

# Stainless Steel High Pressure

Maximum working pressures of 50, 100 & 350 barg  
(725, 1450 & 5000 psig)

**Walker Filtration's Stainless Steel High Pressure Filters provide a comprehensive range of high efficiency, high pressure filters ideal for a wide variety of specialist applications.**

Manufactured from high grade 316L stainless steel and specially coated carbon steel, the range is precision engineered with high pressure applications in mind.

Available in five filtration grades from 25 to 0.01 Micron and Activated Carbon, our stainless steel high pressure range guarantees maximum contaminant removal and offers varied flow rate capacities of 50, 100 and 350 barg (725, 1450 and 5000 psig).

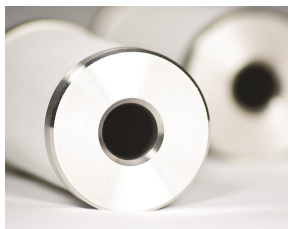
This range of housings can also be adapted to operate as Water Separators or provide flanged connections.



**Comprehensive Range**  
50, 100 and 350 barg  
(725, 1450 and 5000 psig)  
models available



**Flexible Installation**  
Flanged High Pressure Filters  
and Water Separators available  
upon request



**Optimised Filtration Performance**  
Custom engineered filtration  
media for maximum  
contaminant removal

- **Advanced Filtration Technology** Optimum design and high efficiency filtration media provides low pressure losses and increased energy savings
- **Double O-ring Sealing** Push fit element design eliminates risk of contaminant bypass
- **Colour Coded Element End Caps** For easy grade identification on 50 barg (725 psig) models
- **Stainless Steel Element End Caps** On 100 and 350 barg (1450 and 5000 psig) models
- **Performance Guaranteed** Each filter is hydrostatic tested prior to despatch to guarantee quality and performance
- **Supplied as standard with drain plug** High pressure drains available upon request





# Technical Specification

Filter model	Pipe size inches	Inlet flow rate*		Dimensions mm				Weight Kg	Element model
		Nm <sup>3</sup> /hr	SCFM	A	B	C	D		
<b>50 barg (725 psig) maximum working pressure</b>									
C025 (grade)	1/4	100	60	85	18	170	75	1.7	E050 (grade)
C037 (grade)	3/8	200	120	85	18	205	100	2.0	E051 (grade)
C050 (grade)	1/2	340	200	85	18	255	100	2.2	E052 (grade)
C75 (grade)	3/4	500	300	110	27	270	150	4.0	E715 (grade)
C101 (grade)	1	1000	600	110	27	420	300	5.0	E730 (grade)
C150 (grade)	1 1/2	1700	1000	150	45	525	300	15.0	E830 (grade)
C200 (grade)	2	2040	1200	150	45	525	300	15.0	E830 (grade)
C201 (grade)*	2	3400	2000	150	45	825	500	21.0	E86 (grade)

<b>100 barg (1450 psig) maximum working pressure</b>									
100HP24 (grade)	1/4	100	60	65	20	135	70	3.2	HP371 (grade)
100HP49 (grade)	1/2	315	185	65	20	250	180	5.6	HP381 (grade)
100HP75 (grade)	3/4	460	270	88	20	275	250	6.1	HP420 (grade)
100HP100 (grade)	1	680	400	132	26	265	150	10.5	HP710 (grade)
100HP101 (grade)	1	1200	700	132	26	480	300	14.7	HP730 (grade)
100HP150 (grade)	1 1/2	1700	1000	150	45	525	300	22.0	HP830 (grade)
100HP200 (grade)	2	3400	2000	150	45	825	500	28.0	HP860 (grade)

<b>350 barg (5000 psig) maximum working pressure</b>									
350HP24 (grade)	1/4	48	28	41	10	103	60	1.6	HP261 (grade)
350HP26 (grade)	1/4	111	67	65	20	135	70	3.2	HP371 (grade)
350HP50 (grade)	1/2	255	150	88	20	210	150	5.6	HP410 (grade)
350HP75 (grade)	3/4	510	300	88	25	280	250	6.1	HP420 (grade)
350HP100 (grade)	1	750	445	150	35	330	200	14.5	HP710 (grade)
350HP101 (grade)	1	1330	775	150	35	480	300	17.4	HP730 (grade)

Grade	WS	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 <sup>3</sup> 8.2 ppm	5 mg/m <sup>3</sup> 4.1 ppm	0.1 mg/m <sup>3</sup> 0.1 ppm	0.01 mg/m <sup>3</sup> 0.01 ppm	0.003 mg/m <sup>3</sup> 0.003 ppm
Maximum temperature	120°C 248°F	120°C 248°F	120°C 248°F	120°C 248°F	120°C 248°F	50°C** 122°F**
Element end cap colour 50 barg	-	Black	Green	Red	Blue	Black
Element end cap colour 100 & 350 barg	-	Stainless Steel				

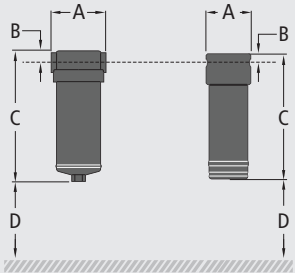
Grade	RX25	RX5	RX1	RXA	RAC
Particle removal	25 micron	5 micron	1 micron	0.1 micron	0.01 micron
Maximum oil carryover at 20°C (68°F)	-	-	-	-	0.003 mg/m <sup>3</sup> 0.003 ppm
Maximum temperature	120°C 248°F	120°C 248°F	120°C 248°F	120°C 248°F	120°C** 248°F**
Element end cap colour 50 barg	Black	Green	Red	Blue	Black
Element end cap colour 100 & 350 barg	Stainless Steel				

## Correction factor

Operating pressure barg (psig)	4 (58)	6 (87)	8 (116)	10 (145)	15 (220)	20 (290)	30 (435)	40 (580)	50 (725)
<b>50 barg</b> Correction factor	0.14	0.22	0.28	0.34	0.47	0.56	0.7	0.85	1.00
Operating pressure barg (psig)	20 (290)	30 (435)	40 (580)	50 (725)	60 (870)	70 (1015)	80 (1160)	90 (1300)	100 (1450)
<b>100 barg</b> Correction factor	0.45	0.57	0.68	0.80	0.84	0.88	0.92	0.96	1.00
Operating pressure barg (psig)	50 (725)	100 (1450)	150 (2175)	200 (2900)	250 (3625)	300 (4350)	350 (5000)		
<b>350 barg</b> Correction factor	0.73	0.78	0.82	0.87	0.91	0.96	1.00		

## Technical notes

- Direction of air flow is inside to out through filter elements for coalescing grades and outside to in for dust grades.
- All 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 (CO<sub>2</sub>).
- Threaded filters 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: 100HP24, 100HP49, 350HP24 and 350HP26 are NPT.
- Threaded connections are Rp (BSP Parallel) to ISO 7-1 or NPT to ANSI/ASME B1.20.1 if supplied within North America. Rc (BSP Taper) to ISO 7-1 also available. For NPT connections, add the suffix N e.g. C755SX5N.
- Filter elements should be changed every 12 months / 8000 hours (whichever comes first). Activated carbon filter elements should be changed every 6 months.
- \* Cannot be used for Water Separators.
- \*\* Recommended operating temperature 25°C (77°F).



C025 (grade) to C201 (grade)      100HP24 (grade) to 350HP101 (grade)

