



OIL-X

COMPRESSED AIR FILTERS

OIL-X Flanged Filter Series 065 - 095

Water Separation, High efficiency & Coarse Particulate filtration for larger compressed air systems

For larger flowrate applications, Parker domnick hunter manufactures a range of fabricated carbon steel filters from DN80 to DN300 sized flanges. These filters are also available in the standard 3 filtration grades.

INNOVATIVE FILTER HOUSING

The innovative filter housing and filter element design achieve optimum flow characteristics at minimum pressure drop resulting in considerable cost savings throughout the entire operating lifetime of the filter element.

- › WS, AA and A0 grades are designed for the reliable removal of solid particulate between <0.01 to $1 \mu\text{m}$
- › Achieving a filtration performance of 99.925 % to 99.999 % in compressed air or compressed nitrogen gas.
- › Highly-efficient, borosilicate nano-fibre media with a voids volume of 96 % ensures high dirt-holding capacity at constantly low differential pressure. Deep-pleating technology enabling 4.5 times more filtration surface area to be incorporated into the element, when compared with conventional filter elements.
- › The "Sure-Fit", patented lock-in place filter elements, provide a secure and noticeable seal to avoid any possibility of contamination by-passing the element.
- › The filter-housing design has been designed for ease of maintenance: The deep-seated service-flange, supported by a pivoting hinge-joint, enables element replacement to be undertaken by a single individual.

Technical Data

Standard filter	Compressed air and gaseous nitrogen
Max. operating pressure	16 bar _g
Operating temperature	1.5 - 80°C with manual drain and differential pressure gauge
	1.5 - 100 °C with manual drain and without differential pressure gauge

Filtration Performance

Filtration Grade	WS	AO	AA
Filter Type	Bulk Liquid Removal	Coalescing & Dry Particulate	Coalescing & Dry Particulate
Particle Removal (inc water & oil aerosols)	N/A	Down to 1 micron	Down to 0.01 micron
Max Remaining Oil Content at 21°C (70°F)	N/A	0.6mg/m ³ 0.5 ppm(w)	0.01mg/m ³ 0.01 ppm(w)
Filtration Efficiency	>92%	99.925%	99.9999%
Test Methods Used	ISO8573.9	ISO8573.2 ISO8573.4 ISO12500-1	ISO8573.2 ISO8573.4 ISO12500-1
ISO12500-1 Inlet Challenge Concentration	N/A	40mg/m ³	10mg/m ³
Initial Dry Differential Pressure	N/A	<70 mbar (1.0psi)	<140 mbar (2.0psi)
Change Element Every	N/A	12 months	12 months
Precede with Filtration Grade	N/A	WS (for bulk liquid)	AO

Flow Rates

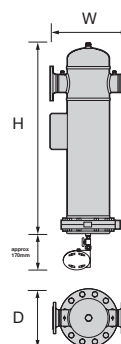
Stated flows are for operation at 7 bar g (102 psi g) with reference to 20°C, 1 bar (a), 0% relative water vapour pressure

Model	Port connection	Flow rate	Quantity filter elements	Replacement elements
<input type="checkbox"/> GRADE 065 ND <input type="checkbox"/>	DN80	2232 m ³ /hr	1	200 <input type="checkbox"/> GRADE
<input type="checkbox"/> GRADE 070 OD <input type="checkbox"/>	DN100	4464 m ³ /hr	2	200 <input type="checkbox"/> GRADE
<input type="checkbox"/> GRADE 075 PD <input type="checkbox"/>	DN150	6696 m ³ /hr	3	200 <input type="checkbox"/> GRADE
<input type="checkbox"/> GRADE 080 PD <input type="checkbox"/>	DN150	8928 m ³ /hr	4	200 <input type="checkbox"/> GRADE
<input type="checkbox"/> GRADE 085 OD <input type="checkbox"/>	DN200	13392 m ³ /hr	6	200 <input type="checkbox"/> GRADE
<input type="checkbox"/> GRADE 090 PD <input type="checkbox"/>	DN250	22320 m ³ /hr	10	200 <input type="checkbox"/> GRADE
<input type="checkbox"/> GRADE 095 SD <input type="checkbox"/>	DN300	31248 m ³ /hr	14	200 <input type="checkbox"/> GRADE

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

Weight & Dimensions

Model	H (mm)	W (mm)	D (mm)	Weight (kg)
<input type="checkbox"/> GRADE 065 ND <input type="checkbox"/> (*)	1065	440	340	70
<input type="checkbox"/> GRADE 070 OD <input type="checkbox"/> (*)	1152	500	405	97
<input type="checkbox"/> GRADE 075 PD <input type="checkbox"/> (*)	1256	600	520	148
<input type="checkbox"/> GRADE 080 PD <input type="checkbox"/> (*)	1332	650	580	187
<input type="checkbox"/> GRADE 085 OD <input type="checkbox"/> (*)	1415	750	640	240
<input type="checkbox"/> GRADE 090 PD <input type="checkbox"/> (*)	1603	1000	840	470
<input type="checkbox"/> GRADE 095 SD <input type="checkbox"/> (*)	1706	1050	910	580



Element Construction

Filter fleece	Borosilicate nanofibre, surface coated
Support net	Polypropylene
Outer sleeve	Polyester fibre, surface coated
Support screens	Stainless steel
End caps	Glass fibre reinforced polyamide
Adhesive	Epoxy resin
Sealing materials	NBR

Housing Construction

Housing body	Steel acc. to AD2000 leaflets
Surface treatment	Sandblasted RA2.5, 2-component acrylic enamel
Gaskets	Aramid fibers with NBR binder
Fittings	Nickel plated brass, brass, galvanized steel

Correction Factors

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

Please apply these correction factors to the flow at pressures other than 7 bar g (102 psi g).

Approvals for Pressure Equipment

EU	Approval for fluid group 2 acc. to Pressure Equipment Directive 97/23/EC
GUS	TR (previous GOST-R)

For more information please contact your local sales office or visit www.parker.com/gsf

Parker has a continuous policy of product development and although the company reserves the right to changes specifications, it attempts to keep customers informed of any alterations.

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Parker Hannifin Ltd.
Tachbrook Park Drive
Tachbrook Park,
Warwick, CV34 6TU
United Kingdom
Tel.: +44 (0) 1926 317 878
parker.uk@parker.com
www.parker.com/gsf

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