

CHP SERIES

CARBON STEEL HIGH PRESSURE FILTERS

operating pressure	100, 250, 400 bar
volume flow rate	40 to 715 Nm³/h
connections	1/4" to 2"
operating temp. range	1,5 to 65 °C
surface protection	Nickel plated 25 µm

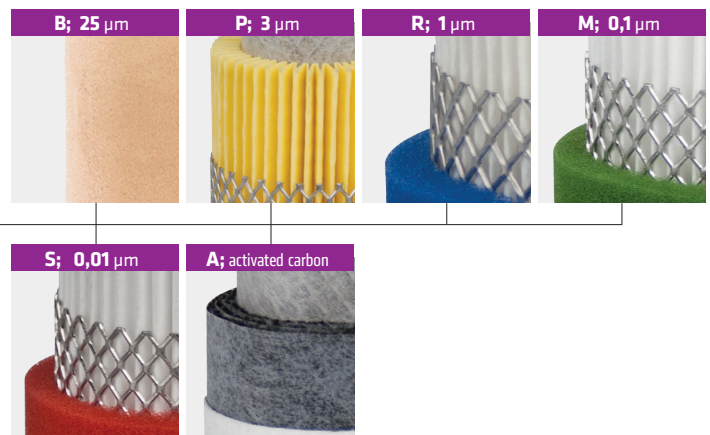
APPLICATIONS

- general industrial applications
- automotive
- electronics
- food and beverage
- chemical
- petrochemical
- plastics
- paint

DESCRIPTION

CHP carbon steel high pressure filters have been developed for high efficient removal of solid particles, water, oil aerosols, hydrocarbons and other vapours from compressed air systems.

To meet the required compressed air quality appropriate filter element (B, P, R, M, S, A) must be installed into filter housing.



Drain valve





TECHNICAL DATA									FILTER ELEMENTS						
Filter housing size	Pipe size	Max. oper. pressure	Flow rate at 7 bar(g), 20 °C		Dimensions [mm]			Mass	B	P	R	M	S	A	
	inch		bar/psi	Nm³/h	scfm	A	B		C	kg	sintered 15 µm	prefilter 3 µm	prefilter 1 µm	microfilter 0,1 µm	microfilter 0,01 µm
CHP 003	1/4"	100/250/400	40	23,5	165	83,5	70	4,6	CHP 0305 B	CHP 0305 P	CHP 0305 R	CHP 0305 M	CHP 0305 S	CHP 0305 A	
CHP 005	3/8"	100/250/400	70	41,2	165	83,5	70	4,6	CHP 0310 B	CHP 0310 P	CHP 0310 R	CHP 0310 M	CHP 0310 S	CHP 0310 A	
CHP 007	1/2"	100/250/400	130	76,5	210	105	85	8,7	CHP 0420 B	CHP 0420 P	CHP 0420 R	CHP 0420 M	CHP 0420 S	CHP 0420 A	
CHP 010	3/4"	100/250/400	195	115	210	105	85	9,3	CHP 0520 B	CHP 0520 P	CHP 0520 R	CHP 0520 M	CHP 0520 S	CHP 0520 A	
CHP 018	1"	100/250/400	275	162	253	119	100	14,8	CHP 0525 B	CHP 0525 P	CHP 0525 R	CHP 0525 M	CHP 0525 S	CHP 0525 A	
CHP 030	1 1/4"	100/250/400	380	223	303	119	100	16	CHP 0725 B	CHP 0725 P	CHP 0725 R	CHP 0725 M	CHP 0725 S	CHP 0725 A	
CHP 047	1 1/2"	100/250/400	495	291	329	146	130	26,5	CHP 0730 B	CHP 0730 P	CHP 0730 R	CHP 0730 M	CHP 0730 S	CHP 0730 A	
CHP 094	2"	100/250/400	715	421	415	182	150	49	CHP 1030 B	CHP 1030 P	CHP 1030 R	CHP 1030 M	CHP 1030 S	CHP 1030 A	
									quality class - solids (ISO 8573-1)	8	6	3	2	1	1 ³⁾
									residual oil content [mg/m³]	-	-	-	<0,1	<0,01	<0,005
									quality class - oils (ISO 8573-1)	-	-	-	2	1	1
									pressure drop - new element [mbar / psi]	20 / 0,29	10 / 0,145	20 / 0,29	50 / 0,725	80 / 1,16	60 / 0,87
									change filter cartridge at pressure drop [mbar / psi]	1)	350 / 5,07	350 / 5,07	350 / 5,07	350 / 5,07	6 months ²⁾
									filter media	sintered brass	acrylic fibres, cellulose	borosilicate micro fibres			activated carbon
									pleated version	-	✓	✓	✓	✓	-
									wrapped version	-	-	-	-	-	✓
									sintered version	✓	-	-	-	-	-
									min. operating temperature (°C / °F)	1,5 / 35	1,5 / 35	1,5 / 35	1,5 / 35	1,5 / 35	1,5 / 35
max. operating temperature (°C / °F)	65 / 149	65 / 149	65 / 149	65 / 149	65 / 149	45 / 113									

CORRECTION FACTORS							
Operating pressure [bar]	7	25	40	64	100	250	400
Operating pressure [psi]	100	362	580	928	1450	3625	5800
Correction factor	1	3	5	8	12	12	12

¹⁾ B filter element can be cleaned with ultrasonic bath or with back flushing. Intervals of cleaning depends of application. If necessary replace filter element with new one.
²⁾ Filter elements "A", must be changed periodically to suit application, but at least every 6 months. Activated carbon filters must not operate in oil saturated conditions.
³⁾ Valid if "S" filter cartridge is installed upstream.