

OIL-Xplus Stainless Steel Compressed Air Filters



Compressed air systems are often located where the environment and prevailing atmospheric conditions are particularly corrosive. These applications include chemical and petro-chemical installations, offshore drilling platforms and ships, marine and process industries where problems concerning corrosion are increased.

All of the costly problems associated with compressed air contamination can be avoided by installing Parker domnick hunter OIL-Xplus high efficiency compressed air filters.

The OIL-Xplus stainless steel range is particularly ideal for those applications where an aggressive environment is an additional concern.

For 45 years Parker domnick hunter filters have been meeting the needs of the compressed air user by providing the highest quality, clean air to international standards whilst maintaining the lowest running costs.



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Benefits:

- Delivered air quality in accordance with all editions of ISO8573-1, the international standard for compressed air quality
- Suitable for all compressed air applications and all compressor types
- Low lifetime costs
- Coalescing and dust removal filters are covered by one year compressed air quality guarantee which is automatically renewed with annual maintenance
- All OIL-Xplus filter housings are covered by a 10 year housing guarantee
- Helps reduce the release of CO₂ into the environment

OIL-Xplus

High Performance Compressed Air Filtration

Oil Aerosol and Particulate Removal

Typical compressed air filters 'soak up' oil and water and are said to run in a 'wetted out' or saturated state. This temporarily blocks the path of compressed air through the normally open filter structure, and increases the operating pressure drop as the air flow has to force liquids through the fine matrix of the filtration media. This leads to significantly higher energy consumption.

Unlike typical filters, OIL-Xplus filter media does not soak up liquids, ensuring the available open area is kept to a maximum for dirt entrapment. Liquid aerosols coalesce within the anti re-entrainment barrier and fall into the filter bowl to be discharged via the drain.

Solid particulate is captured and held within the open area of the filter media, gradually increasing the differential pressure of the filter to a point where it is more economical to replace the element.

Oil Vapour Removal

Activated carbon with its high affinity for oil vapour is employed in OIL-Xplus grade ACS filters to remove gaseous contaminants such as oil vapours.



OIL-Xplus stainless steel filter housings



OIL-Xplus high efficiency filter elements



Technical Data

Max Pressure	16 bar g (232 psi g)	Filter Type	Initial 'dry' differential pressure	Filter Type	Initial 'wet' differential pressure
Max Temp Grade AO, AA, AR	66°C (150°F)	Grade AO/AR	70 mbar (1,0 psi)	Grade AO	140 mbar (2,0 psi)
Max Temp Grade ACS	30°C (86°F)	Grade AA	100 mbar (1,5 psi)	Grade AA	200 mbar (3,0 psi)
Min Temp	1.5°C (35°F)	Grade ACS	70 mbar (1,0 psi)	Grade ACS / AR	N/A

Filtration Grades

GRADE AO High Efficiency General Purpose Protection	Particle removal down to : 1 micron, including water and oil aerosols. Maximum remaining oil aerosol content: 0.6 mg/m3 at 21°C / 0.5 ppm(w) at 70°F
GRADE AA High Efficiency Oil Removal Filtration	(Precede with Grade AO filter) Particle removal down to: 0.01 micron, including water and oil aerosols. Maximum remaining oil aerosol content: 0.01 mg/m3 at 21°C / 0.01 ppm(w) at 70°F
GRADE ACS Oil Vapour & Odour Removal	(Precede Grade ACS with Grade AA filter) Maximum remaining oil vapour content: 0.003 mg/m3 at 21°C / 0.003 ppm(w) at 70°F
GRADE AR General Purpose Dust Filtration	Dry Particle removal down to : 1 micron

Stated flows are for operation at 7 bar g (100 psi g) with reference to 20°C, 1 bar a, 0% relative water vapour pressure. For flows at other pressures apply the correction factors shown.

- To correctly select a filter model, the flow rate of the filter must be adjusted for the minimum operating pressure of the system
1. Obtain the minimum operating pressure and maximum compressed air flow rate at the inlet of the filter.
 2. Select the correction factor for minimum operating pressure from the CFP table (always round down e.g. for 5.3 bar, use 5 bar correction factor)
 3. Calculate the minimum filtration capacity
Minimum Filtration Capacity = Compressed Air Flow Rate x CFP
 4. Using the minimum filtration capacity, select a filter model from the flow rate tables above (filter selected must have a flow rate equal to or greater than the minimum filtration capacity)

Product Selection

Filter Type	Port Size	L/s	m³/min	m³/h	cfm	Replacement Element Kit	No.
(grade) 0009GSS	G 1/4	9	0.53	32	19	K009 (grade)	1
(grade) 0017GSS	G 3/8	17	1.02	61	36	K017 (grade)	1
(grade) 0030GSS	G 1/2	30	1.80	108	64	K030 (grade)	1
(grade) 0058GSS	G 3/4	60	3.60	216	127	K058 (grade)	1
(grade) 0080GSS	G 1	80	4.80	288	170	K145 (grade)	1
(grade) 0145GSS	G 1 1/2	145	8.70	522	307	K145 (grade)	1
(grade) 0220GSS	G 2	220	13	792	466	K220 (grade)	1
(grade) 0330GSS	G 2	330	20	1.188	699	K330 (grade)	1
(grade) 0405GSS	G 2 1/2	400	24	1.440	848	K430 (grade)	1
(grade) 0430GSS	G 3	430	26	1.548	911	K430 (grade)	1

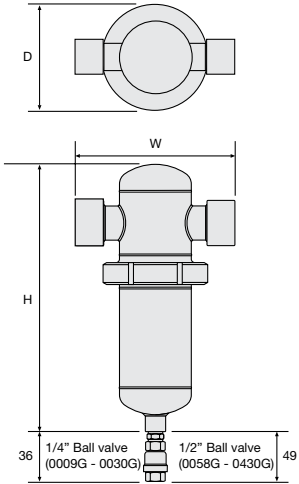
Correction Factors

Line Pressure	bar g	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	psi.g	15	29	44	58	73	87	100	116	131	145	160	174	189	203	218	232
Correction Factor (CFP)		2.65	1.87	1.53	1.32	1.18	1.08	1.00	0.94	0.88	0.84	0.80	0.76	0.73	0.71	0.68	0.66

Weights and Dimensions

Filter Type	Height (H)		Width (B)		Depth (T)		Weight	
	mm	ins	mm	ins	mm	ins	Kg	lbs
(grade) 0009GSS	210	8.3	145	5.7	112	4.4	2.5	5.5
(grade) 0017GSS	236	9.3	145	5.7	112	4.4	2.5	5.5
(grade) 0030GSS	270	10.6	154	6.1	112	4.4	2.5	5.5
(grade) 0058GSS	382	15.0	190	7.5	148	5.8	4.5	9.9
(grade) 0080GSS	506	19.9	200	7.9	148	5.8	5.0	11.0
(grade) 0145GSS	506	19.9	225	8.9	148	5.8	5.0	11.0
(grade) 0220GSS	628	24.7	280	11.0	210	8.3	10.0	26.4
(grade) 0330GSS	938	36.9	280	11.0	210	8.3	12.0	26.4
(grade) 0405GSS	698	27.5	290	11.4	210	8.3	12.0	26.4
(grade) 0430GSS	698	27.5	300	1.8	210	8.3	12.0	26.4

Housing constructed from Stainless Steel : Grade 316L



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