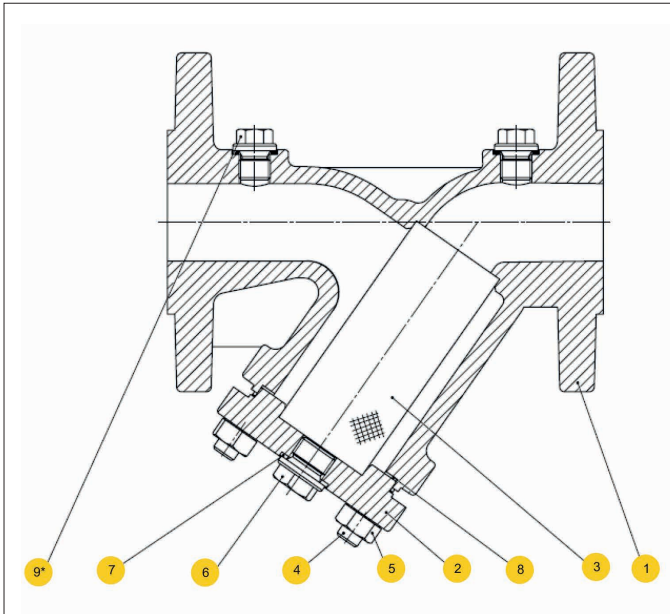
Product code	Size	Kv (M ³ /h)	Weight
FYS065C16	65	98	14,6
FYS080C16	80	149	18,6
FYS100C16	100	234	27
FYS125C16	125	376	38,5
FYS150C16	150	454	54,5
FYS200C16	200	853	110

Cover gasket dimensions

Size	Od	Id
65	102	90
80	122	110
100	135	120
125	170	151
150	195	175
200	270	245

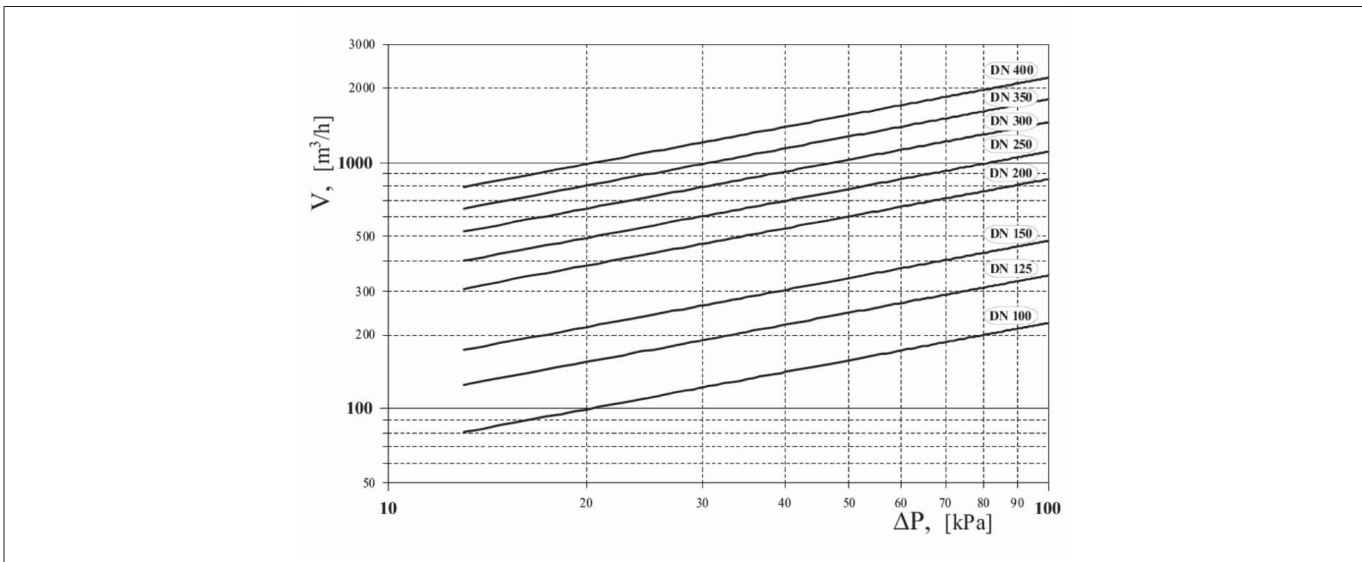
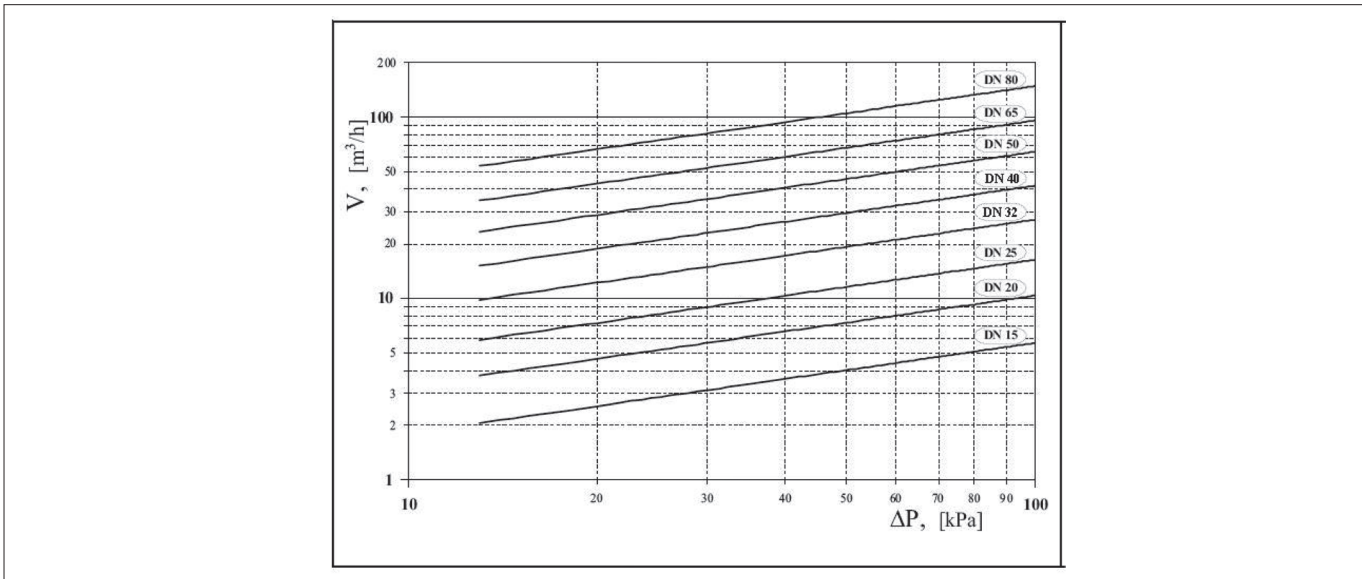
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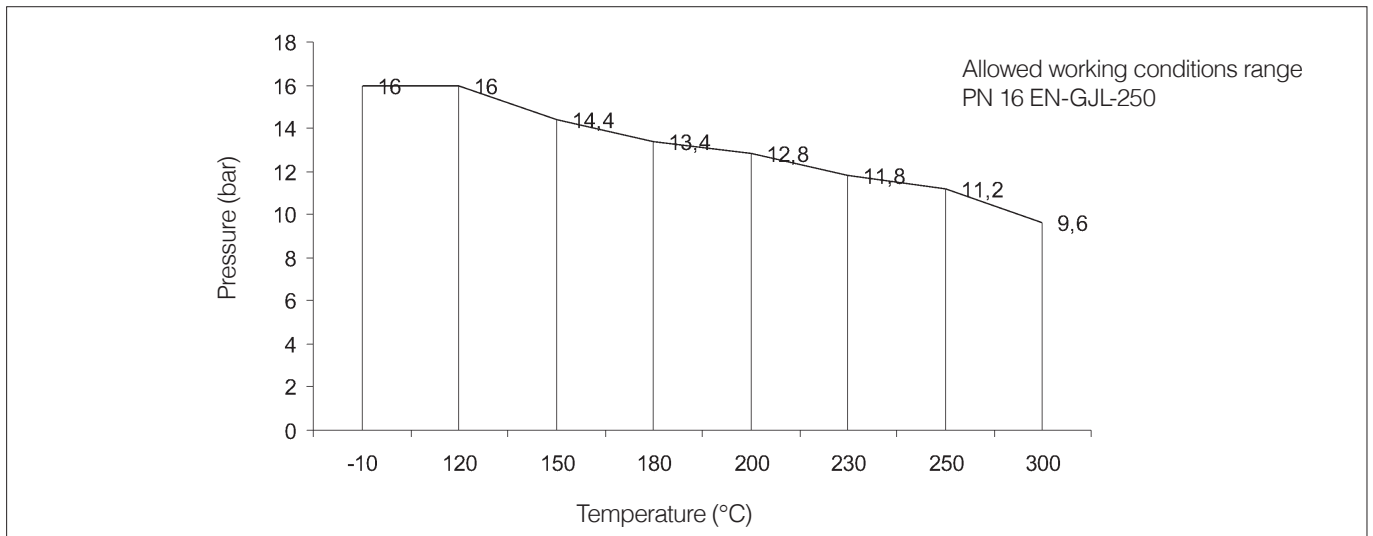
1	Body	EN - GJL-250 JL1040
2	Cover	EN - GJL-250 JL1040
3	Screen	X5CrNi18-10 (1.4301)
3.1	Supporting basket	X5CrNi18-10 (1.4301)
4	Studs	8.8-A2A
5	Hexagon nut	8-A2A
6	Emptying screw	C35E
7	Plug gasket	A4 1.4571
8	Cover gasket	CrNiSt - Graphite
9	Plug gasket	C35E

Hydraulic characteristic



FIVC Y-Strainer Grey Cast Iron – PN 16

Pressure-temperature ratings



Product description

FIVC Y-strainer - filters are provided with casted marking according to requirements of PN-EN19 standard. The marking facilitates technical identification and contains:

- diameter nominal DN (mm)
- pressure nominal PN (bar)
- body and cover material marking
- arrow indicating medium flow direction
- heat number
- CE marking, for valves subjected 97/23/EC directive
- CE marking starts from DN 32

Function

FIVC Y-strainer – wire mesh filters are designed for cleaning flowing medium. Their task is to protect against pollution of the most sensitive plant components such as pumps, control valves, flow and heat meters. Strainer holds solid particles which dimensions exceeds screen mesh. In order to remove magnetic pollutions from the medium it is recommended to use magnetic cartridge located in the centre of filter screen. Please check medium before selecting material.

Strainers were designed for normal working conditions. In the case that working conditions exceed these requirements (for example for aggressive or abrasive medium) user should ask manufacturer before placing an order. Working pressure should be adapted to maximum medium temperature according to the table as below:

According to EN 1092-2 - working temperature

Material	PN	10-120 °C	150 °C	200 °C	250 °C	300 °C
EN-GJL-250	16	16 bar	14,4 bar	12,8 bar	11,2 bar	9,6 bar

Screens

Screen	Type	Size	Mesh	Mesh screen	Performance
Standard	F28	65 - 80	1,25	28	49
Standard	F15	100 - 200	1,6	15	43



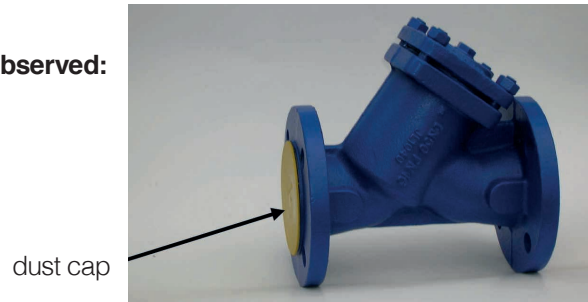
Plant designer is responsible for strainer selection suitable for working conditions.

FIVC Y-Strainer Grey Cast Iron – PN 16

Installation

During the assembly of strainers the following rules should be observed:

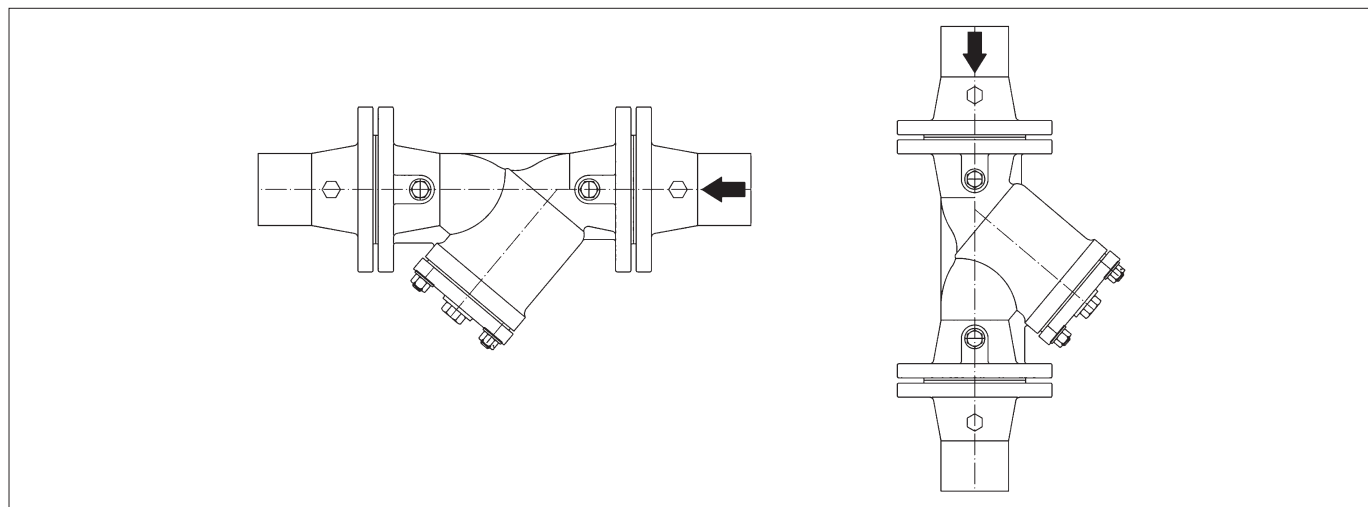
- evaluate before an assembly if the strainers were damaged during the transport or storage
- make sure that applied strainers are suitable for working conditions and medium used in the plant
- take off dust caps if the strainers are provided with them
- check if strainer body is free of solid particles
- steam pipelines should be fitted in such a way to avoid condensate collection
- protect the strainers during welding jobs against splinters and used plastics against excessive temperature
- strainer body throat with a screen must be put downwards in order to prevent pollution return to the pipeline



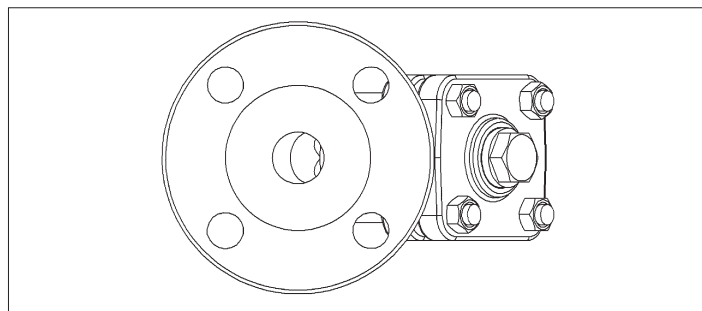
To assemble the strainer in such a way that flow direction comply with an arrow placed on the body.



Pipeline where the strainers are fitted should be conducted and assembled in such a way that the strainer body is not subjected to bending moment and stretching forces. Bolted joints on the pipeline must not cause additional stress resulted from excessive tightening, and fastener materials must comply with working conditions of the plant.



- in the case of water hammer risk caused by condensate formation, strainer body throat should be assembled in horizontal position
- plant designer should ensure enough space to take screen out of strainer body for cleaning
- use expansion pipe joints in order to reduce influence of pipeline thermal expansion
- before plant startup, especially after repairs carried out, flush out the pipeline



When seeking of strainer malfunction reasons safety rules should be strictly obeyed

Reasons of operating disturbances and remedy

Error	Possible reason	Remedy
No flow	Flange dust caps were not removed	Remove dust caps on the flanges
Poor flow	Dirty screen	Clean or replace the screen
	Clogged pipeline	Check the pipeline
Broken connecting flange	Bolts tighten unevenly	Replace the strainer with new one