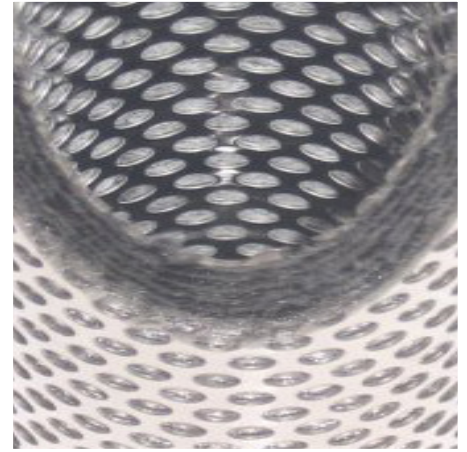


OIL-X Die-cast Aluminium Compressed Air Filters

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



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



ENGINEERING YOUR SUCCESS.

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 ³ 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
ACS	PX060 (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 ³ /min	m ³ /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
ACSPX060K <input type="checkbox"/> MX	4"	1000	60	3600	2119	P060ACS	3	85	1.2	53	0.8	23	0.3	15	0.2

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

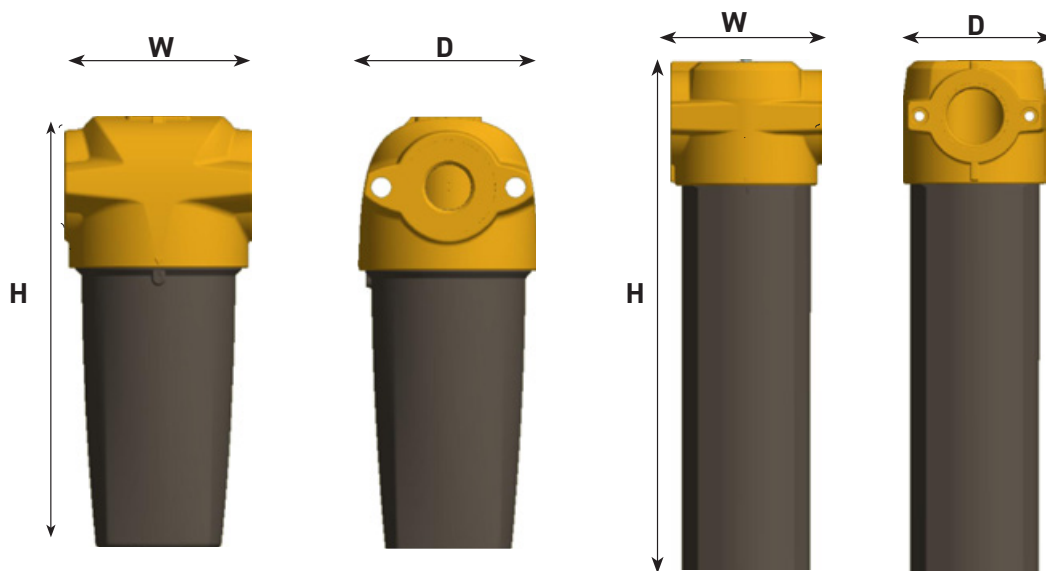
Minimum Inlet Pressure	bar g	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	psi g	15	29	44	58	73	87	100	116	131	145	160	174	189	203	218	232	248	263	277	290
Correction Factor		2.65	1.87	1.53	1.32	1.18	1.08	1.00	0.94	0.88	0.84	0.80	0.76	0.73	0.71	0.68	0.66	0.64	0.62	0.61	0.59

Filtration Tested In Accordance With

Filtration Grade	ACS
Filter Type	Oil Vapour Reduction
Test Methods Used	ISO8573-5
ISO8573-5 Inlet Challenge Concentration	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
060	847	33.30	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
RUSSIA	TR (formerly GOST-R)
For use with Compressed Air, N ₂ & CO ₂	

Parker Worldwide

Europe, Middle East, Africa

AE – United Arab Emirates,

Dubai

Tel: +971 4 8127100

AT – Austria, St. Florian

Tel: +43 (0)7224 66201

AZ – Azerbaijan, Baku

Tel: +994 50 2233 458

BE/NL/LU – Benelux,

Hendrik Ido Ambacht

Tel: +31 (0)541 585 000

BY – Belarus, Minsk

Tel: +48 (0)22 573 24 00

CH – Switzerland, Etoy

Tel: +41 (0)21 821 87 00

CZ – Czech Republic,

Prague

Tel: +420 284 083 111

DE – Germany, Kaarst

Tel: +49 (0)2131 4016 0

DK – Denmark, Ballerup

Tel: +45 43 56 04 00

ES – Spain, Madrid

Tel: +34 902 330 001

FI – Finland, Vantaa

Tel: +358 (0)20 753 2500

FR – France, Contamine s/Arve

Tel: +33 (0)4 50 25 80 25

GR – Greece

Tel: +30 69 44 52 78 25

HU – Hungary, Budaörs

Tel: +36 23 885 470

IE – Ireland, Dublin

Tel: +353 (0)1 466 6370

IL – Israel

Tel: +39 02 45 19 21

IT – Italy, Corsico (MI)

Tel: +39 02 45 19 21

KZ – Kazakhstan, Almaty

Tel: +7 7273 561 000

NO – Norway, Asker

Tel: +47 66 75 34 00

PL – Poland, Warsaw

Tel: +48 (0)22 573 24 00

PT – Portugal

Tel: +351 22 999 7360

RO – Romania, Bucharest

Tel: +40 21 252 1382

RU – Russia, Moscow

Tel: +7 495 645-2156

SE – Sweden, Borås

Tel: +46 (0)8 59 79 50 00

SL – Slovenia, Novo Mesto

Tel: +386 7 337 6650

TR – Turkey, Istanbul

Tel: +90 216 4997081

UK – United Kingdom, Warwick

Tel: +44 (0)1926 317 878

ZA – South Africa, Kempton Park

Tel: +27 (0)11 961 0700

North America

CA – Canada, Milton, Ontario

Tel: +1 905 693 3000

US – USA, Cleveland

Tel: +1 216 896 3000

Asia Pacific

AU – Australia, Castle Hill

Tel: +61 (0)2-9634 7777

CN – China, Shanghai

Tel: +86 21 2899 5000

HK – Hong Kong

Tel: +852 2428 8008

IN – India, Mumbai

Tel: +91 22 6513 7081-85

JP – Japan, Tokyo

Tel: +81 (0)3 6408 3901

KR – South Korea, Seoul

Tel: +82 2 559 0400

MY – Malaysia, Shah Alam

Tel: +60 3 7849 0800

NZ – New Zealand, Mt Wellington

Tel: +64 9 574 1744

SG – Singapore

Tel: +65 6887 6300

TH – Thailand, Bangkok

Tel: +662 186 7000

TW – Taiwan, Taipei

Tel: +886 2 2298 8987

South America

AR – Argentina, Buenos Aires

Tel: +54 3327 44 4129

BR – Brazil, Sao Jose dos Campos

Tel: +55 080 0727 5374

CL – Chile, Santiago

Tel: +56 22 303 9640

MX – Mexico, Toluca

Tel: +52 72 2275 4200



EMEA Product Information Centre

Free phone: 00 800 27 27 5374

(from AT, BE, CH, CZ, DE, DK, EE, ES, FI, FR, IE, IL, IS, IT, LU, MT, NL, NO, PL, PT, RU, SE, SK, UK, ZA)

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