mikropor

HIGH PRESSURE COMPRESSED AIR FILTERS

High Pressure & High Performance

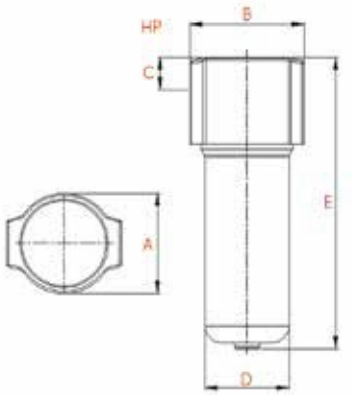
50 bar

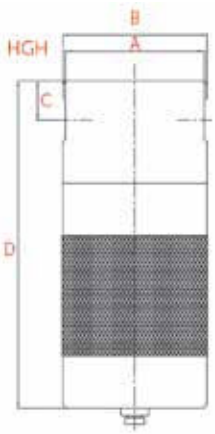
Features

Mikropor manufactures a line of High Performance Compressed Air Filters, Moisture Separators in two different ranges;
50 bar range made of Aluminium. No welding, strong and reliable design.
350 bar range made of Steel. No welding and designed for reliability at very high pressure applications.

Anodised Aluminium Design with High Performance

Mikropor High Pressure Range Compressed Air Filters are NO-weld design. These Filters are built with ample wall thickness and as a result are extremely robust. In-house high pressure test facilities assure the performance. All inner and outer surfaces of 50 bar Aluminium design Filters are Anodised, where 350 bar Carbon Steel design Filters are epoxy electro powder coated.





350 bar

HIGH PRESSURE COMPRESSED AIR FILTERS

Technical Specifications

Model	Drain Port Size	Flow Rate at 50 bar		Max. Working Pressure (bar)	Element Model	Housing Dimensions (mm)				
		(m^3/h)	(cfm)			A	B	C	D	E
HP100	1/4"	71	42	50	M25	106	119	30	88	201
HP300	1/2"	212	125	50	M50	106	119	30	88	201
HP600	3/4"	425	250	50	M100	106	119	30	88	201
HP850	1"	595	350	50	M150	123	140	39.5	103	357
HP1200	1"	850	500	50	M200	123	140	39.5	103	357
HP1600	1 1/2"	1600	940	50	M250	123	140	39.5	103	357
HP2500	2"	2500	1470	50	M2500	159	179	56	133	380
HP3000	2 1/2"	3000	1765	50	M3000	159	179	56	133	380

Model	Drain Port Size	Flow Rate at 350 bar		Max. Working Pressure (bar)	Element Model	Housing Dimensions (mm)			
		(m^3/h)	(cfm)			A	B	C	D
HGH100	1/4"	102	60	350	M25	113.4	115.4	25.75	155
HGH300	1/2"	298	175	350	M50	113.4	115.4	25.75	158.5
HGH600	3/4"	595	350	350	M100	109.4	115.4	32.25	207
HGH850	1"	850	500	350	M150	133	138	37.35	250
HGH1200	1"	1190	700	350	M200	133	138	37.35	314
HGH1600	1 1/2"	2240	1317	350	M250	128	138	44.4	368
HGH2500	2"	3500	2058	350	M2500	145	158	51.5	393
HGH3000	2 1/2"	4200	2470	350	M3000	160	178	57.6	386

Specifications	Pre Filtering	General Purpose	Oil Removal	Activated Carbon
Grade	P	X	Y	A
Particle Removal (Micron)	5	1	0.01	0.01
Max. Oil Carryover at 21°C (mg/m^3)	5	0.5	0.01	0.003
Max. Working Temperature (°C)	80	80	80	25
Initial Pressure Loss (mbar)	40	80	100	80
Pressure Loss for Element Change (mbar)	700	700	700	700
Element Color Mode	White	White	White	Metal SS

Drain Type
HP - Manual Brass Drain
HGH - Manual Brass Drain

Notes

1) Grade A must not operate in oil saturated conditions.
2) Grade A elements should be replaced periodically to suit the applications but must be changed at least every six months.
3) Grade A will not remove certain gases including carbon monoxide and carbon dioxide. Please refer to works if in doubt.
4) Flow rates are based on a 7 bar operating pressure, for flows at other pressures use correction factor given above.
5) All filters are suitable for use with mineral and synthetic oils.
6) Other standards for flanged connections are available.
7) Direction of air flow is inside to out, through filter element.

Ordering

The complete filter model number contains the size and grade, Example - 1/4" general purpose filter model HP100MX with replacement filter element model M100X.

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