



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

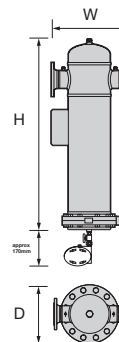
Stated flows are for operation at 7 bar g (102 psi g) with reference to 20°C, 1 bar (a), 0% relative water vapour pressure

| 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 QD <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 QD <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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