OIL-Xplus Stainless Steel Compressed Air Filters

Compressed air systems are often located where the environment and prevailing atmospheric conditions are particularly corrosive. These applications include chemical and petro-chemical installations, offshore drilling platforms and ships, marine and process industries where problems concerning corrosion are increased.

All of the costly problems associated with compressed air contamination can be avoided by installing Parker domnick hunter OIL-Xplus high efficiency compressed air filters.

The OIL-Xplus stainless steel range is particularly ideal for those applications where an aggressive environment is an additional concern.

For 45 years Parker domnick hunter filters have been meeting the needs of the compressed air user by providing the highest quality, clean air to international standards whilst maintaining the lowest running costs.

Benefits:

- **Delivered air quality in accordance with all editions of ISO8573-1, the international standard for compressed air quality**
- **Suitable for all compressed air applications and all compressor types**
- **Low lifetime costs**
- **Coalescing and dust removal filters are covered by one year compressed air quality guarantee which is automatically renewed with annual maintenance**
- **All OIL-Xplus filter housings are covered by a 10 year housing guarantee**
- **Helps reduce the release of CO_2 into the environment**

Parker domnick hunter

ENGINEERING YOUR SUCCESS.

OIL-Xplus

High Performance Compressed Air Filtration

Oil Aerosol and Particulate Removal

Typical compressed air filters 'soak up' oil and water and are said to run in a 'wetted out' or saturated state. This temporarily blocks the path of compressed air through the normally open filter structure, and increases the operating pressure drop as the air flow has to force liquids through the fine matrix of the filtration media. This leads to significantly higher energy consumption.

Unlike typical filters, OIL-Xplus filter media does not soak up liquids, ensuring the available open area is kept to a maximum for dirt entrapment. Liquid aerosols coalesce within the anti re-entrainment barrier and fall into the filter bowl to be discharged via the drain.

Solid particulate is captured and held within the open area of the filter media, gradually increasing the differential pressure of the filter to a point where it is more economical to replace the element.

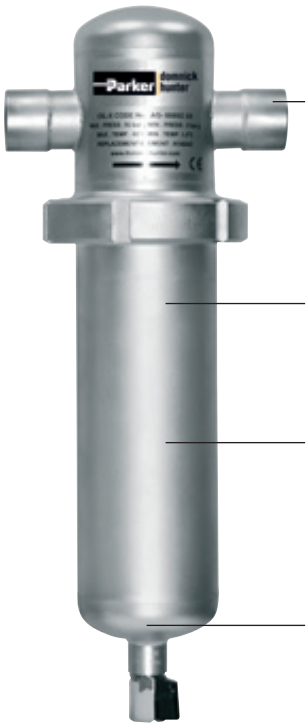
Oil Vapour Removal

Activated carbon with its high affinity for oil vapour is employed in OIL-Xplus grade ACS filters to remove gaseous contaminants such as oil vapours.

OIL-Xplus filters actively repel oil and water

Typical fi lters soak up oil and water

OIL-Xplus stainless steel filter housings



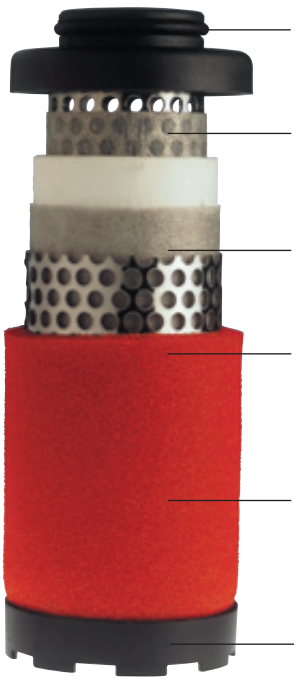
Flexible installation
9 different port sizes ($^1/_4$" - 3")

Suitable for aggressive environments
Manufactured from 316L Stainless Steel

Safe
Rated to 16 bar g (232 psi g)

Manual ball valve as standard
(External float drain option available)

OIL-Xplus high efficiency filter elements



Air tight positive 'O' ring seal
Prevents contamination by-pass

Support media
For added strength and integral pre-filtration

96% Voids volume
Gives high dirt holding capacity and provides 12 months life with lowest available energy costs

Stainless steel inner and outer support cylinders
Provides maximum strength

Anti re-entrainment barrier
Prevents oil / water carryover and is compatible with a wide range of lubricants

Chemical resistant
Tough corrosion resistant end caps withstand the worst compressed air conditions

Technical Data

Max Pressure	16 bar g (232 psi g)
Max Temp Grade AO, AA, AR	**66°C (150°F)**
Max Temp Grade ACS	**30°C (86°F)**
Min Temp	**1.5°C (35°F)**

Filter Type	Initial 'dry' differential pressure
Grade AO/AR	70 mbar (1,0 psi)
Grade AA	100 mbar (1,5 psi)
Grade ACS	70 mbar (1,0 psi)

Filter Type	Initial 'wet' differential pressure
Grade AO	140 mbar (2,0 psi)
Grade AA	200 mbar (3,0 psi)
Grade ACS / AR	N/A

Filtration Grades

GRADE AO **High Effi ciency** **General Purpose Protection**	Particle removal down to : 1 micron, including water and oil aerosols. Maximum remaining oil aerosol content: 0.6 mg/m3 at 21°C / 0.5 ppm(w) at 70°F
GRADE AA **High Effi ciency** **Oil Removal Filtration**	(Precede with Grade AO fi lter) Particle removal down to: 0.01 micron, including water and oil aerosols. Maximum remaining oil aerosol content: 0.01 mg/m3 at 21°C / 0.01 ppm(w) at 70°F
GRADE ACS **Oil Vapour & Odour Removal**	(Precede Grade ACS with Grade AA fi lter) Maximum remaining oil vapour content: 0.003 mg/m3 at 21°C / 0.003 ppm(w) at 70°F
GRADE AR **General Purpose Dust Filtration**	Dry Particle removal down to : 1 micron

Stated flows are for operation at 7 bar g (100 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.

To correctly select a filter model, the flow rate of the filter must be adjusted for the minimum operating pressure of the system

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

Product Selection

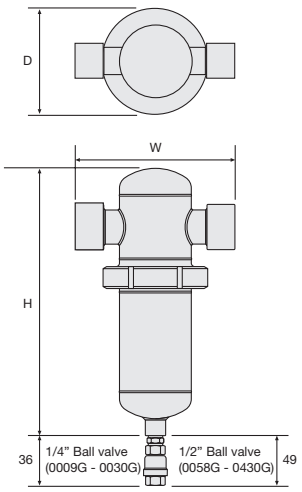
Filter Type	Port Size	L/s	m³/min	m³/h	cfm	Replacement Element Kit	No.
(grade) 0009GSS	G 1/4	9	0.53	32	19	K009 (grade)	1
(grade) 0017GSS	G 3/8	17	1.02	61	36	K017 (grade)	1
(grade) 0030GSS	G 1/2	30	1.80	108	64	K030 (grade)	1
(grade) 0058GSS	G 3/4	60	3.60	216	127	K058 (grade)	1
(grade) 0080GSS	G 1	80	4.80	288	170	K145 (grade)	1
(grade) 0145GSS	G 1 1/2	145	8.70	522	307	K145 (grade)	1
(grade) 0220GSS	G 2	220	13	792	466	K220 (grade)	1
(grade) 0330GSS	G 2	330	20	1.188	699	K330 (grade)	1
(grade) 0405GSS	G 2 1/2	400	24	1.440	848	K430 (grade)	1
(grade) 0430GSS	G 3	430	26	1.548	911	K430 (grade)	1

Correction Factors

Line 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 (CFP)		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

Weights and Dimensions

Filter Type	Height (H)		Width (B)		Depth (T)		Weight	
	mm	ins	mm	ins	mm	ins	Kg	lbs
(grade) 0009GSS	210	8.3	145	5.7	112	4.4	2.5	5.5
(grade) 0017GSS	236	9.3	145	5.7	112	4.4	2.5	5.5
(grade) 0030GSS	270	10.6	154	6.1	112	4.4	2.5	5.5
(grade) 0058GSS	382	15.0	190	7.5	148	5.8	4.5	9.9
(grade) 0080GSS	506	19.9	200	7.9	148	5.8	5.0	11.0
(grade) 0145GSS	506	19.9	225	8.9	148	5.8	5.0	11.0
(grade) 0220GSS	628	24.7	280	11.0	210	8.3	10.0	26.4
(grade) 0330GSS	938	36.9	280	11.0	210	8.3	12.0	26.4
(grade) 0405GSS	698	27.5	290	11.4	210	8.3	12.0	26.4
(grade) 0430GSS	698	27.5	300	1.8	210	8.3	12.0	26.4



Housing constructed from Stainless Steel : Grade 316L

Parker Worldwide

Europe, Middle East, Africa

AE – United Arab Emirates, Dubai
Tel: +971 4 8127100
parker.me@parker.com

AT – Austria, Wiener Neustadt
Tel: +43 (0)2622 23501-0
parker.austria@parker.com

AT – Eastern Europe, Wiener Neustadt
Tel: +43 (0)2622 23501 900
parker.easteurope@parker.com

AZ – Azerbaijan, Baku
Tel: +994 50 2233 458
parker.azerbaijan@parker.com

BE/LU – Belgium, Nivelles
Tel: +32 (0)67 280 900
parker.belgium@parker.com

BG **–** Bulgaria, Sofia
Tel: +359 2 980 1344
parker.bulgaria@parker.com

BY – Belarus, Minsk
Tel: +48 (0)22 573 24 00
parker.poland@parker.com

CH – Switzerland, Etoy
Tel: +41 (0)21 821 87 00
parker.switzerland@parker.com

CZ – Czech Republic, Klecany
Tel: +420 284 083 111
parker.czechrepublic@parker.com

DE – Germany, Kaarst
Tel: +49 (0)2131 4016 0
parker.germany@parker.com

DK – Denmark, Ballerup
Tel: +45 43 56 04 00
parker.denmark@parker.com

ES – Spain, Madrid
Tel: +34 902 330 001
parker.spain@parker.com

FI – Finland, Vantaa
Tel: +358 (0)20 753 2500
parker.finland@parker.com

FR – France, Contamine s/Arve
Tel: +33 (0)4 50 25 80 25
parker.france@parker.com

GR – Greece, Athens
Tel: +30 210 933 6450
parker.greece@parker.com

HU – Hungary, Budaörs
Tel: +36 23 885 470
parker.hungary@parker.com

IE – Ireland, Dublin
Tel: +353 (0)1 466 6370
parker.ireland@parker.com

IL **–** Israel
Tel: +39 02 45 19 21
parker.israel@parker.com

IT – Italy, Corsico (MI)
Tel: +39 02 45 19 21
parker.italy@parker.com

KZ – Kazakhstan, Almaty
Tel: +7 7273 561 000
parker.easteurope@parker.com

NL – The Netherlands, Oldenzaal
Tel: +31 (0)541 585 000
parker.nl@parker.com

NO – Norway, Asker
Tel: +47 66 75 34 00
parker.norway@parker.com

PL – Poland, Warsaw
Tel: +48 (0)22 573 24 00
parker.poland@parker.com

PT – Portugal
Tel: +351 22 999 7360
parker.portugal@parker.com

RO – Romania, Bucharest
Tel: +40 21 252 1382
parker.romania@parker.com

RU – Russia, Moscow
Tel: +7 495 645-2156
parker.russia@parker.com

SE – Sweden, Spånga
Tel: +46 (0)8 59 79 50 00
parker.sweden@parker.com

SK – Slovakia, Banská Bystrica
Tel: +421 484 162 252
parker.slovakia@parker.com

SL – Slovenia, Novo Mesto
Tel: +386 7 337 6650
parker.slovenia@parker.com

TR – Turkey, Istanbul
Tel: +90 216 4997081
parker.turkey@parker.com

UA – Ukraine, Kiev
Tel: +48 (0)22 573 24 00
parker.poland@parker.com

UK – United Kingdom, Warwick
Tel: +44 (0)1926 317 878
parker.uk@parker.com

ZA – South Africa, Kempton Park
Tel: +27 (0)11 961 0700
parker.southafrica@parker.com

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: +55 800 727 5374

CL – Chile, Santiago
Tel: +56 2 623 1216

MX – Mexico, Toluca
Tel: +52 72 2275 4200

BULOILXPLUSSTAINLSTEEL-01-EN

Parker domnick hunter

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)

US Product Information Centre
Toll-free number: 1-800-27 27 537

www.parker.com/gsfe