

CARBON STEEL Y STRAINER FLANGED CLASS 300 PN50

Carbon steel Y strainer flanged Class 300 PN50 for water distribution, gas oil, steam, petrochemical, petroleum industry and gas.

Removable stainless steel filter and bolted bonnet.

Draining cap threaded NPT.

NACE
MR01-75

Certificate
3.1



Size : DN50 to DN400 (NPS 2" to 16")

Connection : Flanges RF Class 300 PN50

Min Temperature : -29°C

Max Temperature : +425°C

Max Pressure : 50 Bars

Specifications : Removable stainless steel filter

Bolted bonnet with draining cap threaded NPT

Materials : Carbon steel ASTM A216 WCB

CARBON STEEL Y STRAINER FLANGED CLASS 300 PN50

SPECIFICATIONS :

- Removable stainless steel filter
- Flanges R.F. Class 300 (PN50)
- Horizontal or vertical position with descendant fluid (respect the flow direction indicated by the arrow)
- Mesh 1 mm for DN50 (2"), 1.5 mm from DN65 to 400 (2"1/2 to 16")
- Bolted bonnet with draining cap threaded NPT
- Grey acrylic painting RAL 7001 color, 60 µm thickness

USE :

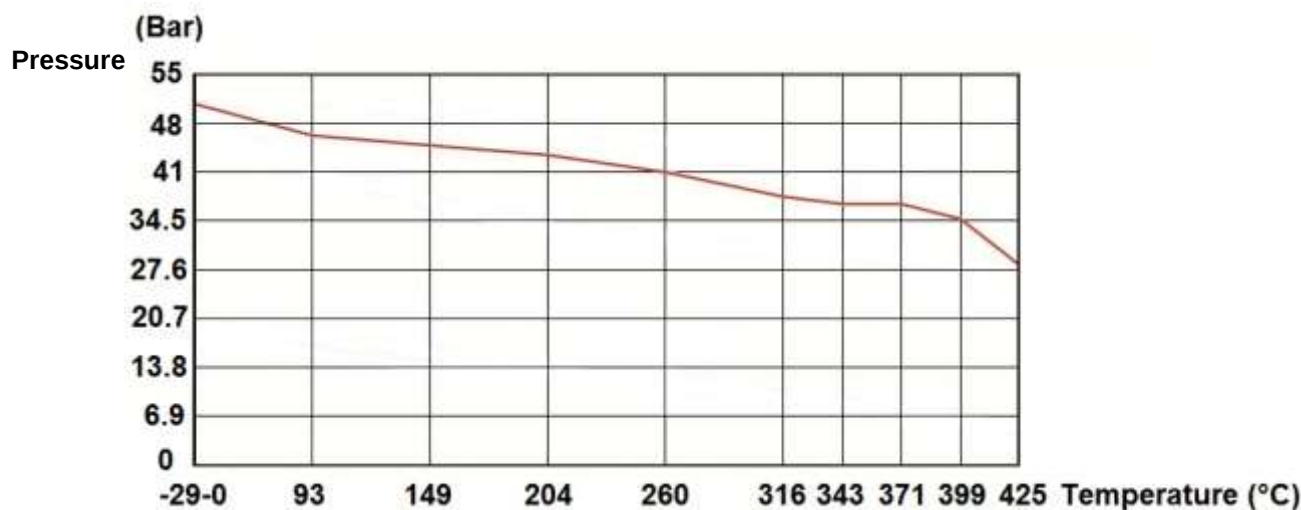
- Water distribution, gas oil, steam, petrochemical, petroleum industry, gas
- Min Temperature Ts : - 29°C
- Max Temperature Ts :+ 425°C
- Max Pressure Ps : 50 bars

PRESSURE / TEMPERATURE RELATION :

(According to AMSE B16-34 for A216 WCB)

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 GRAPH :



FLOW COEFFICIENT Kvs (M3 / h) :

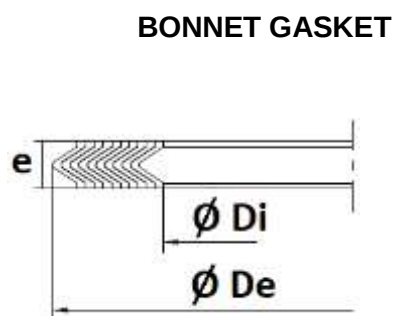
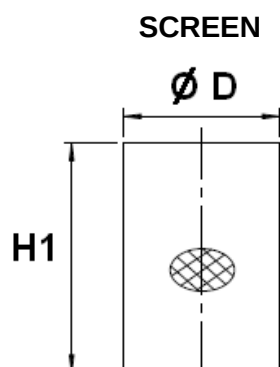
DN (mm)	50	65	80	100	150	200	250	300	350	400
NPS (")	2"	2"1/2	3"	4"	6"	8"	10"	12"	14"	16"
Kvs (m3/h)	32.4	54.8	83.1	129.7	291.2	518.8	810.7	1167.4	1447.1	1923

CARBON STEEL Y STRAINER FLANGED CLASS 300 PN50

RANGE :

- Carbon steel strainer flanged R.F. Class 300 (PN50) **Ref. 244** from DN 50 to DN 400 (NPS from 2" to 16")

REPAIRABILITY :

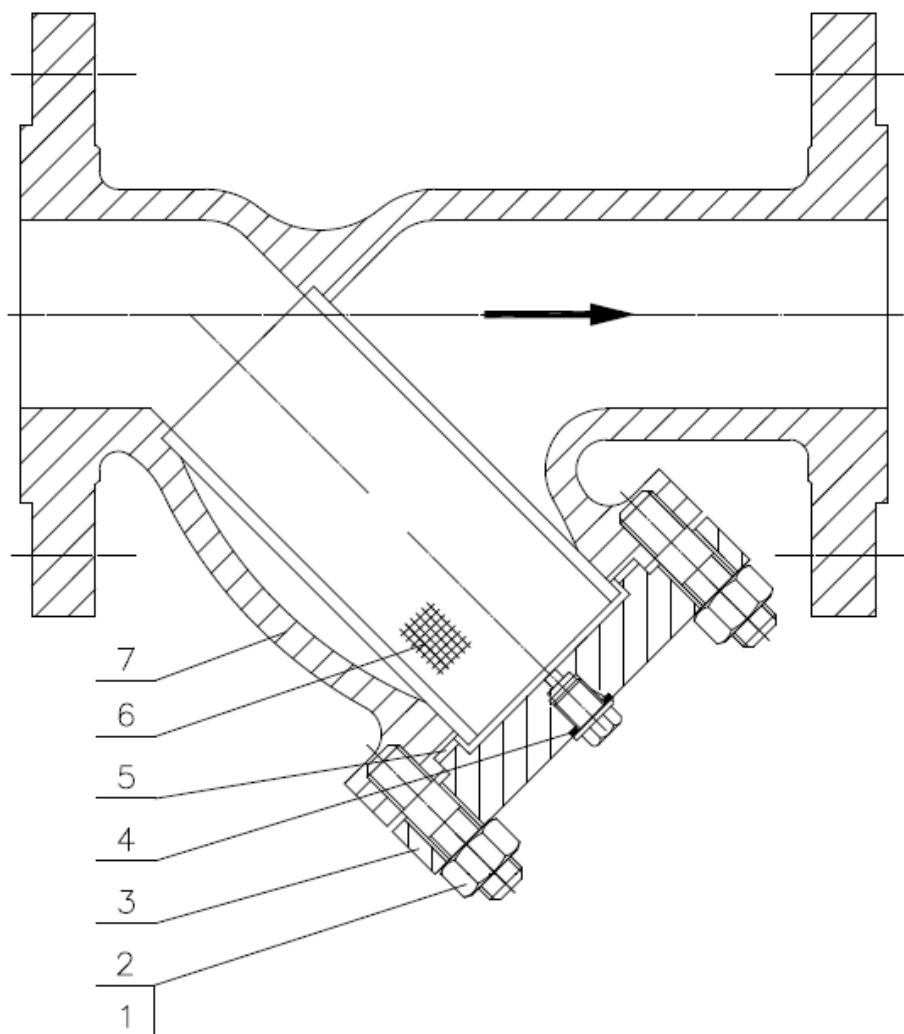


	DN (mm)	50	65	80	100	150	200
	NPS (")	2"	2"1/2	3"	4"	6"	8"
Screen	Ø D x H1	55x110	60x120	80x135	105x175	150x210	190x275
	Mesh	1	1.5				
	Ref.	9802490	9802491	9802492	9802493	9802494	9802495
Bonnet gasket	Ø Di x Ø De x e	55x70x3	65x80x3	80x95x3	105x120x3	150x165x3	190x210x3
	Ref.	9802370	9802371	9802372	9802373	9802374	9802375

	DN	250	300	350	400
	NPS (")	10"	12"	14"	16"
Screen	Ø D x H1	235x355	280x365	340x435	390x465
	Mesh	1.5			
	Ref.	9802496	9802497	9802498	9802499
Bonnet gasket	Ø Di x Ø De x e	235x260x3	280x305x3	340x370x3	390x420x3
	Ref.	9802376	9802377	9802378	9802379

CARBON STEEL Y STRAINER FLANGED CLASS 300 PN50

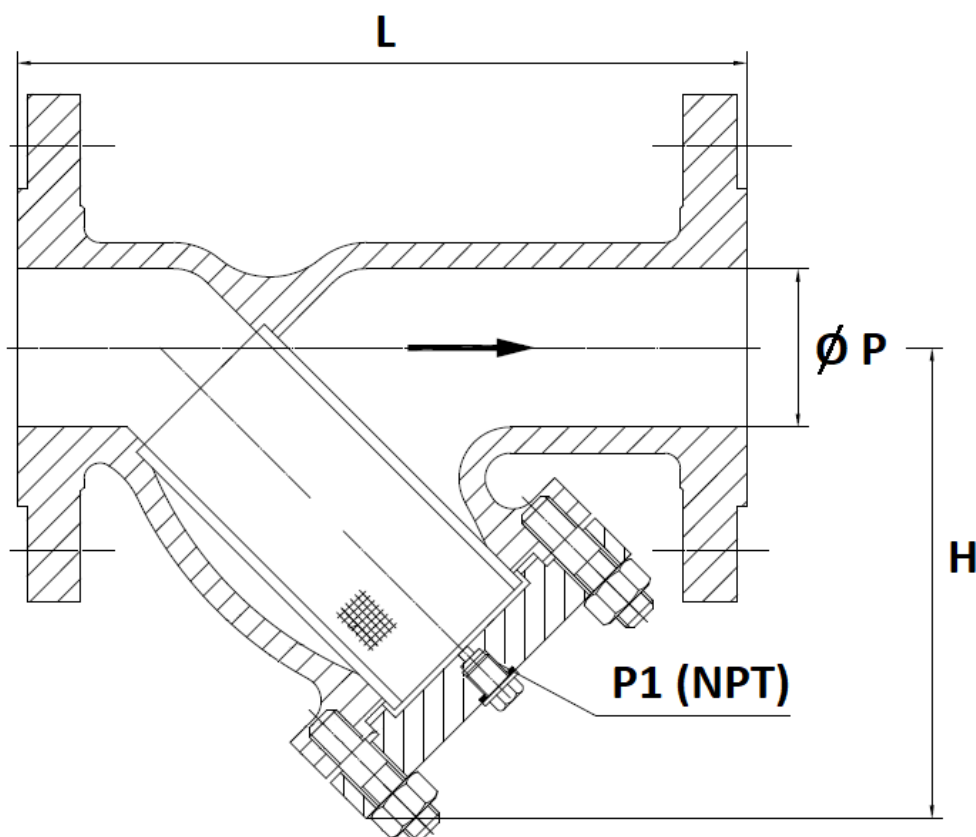
MATERIALS :



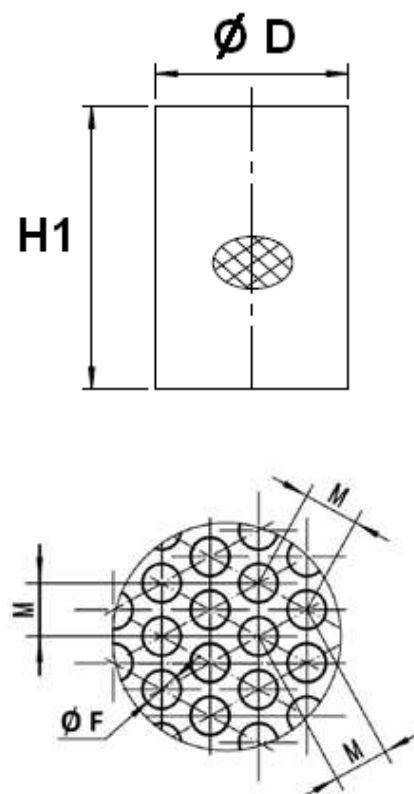
Item	Designation	Materials
1	Stud bolt	ASTM A193 Gr.B7M
2	Nut	ASTM A194 Gr.2HM
3	Bonnet	ASTM A105
4	Draining cap	Steel with copper gasket
5	Bonnet gasket	Graphite + AISI 304
6	Screen	AISI 304
7	Body	ASTM A216 WCB

CARBON STEEL Y STRAINER FLANGED CLASS 300 PN50

SIZE (in mm) :



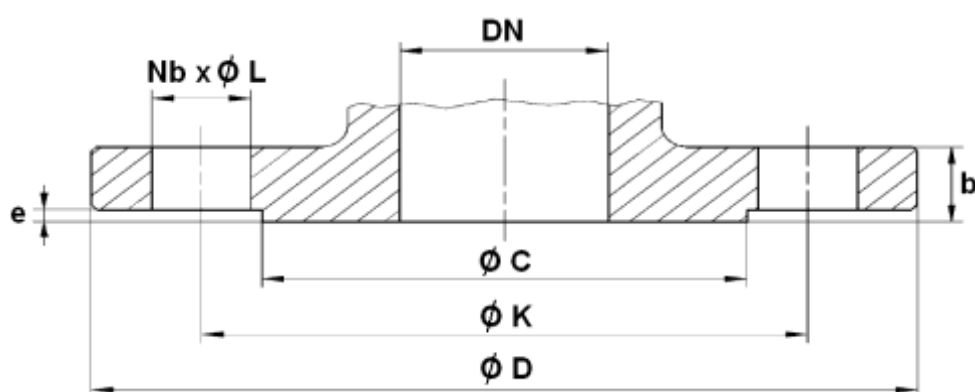
Screen size :



DN (mm)	50	65	80	100	150	200	250	300	350	400
NPS (")	2"	2"1/2	3"	4"	6"	8"	10"	12"	14"	16"
Ø P	51	64	76	102	152	203	254	305	350	400
L	267	292	318	356	444	559	622	711	838	864
H	140	155	185	225	290	396	485	610	650	740
P1 (drain NPT)	1/2"	1/2"	1/2"	1/2"	3/4"	3/4"	1"	1"	1"1/2	1"1/2
Ø D	55	65	80	105	150	190	235	280	340	390
H1	110	120	135	175	210	275	355	365	435	465
Mesh (ØF)	1	1.5								
M	3	3.5								
Weight (Kg)	11	15	20	34	60	101	154	218	490	620
Ref.	244050	244065	244080	244100	244150	244200	244250	244300	244350	244400

CARBON STEEL Y STRAINER FLANGED CLASS 300 PN50

FLANGES SIZE (in mm) :



DN (mm)	50	65	80	100	150	200	250	300	350	400
NPS (")	2"	2"1/2	3"	4"	6"	8"	10"	12"	14"	16"
Ø C	92.1	104.8	127	157.2	215.9	269.9	323.8	381	412.8	469.9
Ø D	165	190	210	255	320	380	445	520	585	650
Ø K	127	149.2	168.3	200	269.9	330.2	387.4	450.8	514.4	571.5
Nb x Ø L	8 x 19	8 x 22	8 x 22	8 x 22	12 x 22	12 x 26	16 x 29	16 x 32	20 x 32	20 x 35
b	22.7	25.9	29	32.2	37	41.7	48.1	51.3	54.4	57.6
e	2	2	2	2	2	2	2	2	2	2

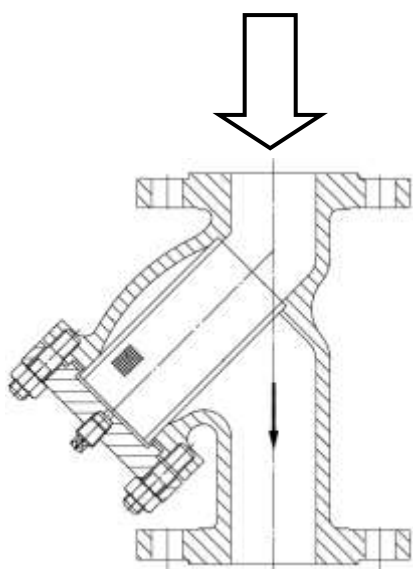
CARBON STEEL Y STRAINER FLANGED CLASS 300 PN50

STANDARDS :

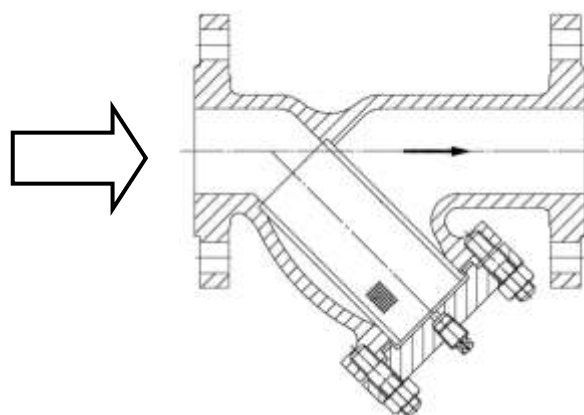
- Manufacturer certified ISO 9001: 2015 and ISO 14001: 2015
- DIRECTIVE 2014/68/EU : For liquids and gas of Group 1
 - DN50-100 : Risk Category II, marking CE 0036
 - DN125-400 : Risk Category III, marking CE 0036
- Certificate 3.1 on request
- Designing according to ASME B16.34
- Pressure tests according to API 598, table 6
- Length according to ASME B16.10 table 2 series 15 up to DN300, series 17 from DN350 to 400, EN 558 series 21 excepted DN200
- Flanges R.F. according to ASME B16.05 Class 300
- Materials according to NACE MR 01-75

INSTALLATION POSITIONS :

Vertical position (descendand fluid)



Horizontal position



ADVICE : Our opinion and our advice are not guaranteed and SFERACO shall not be liable for the consequences of damages. The customer must check the right choice of the products with the real service conditions.