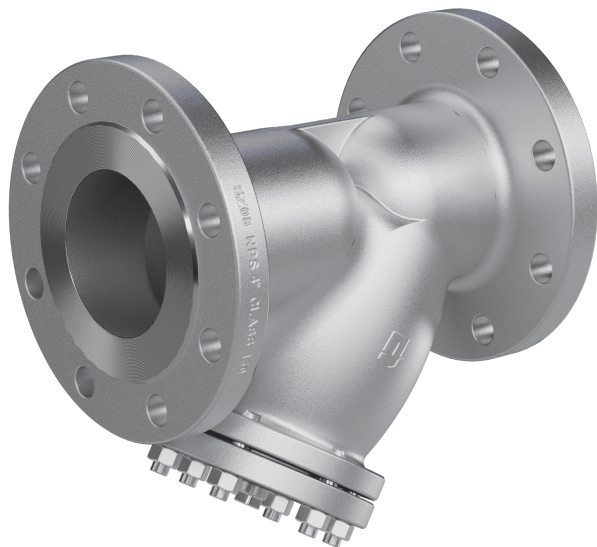


Strainer with ANSI Flange, TYPE SZ08



Description:

A strainer is used whenever fluids need to be filtered or cleaned.

Product Features:

- Suitable for liquid and gaseous media as well as steam
- Designed in accordance with ASME B16.34
- Overall length per ASME B16.10 and EN558
- Removable stainless steel filter
- Bolted cover and plug with NPT threads

Nominal diameter:

DN50 – DN400

Construction:

Y-type

Temperature:

-29°C to +425°C

Pressure:

0 – 50 bar (depending on model)
Refer to the pressure-temperature

Design:

Connection:

Material of threaded bolt (1)

Material of nut (2):

Material of the bonnet (3):

Material of sealing plug (4):

Material of cover gasket (5):

Screen material (6):

Housing material (7):

Temperature:

Screen mesh size:

Y-type strainer with plug

R.F. flange per ASME B16.05 Class 150 (nominal pressure PN20)

R.F. flange per ASME B16.05 Class 300 (nominal pressure PN50)

Steel ASTM A193 Grade B7M

Steel ASTM A194 Grade 2HM

Carbon steel, ASTM A105

Steel with copper gasket

Graphite + stainless steel 1.4301 / AISI 304

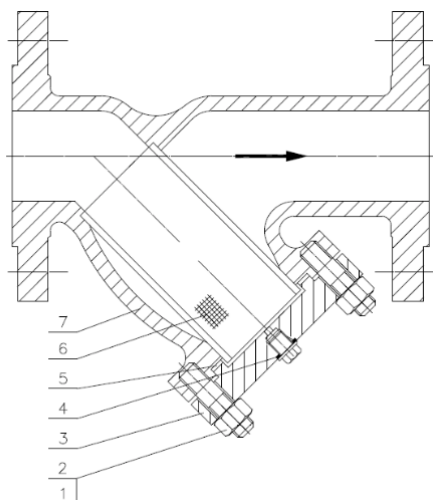
Stainless steel 1.4301 / AISI 304

Carbon steel ASTM A216 WCB, gray acrylic paint RAL 7001, thickness 60

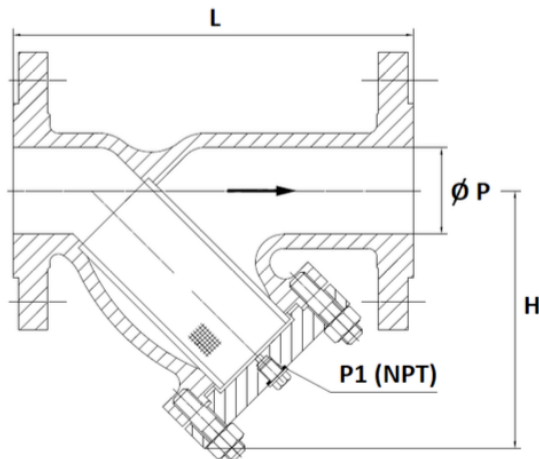
-29°C to +425°C

DN50: 1 mm / DN80–DN400: 1.5 mm

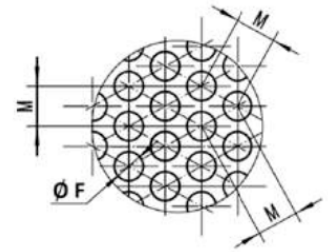
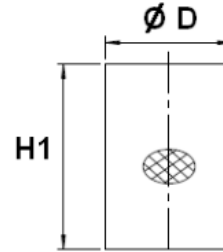
Material (see above):



Dimensions:

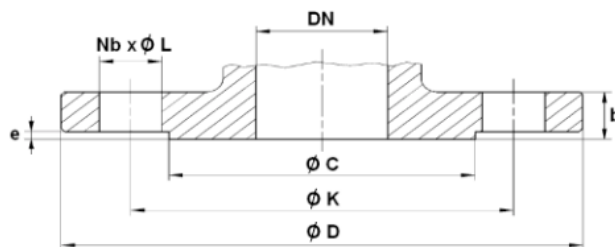


Filter size:



DN	Ø P		L		H		P1		Ø D	H1	Ø F	M	Weight	
	mm		mm		mm		inches		mm	mm	mm	mm	kg	
	ANSI 150	ANSI 300	ANSI 150	ANSI 300	ANSI 150	ANSI 300	ANSI150	ANSI 300					ANSI150	ANSI 300
50	50	51	203	267	146	140	1/2"	1/2"	55	110	1.0	3.0	8.0	11.0
80	80	76	241	318	175	185	1/2"	1/2"	80	135	1.5	3.5	15.0	20.0
100	100	102	292	356	227	225	1/2"	1/2"	105	175	1.5	3.5	24.0	34.0
150	150	152	406	444	283	290	3/4"	3/4"	150	210	1.5	3.5	39.0	60.0
200	200	203	495	559	372	396	3/4"	3/4"	190	275	1.5	3.5	67.2	101.0
250	250	254	622	622	443	485	1"	1"	235	355	1.5	3.5	133.0	154.0
300	300	305	699	711	495	610	1"	1"	280	365	1.5	3.5	198.0	218.0
350	350	350	787	838	695	650	1"	1 1/2"	340	435	1.5	3.5	319.0	490.0
400	400	400	914	864	840	740	1"	1 1/2"	390	465	1.5	3.5	405.0	620.0

Flange dimensions:



DN	Ø C		Ø D		Ø K		Nb x Ø L		b		e	
	mm		mm		mm		mm		mm		mm	
	ANSI 150	ANSI 300	ANSI 150	ANSI 300	ANSI 150	ANSI 300	ANSI150	ANSI 300	ANSI150	ANSI 300	ANSI150	ANSI 300
50	92.1	92.1	150.0	165.0	120.7	127.0	4 x 19	8 x 19	16.3	22.7	2	2
80	127.0	127.0	190.0	210.0	152.5	168.3	4 x 19	8 x 22	19.5	29.0	2	2
100	157.2	157.2	230.0	255.0	190.5	200.0	8 x 19	8 x 22	24.3	32.2	2	2
150	215.9	215.9	280.0	320.0	241.5	269.9	8 x 22	12 x 22	25.9	37.0	2	2
200	269.9	269.9	345.0	380.0	298.5	330.2	8 x 22	12 x 26	29.0	41.7	2	2
250	323.8	323.8	405.0	445.0	362.0	387.4	12 x 26	16 x 29	30.6	48.1	2	2
300	381.0	381.0	485.0	520.0	432.0	450.8	12 x 26	16 x 32	32.2	51.3	2	2
350	412.8	412.8	535.0	585.0	476.0	514.4	12 x 29	20 x 32	35.4	54.4	2	2
400	469.9	469.9	595.0	650.0	540.0	571.5	16 x 29	20 x 35	37.0	57.6	2	2

Pressure-Temperature Chart (according to ASME B16.34 for A216 WCB carbon steel):

For the ANSI 150 (PN20) flange version:

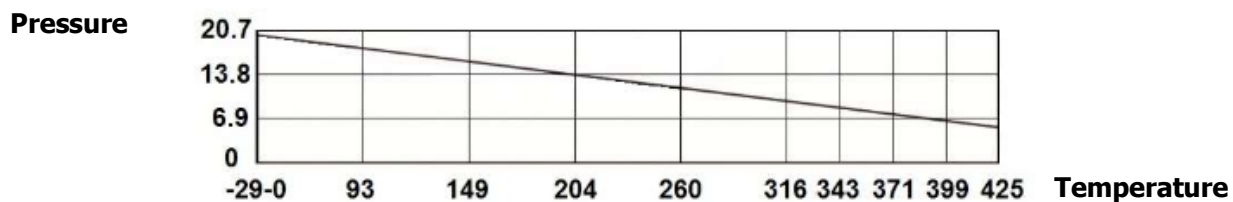
Pressure (bar)	19.6	19.6	17.9	15.8	13.8	11.7	9.6	8.6	7.6	6.5	5.5
Temperature (°C)	-29	38	93	149	204	260	316	343	371	399	425

For the ANSI 300 (PN50) flange version:

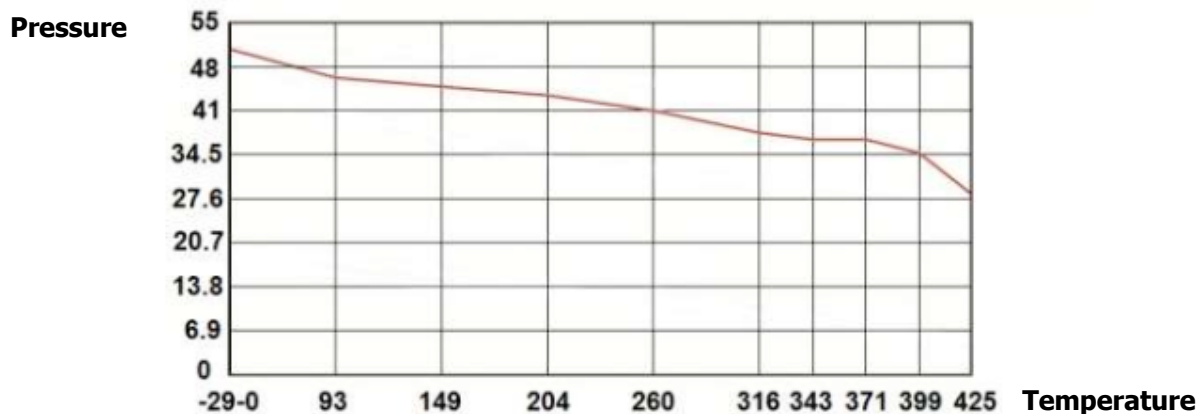
Pressure (bar)	51.1	51.1	46.2	45.1	43.8	41.3	37.9	36.9	36.9	34.8	28.2
Temperature (°C)	-29	38	93	149	204	260	316	343	371	399	425

Pressure-Temperature Charts (does not apply to steam):

For the ANSI 150 (PN20) flange version:



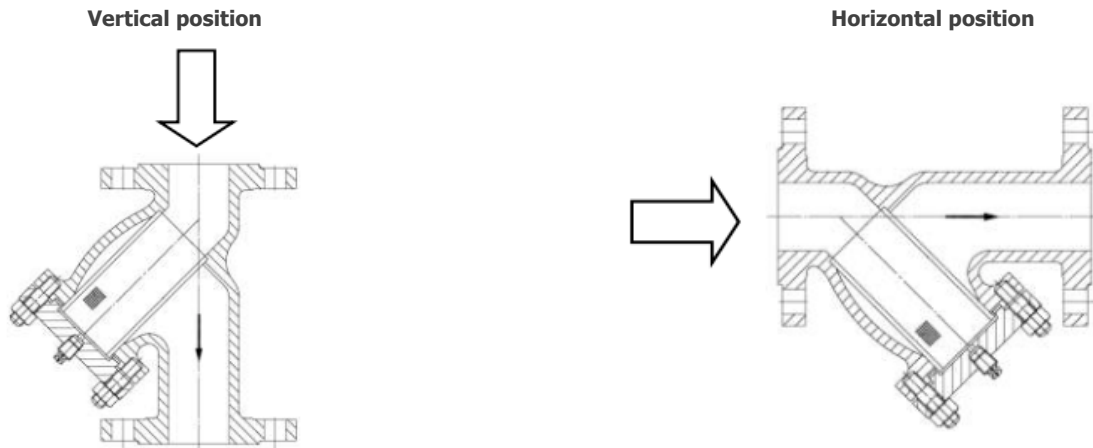
For the ANSI 300 flange version (PN50):


Flow coefficient Kvs (m³/h):

DN (mm)	50	80	100	150	200	250	300	350	400
ANSI 150 version: Kvs (m³/h)	50	90	150	350	600	1,000	1,400	1,800	2,400
ANSI 300 version: Kvs (m³/h)	32.4	83.1	129.7	291.2	518.8	810.7	1,167.4	1,447.1	1,923.0

Installation:

- Observe the flow direction indicated by the arrow on the strainer
- Horizontal installation or vertical installation with downward flow direction



Standards:

For the ANSI 150 flange version:

- DIRECTIVE 2014/68/EU: For Group 1 liquids and gases
 - DN50: Risk Category I, CE0036
 - DN80–DN150: Risk Category II, CE0036
 - DN200–DN400: Risk Category III, CE0036
- Pressure tests in accordance with API 598, Table 6
- Design in accordance with ASME B16.34
- Materials in accordance with NACE MR 01-75
- Overall length according to:
 - ASME B16.10 Table 1 A15
 - EN 558 Series 10 for DN50 to DN100
 - EN 558 Series 7 for DN150
 - EN 558 Series 10 for DN200 to DN400

For the ANSI 300 flange version:

- DIRECTIVE 2014/68/EU: For Group 1 liquids and gases
 - DN50–DN100: Risk Category II, CE0036
 - DN150–DN400: Risk Category III, CE0036
- Pressure tests in accordance with API 598, Table 6
- Design in accordance with ASME B16.34
- Materials in accordance with NACE MR 01-75
- Overall length according to:
 - ASME B16.10, Table 2
 - EN 558 Series 15 for DN50 to DN150
 - EN 558 Series 21 for DN200
 - EN 558 Series 15 for DN250 to DN300
 - EN 558 Series 17 for DN350 to DN400

Article number:

Type	Material	Flange	Size
SZ08	00 – Carbon steel	00 – ANSI 150 (PN20) 01 – ANSI 300 (PN50)	08 – DN50
			10 – DN80
			11 – DN100
			13 – DN150
			14 – DN200
			15 – DN250
			16 – DN300
			17 – DN350
			18 – DN400
Example No. SZ08000010:			
SZ03	00	00	10

ANSI strainer made of carbon steel
Rated pressure: ANSI 150
Size: DN80

Illustration is for reference only; subject to technical and dimensional changes.