

STRAINER Y-TYPE FLANGED FOR GAS PN16

CARACTERISTIQUES

The Y 1019821 carbon steel filter is intended for the protection of sensitive valves on gas lines such as automatic valves, pressure reducers, control valves, etc. The filtration threshold is 150 µm. The plug allows the connection of a drain valve. This filter can be used on natural gas up to a pressure of 16 bar. The construction and the face to face dimension of the 821 filter are standardized according to European standards.

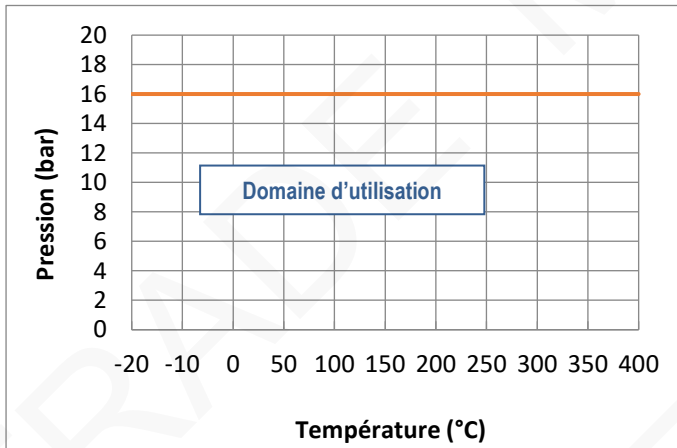
AVAILABLE MODELS

DN50 until DN200, PN16 flange connection.



LIMITS OF USE

Fluid pressure : PS	16 bar
Fluid temperature: TS	-20°C / +400°C



CONSTRUCTION GUIDELINES AND STANDARDS

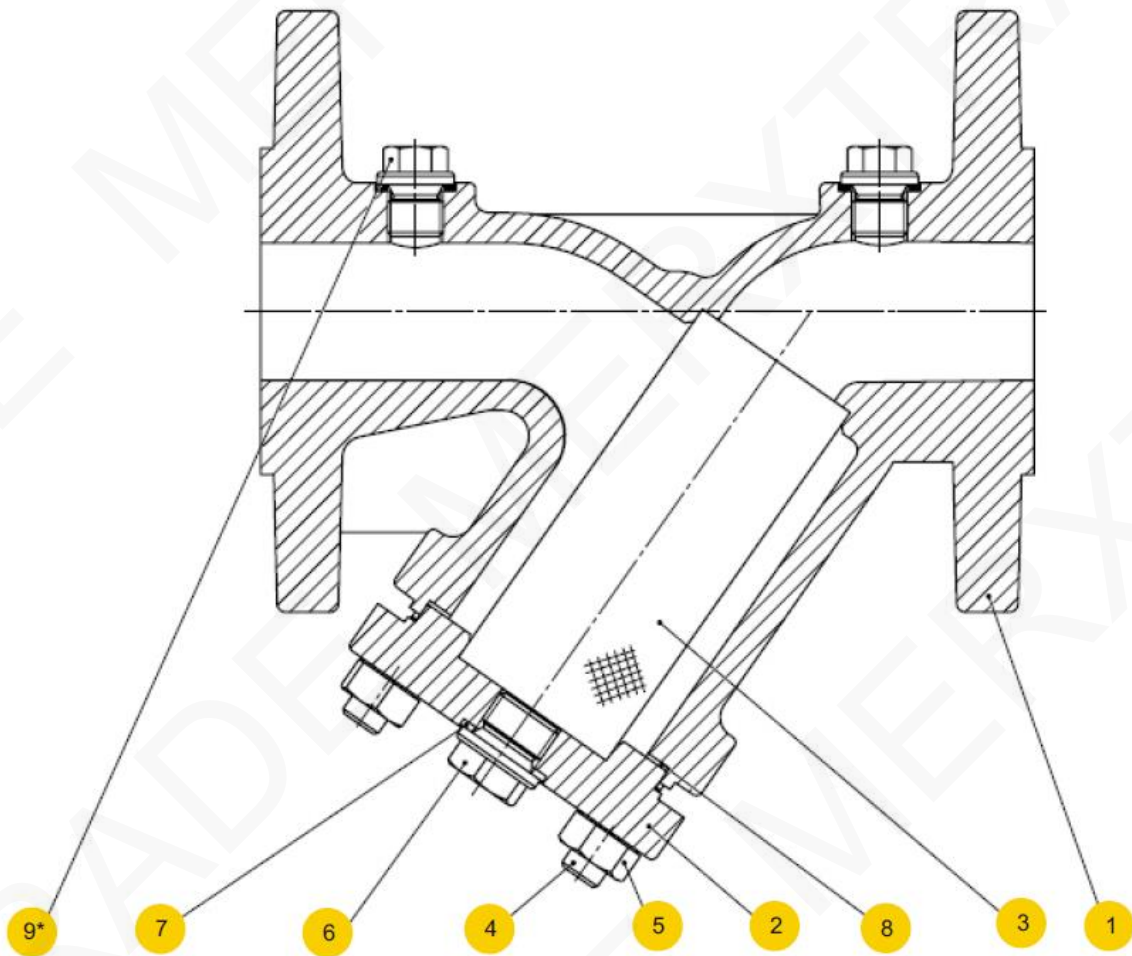
OBJECT	Standard	ON	OBJECT	Standard
CE pressure directive 2014/68	category III	BV 0062	Final test	EN 12266-1
			Material certificate	EN 10204
CE pressure directive 2014/68	EN 1092-1		Dimension FAF	EN 558-1 series 1

FILTRATION THRESHOLDS

Standard	Options
150 µm	200 µm, 500 µm and 1000 µm

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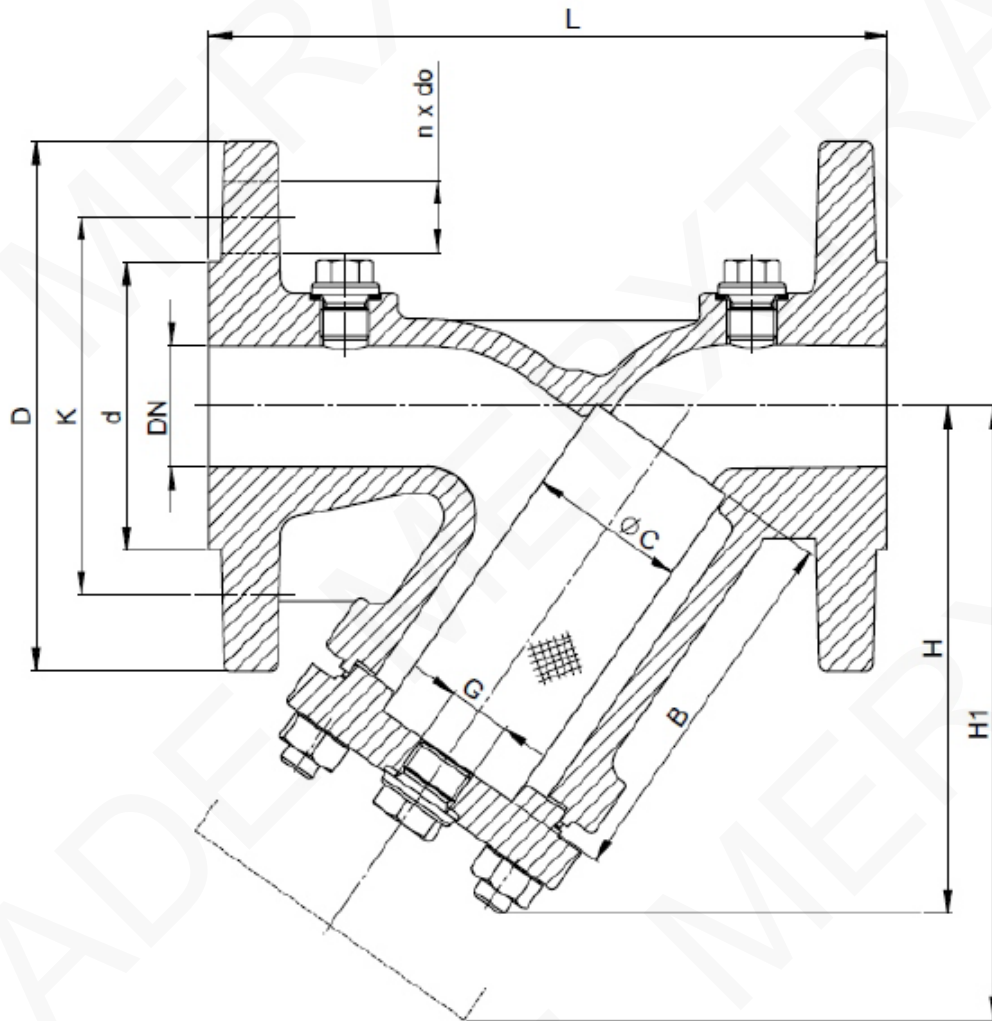
CONSTRUCTION



N°	Designation	Material
1	Body	Carbon steel P265 GH
2	Lid	Carbon steel P265 GH
3	Filter	Stainless steel 1.4301
4	Bonnet screw	Steel 25 Cr Mo 4
5	Nut	Steel C35E
6	Draining cap	Steel C35E
7	Cap seal	Steel 1.4571
8	Lid seal	Graphite-stainless steel
9	Pressure tap ports plug (optional)	Steel C35E

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DIMENSIONS (mm)



DN	50	65	80	100	125	150	200
L	230	290	310	350	400	480	600
D	165	185	200	220	250	285	340
d	99	118	132	156	184	211	266
K	125	145	160	180	210	240	295
N x do	4x19	4x19	8x19	8x19	8x19	8x23	12x23
H	175	175	205	275	325	397	535
H1	250	285	330	365	425	480	610
G	1"	1"	1"	1" ½	1" ½	1" ½	1" ½
C	61.5	78.5	89.5	109.5	137.5	160	210
B	119	134	149	169	199	224	284
Weight (kg)	11.0	14.6	18.6	27.0	38.5	54.5	110.0

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FLOW COEFFICIENT

These values are understood for a filter with new screen without clogging.

DN	50	65	80	100	125	150	200
Kv (m3/h)	64.7	98.0	149	234	376	454	853

Calculation formula for a gas:

$$\text{Si } P_2 > P_1/2 \quad K_v = \frac{Q}{445} \times \sqrt{\frac{d \times T}{\Delta P \times P_2}}$$

$$\text{Si } P_2 < P_1/2 \quad K_v = \frac{Q}{240 \times P_1} \times \sqrt{d \times T}$$

K_v	flow coefficient flow	m^3/h
Q	rate in	Nm^3/h
d	density Absolute	Kg / m^3
T	temperature Upstream	$^{\circ}K (^{\circ}C +273)$
P_1	pressure (abs)	bar
P_2	Downstream pressure	bar
ΔP	(abs) Upstream- downstream difference	bar

ASSEMBLY AND MAINTENANCE INSTRUCTIONS

1 - Assembly

- 1.1 - Before any installation, isolate the upstream and downstream pipes, depressurize the pipe and bring installation at room temperature.
- 1.2 - Install an isolation valve upstream and one downstream.
- 1.3 - Thoroughly clean the piping of any particles or chips by rinsing with water or air blowing.
- 1.4 - Install the filter respecting the direction of the arrow indicated on the body.
- 1.5 - Orient the filter so that the drain plug is at the bottom of the piping.
- 1.6 - Use flange seals suitable for the fluid.
- 1.7 - Tighten the cross flange bolts.
- 1.8 - If the filter must be cleaned frequently, install a drain valve in place of the reference plug (6). 1.9 - Put into service with a progressive pressurization.

2 - Maintenance

- 2.1 - Before any intervention, isolate the upstream and downstream piping using the valves provided for this purpose.
- 2.2 - Depressurize the pipe and bring the installation to room temperature.
- 2.3 - Unscrew the reference plug (6) and drain the fluid remaining at the bottom of the filter.
- 2.4 - Remove the reference cover (2).
- 2.5 - Remove the reference strainer (3). Depending on its condition, clean or replace it.
- 2.6 - Refit the reference cover (2).
- 2.7 - Screw the reference plug (6) back on.
- 2.8 - Return to service with progressive pressure build-up.

DETACHED PIECES

DN	50	65	80	100	125	150	200
Body seal	SF9801155	SF9801156	SF9801157	SF9801158	SF9801159	SF9801155	SF9801155
Strainer 150 μ m	Consult us						