

CARTRIDGE FILTERS

for natural gas



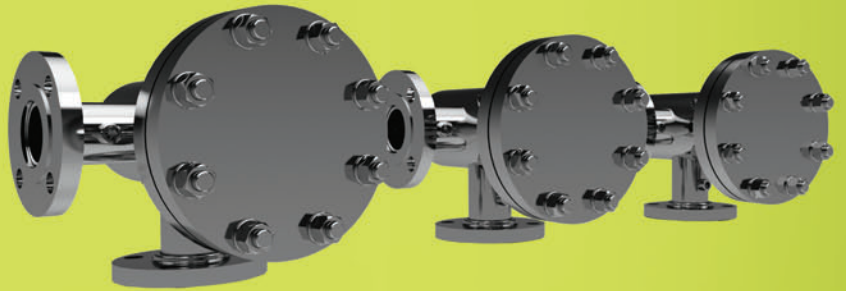
Natural Gas &
Water Treatment

INTRODUCTION

In the gas pressure reduction and metering plants, it is good practice to protect the pressure regulators, the valves, the positive displacement meters etc. from the solid particles present in the gas, if any. The filters are used to this purpose.

They are manufactured in different types and sizes in order to meet all the plants needs. They are equipped with nipples for the assembly of the several accessories useful for a good operation. The filters construction is stout and they may be easily installed and maintained.

The filtering element is able to filter solid particles with filtrations up to 5μ .





FILTERING AREA

$$A = Q / (P \times V \times 3600)$$

Where:

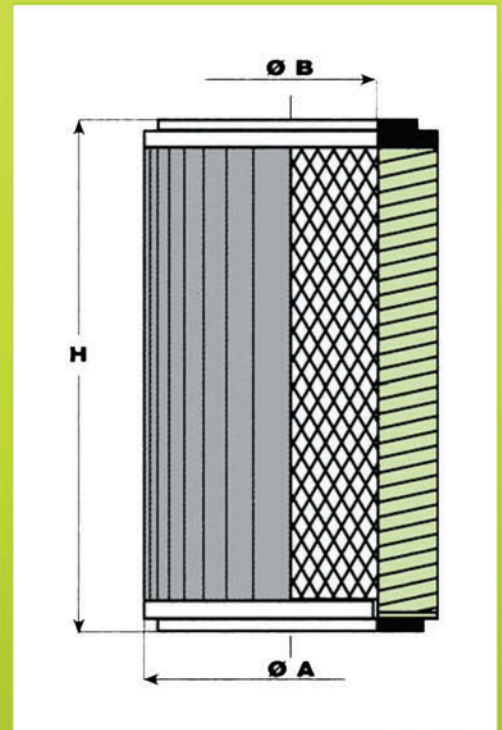
A= Filtering area in smq.

Q= Filter flow rate Stm³/h.

P= Absolute pressure in bar.

V = Speed at the filter cartridge in m/sec
(suggested 0,33).

FILTERING CARTRIDGE DIMENSIONS

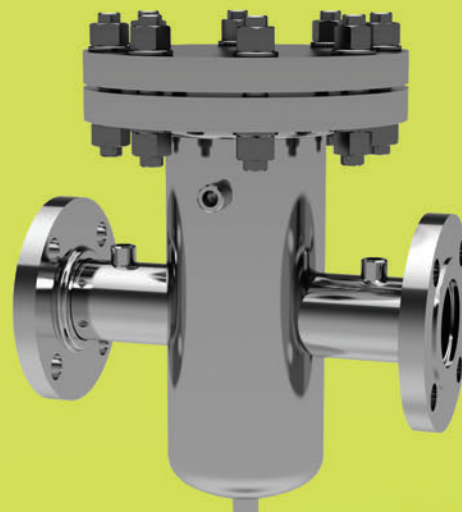


Type	GC 01	GC 02	GC 10	GC 20	G 0,5	G 1	G 1,5	G 2	G 2,5	G 3	G 4	G 5	G 6
H (mm)	50	65	100	130	120	165	210	270	283	320	415	470	625
Ø A (mm)	70	90	70	90	80	95	120	165	200	252	299	390	475
Ø B (mm)	30	40	30	40	35	50	69	86	110	138	186	246	320
Filtering Area (sqm)	0,066	0,12	0,12	0,22	0,06	0,125	0,23	0,47	0,725	0,95	1,45	2,30	4,20

CARTRIDGE FILTERS TYPE A. / AB.

MAIN FEATURES

- Max working pressure: 17,6 bar
- Max working temperature: up to 60°C
- Service: natural gas, town gas, non corrosive gases
- Collecting capacity: over 12% of total filter capacity with drain on bottom part
- Flanging: ANSI 150 RF and PN 16 UNI/DIN
- Connections: in-line A. / or right angles AB.



MATERIALS

- Pipe: ASTM A 106 Gr. B
- Flanged: ASTM A 105

FILTERING ELEMENT

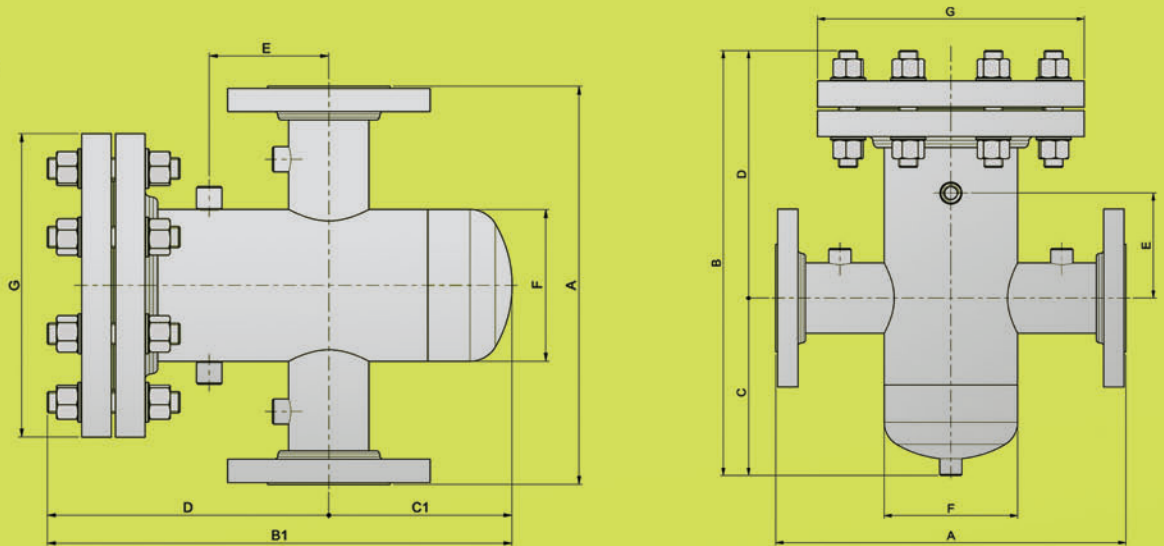
- Material: Felt polyester drilled and reinforcing steel plate.
- Filtering capacity: 3 - 5 - 50 µm
- Efficiency: 98%
- Type: 0,5 - 1 - 1,5 - 2 - 2,5 - 3 - 4 - 5 - 6

ACCESSORIES

- Single or double drain ball valve
- Clogging indicator
- Loss of pressure indicator with remote switch (reed contact)
- 3 valves 5 ways carbon or stainless steel manifold for loss of pressure indicator by-pass
- Pressure gauge
- Differential pressure switch
- Level gauge switch

Type	Available Nozzle DN				Drain DN	Cartridge Type	Cartridge Q.ty	Weight (kg)	Total Volume (liters)	Collecting Vol. (liters)
A.0,5 AB.0,5	25	32	40	50	1/2"	G0,5	1	30	3	1
A.1 AB.1	-	-	40	50	1/2"	G1	1	30	5	1,2
A.1,5 AB.1,5	-	-	65	80	1/2"	G1,5	1	42	10	2
A.2 AB.2	-	-	80	100	1/2"	G2	1	60	20	5
A.2,5 AB.2,5	-	-	100	125	1/2"	G2,5	1	85	40	8
A.3 AB.3	-	-	125	150	1"	G3	1	115	60	14
A.4 AB.4	-	-	150	200	1"	G4	1	250	180	27
A.5 AB.5	-	-	200	250	1"	G5	1	350	215	50
A.6	-	-	300	350	1"	G6	1	800	420	85

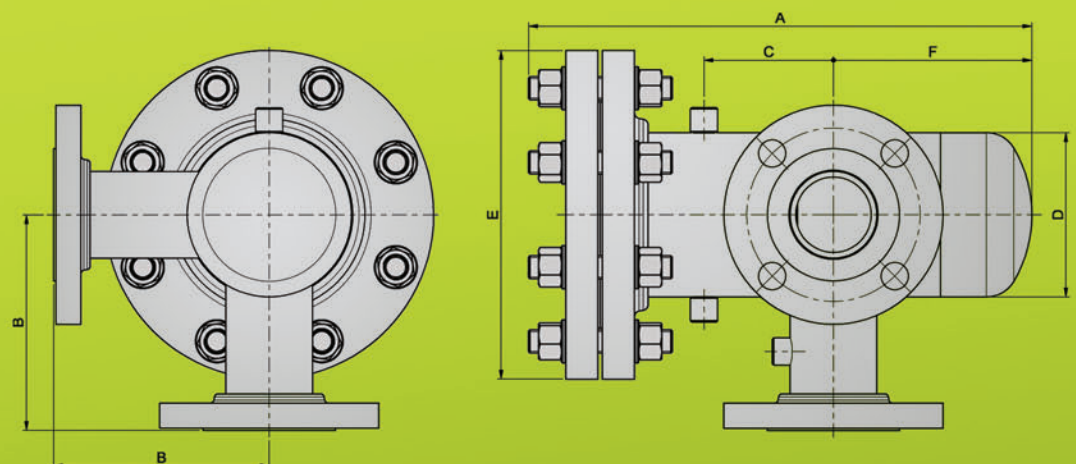
TYPE A.



Type	0,5	1	1,5	2	2,5	3	4	5	6
A	300	400	450	500	600	650	800	900	1100
B	368	443	528	642	744	852	1032	1192	1490
B1	350	426	512	624	726	835	1010	1172	1787
C	156	178	207	233	271	310	360	444	487
C1	138	161	191	215	253	293	338	424	470
D	212	265	321	409	473	542	672	748	1003
E	90	120	148	234	237	298	405	450	912
F	114,3	141,3	168,3	219,1	273	323,8	406,4	508	609
G	220	250	285	340	405	460	580	715	812

dimensions in mm

TYPE AB.



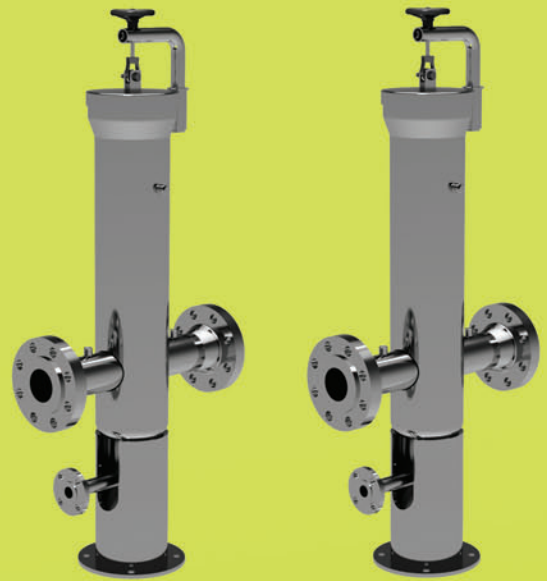
Type	0,5	1	1,5	2	2,5	3	4	5
A	360	425	512	825	726	837	1078	1250
B	150	200	230	250	300	350	400	450
C	115	120	148	234	239	300	405	450
D	114,3	141,3	168,3	219,1	273	323,8	406,4	508
E	220	250	285	340	405	460	580	715
F	138	159	190	215	293	293	336	425

dimensions in mm

CARTRIDGE FILTERS TYPE HPA.

MAIN FEATURES

- Max working pressure: up to 85 bar
- Max working temperature: up to 100 °C
- Service: natural gas, town gas, non corrosive gases.
- Quick opening clousure
- Colletting capacity: over 12% of total filter capacity with drain on bottom part
- Flanging: ANSI 300/600 RF o RJ
- Connections: in-line.



MATERIALS

- Pipe: ASTM A 106 Gr. B
- Flanged: ASTM A 105

FILTERING ELEMENT

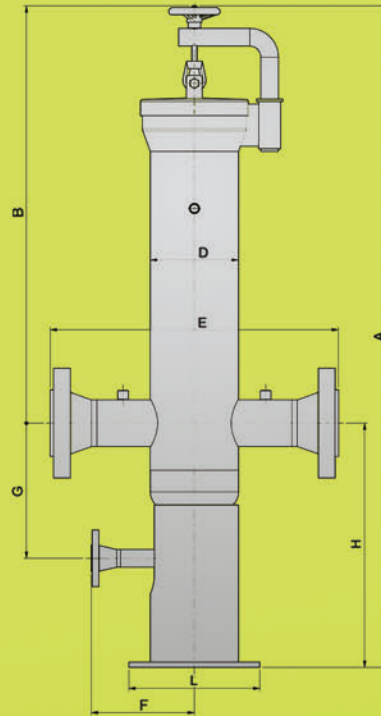
- Material: Felt polyester drilled and reinforcing steel plate.
- Filtering capacity: 3 - 5 - 50 µm
- Efficiency: 98%
- Type: 1 - 1,5 - 2 - 10 - 15 - 20 - 25 - 30 - 40 - 50 - 60

ACCESSORIES

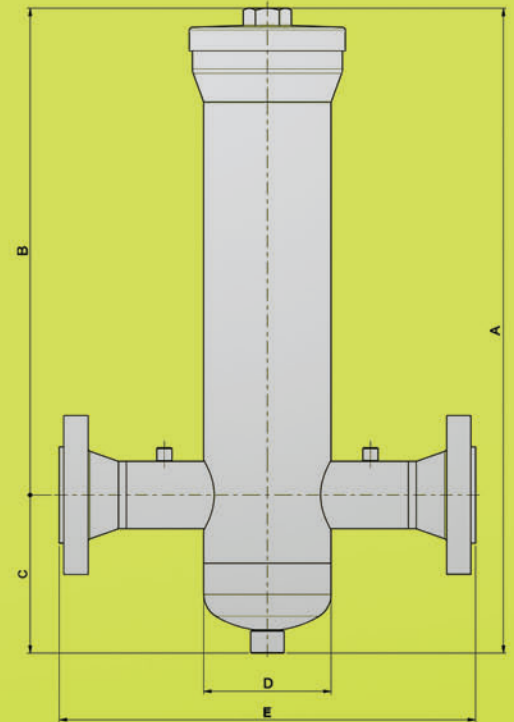
- Single or double drain ball valve
- Clogging indicator
- Loss of pressure indicator with remote switch (reed contact)
- 3 valves 5 ways carbon or stainless steel manifold for loss of pressure indicator by-pass
- Pressure gauge
- Differential pressure switch
- Level gauge switch

Type	Available Nozzle DN				Drain DN	Cartridge Type	Cartridge Q.ty	Weight (kg)	Total Volume (liters)	Collecting Vol. (liters)
HPA.1	1"	1 1/2"	2"	2 1/2"	1/2"	G1	1	55	6	1,2
HPA.1,5	-	2"	2 1/2"	3"	1/2"	G1,5	1	60	10	2
HPA.2	-	-	3"	4"	1/2"	G2	1	110	21	5
HPA.10	-	2"	2 1/2"	3"	1/2"	G1	2	65	10	8
HPA.15	2"	2 1/2"	3"	4"	1/2"	G1,5	2	75	15	14
HPA.20	-	-	3"	4"	1"	G2	2	170	30	27
HPA.25	3"	4"	5"	6"	1"	G2,5	2	320	50	50
HPA.30	-	-	5"	6"	1"	G3	2	370	85	85
HPA.40	-	-	6"	8"	1"	G4	2	690	170	85
HPA.50	-	6"	8"	10"	1 1/2"	G5	2	1400	320	85
HPA.60	8"	10"	12"	14"	1 1/2"	G6	2	2000	550	85

TYPE HPA.



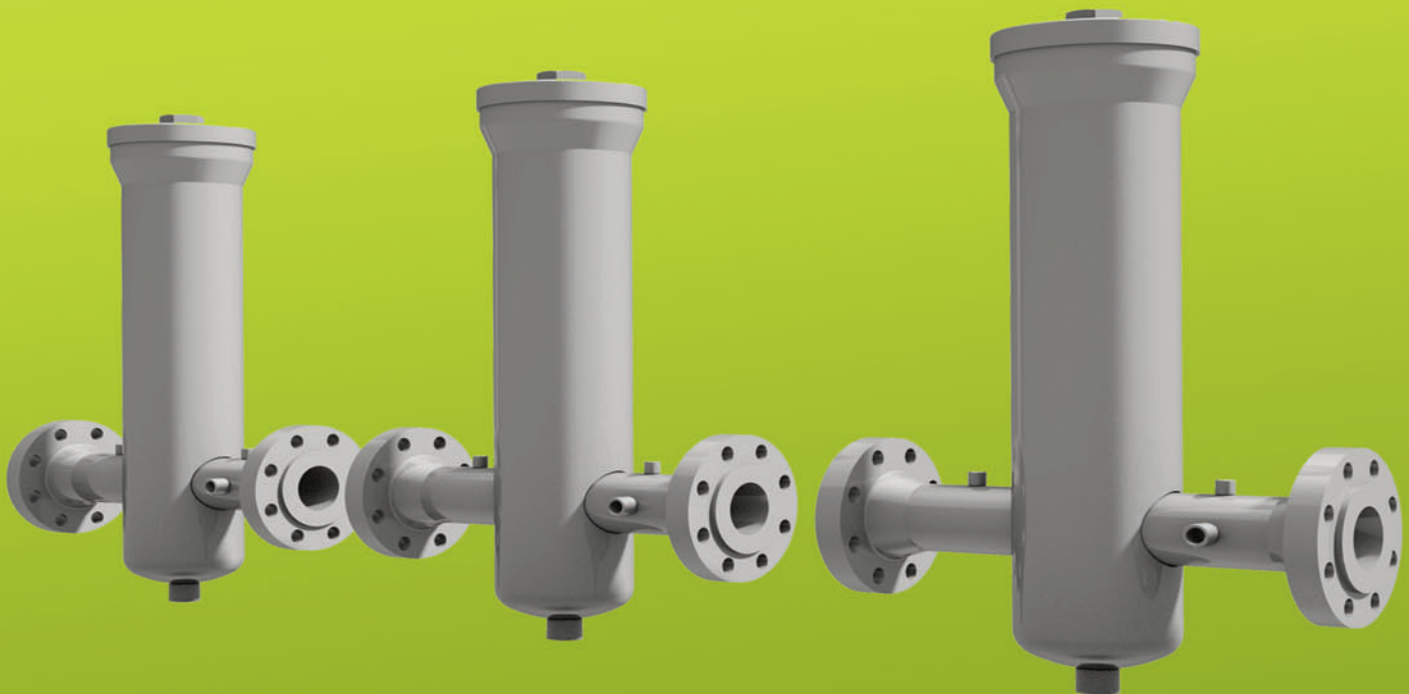
HPA.30 - HPA.60

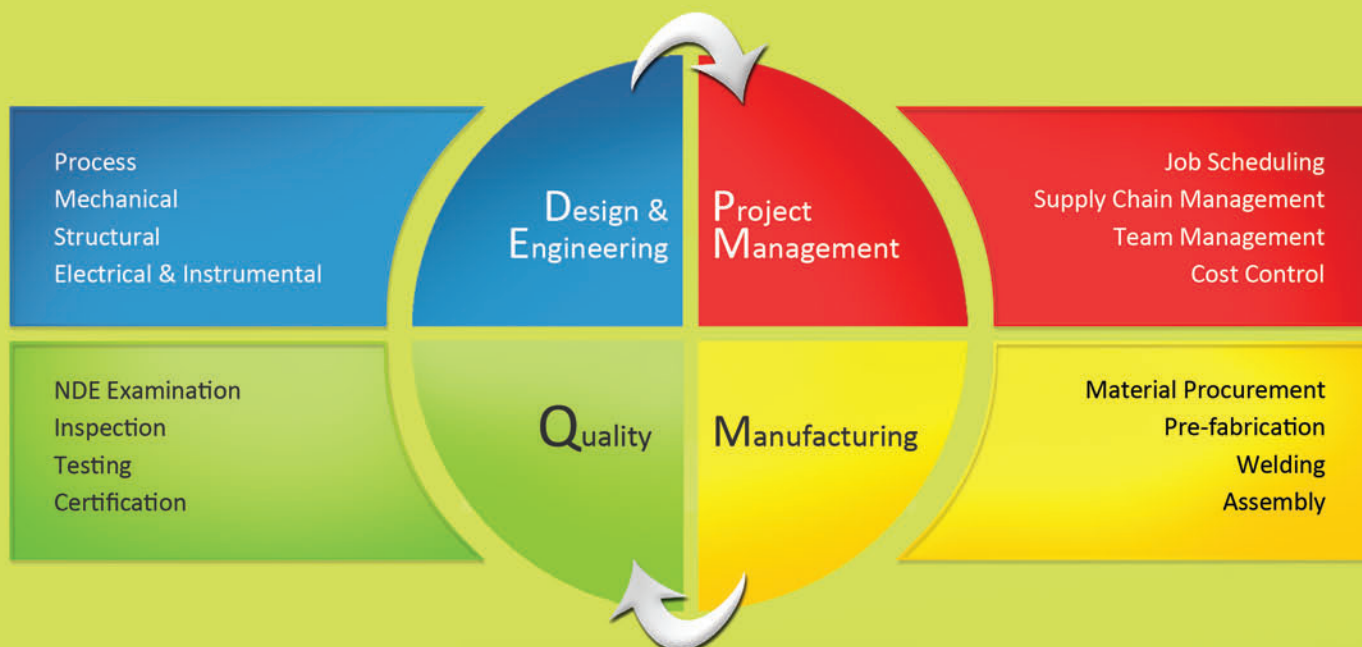


HPA.1 - HPA.15

Type	1	1,5	2	10	15	20	25	30	40	50	60
A	530	613	756	706	860	1560	1600	2031	2435	2694	3209
B	343	404	488	519	630	1230	1235	1611	1885	2034	2459
C	187	209	268	187	230	-	-	-	-	-	-
D	141,3	168,3	219,1	141,3	168,3	219,1	273	323,8	406,4	508	609,6
E	500	550	650	500	550	650	750	800	1000	1100	1200
F	-	-	-	-	-	200	200	250	320	350	400
G	-	-	-	-	-	330	365	420	550	660	750
H	-	-	-	-	-	800	800	800	900	1000	1100
L	-	-	-	-	-	350	425	475	520	640	700

dimensions in mm





Total Area: 8.000 m2
 Covered Area: 3.000 m2
 Open Area: 5.000 m2
 Capacity Crane: 20 tons

Total Area: 4.000 m2
 Covered Area: 2.000 m2
 Open Area: 2.000 m2
 Capacity Crane: 50 tons



Headquarter & Workshop #1



Workshop #2



our Brands



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