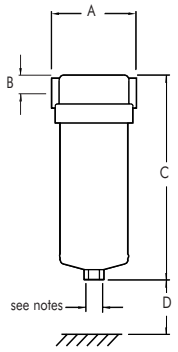
STAINLESS STEEL HIGH PRESSURE FILTERS

Walker Filtration design and manufacture in the UK a comprehensive range of high pressure compressed air and compressed gas filtration products for use in almost every industrial environment. By using in-house research and development facilities we create high quality filtration products which satisfy the increasing demands of today's sophisticated market. Manufactured from high grade stainless steel, the twenty one models available (C25 to 350HP101) offer varied flow rate capacities at 50, 100 and 350 barg (725, 1450 and 5000 psig). Models C25, C37 and C50 incorporate the unique Walker designed 'push on' filter element. This reduces maintenance time and allows the filter to be located in the most confined places. Walker Filtration are able to offer 25, 5, 1 and 0.01 micron and activated carbon filtration grades to encompass all requirements. Low air velocities prevent oil carry-over to ensure guaranteed performance. Drain connections are plugged. A resilient paint finish is applied to the carbon steel range to provide excellent protection against corrosion. This range of housings can also be adapted to operate as water separators.

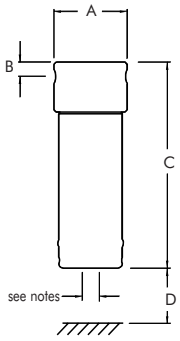
WALKER FILTRATION

TECHNICAL DATA

STAINLESS STEEL HIGH PRESSURE FILTERS



Models C25 to C201



Models 100HP 24 to 350HP 101

FILTER MODEL	PIPE SIZE	FLOW RATE Nm³/h	FLOW RATE SCFM	ELEMENT MODEL	DIMENSIONS mm A	B	C	D	WEIGHT Kg	lb	DIMENSIONS inch A	B	C	D	FILTER MODEL
50 barg (725 psig) maximum working pressure															
C25 (grade)	1/4	100	60	E50 (grade)	85	18	170	75	1.7	3.8	3 1/2	3/4	7	3	C25 (grade)
C37 (grade)	3/8	200	120	E51 (grade)	85	18	205	100	2.0	4.4	3 1/2	3/4	8	4	C37 (grade)
C50 (grade)	1/2	340	200	E52 (grade)	85	18	255	100	2.2	4.9	3 1/2	3/4	10	4	C50 (grade)
C75 (grade)	3/4	500	300	E715 (grade)	110	27	270	150	4.0	8.8	4 1/2	1 1/4	11	6	C75 (grade)
C101 (grade)	1	1000	600	E730 (grade)	110	27	420	300	5.0	11	4 1/2	1 1/4	17	12	C101 (grade)
C150 (grade)	1 1/2	1700	1000	E830 (grade)	150	45	525	300	15	33	6	1 3/4	21	12	C150 (grade)
C200 (grade)	2	2040	1200	E830 (grade)	150	45	525	300	15	33	6	1 3/4	21	12	C200 (grade)
C201 (grade)	2	3400	2000	E86 (grade)	150	45	825	500	21	46	6	1 3/4	33	20	C201 (grade)
100 barg (1450 psig) maximum working pressure															
100HP24 (grade)	1/4	100	60	HP371 (grade)	65	20	135	70	3.2	7.1	2 3/4	3/4	6	3	100HP24 (grade)
100HP49 (grade)	1/2	315	185	HP381 (grade)	65	20	250	180	5.6	12.3	2 3/4	3/4	10	7	100HP49 (grade)
100HP75 (grade)	3/4	460	270	HP420 (grade)	88	20	275	250	6.1	13.5	3 1/2	3/4	11	10	100HP75 (grade)
100HP100 (grade)	1	680	400	HP710 (grade)	132	26	265	150	10.5	23.2	5 1/4	1	11	6	100HP100 (grade)
100HP101 (grade)	1	1200	700	HP730 (grade)	132	26	480	300	14.7	32.4	5 1/4	1	19	12	100HP101 (grade)
100HP150 (grade)	1 1/2	1700	1000	HP830 (grade)	150	45	525	300	22	48.5	6	1 3/4	21	12	100HP150 (grade)
100HP200 (grade)	2	3400	2000	HP860 (grade)	150	45	825	500	28	61.7	6	1 3/4	33	20	100HP200 (grade)
350 barg (5000 psig) maximum working pressure															
350HP24 (grade)	1/4	48	28	HP261 (grade)	41	10	103	60	1.6	3.5	1 3/4	1/2	4	3	350HP24 (grade)
350HP26 (grade)	1/4	111	67	HP371 (grade)	65	20	135	70	3.2	7.1	2 3/4	3/4	6	3	350HP26 (grade)
350HP50 (grade)	1/2	255	150	HP410 (grade)	88	20	210	150	5.6	12.3	3 1/2	3/4	9	6	350HP50 (grade)
350HP75 (grade)	3/4	510	300	HP420 (grade)	88	25	280	250	6.1	13.5	3 1/2	1	11	10	350HP75 (grade)
350HP100 (grade)	1	750	445	HP710 (grade)	150	35	330	200	14.5	32	6	1 1/2	13	8	350HP100 (grade)
350HP101 (grade)	1	1330	775	HP730 (grade)	150	35	480	300	17.4	38.4	6	1 1/2	19	12	350HP101 (grade)

SPECIFICATION	Grade WS	Grade X25	Grade X5	Grade X1	Grade XA	Grade AC	Grade RX25	Grade RX5	Grade RX1	Grade RXA	Grade RAC
Particle removal, micron	-	25	5	1	0.01	0.01	25	5	1	0.01	0.01
Maximum oil carryover at 20°C (mg/m³)	-	10	5	0.1	0.01	0.003	-	-	-	-	0.003
Maximum oil carryover at 68°F (ppm)	-	10	5	0.1	0.01	0.003	-	-	-	-	0.003
Maximum temperature, °C (°F)	120 (248)	120 (248)	120 (248)	120 (248)	120 (248)	25 (77)	120 (248)	120 (248)	120 (248)	120 (248)	25 (77)
Pressure loss-clean & dry, mbar (psi)	70 (1)	30 (0.4)	40 (0.6)	75 (1.1)	100 (1.5)	75 (1.1)	30 (0.4)	40 (0.6)	75 (1.1)	100 (1.5)	75 (1.1)
Pressure loss-oil saturated, mbar (psi)	-	50 (0.7)	75 (1.1)	150 (2.2)	300 (4.4)	see notes	-	-	-	-	see notes
Pressure loss-change element, mbar (psi)	-	700 (10)	700 (10)	700 (10)	700 (10)	see notes	700 (10)	700 (10)	700 (10)	700 (10)	see notes

NOTES

1. High pressure filters are manufactured from 316 grade stainless steel and are PED 97/23/EC compliant. The filters are uncoated.
2. Threaded connections are Rc taper to ISO7/1 or NPT to ANSI B2.1 if supplied within North America.
3. Threaded differential pressure tappings, 1/8" Rc taper to ISO7/1 or NPT to ANSI B2.1 if supplied within North America are included on all models except 100HP24 / 49 and 350HP24 / 26
4. Filter element end caps are colour coded on "C" range and stainless steel on 100HP and 350HP range. Direction of air flow, in to out through filter elements for coalescing grades and out to in through filter element for dust grades. High pressure filters and filter elements are suitable for use with mineral and synthetic oils plus oil free compressed air applications.
5. Grade AC and RAC activated carbon filters must not operate in oil saturated conditions and will not remove certain types of gases including carbon monoxide and carbon dioxide.
6. Differential pressure indicators are available (model 55 DPIW) as an option for 20 barg (290 psig) applications, see differential pressure equipment leaflet.
7. Grade AC elements must be changed periodically to suit application but at least every 6 months.
8. All high pressure filters are supplied with a drain plug.
9. High pressure drain valves are available, see accessory product leaflet.
10. Mounting brackets are available.
11. High pressure filters and filter elements are silicone free.

Use this table for **50 barg (725 psig)** filters

Operating pressure	barg	4	6	8	10	15	20	30	40	50
	psi	58	87	116	145	220	290	435	580	725
Correction factor		0.14	0.22	0.28	0.34	0.47	0.56	0.70	0.85	1

Use this table for **350 barg (5000 psig)** filters

Operating pressure	barg	50	100	150	200	250	300	350
	psi	725	1450	2175	2900	3625	4350	5000
Correction factor		0.73	0.78	0.82	0.87	0.91	0.96	1

Use this table for **100 barg (1450 psig)** filters

Operating pressure	barg	20	30	40	50	60	70	80	90	100
	psi	290	435	580	725	870	1015	1160	1300	1450
Correction factor		0.45	0.57	0.68	0.80	0.84	0.88	0.92	0.96	1

LLOYD'S REGISTER QUALITY ASSURANCE · ISO9001 · UKAS QUALITY MANAGEMENT 001

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