

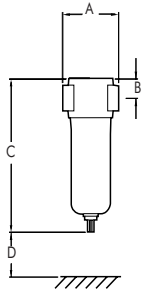
CENTRIFUGAL WATER SEPARATORS



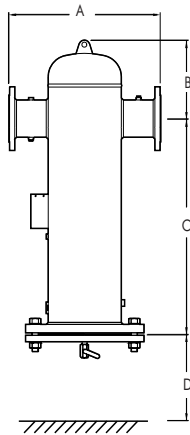
High quality compressed air is essential to pneumatic and automation systems and correct air preparation minimises component failure, increases the operating life of equipment and reduces energy consumption. Water vapour occurs naturally in air and is present in the hot air discharged from air compressors. The hot air will then release condensate as it meets the colder surfaces of down stream

equipment. Although the condensate can be removed via drains, liquid will remain in the air stream. This liquid condensate will break down lubricating oils, increasing friction between moving surfaces and corrode exposed metal components. For compressed air installations where water contamination is a real problem, Walker Filtrations range of silicone free water separators can deal simply and effectively with the problem. Typically, water separators are installed downstream of after coolers and air receivers, refrigerant dryers and at strategic points in pipe work installations. The design utilises an internal spinner which removes large quantities of condensate by centrifugal action. Water separators are available for operating pressures up to 16 barg (232 psig).

W WALKER
FILTRATION



Models A20 WS to A300 WS



Models A391 WS to A1200 WS

MODEL	PIPE SIZE	FLOW RATE		DIMENSIONS mm				WEIGHT		DIMENSIONS inch				MODEL
		Nm ³ /h	SCFM	A	B	C	D	Kg	lb	A	B	C	D	
A20 WS	1/4	35	20	72	35	210	75	0.65	1.45	3	1 1/4	8 1/4	3	A20 WS
A30 WS	3/8	56	33	72	35	210	75	0.65	1.45	3	1 1/4	8 1/4	3	A30 WS
A50 WS	1/2	112	66	88	32	210	100	1.3	2.9	3 1/2	1 1/4	8 1/4	4	A50 WS
A75 WS	3/4	216	127	125	39	300	100	2.7	5.95	5	1 1/2	12	4	A75 WS
A100 WS	1	300	176	125	39	300	100	2.7	5.95	5	1 1/2	12	4	A100 WS
A125 WS	1 1/4	540	318	125	39	300	100	2.7	5.95	5	1 1/2	12	4	A125 WS
A150 WS	1 1/2	725	427	135	50	480	150	4.4	9.7	5 1/2	2	19	6	A150 WS
A200 WS	2	1150	675	135	50	480	150	4.4	9.7	5 1/2	2	19	6	A200 WS
A250 WS	2 1/2	1700	1000	200	68	590	200	11.5	25.5	8	2 3/4	24	8	A250 WS
A300 WS	3	2550	1500	200	68	590	200	11.5	25.5	8	2 3/4	24	8	A300 WS
A391 WS	DN80 3 Flg	2160	1270	450	300	940	700	58	128	17 3/4	12	37	28	A391 WS
A400 WS	DN100 4 Flg	3100	1824	520	300	960	700	74	163	20 1/2	12	38	28	A400 WS
A600 WS	DN150 6 Flg	6500	3824	680	400	1000	700	165	364	26 3/4	15 3/4	40	28	A600 WS
A800 WS	DN200 8 Flg	11000	6470	780	440	1060	700	260	573	30 3/4	17 1/4	42	28	A800 WS
A1000 WS	DN250 10 Flg	17000	10000	900	530	1100	700	450	992	35 1/2	21	44	28	A1000 WS
A1200 WS	DN300 12 Flg	25500	15000	900	600	1100	700	550	1215	35 1/2	23 1/2	44	28	A1200 WS

SPECIFICATION	GRADE WS	
Maximum recommended operating temperature	120°C	248°F
Minimum recommended operating temperature	1.5°C	35°F
Typical pressure loss at rated flow	50 mbar	0.7 psi
Maximum working pressure	16 barg	232 psig

NOTES

1. Threaded separators are manufactured from aluminium and are PED 97/23/EC compliant.
2. Threaded connections are BSP parallel to ISO7/1 or NPT to ANSI B2.1 if supplied within North America.
3. Float operated automatic drain valves, model AD16, with manual override facility are fitted to Models A20 WS to A300 WS. When high quantities of liquid are anticipated, Walker recommend the use of a "no loss" type drain valve.
4. Mounting brackets are available for models A20 WS to A300 WS.
5. All aluminium separator bodies feature the Walker E-Coat™ and are coated with blue polyester powder paint finish to eliminate corrosion.
6. Flanged separators are fabricated from carbon steel and manufactured in accordance with BS EN286, or ASMEVIII and U Stamped for the USA, CRN approved for use within Canada.
7. Flanged connections are to BS 4504 PN16, DIN2633 or ANSI 150 #RF if supplied within North America.
8. 1/2" manual drain valves are fitted to A391 WS to A800 WS, 3/4" fitted to A1000 WS and A1200 WS as standard. An additional 1/2" side entry drain port is included on models A391 WS to A800 WS, 3/4" to A1000WS and A1200WS.
9. Internal centrifugal separator manufactured from nylon for A20 WS to A300 WS and stainless steel for A391 WS to A1200 WS.
10. All flanged separator bodies are coated inside and out with blue polyester powder paint finish to eliminate corrosion.
11. Separators are suitable for use with mineral and synthetic oils plus oil free compressed air applications.
12. Centrifugal water separators are silicone free.

CORRECTION FACTOR

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

Operating Pressure	barg	0.3	0.6	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
		psi	4	9	14.5	29	44	58	72	87	100	115	130	145	160	174	189	203	218
Correction Factor		0.21	0.29	0.38	0.53	0.65	0.76	0.84	0.92	1	1.07	1.13	1.19	1.25	1.31	1.36	1.41	1.46	1.51



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