

V6003

Strainer Valve

Application

The strainer valves in series V6003 are flanged Y filters, with a body made of ductile iron, which are manufactured in accordance with severe product norms. They are a prerequisite for protecting pumps, valves, backflow preventers and pressure reducing valves against dirt (rust, welding parts, solids).

The filters are suitable for heating and cooling (HVAC).

Approvals

- CE
- Face-to-face: EN 558-1 ISO 5752
- Flanges: EN 1092 ISO 7005
- Marking: EN 19
- Testing: 100% testing in accordance with EN 12266

Special Features

- Installation in horizontal and vertical positions
- For HVAC usage
- Corrosion-resistant design
- Removable bonnet for inspection and maintenance
- Plug or mini-valve for complete drainage in both of the installation positions

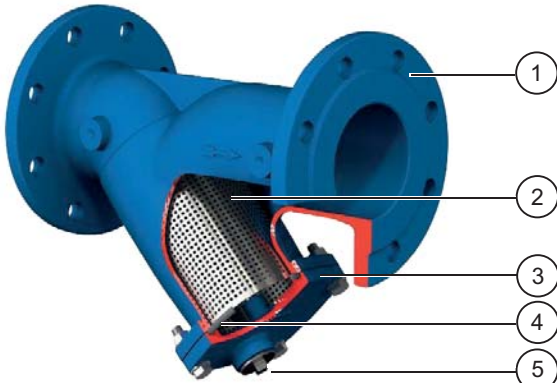


Technical Data

Pressure values	
Nominal static pressure:	PN16
Specifications	
Valve size:	DN32 - DN250
Temperature range:	-10 to 120°C

Note: Not suitable for steam

Construction

Overview		Components	Materials
	1	Body	Ductile iron GJS500-7 Fusion bonded epoxy paint
	2	Strainer	Stainless steel AISI 304
	3	Bonnet	Ductile iron GJS500-7
	4	Bonnet gasket	EPDM
	5	Plug / Mini-valve	Plug Stainless steel AISI 304 Minivalve Brass

Note: Components and accessories made in steel different from stainless steel, even if protected by painting or galvanizing, if used in outdoor environments, in conditions of high humidity / condensation or in aggressive environments, may exhibit a limited protection span against oxidation.

Installation Guidelines

Setup requirements

- Water hammers might cause damage and ruptures. Inclination, twisting and misalignments of the piping may subject the installed valve to excessive stresses. It is recommended that elastic joints be used in order to reduce such effects as much as possible.

Note: These valves are unidirectional: install in accordance with the flow direction arrow indicated on the body.

Installation Example

- Place the valve between the flanges of the pipe and install the seal between the pipe and valve flanges.
- Check that the seals are positioned correctly. The distance between the counter flanges must be equal to the valve's face to face distance
- Do not use the bolts of the counter flanges to bring the piping close to them. The bolts must be cross tightened. Do not weld the flanges to the piping after installing the valve.

Drain

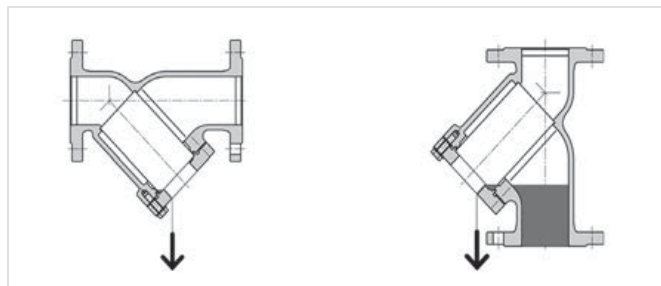


Fig. 1 DN32 – DN250 1 plug

Technical Characteristics

Maximum pressure

Fluids	Max
Non hazardous fluids	16 bar
Water *	

* For supply, distribution and discharge of water (PED 2014/68/EU 1.1.2b)

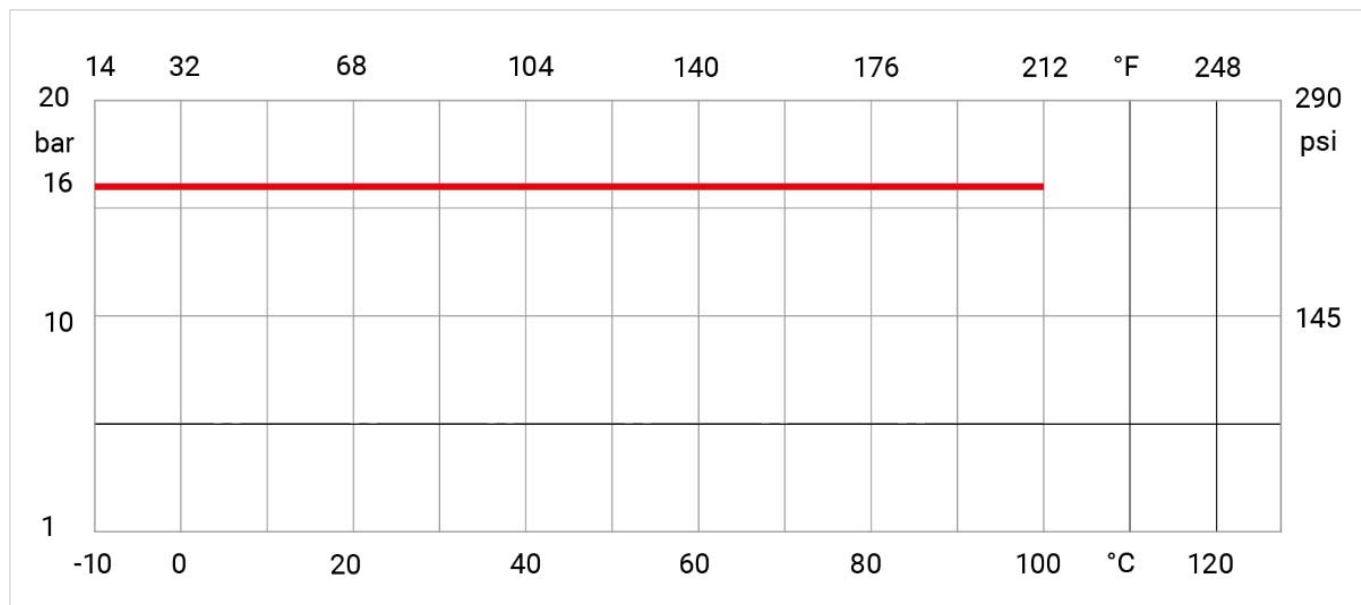
* with max. 50 % glycol according to VDI 2035

Temperature

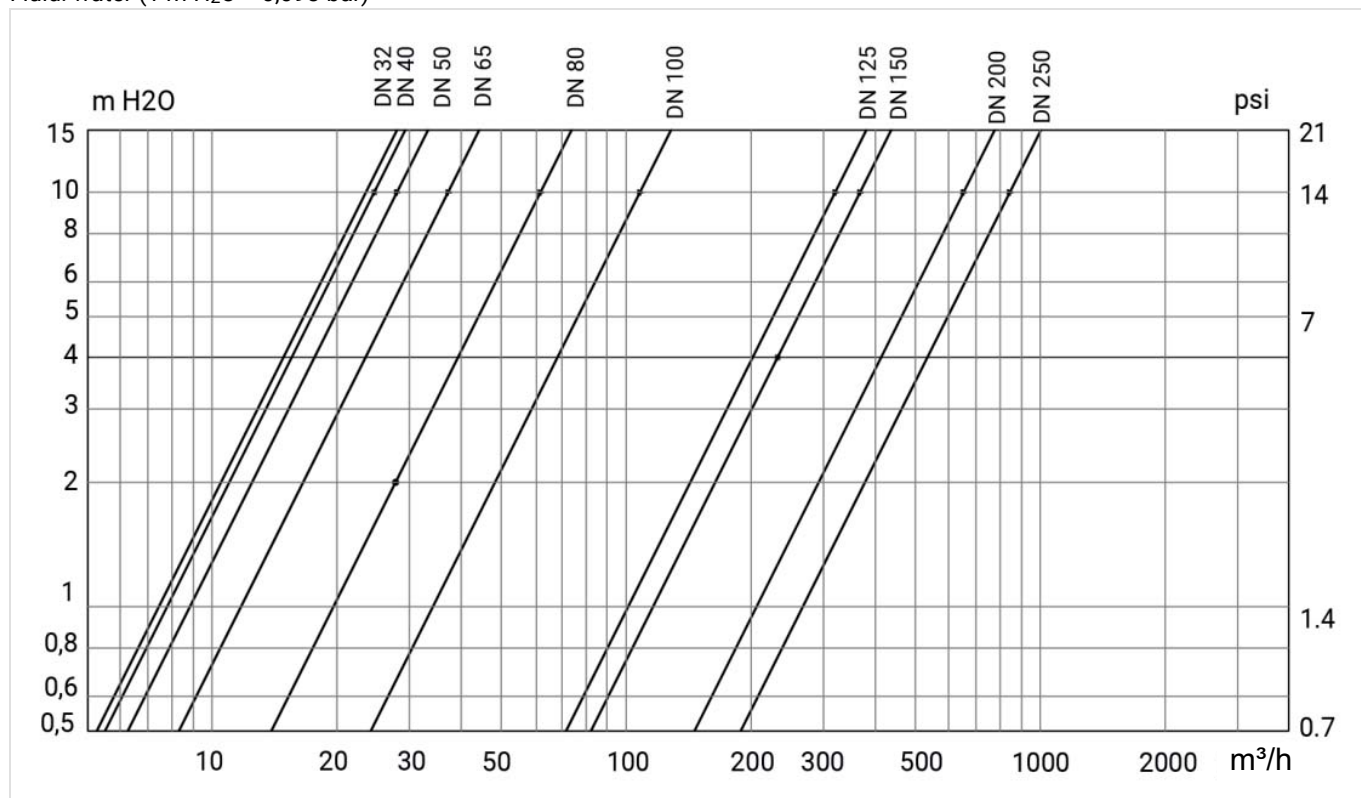
	Min °C	Max °C
Temperature	-10	120

NB: the maximum working pressure decreases while the temperature increases; please refer to "pressure/temperature" chart

Pressure / temperature chart



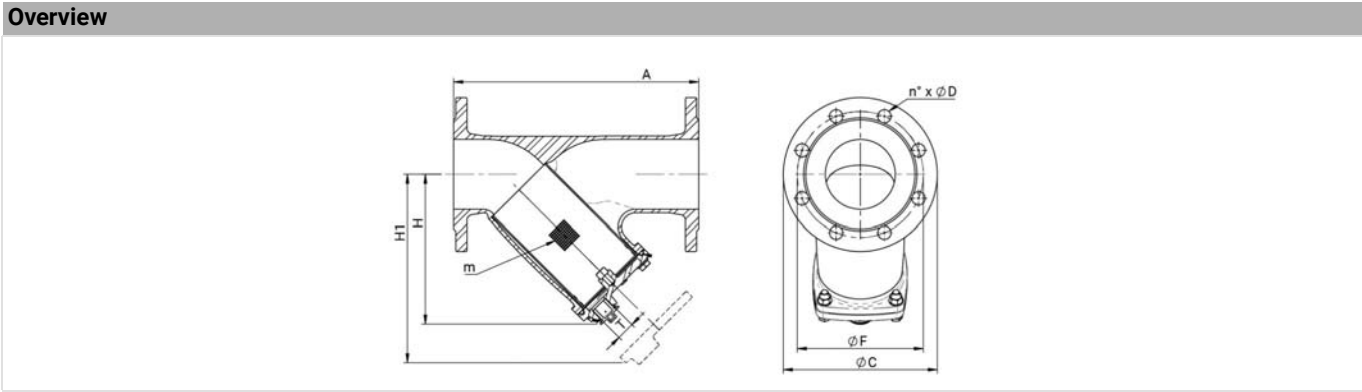
Head loss

Fluid: water (1 m H₂O = 0,098 bar)

Working range

K _v -value (m ³ /h)	DN									
	32	40	50	65	80	100	125	150	200	225
	24.5	24.6	28	37.2	62.2	149	320	367	652	844

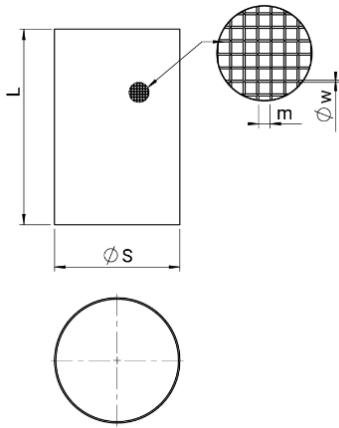
Dimensions



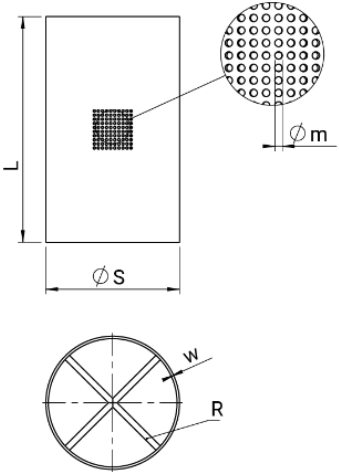
Item No.	DN	Dimensions								Weight [kg]
		A	H	H1	m	C	F	n x D	T	
V60030032	23	180	105	168	0.8	140	100	4 x 14	1/2"	4.6
V60030040	40	200	108	171	0.8	150	110	4 x 19	1/2"	8.5
V60030050	50	230	136	219	1	165	125	4 x 19	1/2"	8.2
V60030065	65	290	162	266	1	185	145	4 x 19	1/2"	11.1
V60030080	80	310	184	311	1	200	160	8 x 19	1/2"	11.7
V60030100	100	350	211	341	1,6	220	180	8 x 19	3/4"	15
V60030125	125	400	262	432	1,6	250	210	8 x 19	3/4"	24
V60030150	150	480	301	480	1,6	285	240	8 x 23	3/4"	34,5
V60030200	200	600	370	569	1,6	340	295	12 x 23	3/4"	59.3
V60030250	250	730	486	789	2	405	355	12 x	3/4"	99

Note: All dimensions in mm unless stated otherwise.

Overview



DN32 - DN40
Screen construction: wire mesh



DN50 - DN250
Screen construction: perforated sheet
R (DN125 - DN250) Cross beam reinforce

DN	Dimensions				Screen construction	Weight [kg]
	L	S	w*	m*		
32	89	39	0.4	0.8	Wire mesh	0.02
40	89	47	0.4	0.8		0.02
50	118	55	0.6	1	Perforated metal sheet	0.34
65	147	77	0.6	1		0.47
80	180	87	0.6	1		0.71
100	184	109	1	1.6		0.83
125	241	139	1	1.6		1.2
150	253	169	1	1.6		1.5
200	282	208	1	1.6		1.9
250	429	269	1	2		3.4

Note: All dimensions in mm unless stated otherwise.
w* = wire diameter or sheet thickness
m* = filtration grade (mesh opening)

Ordering Information

The following tables contain all the information you need to make an order of an item of your choice.
When ordering, please always state the type, the ordering or the part number.

Options

DN	k _v -value	Weight [kg]	Item No.
32	14.2	4.6	V60030032
40	22.5	8.5	V60030040
50	79	8.2	V60030050
65	99	11.1	V60030065
80	108	11.7	V60030080
100	261	15	V60030100
125	518	24	V60030125
150	883	34.5	V60030150
200	1364	59.3	V60030200
250	2716	99	V60030250

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