STAINLESS STEEL HIGH PRESSURE FILTERS

WALKER FILTRATION

Leaflet F-11-01-UK

FLUXA

Fluxa Filtri S.p.A.

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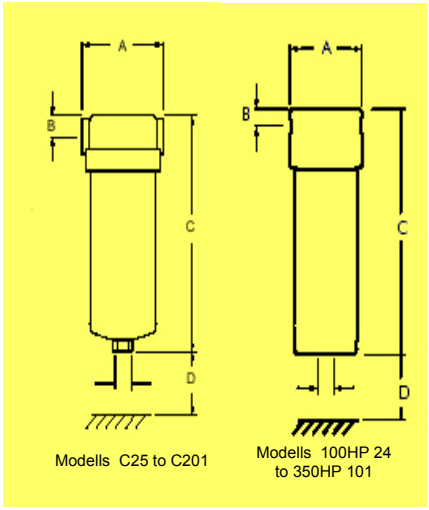
Manufactured from high grade stainless steel, the twenty one models available (C25 to 350HP101) offer varied flow rate capacities at 50, 100 and 350 barg (725, 1450 and 5000 psig). Models C25, C37 and C50 incorporate the unique Walker designed 'push on' filter element. This reduces maintenance time and 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.



Modells C25 to C201

Modells 100HP 24 to 350HP 101

Filter Model	Pipe Size	Flow Rate Nm^3/h	Flow Rate SCMF	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 *	¼	100	60	E50*	85	18	170	75	1.7	3.8	3½	¾	7	3	C25 *
C37 *	⅜	200	120	E51*	85	18	205	100	2.0	4.4	3½	¾	8	4	C37 *
C50 *	½	340	200	E52*	85	18	255	100	2.2	4.9	3½	¾	10	4	C50 *
C75 *	¾	500	300	E715*	110	27	270	150	4.0	8.8	4½	1¼	11	6	C75 *
C101*	1	1000	600	E730*	110	27	420	300	5.0	11	4½	1¼	17	12	C101*
C150*	1½	1700	1000	E830*	150	45	525	300	15	33	6	1¾	21	12	C150*
C200*	2	2040	1200	E830*	150	45	525	300	15	33	6	1¾	21	12	C200*
C201*	2	3400	2000	E86*	150	45	825	500	21	46	6	1¾	33	20	C201*
100 barg (1450 psig) maximum working pressure															
100HP24*	¼	100	60	HP371*	65	20	135	70	3.2	7.1	2¾	¾	6	3	100HP24*
100HP49*	½	315	185	HP381*	65	20	250	180	5.6	12.3	2¾	¾	10	7	100HP49*
100HP75*	¾	460	270	HP420*	88	20	275	250	6.1	13.5	3½	¾	11	10	100HP75*
100HP100*	1	680	400	HP710*	132	26	265	150	10.5	23.2	5¼	1	11	6	100HP100*
100HP101*	1	1200	700	HP730*	132	26	480	300	14.7	32.4	5¼	1	19	12	100HP101*
100HP150*	1½	1700	1000	HP830*	150	45	525	300	22	48.5	6	1¾	21	12	100HP150*
100HP200*	2	3400	2000	HP860*	150	45	825	500	28	61.7	6	1¾	33	20	100HP200*
350 barg (5000 psig) maximum working pressure103															
350HP24*	¼	48	28	HP261*	41	10	103	60	1.6	3.5	1¾	½	4	3	350HP24*
350HP26*	¼	111	67	HP371*	65	20	135	70	3.2	7.1	2¾	¾	6	3	350HP26*
350HP50*	½	255	150	HP410*	88	20	210	150	5.6	12.3	3½	¾	9	6	350HP50*
350HP75*	¾	510	300	HP420*	88	25	280	250	6.1	13.5	3½	1	11	10	350HP75*
350HP100*	1	750	445	HP710*	150	35	330	200	14.5	32	6	1½	13	8	350HP100*
350HP101*	1	1330	775	HP730*	150	35	480	300	17.4	38.4	6	1½	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/m^3)	-	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 350 HP 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 free compressed air applications.
5. Grade AC and RAC activated carbon filters must not operate in oil conditions and will not remove certain types of gases including carbon manoxide 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 filters 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 **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

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

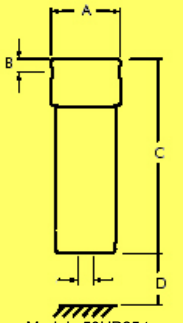
Operating pressure	barg	50	100	150	200	250	300	350
	psi	725	1450	2175	2900	3625	4350	5000
Correction factor		0.73	0.78	0.82	0.87	0.91	0.96	1

ALLOY HIGH PRESSURE FILTERS

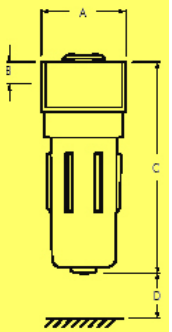
Fluxa Filtri manufacture a unique range of 50 barg (725 psig) high pressure filters using machined or diecast aluminium components. This range offers significant cost reductions over our high pressure stainless steel version whilst offering many design features. There are eight models in this silicone free range from ¼" to 2" pipe connections with flow rates up to 3200 Nm^3/h (1882 scfm) at 50 barg (725 psig). All models feature the Fluxa Filtri push-in filter element design with double 'O' ring seals for extra security and are available in all standard grades including water separators. Full corrosion protection is given by use of a electrophoretic painting both inside and out followed by a tough polyester powder coating on the outside.

Filter Model	Pipe Size	Flow Rate Nm^3/h	Flow Rate SCMF	Element Model	Dimensions mm A	B	C	D	Weight kg	lb	Dimensions inch A	B	C	D	Filter Model
50HP25*	¼	160	94	HP1535*	63	15	150	50	0.25	0.5	2½	½	6	2	50HP25*
50HP37*	⅜	250	147	HP1550*	63	15	190	50	0.27	0.6	2½	½	7½	2	50HP37*
50HP50*	½	450	265	HP2040*	114	38	305	150	2.6	5.7	4½	1½	12	6	50HP50*
50HP75*	¾	550	324	HP2540*	114	38	305	150	2.6	5.7	4½	1½	12	6	50HP75*
50HP101*	1	835	492	HP2080*	114	38	395	150	3.3	7.3	4½	1½	15½	6	50HP101*
50HP150*	1½	1250	736	HP2580*	146	50	435	170	7.5	16.5	5¾	2	21	7	50HP150*
50HP151*	1½	1725	1015	HP2512*	146	50	435	170	7.5	16.5	5¾	2	21	7	50HP151*
50HP200*	2	1925	1132	HP2512*	146	50	435	170	7.5	16.5	5¾	2	21	7	50HP200*
50HP201*	2	3200	1882	HP2520	146	50	635	170	10	22	5¾	2	25	7	50HP201*

* (grade)



Models 50HP25 to 50HP37



Models 50HP50 to 50HP201

Oil removal filter element grades

Specification	Grade WS		Grade X25		Grade XS		Grade X1		Grade XA		Grade 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	10 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$mg/^3$	0.003ppm
Maximum temperature	120°C	248°F	120°C	248°F	120°C	248°F	120°C	248°F	120°C	248°F	25°C	77°F
Pressure loss – clean & dry	-	-	30 mbar	0.4 psi	40 mbar	0.6 psi	75 mbar	1.1 psi	100 mbar	1.5 psi	75 mbar	1.1 psi
Pressure loss – oil saturated	-		50 mbar	0.7 psi	75 mbar	1.1 psi	150 mbar	2.2 psi	300 mbar	4.4 psi	see notes	
Pressure loss – change element	-		400 mbar	6 psi	400 mbar	6 psi	400 mbar	6 psi	400 mbar	6 psi	see notes	
Maximum working pressure	50 barg (725 psig)											
Element end cap colour	BLACK											

Heatless regenerative dryer dust filter element grades

Specification	Grade RX25		Grade RX5		Grade RX1		Grade RXA		Grade 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$mg/^3$	0.003ppm
Maximum temperature	120°C	248°F	120°C	248°F	120°C	248°F	120°C	248°F	25°C	77°F
Pressure loss – clean & dry	30 mbar	0.4 psi	40 mbar	0.6 psi	75 mbar	1.1 psi	100 mbar	1.5 psi	75 mbar	1.1 psi
Pressure loss – oil saturated	-		-		-		-		see notes	
Pressure loss – change element	400 mbar	6 psi	400 mbar	6 psi	400 mbar	6 psi	400 mbar	6 psi	see notes	
Maximum working pressure	50 barg (725 psig)									
Element end cap colour	BLACK									

Notes:

1. *Alloy high pressure filters are manufactured from aluminium and are PED 97/23/EC compliant.*
2. *Threaded connections are RC taper to ISO7/a or NPT to ANSI B2.1 if supplied within North America, (parallel thread available upon request).*
3. *Filter element end caps are colour coded black. Direction of air flow, in to out through filter elements for coalescing grades and out to in through filter element for dust grades.*
4. *Grade AC and RAC activated carbon filters must not operated conditions and will not remove certain types of gases including carbon monoxide and carbon dioxide.*
5. *Grade AC and RAC elements must be changed periodically to suit application but at least every 6 months.*
6. *Differential pressure indicators are available (model 65 DPIW) as an option for 20 barg (290 psig) applications.*
7. *All alloy high pressure filters are supplied with a drain plug, high pressure drain valves are available.*
8. *Mounting brackets are available.*
9. *All filter bodies are painted with the new Walker E-Coat™ and then coated with blue polyester powder paint finish to eliminate corrosion.*
10. *Alloy high pressure filters and filter elements are suitable for use with mineral and synthetic oils plus iol free compressed air applications.*
11. *Alloy high pressure filters and filter elements are silicone free.*

Correction Factor

For maximum flow rate, multiply model flow rate shown in the correction factor corresponding to the working pressure.

Operating pressure	barg	10	20	30	40	50
	psi	145	290	435	580	725
Correction factor		0.34	0.57	0.71	0.86	1.0