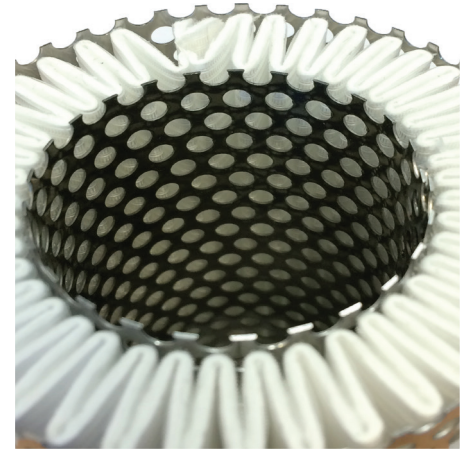


# OIL-X Die-cast Aluminium Compressed Air Filters

Grade AO General Purpose & Grade AA High Efficiency Coalescing & Dry Particulate Filters (1/4" ~ 4")



## 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-X

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

- Meets or exceeds the requirements for delivered air quality shown in all editions of ISO8573-1, the international standard for compressed air quality
- Deep pleated filter element – Filter media is constructed to reduce air flow velocity and pressure loss whilst providing increased dirt holding capacity, and improved filtration efficiency
- Flow management system - Engineered to provide smooth air flow from entry to exit, the filter element design includes a 90-degree elbow, turning vanes and conical flow diffuser to promote a consistent, optimum air flow with minimal pressure loss
- Filter Media Optimisation - The flow management system also evenly distributes compressed air flow throughout the element ensuring optimum filtration performance again with low pressure loss
- Parker OIL-X coalescing and dry particulate filters are fully tested – In accordance with ISO12500-1 / ISO8573-2 for oil aerosol and ISO8573-4 for particulate
- Filtration performance independently validated - by Lloyds Register
- Parker OIL-X materials of construction are FDA Title 21 CFR compliant & EX1935/2004 exempt
- Air Quality Guarantee - The only filter range to offer a one year air quality guarantee
- Housing Guarantee - 10 year guarantee on filter housings



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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/m <sup>3</sup> 0.5 ppm(w)	99.925%	<70 mbar (1 psi)	<125 mbar (1.8 psi)	12 months	WS (for bulk liquid)
AA	Coalescing & Dry Particulate	Down to 0.01 micron	0.01 mg/m <sup>3</sup> 0.01 ppm(w)	99.9999%	<70 mbar (1 psi)	<125 mbar (1.8 psi)	12 months	AO

## Technical Data

Filter 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	P010 - P055 (Float Drain)	1	15	16	232	2	35	80	176
AO/AA	P010 - P055 (Manual Drain)	1	15	20	290	2	35	80	176
AO/AA	P060 (Float Drain)	1	15	16	232	2	35	66	150
AO/AA	P060 (Manual Drain)	1	15	20	290	2	35	100	212

## Flow Rates

Model	Pipe Size	L/S	m <sup>3</sup> /min	m <sup>3</sup> /hr	cfm	Replacement Element	No.
Grade P010A	1/4"	10	0.6	36	21	P010	1
Grade P010B	3/8"	10	0.6	36	21	P010	1
Grade P010C	1/2"	10	0.6	36	21	P010	1
Grade P015C	1/2"	20	1.2	72	42	P015	1
Grade P020C	1/2"	30	1.8	108	64	P020	1
Grade P020D	3/4"	30	1.8	108	64	P020	1
Grade P025D	3/4"	60	3.6	216	127	P025	1
Grade P025E	1"	60	3.6	216	127	P025	1
Grade P030G	1 1/2"	110	6.6	396	233	P030	1
Grade P035G	1 1/2"	160	9.6	576	339	P035	1
Grade P040H	2"	220	13.2	792	466	P040	1
Grade P045I	2 1/2"	330	19.8	1188	699	P045	1
Grade P050I	2 1/2"	430	25.9	1548	911	P050	1
Grade P055I	2 1/2"	620	37.3	2232	1314	P055	1
Grade P055J	3"	620	37.3	2232	1314	P055	1
Grade P060K	4"	1000	60	3600	2119	P060	3

## Filter coding example

Grade	Model	Pipe Size	Thread	Drain Option	Incident Monitor Option
AO	P & 3 digit code denotes filter housing size	Letter denotes pipe size	G = BSPP N = NPT	F = Float M = Manual	I = Indicator X = None
Example code					
AO	P010	A	G	F	I

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	11	12	13	14	15	16	17	18	19	20
	psi g	15	29	44	58	73	87	100	116	131	145	160	174	189	203	218	232	248	263	277	290
<b>Correction Factor</b>		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	0.64	0.62	0.61	0.59

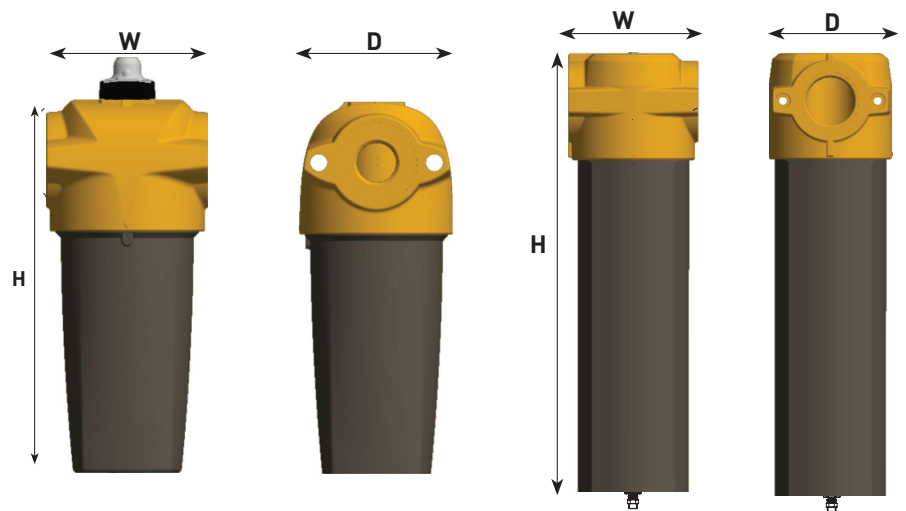
When ordering a filter for pressures above 16 bar g (232 psi g), use a manual drain. Replace F with M in product code. e.g. AOP015BGFI becomes AOP015BGM. Models 150 - 500 are not suitable for pressures above 16 bar g (232 psi g)

## Filtration Tested In Accordance With

Filtration Grade	AO	AA
Filter Type	Coalescing & Dry Particulate	Coalescing & Dry Particulate
Test Methods Used	ISO8573-2 ISO8573-4 ISO12500-1	ISO8573-2 ISO8573-4 ISO12500-1
ISO12500-1 Inlet Challenge Concentration	40 mg of oil aerosol per cubic metre of compressed air	10 mg of oil aerosol per cubic metre of compressed air

## Weight & Dimensions

Model	Height (H)		Width (W)		Depth (D)		Weight	
	mm	ins	mm	ins	mm	ins	kg	lbs
010A	180	7.09	76	2.99	65	2.56	0.84	1.86
010B	180	7.09	76	2.99	65	2.56	0.84	1.84
010C	180	7.09	76	2.99	65	2.56	0.82	1.81
015C	238	9.37	89	3.5	84	3.31	1.16	2.55
020C	238	9.37	89	3.5	84	3.31	1.17	2.58
020D	238	9.37	89	3.5	84	3.31	1.44	3.19
025D	277	10.9	120	4.72	115	4.53	2.14	4.71
025E	277	10.9	120	4.72	115	4.53	2.69	5.92
030G	367	14.45	120	4.72	115	4.53	3.04	6.70
035G	440	20.9	164	6.46	157	6.18	6.90	15.21
040H	532	24.5	164	6.46	157	6.18	7.30	16.09
045I	532	24.5	164	6.46	157	6.18	7.10	15.65
050I	654	29.3	192	7.56	183	7.20	10.30	22.71
055I	844	36.8	192	7.56	183	7.20	15.90	33.05
055J	844	36.8	192	7.56	183	7.20	15.30	33.73
060K	847	33.3	420	16.54	282	11.10	44.50	98.11



## Quality Assurance / IP Rating / Pressure Vessel Approvals

Development / Manufacture	ISO 9001 / ISO 14001
Ingress Protection Rating	Not Applicable
EU	Pressure vessel approved for fluid group 2 in accordance with the Pressure Equipment Directive 2014/68/EU
USA	Approval to ASME VIII Div. 1 not required
AUS	Approval to AS1210 not required
GUS	TR (formerly GOST-R)
<b>For use with Compressed Air Only</b>	

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