

**Filters for Filtration of Fuel, Gas or Combustion Air, When Supplying to Gas Burning System or Gas Consuming Applications, Type FG**

**FEATURES :**

- For protection against blockage of devices connected downstream.
- Very high throughput & high purification efficiency
- Easy replacement of filter pads
- Minimal pressure drop across the filter
- Design in accordance with DIN3386

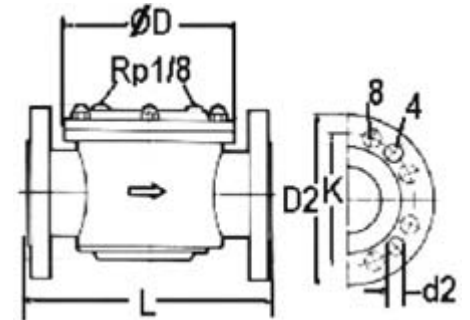


**TECHNICAL SPECIFICATIONS :**

Body	Aluminium Silicon Alloy for Model FG 15-150.
Filter Element	Size 50 Micron, polypropylene fleece.
Size	15, 25 mm BSP/ NPT (F) as per DIN 2999. FG 40 to 150- Flanged construction as per ANSI B16.5 Cl. 150RF or DIN 2501-C, PN 16, inlet plug 1/8" NPT, outlet plug 1/8" NPT, test points on cover.
Fluids	Compatibility for gas in accordance with DIN DVGW Code of practice G260/1 can be used on air, Natural gas, LPG, Bio-gas.
Operating Pressure	4 to 6 bar up to size 150 mm.
Operating Temperature	(-)5° C to (+) 80° C.
Ambient Temperature	Maximum 80° C. Keep minimum distance of 20 mm from surrounding walls.

**NOTE :**

- The installation can be carried out in to horizontal or vertical pipe line. Authorized person must make installation. Check everywhere with soap film or leakage.
- Give maximum pressure 1.2 times of recommended maximum inlet pressure. Exceeding this pressure, may result in bursting of the device.
- Standard filter pads are available in multiple of 10 for sizes up to 50 mm and in multiple of 5 for sizes 65mm and above. Use only genuine filter pads supplied by AVCON.



**SPECIFICATION TABLE :**

**BSP SCREWED DIMENSIONS**

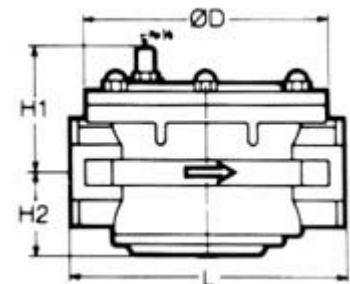
Model	Size	End Connections	Dimensions				Flange		Drilling		Approx. Weight Kgs.
			L	D	H1	H2	D2	K	D2	No. of Holes	
FG 15	15	Rp 1/2	92	88	70	33	--	--	--	--	0.4
FG 20	20	Rp 3/4	92	88	70	33	--	--	--	--	0.4
FG 25	25	Rp 1	135	134	73	44	--	--	--	--	0.8

**ANSI TYPE FLANGE DIMENSIONS**

FG 40A	40	40	256	182	75	63	127	98	16	4	4.0
FG 50A	50	50	250	182	75	63	152	121	19	4	4.2
FG 65A	65	65	250	182	98	96	178	140	19	4	5.2
FG 80A	80	80	330	262	118	88	191	152	19	4	8.0
FG 100A	100	100	350	262	125	120	229	191	19	8	9.3
FG 150A	150	150	470	355	175	170	279	241	22	8	25.0

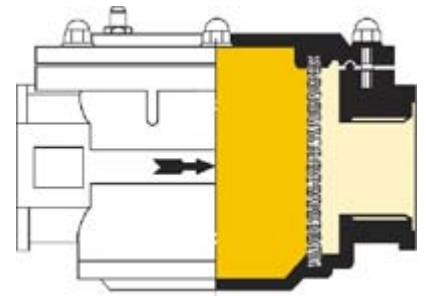
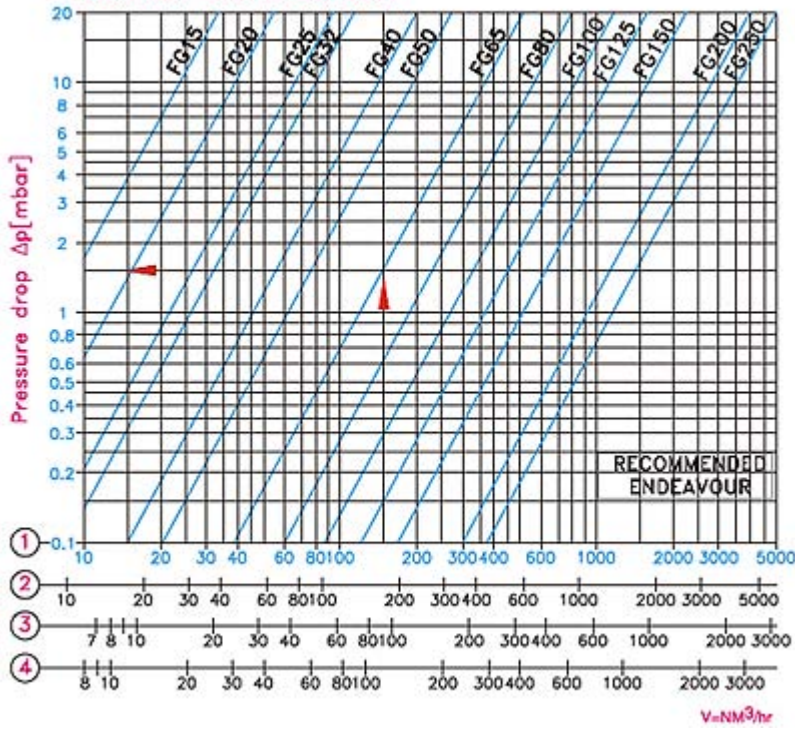
**DIN TYPE FLANGE DIMENSIONS**

FG 40F	40	40	256	182	75	63	150	110	18	4	4.0
FG 50F	50	50	250	182	75	63	165	125	18	4	4.2
FG 65F	65	65	250	182	98	96	185	145	18	4	5.5
FG 80F	80	80	330	262	118	88	200	160	18	8	9.6
FG 100F	100	100	350	262	125	120	220	180	18	8	11.5
FG 150F	150	150	470	355	175	170	285	240	23	8	25.0



# VOLUMETRIC FLOW DIAGRAM

Flow Rate acc. to DIN 3391



### SPECIFIC GRAVITY :

Natural Gas	0.62
Town Gas	0.45
LP Gas	1.56
Air	1.0

### Attention :

When reading the diagram, operating cubic meters must be applied. The pressure loss as read must be multiplied with the absolute pressure in bar (excess pressure + 1). This is to take the density fluctuations in to considerations.

**THE PRESSURE DROP MUST NOT EXCEED 10 mbar.**

### Example :

Excess Gas Pressure: 4 bar , Operating Flow Rate 150 M<sup>3</sup>/hr of Natural Gas.

Filter chosen from the diagram : DN 65, the pressure drop read is 1.5 mbar.

**REAL PRESSURE DROP :  $5 \times 1.5 \text{ mbar} = 7.5 \text{ mbar}$**  The real pressure drop is less than 10 millibar, therefore, correct size filter has been chosen.

### Note:

Technical specifications details & dimensions are subject to change without prior notice. Dimensions in the table are approximate subject to final confirmation by AVCON.