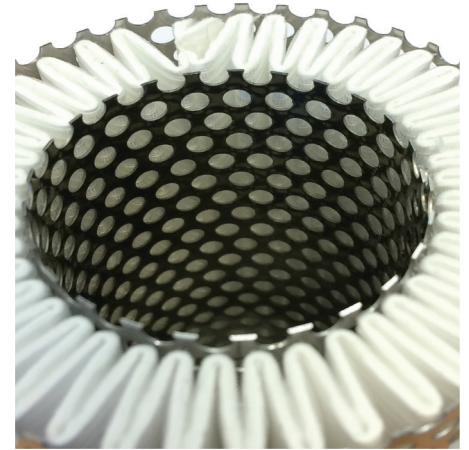


# OIL-X Die-cast Aluminium Compressed Air Filters

Grade AO General Purpose & Grade AA High Efficiency Coalescing & Dry Particulate Filters (1/4" ~ 4")



## Coalescing & Dry Particulate Filters

Coalescing filters are the most important items of purification equipment in any compressed air system. They are designed to treat 6 of the 10 main contaminants found in compressed air (aerosols of oil & water and solid particulates such as atmospheric particulate, rust, pipescale and micro-organisms).

The origins of modern compressed air filtration can be traced back to domnick hunter in 1963, it was the first company to use microfibre filter media for purification applications, changing the compressed air industry forever. The OIL-X filter range was the first filter range to fully utilise this ground breaking technology and has always been synonymous with high quality compressed air. Now in the 21st century, the OIL-X name remains, but the technology has evolved beyond recognition.

## Parker domnick hunter OIL-X

Since the introduction of the first OIL-X range, Parker domnick hunter has continued to develop both the compressed air filter and the standards governing compressed air quality. Constantly innovated, OIL-X has become the leading technology for compressed air filtration, providing the exact balance between air quality, energy efficiency and low lifetime costs.



## Advantages

- Meets or exceeds the requirements for delivered air quality shown in all editions of ISO8573-1, the international standard for compressed air quality
- Deep pleated filter element – Filter media is constructed to reduce air flow velocity and pressure loss whilst providing increased dirt holding capacity, and improved filtration efficiency
- Flow management system - Engineered to provide smooth air flow from entry to exit, the filter element design includes a 90-degree elbow, turning vanes and conical flow diffuser to promote a consistent, optimum air flow with minimal pressure loss
- Filter Media Optimisation - The flow management system also evenly distributes compressed air flow throughout the element ensuring optimum filtration performance again with low pressure loss
- Parker OIL-X coalescing and dry particulate filters are fully tested – In accordance with ISO12500-1 / ISO8573-2 for oil aerosol and ISO8573-4 for particulate
- Filtration performance independently validated - by Lloyds Register
- Parker OIL-X materials of construction are FDA Title 21 CFR compliant & EX1935/2004 exempt
- Air Quality Guarantee - The only filter range to offer a one year air quality guarantee
- Housing Guarantee - 10 year guarantee on filter housings



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## Filtration Performance

| Filtration Grade | Filter Type                  | Particle Reduction (inc water & oil aerosols) | Max Remaining Oil Content at 21°C (70°F) | Filtration Efficiency | Initial Dry Differential Pressure | Initial Saturated Differential Pressure | Change Element Every | Precede with Filtration Grade |
|------------------|------------------------------|-----------------------------------------------|------------------------------------------|-----------------------|-----------------------------------|-----------------------------------------|----------------------|-------------------------------|
| AO               | Coalescing & Dry Particulate | Down to 1 micron                              | 0.5 mg/m <sup>3</sup><br>0.5 ppm(w)      | 99.925%               | <70 mbar<br>(1 psi)               | <125 mbar<br>(1.8 psi)                  | 12 months            | WS (for bulk liquid)          |
| AA               | Coalescing & Dry Particulate | Down to 0.01 micron                           | 0.01 mg/m <sup>3</sup><br>0.01 ppm(w)    | 99.9999%              | <70 mbar<br>(1 psi)               | <125 mbar<br>(1.8 psi)                  | 12 months            | AO                            |

## Technical Data

| Filter 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  |
| AO/AA        | P010 - P055 (Float Drain)  | 1                      | 15    | 16                     | 232   | 2                         | 35 | 80                        | 176 |
| AO/AA        | P010 - P055 (Manual Drain) | 1                      | 15    | 20                     | 290   | 2                         | 35 | 80                        | 176 |
| AO/AA        | P060 (Float Drain)         | 1                      | 15    | 16                     | 232   | 2                         | 35 | 66                        | 150 |
| AO/AA        | P060 (Manual Drain)        | 1                      | 15    | 20                     | 290   | 2                         | 35 | 100                       | 212 |

## Flow Rates

| Model       | Pipe Size | L/S  | m <sup>3</sup> /min | m <sup>3</sup> /hr | cfm  | Replacement Element | No. |
|-------------|-----------|------|---------------------|--------------------|------|---------------------|-----|
| Grade P010A | 1/4"      | 10   | 0.6                 | 36                 | 21   | P010                | 1   |
| Grade P010B | 3/8"      | 10   | 0.6                 | 36                 | 21   | P010                | 1   |
| Grade P010C | 1/2"      | 10   | 0.6                 | 36                 | 21   | P010                | 1   |
| Grade P015C | 1/2"      | 20   | 1.2                 | 72                 | 42   | P015                | 1   |
| Grade P020C | 1/2"      | 30   | 1.8                 | 108                | 64   | P020                | 1   |
| Grade P020D | 3/4"      | 30   | 1.8                 | 108                | 64   | P020                | 1   |
| Grade P025D | 3/4"      | 60   | 3.6                 | 216                | 127  | P025                | 1   |
| Grade P025E | 1"        | 60   | 3.6                 | 216                | 127  | P025                | 1   |
| Grade P030G | 1 1/2"    | 110  | 6.6                 | 396                | 233  | P030                | 1   |
| Grade P035G | 1 1/2"    | 160  | 9.6                 | 576                | 339  | P035                | 1   |
| Grade P040H | 2"        | 220  | 13.2                | 792                | 466  | P040                | 1   |
| Grade P045I | 2 1/2"    | 330  | 19.8                | 1188               | 699  | P045                | 1   |
| Grade P050I | 2 1/2"    | 430  | 25.9                | 1548               | 911  | P050                | 1   |
| Grade P055I | 2 1/2"    | 620  | 37.3                | 2232               | 1314 | P055                | 1   |
| Grade P055J | 3"        | 620  | 37.3                | 2232               | 1314 | P055                | 1   |
| Grade P060K | 4"        | 1000 | 60                  | 3600               | 2119 | P060                | 3   |

## Filter coding example

| Grade        | Model                                        | Pipe Size                | Thread              | Drain Option            | Incident Monitor Option   |
|--------------|----------------------------------------------|--------------------------|---------------------|-------------------------|---------------------------|
| AO           | P & 3 digit code denotes filter housing size | Letter denotes pipe size | G = BSPP<br>N = NPT | F = Float<br>M = Manual | I = Indicator<br>X = None |
| Example code |                                              |                          |                     |                         |                           |
| AO           | P010                                         | A                        | G                   | F                       | I                         |

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. For flows at other pressures, apply the correction factors shown below.

## 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 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).

## 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 |

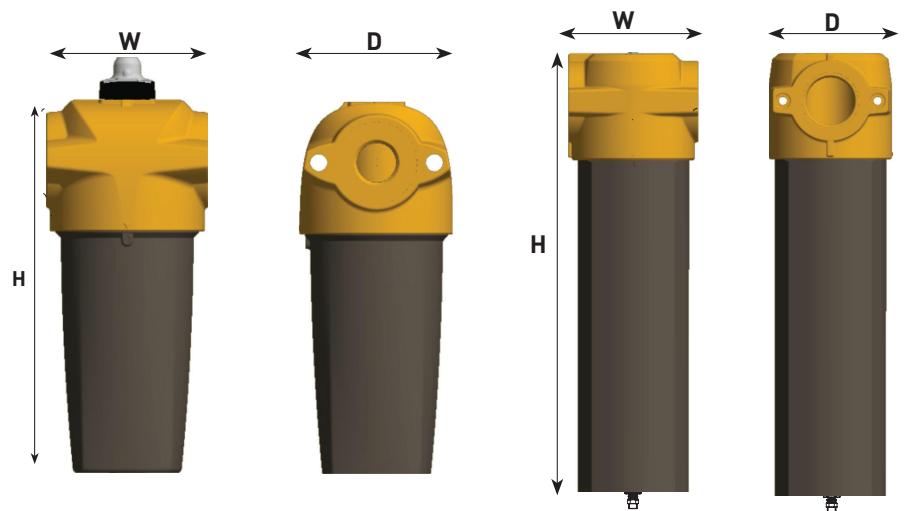
When ordering a filter for pressures above 16 bar g (232 psi g), use a manual drain. Replace F with M in product code. e.g. AOP015BGFI becomes AOP015BGM. Models 150 - 500 are not suitable for pressures above 16 bar g (232 psi g)

## Filtration Tested In Accordance With

| Filtration Grade                         | AO                                                     | AA                                                     |
|------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|
| Filter Type                              | Coalescing & Dry Particulate                           | Coalescing & Dry Particulate                           |
| Test Methods Used                        | ISO8573-2<br>ISO8573-4<br>ISO12500-1                   | ISO8573-2<br>ISO8573-4<br>ISO12500-1                   |
| ISO12500-1 Inlet Challenge Concentration | 40 mg of oil aerosol per cubic metre of compressed air | 10 mg of oil aerosol per cubic metre of compressed air |

## Weight & Dimensions

| Model | Height (H) |       | Width (W) |       | Depth (D) |       | Weight |       |
|-------|------------|-------|-----------|-------|-----------|-------|--------|-------|
|       | mm         | ins   | mm        | ins   | mm        | ins   | kg     | lbs   |
| 010A  | 180        | 7.09  | 76        | 2.99  | 65        | 2.56  | 0.84   | 1.86  |
| 010B  | 180        | 7.09  | 76        | 2.99  | 65        | 2.56  | 0.84   | 1.84  |
| 010C  | 180        | 7.09  | 76        | 2.99  | 65        | 2.56  | 0.82   | 1.81  |
| 015C  | 238        | 9.37  | 89        | 3.5   | 84        | 3.31  | 1.16   | 2.55  |
| 020C  | 238        | 9.37  | 89        | 3.5   | 84        | 3.31  | 1.17   | 2.58  |
| 020D  | 238        | 9.37  | 89        | 3.5   | 84        | 3.31  | 1.44   | 3.19  |
| 025D  | 277        | 10.9  | 120       | 4.72  | 115       | 4.53  | 2.14   | 4.71  |
| 025E  | 277        | 10.9  | 120       | 4.72  | 115       | 4.53  | 2.69   | 5.92  |
| 030G  | 367        | 14.45 | 120       | 4.72  | 115       | 4.53  | 3.04   | 6.70  |
| 035G  | 440        | 20.9  | 164       | 6.46  | 157       | 6.18  | 6.90   | 15.21 |
| 040H  | 532        | 24.5  | 164       | 6.46  | 157       | 6.18  | 7.30   | 16.09 |
| 045I  | 532        | 24.5  | 164       | 6.46  | 157       | 6.18  | 7.10   | 15.65 |
| 050I  | 654        | 29.3  | 192       | 7.56  | 183       | 7.20  | 10.30  | 22.71 |
| 055I  | 844        | 36.8  | 192       | 7.56  | 183       | 7.20  | 15.90  | 33.05 |
| 055J  | 844        | 36.8  | 192       | 7.56  | 183       | 7.20  | 15.30  | 33.73 |
| 060K  | 847        | 33.3  | 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                                                                           |
| GUS                                     | TR (formerly GOST-R)                                                                                      |
| <b>For use with Compressed Air Only</b> |                                                                                                           |

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