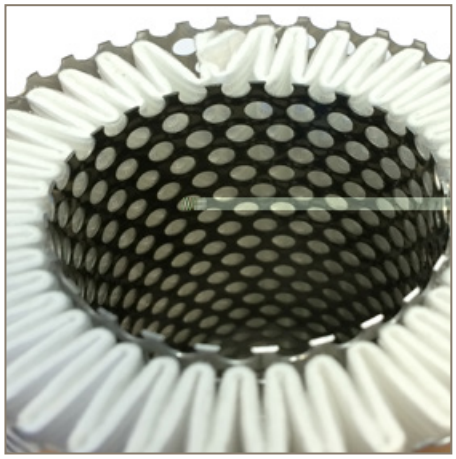
OIL-X Fabricated Carbon Steel Compressed Air Filters

Grade AO General Purpose & Grade AA High Efficiency Coalescing & Dry Particulate Filters
Grade ACS Oil Vapour Reduction Filters (DN80 ~ DN300)



Large Capacity Compressed Air Filters

Compressed air contains 10 contaminants (eminating from 4 sources) which must be treated and reduced to acceptable levels for the compressed air system to operate safely, efficiently and cost effectively.

Many compressed air systems use multiple compressors with individual filtration for flexibility, however for systems using compressors which deliver large volumetric air flows (typically having piping above 4" in diameter), larger capacity filtration is required.

Parker domnick hunter OIL-X Fabricated Filters

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.

The Parker domnick hunter OIL-X Fabricated filter range is available in multiple filtration grades to cover all filtration requirements, including general purpose and high efficiency coalescing grades, general purpose and high efficiency dry particulate grades and an oil vapour reduction grade.

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 – Coalescing & Dry Particulate filter media is constructed to reduce air flow velocity and pressure loss whilst providing increased dirt holding capacity, and improved filtration efficiency
- Parker OIL-X coalescing and dry particulate filters are fully tested – Grades AO & AA in accordance with ISO12500-1 / ISO8573-2 for oil aerosol and ISO8573-4 for particulate & Grade ACS in ccordance with ISO8573-5 for oil vapour
- Air Quality Guarantee - The only filter range to offer a one year air quality guarantee
- Housing Guarantee - 10 year guarantee on filter housings

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)	<125 mbar (1.8 psi)	12 months	WS (for bulk liquid)
AA	Coalescing & Dry Particulate	Down to 0.01 micron	0.01 mg/m³ 0.01 ppm(w)	99.9999%	<70 mbar (1 psi)	<125 mbar (1.8 psi)	12 months	AO
ACS	Oil Vapour Reduction	N/A	0.003 mg/m³ 0.003 ppm(w)	N/A	<140 mbar (2 psi)	N/A	When oil vapour is detected	A0+AA

Important Note:

Using the same filter housings as their coalescing and dry particulate counterparts in the OIL-X range, Grade ACS filter elements differ in that they utilise a deep 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. Should a 12 month service period be required, Parker OIL-X Grade OVR oil vapour reduction filters are recommended.

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	065 ~ 095 (Electronic Drain)	1	15	16	232	2	35	60	140
AO/AA	065 ~ 095 (Manual Drain)	1	15	16	232	2	35	100	212
ACS	065 ~ 095 (Manual Drain)	1	15	16	232	2	35	50	122

Flow Rates

Model	Pipe Size	L/S	m³/min	m³/hr	cfm	Replacement Element	No.
Grade 065ND ☐ X	DN80	620	37.2	2232	1312	200 Grade	1
Grade 070OD ☐ X	DN100	1240	74.4	4464	2625	200 Grade	2
Grade 075PD ☐ X	DN150	1860	111.6	6696	3938	200 Grade	3
Grade 080PD ☐ X	DN150	2480	148.8	8928	5251	200 Grade	4
Grade 085QD ☐ X	DN200	3720	223.2	13392	7877	200 Grade	6
Grade 090RD ☐ X	DN250	6200	372	22320	13129	200 Grade	10
Grade 095SD ☐ X	DN300	8680	520.8	31248	18380	200 Grade	14

☐ = Replace with drain type - E (electronic) or M (manual)

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.

Filter coding example

Grade	Model	Pipe Size	Thread	Drain Option	Incident Monitor Option
AO AA ACS	3 digit code denotes filter housing size	Letter denotes pipe size	D = Din Flange	E = Electronic M = Manual	I = Indicator X = None
Example code					
AO	090	P	D	E	X

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

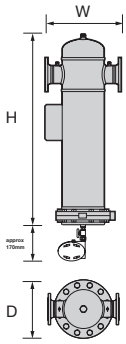
Minimum Inlet Pressure																	
	bar g	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	psi g	15	29	44	58	73	87	100	116	131	145	160	174	189	203	218	232
Correction Factor		2.65	1.87	1.53	1.32	1.18	1.08	1.00	0.94	0.88	0.84	0.80	0.76	0.73	0.71	0.68	0.66

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 ISO12500-1	ISO8573-2 ISO8573-4 ISO12500-1	ISO8573-5
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	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
065ND	1065	42	440	17.3	340	13.4	70	154
070OD	1152	45.4	500	19.7	405	16	97	214
075PD	1256	49.5	600	23.6	520	20.5	148	326
080PD	1332	52.4	650	25.6	580	22.8	187	412
085QD	1415	55.7	750	29.5	640	25.2	240	529
090PD	1603	63.1	1000	39.4	840	33	470	1036
095SD	1706	67.2	1050	41.3	910	35.8	580	1279



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	-
For use with Compressed Air Only	

Service & underhåll

En viktig del i vårt koncept som totalleverantör och partner, är att kunna erbjuda kvalificerad specialisthjälp för tillsyn, service och underhåll av kompressorer, tryckluftsanläggningar och gasgeneratorer. Genom att teckna serviceavtal med oss, kommer kvalificerad service, rätta reservdelar, effektiva rutiner och löpande dokumentation att garantera en säkrare drift och användning för att distribuera ren tryckluft och rätt kvävgaskvalitet.

ISO 14001

Granzow service är certifierad enligt ISO 14001 vilket medför att kvalitets- och miljötänkande är naturliga faktorer i vårt arbete. Vi ser som en avvåra uppgifter att hålla våra kunders tryckluftsproduktion igång ochsamtidigt utföra uppdraget med utgångspunkt från högt ställda kvalitets- och miljö-krav.

Rätt kapacitet **Rätt kvalité** **Rätt tryck** **Rätt service**

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svensk tryckluftspartner

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