

CARBON STEEL Y STRAINER FLANGED CLASS 150 PN20

Carbon steel Y strainer flanged Class 150 PN20 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 150 PN20

Min Temperature : -29°C

Max Temperature : +425°C

Max Pressure : 20 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 150 PN20

SPECIFICATIONS :

- Removable stainless steel filter
- Flanges R.F. Class 150 (PN20)
- 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 : 20 bars

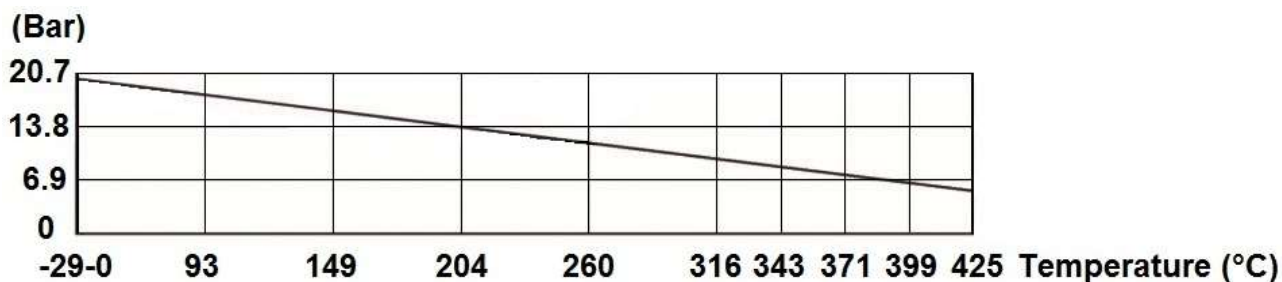
PRESSURE / TEMPERATURE RELATION :

(According to AMSE B16-34 for A216 WCB)

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

PRESSURE / TEMPERATURE GRAPH :

Pressure



FLOW COEFFICIENT Kvs (M3 / h) :

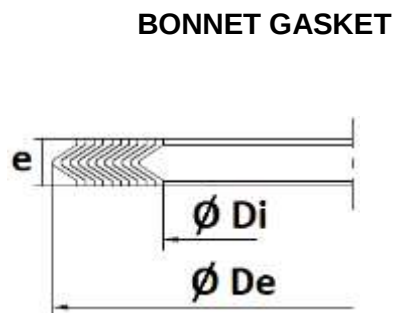
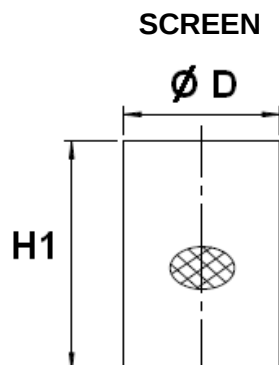
DN (mm)	50	80	100	150	200	250	300	350	400
NPS (")	2"	3"	4"	6"	8"	10"	12"	14"	16"
Kvs (m3/h)	50	90	150	350	600	1000	1400	1800	2400

RANGE :

- Carbon steel strainer flanged R.F. Class 150 (PN20) **Ref. 243** from DN 50 to DN 400 (NPS from 2" to 16")

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REPAIRABILITY :

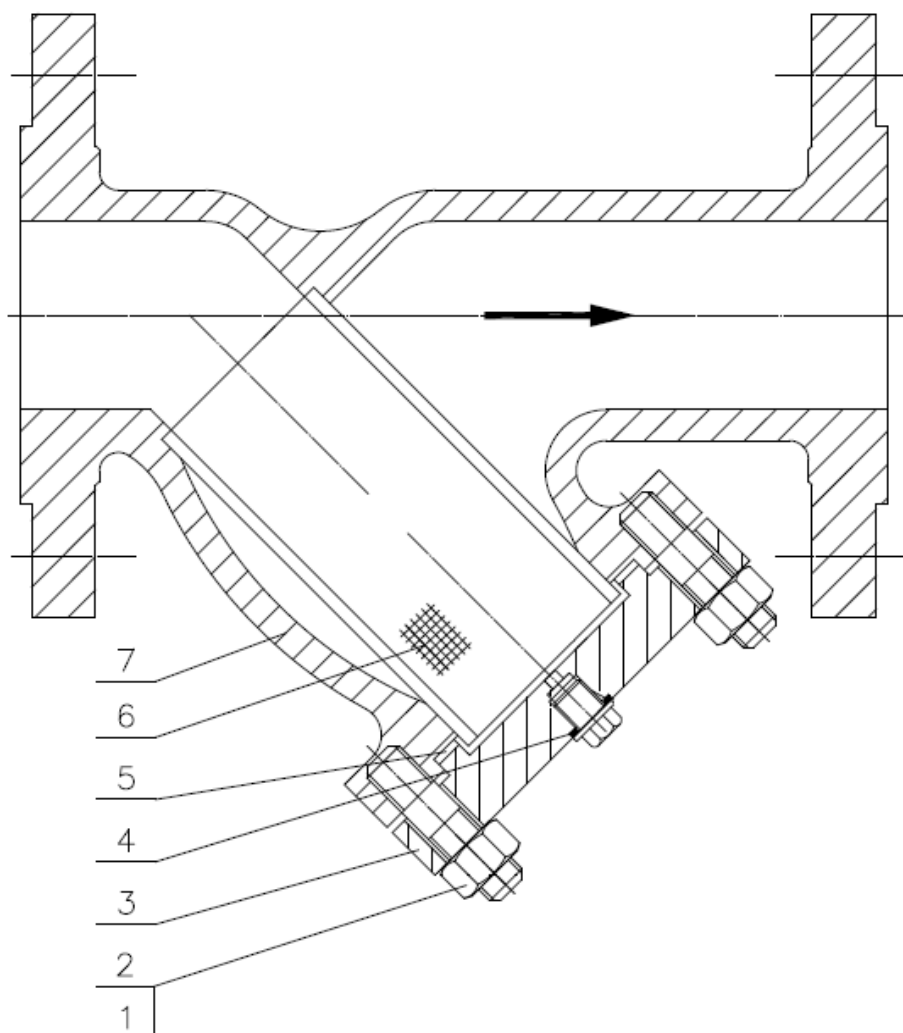


	DN (mm)	50	80	100	150	200
	NPS (")	2"	3"	4"	6"	8"
Screen	Ø D x H1	55x110	80x135	105x175	150x210	190x275
	Mesh	1	1.5			
	Ref.	9802490	9802492	9802493	9802494	9802495
Bonnet gasket	Ø Di x Ø De x e	55x70x3	80x95x3	105x120x3	150x165x3	190x210x3
	Ref.	9802370	9802372	9802373	9802374	9802375

	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

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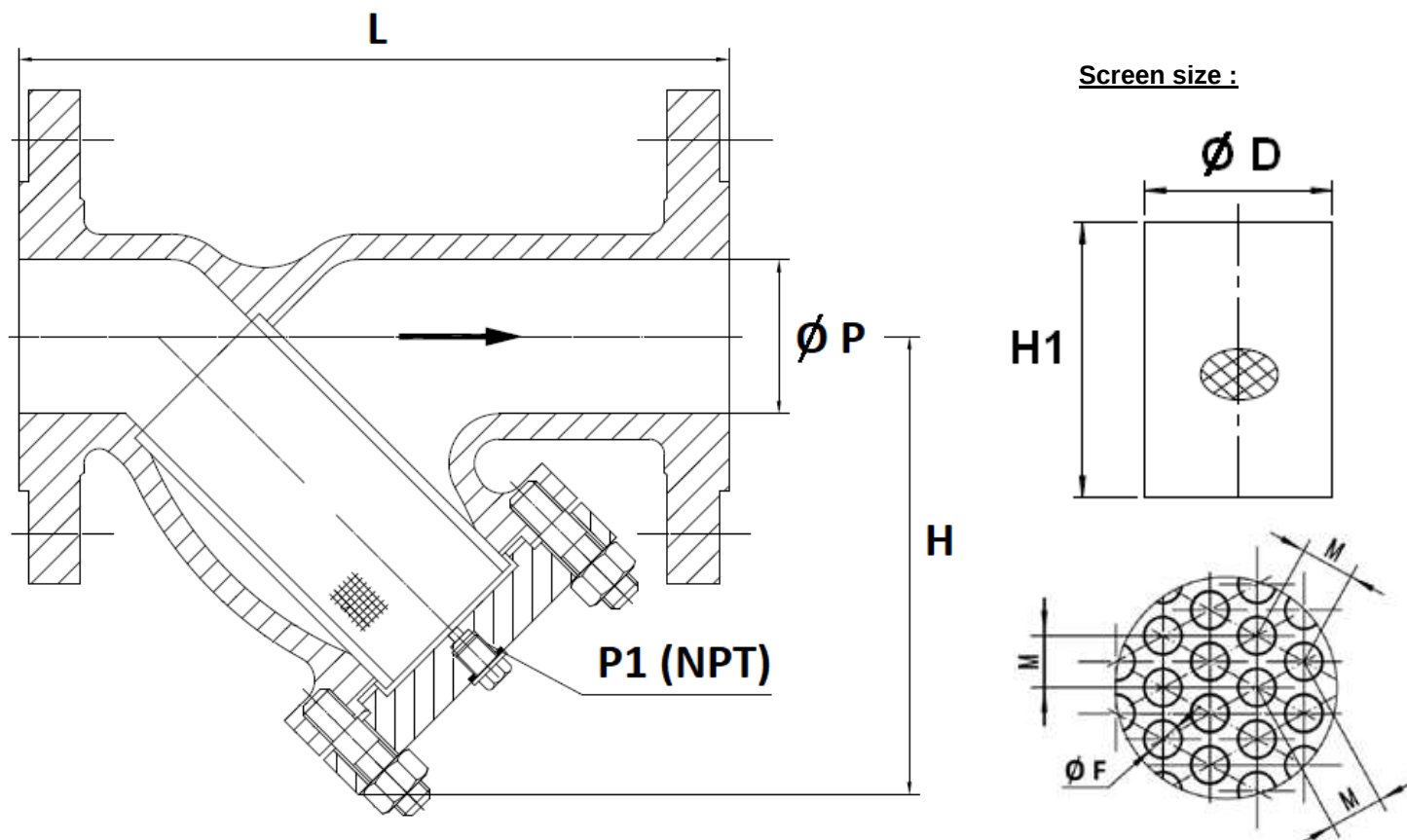
MATERIALS :



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

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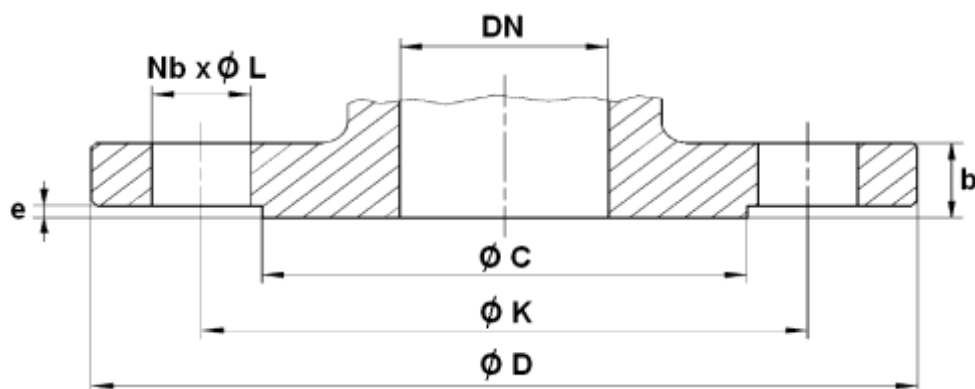
SIZE (in mm) :



DN	50	80	100	150	200	250	300	350	400
NPS (")	2"	3"	4"	6"	8"	10"	12"	14"	16"
Ø P	50	80	100	150	200	250	300	350	400
L	203	241	292	406	495	622	699	787	914
H	146	175	227	283	372	443	495	695	840
P1 (drain NPT)	1/2"	1/2"	1/2"	3/4"	3/4"	1"	1"	1"	1"
Ø D	55	80	105	150	190	235	280	340	390
H1	110	135	175	210	275	355	365	435	465
Mesh (ØF)	1	1.5							
M	3	3.5							
Weight (Kg)	8	15	24	39	67.2	133	198	319	405
Ref.	243050	243080	243100	243150	243200	243250	243300	243350	243400

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FLANGES SIZE (in mm) :



DN (mm)	50	80	100	150	200	250	300	350	400
NPS (")	2"	3"	4"	6"	8"	10"	12"	14"	16"
Ø C	92.1	127	157.2	215.9	269.9	323.8	381	412.8	469.9
Ø D	150	190	230	280	345	405	485	535	595
Ø K	120.7	152.5	190.5	241.5	298.5	362	432	476	540
Nb x Ø L	4 x 19	4 x 19	8 x 19	8 x 22	8 x 22	12 x 26	12 x 26	12 x 29	16 x 29
b	16.3	19.5	24.3	25.9	29	30.6	32.2	35.4	37
e	2	2	2	2	2	2	2	2	2

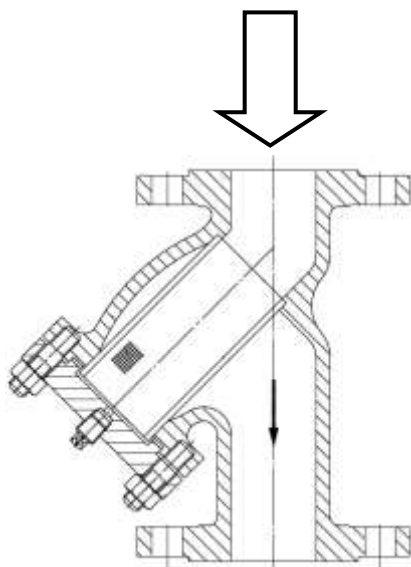
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STANDARDS :

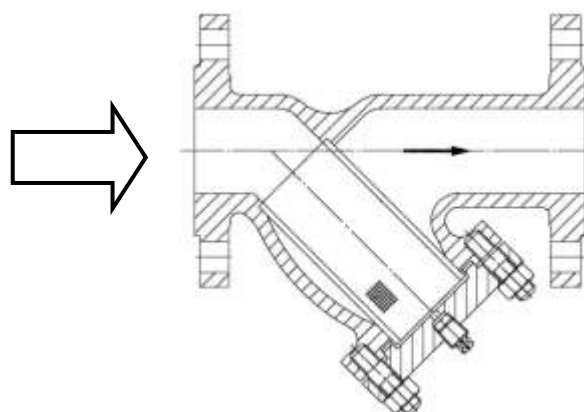
- Manufacturer certified ISO 9001: 2015 and ISO 14001: 2015
- DIRECTIVE 2014/68/EU : For liquids and gas of Group 1
 - DN50 : Risk Category I, marking CE0036
 - DN65-150 : Risk Category II, marking CE0036
 - DN200-400 : Risk Category III, marking CE0036
- Certificate 3.1 on request
- Designing according to ASME B16.34
- Pressure tests according to API 598, table 6
- Length according to ASME B16.10 table 1 A15 series and EN 558 series 10 (EN558 series 7 for DN150 6")
- Flanges R.F. according to ASME B16.05 Class 150
- 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.