



HP VALVES & FITTINGS INDIA PVT. LTD.

Field Instruments



AIR FILTER REGULATOR

SERVING WORLD WIDE



AIR FILTER REGULATOR

HP Air Filter Regulators are designed for efficient filtration and stable pressure control. It eliminates moisture and dust particles from air and regulates the air to deliver various range of pressure requirements. The design is developed in a way to maintain its performance throughout its working time.

PRINCIPLE OF OPERATION

When the air enters the inlet port, it passes through the filter where the contaminants are removed. While regulating the knob, the spring placed over the diaphragm gets compressed thereby the main valve is actuated to allow the regulated clean air to the outlet. By adjusting the knob suitably, air can be regulated at desired pressure.

CHARACTERISTICS

In a constant air flow, when the set pressure is decreased the back pressure air gets exit through the bleed hole. In a constant air flow, pressure drop in the output pressure at a specific cubic feet per minute (CFM) of air flow is within the accuracy limit.

FEATURES

- Built in compact design with suitable material for corrosion resistance.
- Maintains good regulation and flow characteristics throughout the full flow range.
- Pressure drop of the instrument is negligible.
- Since the efficiency of the filter is good, it removes the dust and moisture particles from the input air.
- Liquid contaminants in the bowl can be drained using drain valve manually.
- Mounting of the instrument can be made easily on both surface and panel.
- Less maintenance is required.

APPLICATIONS

- Filtration & Pressure regulation of air
- Suitable for oil & gas refineries, power plants, paper & petrochemical industries etc.



PRINCIPLE OF OPERATION

Design Pressure	: 18 Kg/cm ² / 250 PSI
Max. Inlet Pressure	: 12 Kg/cm ² / 170 PSI
Outlet Pressure	: Refer below Table
Temperature	: Upto 80°C
End Conn. Thread	: NPT (Optional - BSP)
Bowl Capacity	: 130 CC (Approx.)
Filter Range	: 5-50 µm
Weight	: 750 gms
Mounting	: Surface / Panel
Accuracy	: ± 5%
Drain	: Manual
Pressure Gauge	: Dial Size - 2" (50mm)

MATERIALS

Body	: Aluminium Die Cast / Stainless Steel
Diaphragm	: Nylon Reinforced Neoprene
O-ring	: Nitrile
Filter	: Sintered Bronze
Main Valve	: Nitrile Moulded on Stainless Steel Stem (Optional - Neoprene)
Main Valve Spring	: Stainless Steel
Main Spring	: Spring Steel
Drain Valve	: Brass with Nickel Plated (Optional - SS)
Body Paint	: Hammer tone
Adjustment Knob	: Plastic
Mounting Clamp	: Mild Steel (Optional - Stainless Steel)
Pressure Gauge	: Cast Steel / Stainless Steel

PRODUCT CODE

End Connection	Outlet Pressure Range			
	0 - 2.1 Kg/cm ² 0 - 30 PSI	0 - 4.2 Kg/cm ² 0 - 60 PSI	0 - 7 Kg/cm ² 0 - 100 PSI	0 - 10.5 Kg/cm ² 0 - 150 PSI
1/4"	HPAFR-1	HPAFR-1A	HPAFR-2	HPAFR-2A
3/8"	HPAFR-3	HPAFR-3A	HPAFR-4	HPAFR-4A
1/2"	HPAFR-5	HPAFR-5A	HPAFR-6	HPAFR-6A
3/4"	HPAFR-7	HPAFR-7A	HPAFR-8	HPAFR-8A
1"	HPAFR-9	HPAFR-9A	HPAFR-10	HPAFR-10A



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Roc(CIN): U29120TN2008PTC067808 | GST No: 33AACCH0510P1ZU | IEC No: 408028777