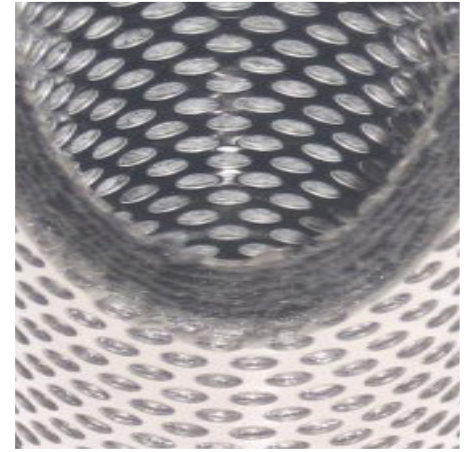


# OIL-X Die-cast Aluminium Compressed Air Filters

Grade ACS In-line, Point of Use  
Oil Vapour Reduction Filters (1/4" ~ 3")



## In-line, Point of Use Oil Vapour Reduction Filters

Oil vapour is present in all compressed air systems, even those using oil-free compressors. Left untreated, oil vapour can cool, condense and form liquid and aerosols of oil in the compressed air piping or at critical applications.

Whilst many systems are protected with plant scale oil vapour reduction systems in the compressor room such as the Parker OIL-X Grade OVR, years of contamination in the distribution piping from untreated compressed air can still lead to the presence of oil vapour, liquid and aerosol oil at the point of use.

Whilst additional Parker OIL-X Grade OVR can be installed at critical points of use to treat contamination in the distribution piping, these may be oversized for some smaller, point of use applications, therefore the Parker OIL-X Grade ACS filters can be used.

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.



## Advantages

- Delivered air quality to ISO8573-1 Class 1 for total oil when used in conjunction with Parker OIL-X Grade AO & AA coalescing filters
- Tested in accordance with ISO8573-5
- 3rd party performance validated by Lloyds Register
- Designed for point of use installation - for plant scale protection or long adsorbent life use OIL-X Grade OVR
- Housing Guarantee - 10 year guarantee on filter housings



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# Grade ACS Point of Use Oil Vapour Reduction Filters

## Filtration Performance

Filtration Grade	Filter Type	Particle Reduction (inc water & oil aerosols)	Max Remaining Oil Content at 21°C (70°F)	Filtration Efficiency	Change Element Every	Precede with Filtration Grade
ACS	Oil Vapour Reduction	N/A	0.003 mg/m <sup>3</sup> 0.003 ppm(w)	N/A	When oil vapour is detected	A0+AA

## 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
ACS	PX010 - PX055 (Manual Drain)	1	15	20	290	2	35	50	122

**Flow Rates** 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.

Model	Pipe Size	L/S	m <sup>3</sup> /min	m <sup>3</sup> /hr	cfm	Replacement Element	No.	Initial Dry Differential Pressure							
								100% Flow		75% Flow		50% Flow		25% Flow	
								mbar	psi	mbar	psi	mbar	psi	mbar	psi
ACSPX010A <input type="checkbox"/> MX	¼"	10	0.6	36	21	P010ACS	1	61	0.9	35	0.5	15	0.2	9	0.1
ACSPX010B <input type="checkbox"/> MX	⅜"	10	0.6	36	21	P010ACS	1	53	0.8	32	0.5	19	0.3	8	0.1
ACSPX010C <input type="checkbox"/> MX	½"	10	0.6	36	21	P010ACS	1	55	0.8	31	0.4	18	0.3	7	0.1
ACSPX015B <input type="checkbox"/> MX	⅜"	20	1.2	72	42	P015ACS	1	65	0.9	33	0.5	13	0.2	5	0.1
ACSPX015C <input type="checkbox"/> MX	½"	20	1.2	72	42	P015ACS	1	46	0.7	37	0.5	20	0.3	9	0.1
ACSPX020C <input type="checkbox"/> MX	½"	30	1.8	108	64	P020ACS	1	77	1.1	35	0.5	15	0.2	7	0.1
ACSPX020D <input type="checkbox"/> MX	¾"	30	1.8	108	64	P020ACS	1	79	1.1	37	0.5	17	0.2	8	0.1
ACSPX025D <input type="checkbox"/> MX	¾"	60	3.6	216	127	P025ACS	1	66	1.0	34	0.5	14	0.2	4	0.1
ACSPX025E <input type="checkbox"/> MX	1"	60	3.6	216	127	P025ACS	1	46	0.7	24	0.3	13	0.2	4	0.1
ACSPX030E <input type="checkbox"/> MX	1"	110	6.6	396	233	P030ACS	1	57	0.8	27	0.4	16	0.2	8	0.1
ACSPX030G <input type="checkbox"/> MX	1 ½"	110	6.6	396	233	P030ACS	1	65	0.9	35	0.5	15	0.2	5	0.1
ACSPX035G <input type="checkbox"/> MX	1 ½"	160	9.6	576	339	P035ACS	1	26	0.4	12	0.2	8	0.1	4	0.1
ACSPX040H <input type="checkbox"/> MX	2"	220	13.2	792	466	P040ACS	1	36	0.5	23	0.3	13	0.2	4	0.1
ACSPX045H <input type="checkbox"/> MX	2"	330	19.8	1188	699	P045ACS	1	49	0.7	34	0.5	17	0.2	6	0.1
ACSPX045I <input type="checkbox"/> MX	2 ½"	330	19.8	1188	699	P045ACS	1	68	1.0	40	0.6	20	0.3	6	0.1
ACSPX050I <input type="checkbox"/> MX	2 ½"	430	25.9	1548	911	P050ACS	1	50	0.7	30	0.4	15	0.2	5	0.1
ACSPX055I <input type="checkbox"/> MX	2 ½"	620	37.3	2232	1314	P055ACS	1	61	0.9	36	0.5	16	0.2	12	0.2
ACSPX055J <input type="checkbox"/> MX	3"	620	37.3	2232	1314	P055ACS	1	50	0.7	35	0.5	17	0.2	5	0.1

Select  for BSPP Threads / Select  for NPT Threads

When selecting a coalescing filter for pressures above 16 bar g (232 psi g), use manual drain version and fit an external automatic drain.

## 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 CFMIP
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

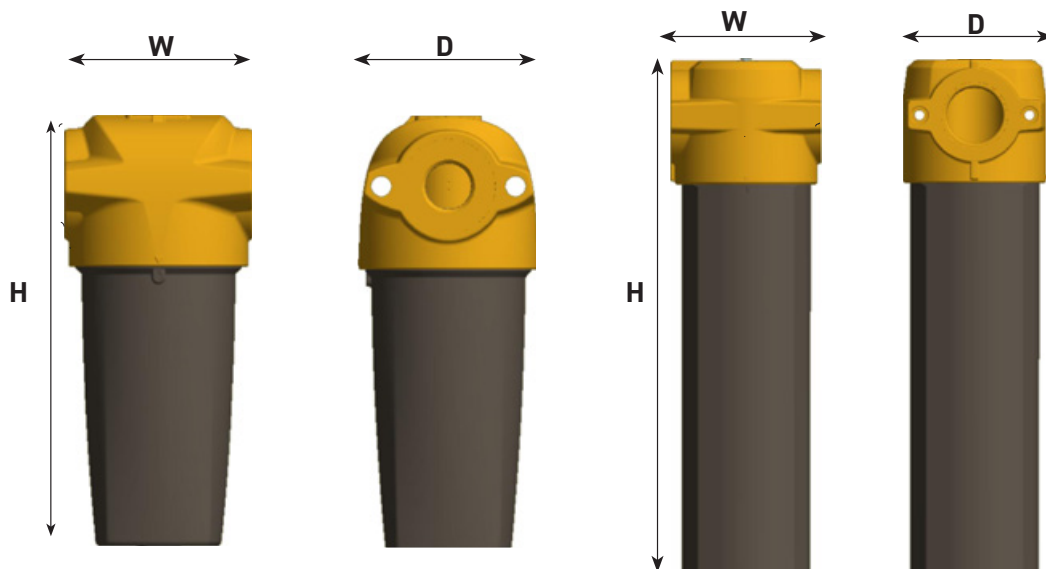
Minimum Inlet Pressure	bar g	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	psi g	15	29	44	58	73	87	100	116	131	145	160	174	189	203	218	232	248	263	277	290
<b>Correction Factor</b>		2.65	1.87	1.53	1.32	1.18	1.08	1.00	0.94	0.88	0.84	0.80	0.76	0.73	0.71	0.68	0.66	0.64	0.62	0.61	0.59

### Filtration Tested In Accordance With

<b>Filtration Grade</b>	<b>ACS</b>
<b>Filter Type</b>	Oil Vapour Reduction
<b>Test Methods Used</b>	ISO8573-5
<b>ISO8573-5 Inlet Challenge Concentration</b>	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
010	180	7.09	76	2.99	65	2.56	0.81	1.78
015	238	9.37	89	3.50	84	3.31	1.41	3.10
020	238	9.37	89	3.50	84	3.31	1.41	3.10
025	277	10.91	120	4.72	115	4.53	2.66	5.86
030	367	14.45	120	4.72	115	4.53	3.01	6.63
035	440	17.32	164	6.46	157	6.18	6.87	15.14
040	532	20.94	164	6.46	157	6.18	7.18	15.82
045	532	20.94	164	6.46	157	6.18	7.18	15.82
050	654	25.75	192	7.56	183	7.20	10.18	22.43
055	844	33.23	192	7.56	183	7.20	15.78	34.78



### Quality Assurance / IP Rating / Pressure Vessel Approvals

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

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### US Product Information Centre

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