

Alloy High Pressure Filters



A unique range of 20 and 50 barg high pressure filters with 22 models offering connections from 1/4" to 3" and capacities up to 4383 Nm³/hr (2580 SCFM).

This unique high pressure range offers excellent value for money whilst still delivering exceptional filtration.

The range comprises of three different housing types all manufactured using high quality diecast aluminium.

Value without compromise

Full corrosion protection on all housings is given by use of a electrophoretic painting both inside and out followed by a tough polyester powder coating on the outside.

All models include the Walker push-fit filter element design with double O-ring seals for extra security and are available in all standard grades.

Custom engineered filter media delivers exceptional filtration with minimal pressure drop

Quality control of these CE marked products includes a hydrostatic test certificate and serial number for complete traceability.



Applications include

Chemical

Food & Beverage

Manufacturing

Military

Oil & Gas



THE QUEEN'S AWARDS
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INTERNATIONAL TRADE
2012





Technical Specification

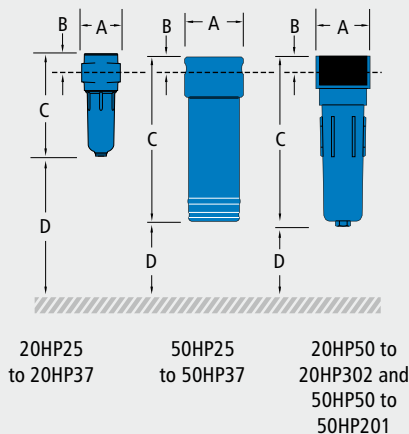
filter model	pipe size	flow rate		dimensions (mm)				weight Kg	element model
		Nm ³ /h	SCFM	A	B	C	D		
20HP25 (grade)	1/4	59	35	72	35	184	75	0.65	E1003 (grade)
20HP37 (grade)	3/8	85	50	72	35	184	75	0.65	E1503 (grade)
20HP50 (grade)	1/2	110	65	114	38	270	152	2.0	E2005 (grade)
20HP75 (grade)	3/4	219	129	114	38	270	152	2.0	E2505 (grade)
20HP100 (grade)	1	292	172	114	38	352	152	2.5	E2008 (grade)
20HP101 (grade)	1	438	258	114	38	352	152	2.5	E2508 (grade)
20HP150 (grade)	1 1/2	658	387	146	51	490	165	5.0	E2512 (grade)
20HP151 (grade)	1 1/2	877	516	146	51	490	165	5.0	E2712 (grade)
20HP200 (grade)	2	1315	774	146	51	490	165	5.0	E3012 (grade)
20HP201 (grade)	2	1899	1118	146	51	685	165	6.0	E3020 (grade)
20HP300 (grade)	3	2922	1720	229	64	681	178	15.0	E5020 (grade)
20HP301 (grade)	3	3653	2150	229	64	810	178	15.0	E5024 (grade)
20HP302 (grade)	3	4383	2580	229	64	962	178	16.0	E5030 (grade)
50HP25 (grade)	1/4	160	94	63	15	150	50	0.3	HP1535 (grade)
50HP37 (grade)	3/8	250	147	63	15	190	50	0.3	HP1550 (grade)
50HP50 (grade)	1/2	450	265	114	38	305	150	2.6	HP2040 (grade)
50HP75 (grade)	3/4	550	324	114	38	305	150	2.6	HP2540 (grade)
50HP101 (grade)	1	835	492	114	38	395	150	3.3	HP2080 (grade)
50HP150 (grade)	1 1/2	1250	736	146	50	435	170	7.5	HP2580 (grade)
50HP151 (grade)	1 1/2	1725	1015	146	50	435	170	7.5	HP2512 (grade)
50HP200 (grade)	2	1925	1132	146	50	435	170	7.5	HP2512 (grade)
50HP201 (grade)	2	3200	1882	146	50	635	170	10.0	HP2520 (grade)

Coalescing filter element grades

Grade	X25		X5		X1		XA		AC	
Particle removal	25 micron		5 micron		1 micron		0.01 micron		0.01 micron	
Maximum oil carryover at 20°C (68°F)	10 mg/m ³	8.2 ppm	5 mg/m ³	4.1 ppm	0.1 mg/m ³	0.1 ppm	0.01 mg/m ³	0.01 ppm	0.003 mg/m ³	0.003 ppm
Maximum temperature	120°C	248°F	120°C	248°F	120°C	248°F	120°C	248°F	50°C*	122°F*
Maximum working pressure	20 barg (300 psig) / 50 barg (725 psig)									
Element end cap colour	black									

Dust filter element grades

Grade	RX25		RX5		RX1		RXA		RAC	
Particle removal	25 micron		5 micron		1 micron		0.01 micron		0.01 micron	
Maximum oil carryover at 20°C (68°F)	-	-	-	-	-	-	-	-	0.003 mg/m ³	0.003 ppm
Maximum temperature	120°C	248°F	120°C	248°F	120°C	248°F	120°C	248°F	50°C*	122°F*
Maximum working pressure	20 barg (300 psig) / 50 barg (725 psig)									
Element end cap colour	black									



technical notes

- The direction of air flow is inside to out through the filter element for coalescing grades and outside to in through the filter element for dust grades.
- All alloy high pressure filters are supplied with a drain plug. High pressure drains are available.
- Differential pressure indicators are available for 20 barg applications.
- Activated carbon filters must not operate in oil saturated conditions and will not remove certain types of gases including carbon monoxide (CO) and carbon dioxide (CO₂).
- Alloy high pressure filters and filter elements are suitable for use with mineral and synthetic oils, plus oil-free compressed air applications.
- Threaded filters are manufactured from cast aluminium alloy and are PED 97/23/EC compliant for group 2 gases.
- Threaded connections are Rp (BSP parallel) to ISO 7/1 or NPT to ANSI B2.1 if supplied within North America, with the following exceptions: 50HP25 and 50HP37 are Rc (BSP Taper).
- For NPT connections, add the suffix N e.g. 20HP100X5N.
- Filter elements should be changed every 12 months / 8000 hours (whichever comes first). Activated carbon filter elements should be changed every 6 months / 1000 hours (whichever comes first).
- Silicone free options are available, please contact Sales for details.
- * Recommended operating temperature 25°C (77°F)