OIL-Xplus 0003G
Compressed Air Filters

Grade AO General Purpose & Grade AA High Efficiency
Coalescing & Dry Particulate Filters
Grade ACS Oil Vapour Reduction Filters (8mm Push In)

Coalescing & Dry Particulate Filters

Coalescing filters are the most important items of purification equipment in any compressed air system. They are designed to treat 6 of the 10 main contaminants found in compressed air (aerosols of oil & water and solid particulates such as atmospheric particulate, rust, pipescale and micro-organisms).

The origins of modern compressed air filtration can be traced back to domnick hunter in 1963, it was the first company to use microfibre filter media for purification applications, changing the compressed air industry forever. The OIL-X filter range was the first filter range to fully utilise this ground breaking technology and has always been synonymous with high quality compressed air. Now in the 21st century, the OIL-X name remains, but the technology has evolved beyond recognition.

Parker domnick hunter OIL-Xplus

Since the introduction of the first OIL-X range, Parker domnick hunter has continued to develop both the compressed air filter and the standards governing compressed air quality. Constantly innovated, OIL-X has become the leading technology for compressed air filtration, providing the exact balance between air quality, energy efficiency and low lifetime costs.

Advantages

- High quality compressed air just where you need it
- Final protection for equipment and processes
- Small size for point of use applications
- Easy installation inside cabinets, etc.
- Coalescing & Dry Particulate filter media is coated and constructed to reduce air flow velocity and pressure loss
- High dirt holding capacity
- Low running costs
- Peace of mind

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Filtration Performance

Filtration Grade	Filter Type	Particle Reduction (inc water & oil aerosols)	Max Remaining Oil Content at 21°C (70°F)	Filtration Efficiency	Initial Dry Differential Pressure	Initial Saturated Differential Pressure	Change Element Every	Precede with Filtration Grade
AO	Coalescing & Dry Particulate	Down to 1 micron	0.5 mg/m³ 0.5 ppm(w)	99.925%	<70 mbar (<1 psi)	<140 mbar (<2 psi)	12 months	-
AA	Coalescing & Dry Particulate	Down to 0.01 micron	0.01 mg/m³ 0.01 ppm(w)	99.9999%	<140 mbar (<1.5 psi)	<200 mbar (<3 psi)	12 months	AO
ACS	Oil Vapour Reduction	N/A	0.003 mg/m³ 0.003 ppm(w)	N/A	<140 mbar (<1.5 psi)	N/A	When oil vapour is detected	A0+AA

Important Note:
Using the same filter housings as their coalescing and dry particulate counterparts, Grade ACS filter elements differ in that they utilise a wrapped bed of carbon cloth to adsorb oil vapour. It is important to note, in-line adsorption filter elements have a different life span compared to coalescing and dry particulate filters and require more frequent element changes.

Technical Data

Filtration Grade	Filter Models	Min Operating Pressure		Max Operating Pressure		Min Operating Temperature		Max Operating Temperature	
		bar g	psi g	bar g	psi g	°C	°F	°C	°F
AO/AA	0003G	1	14.5	10	145	2	35	50	122
ACS	0003G	1	14.5	10	145	2	35	30	86

Flow Rates

Model	Pipe Size	L/S	m³/min	m³/hr	cfm	Replacement Element	No.
AO-0003G	8mm Push In	3	0.18	11	6	K003AO	1
AA-0003G	8mm Push In	3	0.18	11	6	K003AA	1
ACS-0003G	8mm Push In	3	0.18	11	6	K003ACS	1

All models include a manual / constant bleed drain

Stated flows are for operation at 7 bar (g) (102 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 below.

Product Selection & Correction Factors

To correctly select a filter model, the flow rate of the filter must be adjusted for the minimum operating (inlet) pressure at the point of installation.

1. Obtain the minimum operating (inlet) pressure and maximum compressed air flow rate at the inlet of the filter.
2. Select the correction factor for minimum inlet pressure from the CFMIP 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).

CFMIP - Correction Factor Minimum Inlet Pressure

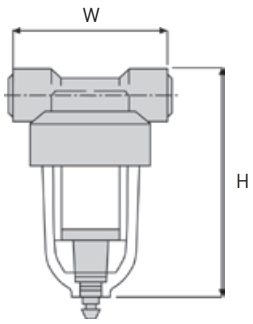
Minimum Inlet Pressure											
	bar g	1	2	3	4	5	6	7	8	9	10
	psi g	15	29	44	58	73	87	100	116	131	145
Correction Factor		2.65	1.87	1.53	1.32	1.18	1.08	1.00	0.94	0.88	0.84

Filtration Tested In Accordance With

Filtration Grade	AO	AA	ACS
Filter Type	Coalescing & Dry Particulate	Coalescing & Dry Particulate	Oil Vapour Reduction
Test Methods Used	ISO8573-2 ISO8573-4	ISO8573-2 ISO8573-4	ISO8573-5
ISO12500-1 Inlet Challenge Concentration	3 mg of oil aerosol per cubic metre of compressed air	3 mg of oil aerosol per cubic metre of compressed air	0.018 mg of oil vapour per cubic metre of compressed air

Weight & Dimensions

Model	Height (H)		Width (W)		Depth (D)		Weight	
	mm	ins	mm	ins	mm	ins	kg	lbs
0003G	89	3.5	58	2.3	56	2.2	0.1	0.2



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