

50 barg Alloy High Pressure Filter

Models | 50HP25 to 50HP201

Flow rates 94 SCFM (160 Nm³/hr) 1882 SCFM (3200 Nm³/hr)

Walker Filtration's unique range of 50 barg (725 psig) Alloy High Pressure Filters offer excellent value for money while delivering exceptional filtration performance.

Featuring custom engineered filtration media and available in five filtration grades from 25 to 0.01 Micron and Activated Carbon, our Alloy High Pressure Filters are available in both coalescing and reverse flow particulate (dust) filters.

Manufactured using high quality diecast aluminium with connections from 1/4" to 2" and capacities up to 1882 SCFM (3200 Nm³/hr), these are ideally suited to high pressure manufacturing, food & beverage, military, oil & gas and chemical applications.

All models include a push-fit filter element design with double O-ring seals for extra security.



Comprehensive Range

RP (BSP parallel) threaded connections from 1/4" to 3". NPT connections available upon request



Performance Guaranteed

Each filter is hydrostatically tested prior to dispatch



O-ring Sealing

Double O-ring seal eliminates risk of contaminant bypass for added security

- **Advanced Filtration Technology** Custom engineered filtration media delivers exceptional filtration with minimal pressure drop
- **Corrosion Protection** Internal and external electrophoretic painting followed by tough exterior polyester powder coating
- **Quality Control** All products are CE marked and include a serial number for complete traceability
- **Performance Guaranteed** Each filter is hydrostatic tested prior to dispatch to guarantee quality and performance
- **Supplied as standard with a drain plug** High pressure drains available upon request



**Value
without
compromise**



For further information please call: **+44 (0) 191 417 7816**



Technical Specification

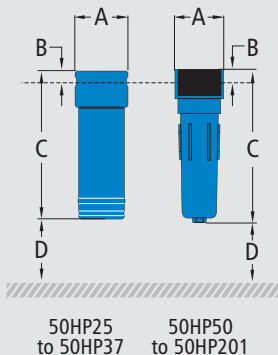
Filter model	Pipe size inches	Inlet flow rate		Dimensions mm				Weight kg	Element model
		Nm ³ /hr	SCFM	A	B	C	D		
50HP25 (grade)	1/4	160	94	63	15	150	50	0.6	HP1535 (grade)
50HP37 (grade)	3/8	250	147	63	15	190	50	0.6	HP1550 (grade)
50HP50 (grade)	1/2	450	265	113	38	285	150	2.8	HP2040 (grade)
50HP75 (grade)	3/4	550	324	113	38	285	150	2.8	HP2040 (grade)
50HP101 (grade)	1	835	492	113	38	368	150	3.4	HP2080 (grade)
50HP150 (grade)	1 1/2	1250	736	146	50	435	170	7.4	HP2580 (grade)
50HP151 (grade)	1 1/2	1725	1015	146	50	435	170	7.4	HP2512 (grade)
50HP200 (grade)	2	1925	1132	146	50	435	170	7.2	HP2512 (grade)
50HP201 (grade)	2	3200	1882	146	50	635	170	9.9	HP2520 (grade)

Grade (Coalescing filter element)	X25		X5		X1		XA		AC	
Particle removal	25 micron		5 micron		1 micron		0.01 micron		0.01 micron	
Max oil carryover at 20°C (68°F)	10 mg/m ³	8.2 ppm	5 mg/m ³	5 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
Max temperature	120°C	248°F	120°C	248°F	120°C	248°F	120°C	248°F	50°C*	122°F*
Max working pressure	50 barg (725 psig)									
Element end cap color	Black									

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

* Recommended operating temperature 25°C (77°F)

Pressure correction factor	for maximum flow rate, multiply model flow rate by the correction factor corresponding to the minimum operating pressure									
Operating pressure 50 barg (725psig)	4 (58)	6 (87)	8 (116)	10 (145)	15 (220)	20 (290)	30 (435)	40 (580)	50 (725)	
50 barg - correction factor	0.14	0.22	0.28	0.34	0.47	0.56	0.70	0.85	1.00	



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 50 barg Alloy High Pressure Filters are supplied with a drain plug. High pressure drains are available.
- 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 2014/68/EU 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. 50HP25NX5.
- Filter elements should be changed every 12 months / 8000 hours (whichever comes first). Activated carbon filter elements should be changed every 6 months.
- Water Separators available on request.

CRN

