



# Compressed Air Filters | MP series

A comprehensive range of thread filters with 8 models offering connections from 1/2" to 2.1/2" or requirement and capacities up to 26 Nm<sup>3</sup>/min (918 CFM).

## Features of our product

- Extended current route to decrease pressure drop
- High grade aluminum-silicon cartridge
- Water and corrosion resistance surface covered with epoxy resin
- Combined inlet and outlet with screw threads for easy installation
- Various compact designs to fit different pipe sizes
- Reliable automatic drainage
- 6 filtration grades (40 - 0.01 micron) or specific filter elements\*  
\*on customer request



Do surface treatment OK    No surface treatment NG

Furthermore, we adopted an advance technology of surface treatment used in the production process of our filter housing, both internal and external components, which can assure extended usage period.

## Accessories



- Internal float drain (MI01) is fitted to models MP0020 - MP0110 as standard.



- External float drain (HAD20B) is fitted to models MP0140 - MP0260 as standard.





# Filter elements

## Performance guarantee

All M-PLUS compressed air filters carry a guarantee for one year under normal recommended use. The filter elements should be changed at least 12 months (6 months for activated carbon filter).



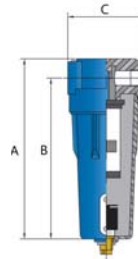
- **More filter media, more efficiency...**  
M-PLUS's filter elements increased performance to aerosol removal efficiency with deep bed filter media that improved filter area for high oil removal efficiency on lifetime.
- **Perforated stainless steel cylinders and extreme bonding,** provide corrosion resistance and elements strength.
- **Outer drainage layer,** high tensile strength and withstands temperatures up to 120°C

Filter Grade	R	Q	P	S	X	Z	
Particle removal	40 micron	25 micron	5 micron	1 micron	0.01 micron	-	
Maximum particle size class to ISO8573-1:2010	-	-	3	2	1	-	
Maximum oil content	-	-	3	2	1	1	
Maximum oil carry over at 20°C	-	10 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	0.1 mg/m <sup>3</sup>	0.01 mg/m <sup>3</sup>	0.003 mg/m <sup>3</sup>	
Pressure loss: clean and dry	-	30 mbar (0.4 psi)	40 mbar (0.6 psi)	75 mbar (1.1 psi)	100 mbar (1.5 psi)	75 mbar (1.1 psi)	
Pressure loss: saturated	55 mbar (0.8psi)	50 mbar (0.7 psi)	75 mbar (1.1 psi)	150 mbar (2.2 psi)	300 mbar (4.4 psi)	-	
Element changed	8000 hours / 12 months (Washable)	8000 hours / 12 months				1000 hours / 6 months	
Flow direction	Outside to In			Inside to Out			

# Technical Specifications

### Working conditions:

- Maximum operating temperature 120°C (248°F)
- Minimum operating temperature 2°C (36°F)
- Maximum operating pressure 228 psig (16 barg)



Model	Connection	Flow-Rate			Dimensions (mm)			Weight	Element Model
	Ø	Nl/min	Nm <sup>3</sup> /hr	SCFM	A	B	C	(Kgs)	
<b>MP0020*</b>	G 1/2"	1,700	102	60	243	217	104	1.2	P0020*
<b>MP0040*</b>	G 1"	3,500	210	124	313	287	104	1.5	P0040*
<b>MP0070*</b>	G 1.1/2"	7,100	426	251	424	385	138	3.0	P0070*
<b>MP0110*</b>	G 1.1/2"	10,600	636	374	624	585	138	3.6	P0110*
<b>MP0140*</b>	G 2"	13,800	828	487	685	639	148	9.5	P0140*
<b>MP0180*</b>	G 2"	17,500	1,050	618	825	779	148	11.8	P0180*
<b>MP0220*</b>	G 2.1/2"	22,100	1,326	780	850	800	150	12.0	P0220*
<b>MP0260*</b>	G 2.1/2"	26,000	1,560	918	1,000	950	150	13.6	P0260*

<b>Pressure (psi)</b>	29	43	57	71	85	<b>100</b>	114	128	142	156	171	185	199	213	228
<b>Pressure (bar)</b>	2	3	4	5	6	<b>7</b>	8	9	10	11	12	13	14	15	16
<b>Correction factor</b>	0.36	0.50	0.63	0.75	0.88	<b>1.00</b>	1.13	1.25	1.38	1.50	1.63	1.75	1.88	2.00	2.13

### Technical notes

- 1) Internal float drain (MI01) is fitted on models MP0020 - MP0110 as standard.
- 2) External float drain (HAD20B) is fitted on models MP0140 - MP0260 as standard.
- 3) Activated carbon must not operate in oil saturated conditions and will not remove certain types of gases including carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>).

