

OIL-X EVOLUTION

High Efficiency Compressed Air Filtration



OIL-X EVOLUTION is a range of high efficiency compressed air filters consisting of coalescing filter grades for the removal of water and oil aerosols, solid particulates and micro-organisms and dust filter grades for the removal of dry particulate and micro-organisms.

Compressed air purification equipment must deliver uncompromising performance and reliability whilst providing the right balance of air quality with the lowest cost of operation. Many manufacturers offer products for the filtration and purification of contaminated compressed air, which are often selected only upon their initial purchase cost, with little or no regard for the air quality they provide, the cost of operation throughout their life or indeed their environmental impact. When purchasing purification equipment, delivered air quality, the overall cost of ownership and the equipment's environmental impact must always be considered.



The Parker domnick hunter Design Philosophy

Parker domnick hunter has been supplying industry with high efficiency filtration and purification products since 1963. Our philosophy 'Designed for Air Quality & Energy Efficiency' ensures products that not only provide the user with clean, high quality compressed air, but also with low lifetime costs and reduced CO₂ emissions.



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Benefits:

- Delivered Air quality in accordance with ISO 8573-1:2001, the international standard for compressed air quality
- Filtration performance independently verified by Lloyds Register
- Coalescing filters performance tested to the stringent requirements of ISO 12500-1
- Dust removal filters tested in accordance with the test methods of the ISO 8573 Series
- Suitable for all compressed air applications and all compressor types
- Pressure losses start low and stay low to save energy, money and the environment
- 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-X EVOLUTION filter housings are covered by a 10 year housing guarantee
- Helps reduce the release of CO₂ into the environment



ENGINEERING YOUR SUCCESS.

Filtration Grades

| Filtration Grade | Filter Type | Particle removal (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 | Down to 1 micron | 0.6 mg/m ³ 0.5 ppm(w) | 99.925% | <70 mbar (1psi) | <140 mbar (2psi) | 12 months | WS (for bulk liquid) |
| AA | Coalescing | Down to 0.01 micron | 0.01 mg/m ³ 0.01 ppm(w) | 99.9999% | <140 mbar (2psi) | <200 mbar (3psi) | 12 months | AO |
| AR | Dry Particulate | Down to 1 micron | N/A | 99.925% | <70 mbar (1psi) | N/A | 12 months | N/A |
| AAR | Dry Particulate | Down to 0.01 micron | N/A | 99.9999% | <140 mbar (2psi) | N/A | 12 months | AR |

Product Selection

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.

| | Model | Pipe Size | L/S | m ³ /min | m ³ /hr | cfm | Replacement Element kit | No. | Line Pressure | | Correction Factor pressure (CFP) |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-----------|------|---------------------|--------------------|------------------------------------|------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------------------------------|
| | | | | | | | | | bar g | psi g | |
| Cast Aluminum Filters | grade 005A <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | 1/4" | 6 | 0.4 | 22 | 13 | 005 grade <input type="checkbox"/> | 1 | 1 | 15 | 2.65 |
| | grade 005B <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | 3/8" | 6 | 0.4 | 22 | 13 | 005 grade <input type="checkbox"/> | 1 | 1.5 | 22 | 2.16 |
| | grade 005C <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | 1/2" | 6 | 0.4 | 22 | 13 | 005 grade <input type="checkbox"/> | 1 | 2 | 29 | 1.87 |
| | grade 010A <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | 1/4" | 10 | 0.6 | 36 | 21 | 010 grade <input type="checkbox"/> | 1 | 2.5 | 37 | 1.67 |
| | grade 010B <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | 3/8" | 10 | 0.6 | 36 | 21 | 010 grade <input type="checkbox"/> | 1 | 3 | 44 | 1.53 |
| | grade 010C <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> | 1/2" | 10 | 0.6 | 36 | 21 | 010 grade <input type="checkbox"/> | 1 | 3.5 | 51 | 1.41 |
| | grade 015B <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | 3/8" | 20 | 1.2 | 72 | 42 | 015 grade <input type="checkbox"/> | 1 | 4 | 58 | 1.32 |
| | grade 015C <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | 1/2" | 20 | 1.2 | 72 | 42 | 015 grade <input type="checkbox"/> | 1 | 4.5 | 66 | 1.25 |
| | grade 020C <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | 1/2" | 30 | 1.8 | 108 | 64 | 020 grade <input type="checkbox"/> | 1 | 5 | 73 | 1.18 |
| | grade 020D <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | 3/4" | 30 | 1.8 | 108 | 64 | 020 grade <input type="checkbox"/> | 1 | 5.5 | 80 | 1.13 |
| | grade 020E <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | 1" | 30 | 1.8 | 108 | 64 | 020 grade <input type="checkbox"/> | 1 | 6 | 87 | 1.08 |
| | grade 025D <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | 3/4" | 60 | 3.6 | 216 | 127 | 025 grade <input type="checkbox"/> | 1 | 6.5 | 95 | 1.04 |
| | grade 025E <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | 1" | 60 | 3.6 | 216 | 127 | 025 grade <input type="checkbox"/> | 1 | 7 | 100 | 1.00 |
| | grade 030E <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | 1" | 110 | 6.6 | 396 | 233 | 030 grade <input type="checkbox"/> | 1 | 7.5 | 110 | 0.97 |
| | grade 030F <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | 1 1/4" | 110 | 6.6 | 396 | 233 | 030 grade <input type="checkbox"/> | 1 | 8 | 116 | 0.94 |
| | grade 030G <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | 1 1/2" | 110 | 6.6 | 396 | 233 | 030 grade <input type="checkbox"/> | 1 | 8.5 | 124 | 0.91 |
| | grade 035F <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | 1 1/4" | 160 | 9.6 | 576 | 339 | 035 grade <input type="checkbox"/> | 1 | 9 | 131 | 0.88 |
| | grade 035G <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | 1 1/2" | 160 | 9.6 | 576 | 339 | 035 grade <input type="checkbox"/> | 1 | 9.5 | 139 | 0.86 |
| | grade 040G <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | 1 1/2" | 220 | 13.2 | 792 | 466 | 040 grade <input type="checkbox"/> | 1 | 10 | 145 | 0.84 |
| | grade 040H <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | 2" | 220 | 13.2 | 792 | 466 | 040 grade <input type="checkbox"/> | 1 | 10.5 | 153 | 0.82 |
| | grade 045H <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | 2" | 330 | 19.8 | 1188 | 699 | 045 grade <input type="checkbox"/> | 1 | 11 | 160 | 0.80 |
| | grade 050I <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | 2 1/2" | 430 | 25.9 | 1548 | 911 | 050 grade <input type="checkbox"/> | 1 | 11.5 | 168 | 0.78 |
| | grade 050J <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | 3" | 430 | 25.9 | 1548 | 911 | 050 grade <input type="checkbox"/> | 1 | 12 | 174 | 0.76 |
| | grade 055I <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | 2 1/2" | 620 | 37.3 | 2232 | 1314 | 055 grade <input type="checkbox"/> | 1 | 12.5 | 183 | 0.75 |
| grade 055J <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | 3" | 620 | 37.3 | 2232 | 1314 | 055 grade <input type="checkbox"/> | 1 | 13 | 189 | 0.73 | |
| grade 060K <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | G 4 | 1000 | 60 | 3600 | 2119 | 060 grade <input type="checkbox"/> | 3 | 13.5 | 197 | 0.72 | |
| Carbon Steel Filters | grade 150ND <input type="checkbox"/> <input type="checkbox"/> | DN80 | 430 | 25.9 | 1548 | 911 | 150 grade <input type="checkbox"/> | 1 | 14 | 203 | 0.71 |
| | grade 200ND <input type="checkbox"/> <input type="checkbox"/> | DN80 | 620 | 37.3 | 2232 | 1314 | 200 grade <input type="checkbox"/> | 1 | 14.5 | 212 | 0.69 |
| | grade 250OD <input type="checkbox"/> <input type="checkbox"/> | DN100 | 1000 | 60 | 3600 | 2119 | 060 grade <input type="checkbox"/> | 3 | 15 | 218 | 0.68 |
| | grade 300OD <input type="checkbox"/> <input type="checkbox"/> | DN100 | 1300 | 78 | 4680 | 2755 | 060 grade <input type="checkbox"/> | 4 | 15.5 | 226 | 0.67 |
| | grade 350PD <input type="checkbox"/> <input type="checkbox"/> | DN150 | 1950 | 117 | 7020 | 4132 | 060 grade <input type="checkbox"/> | 6 | 16 | 232 | 0.66 |
| | grade 400QD <input type="checkbox"/> <input type="checkbox"/> | DN200 | 3250 | 195 | 11700 | 6887 | 060 grade <input type="checkbox"/> | 10 | When ordering an AO/AA filter for pressures above 16 bar g (232 psi g), use manual drain. Replace F with M in product code. e.g. 015BBFX becomes 015BBMX. Models 150 - 500 not suitable for pressures above 16 bar g (232 psi g) | | |
| | grade 450RD <input type="checkbox"/> <input type="checkbox"/> | DN250 | 5200 | 313 | 18720 | 11019 | 060 grade <input type="checkbox"/> | 16 | | | |
| | grade 500SD <input type="checkbox"/> <input type="checkbox"/> | DN300 | 7800 | 469 | 28080 | 16528 | 060 grade <input type="checkbox"/> | 24 | 16.5 | 241 | 0.65 |

Note: Connection sizes, (005 - 055) BSPT/NPT option available, G = BSPP and DN = flanged connection.

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

- Obtain the minimum operating pressure and maximum compressed air flow rate at the inlet of the filter.
- 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)
- Calculate the minimum filtration capacity
Minimum Filtration Capacity = Compressed Air Flow Rate x CFP
- 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)

Correction Factors

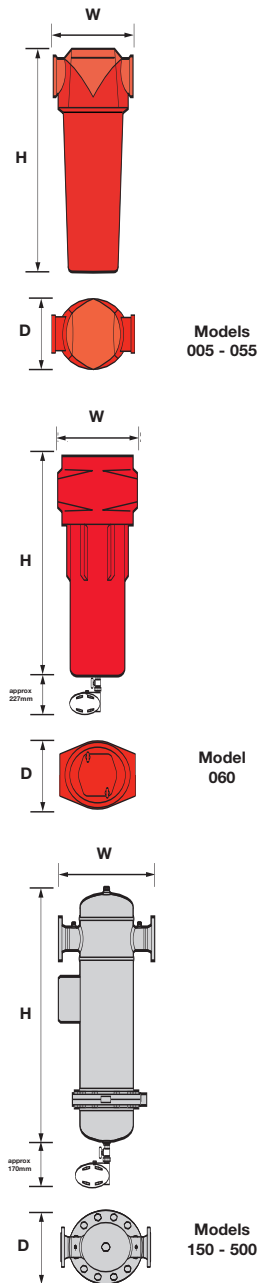
| Line Pressure | | Correction Factor pressure (CFP) |
|---------------|-------|----------------------------------|
| bar g | psi g | |
| 1 | 15 | 2.65 |
| 1.5 | 22 | 2.16 |
| 2 | 29 | 1.87 |
| 2.5 | 37 | 1.67 |
| 3 | 44 | 1.53 |
| 3.5 | 51 | 1.41 |
| 4 | 58 | 1.32 |
| 4.5 | 66 | 1.25 |
| 5 | 73 | 1.18 |
| 5.5 | 80 | 1.13 |
| 6 | 87 | 1.08 |
| 6.5 | 95 | 1.04 |
| 7 | 100 | 1.00 |
| 7.5 | 110 | 0.97 |
| 8 | 116 | 0.94 |
| 8.5 | 124 | 0.91 |
| 9 | 131 | 0.88 |
| 9.5 | 139 | 0.86 |
| 10 | 145 | 0.84 |
| 10.5 | 153 | 0.82 |
| 11 | 160 | 0.80 |
| 11.5 | 168 | 0.78 |
| 12 | 174 | 0.76 |
| 12.5 | 183 | 0.75 |
| 13 | 189 | 0.73 |
| 13.5 | 197 | 0.72 |
| 14 | 203 | 0.71 |
| 14.5 | 212 | 0.69 |
| 15 | 218 | 0.68 |
| 15.5 | 226 | 0.67 |
| 16 | 232 | 0.66 |
| 16.5 | 241 | 0.65 |
| 17 | 248 | 0.64 |
| 17.5 | 256 | 0.63 |
| 18 | 263 | 0.62 |
| 18.5 | 270 | 0.62 |
| 19 | 277 | 0.61 |
| 19.5 | 285 | 0.60 |
| 20 | 290 | 0.59 |

Technical Data

| Filter Grade | Filter Models | Min Operating Pressure | | Max Operating Pressure | | Min Operating Temp | | Max Operating Temp | |
|--------------|-------------------------------------------------------------------|------------------------|-------|------------------------|-------|--------------------|----|--------------------|-----|
| | | bar g | psi g | bar g | psi g | °C | °F | °C | °F |
| AO/AA | 005 <input type="checkbox"/> FX - 055 <input type="checkbox"/> FX | 1 | 15 | 16 | 232 | 2 | 35 | 80 | 176 |
| AO/AA | 005 <input type="checkbox"/> MX - 055 <input type="checkbox"/> MX | 1 | 15 | 20 | 290 | 2 | 35 | 100 | 212 |
| AO/AA | 060 K <input type="checkbox"/> FX | 1 | 15 | 16 | 232 | 2 | 35 | 66 | 150 |
| AO/AA | 060 K <input type="checkbox"/> MX | 1 | 15 | 20 | 290 | 2 | 35 | 100 | 212 |
| AO/AA | 150 NDFX - 500 SDFX | 1 | 15 | 16 | 232 | 2 | 35 | 66 | 150 |
| AO/AA | 150 NDMX - 500 SDMX | 1 | 15 | 16 | 232 | 2 | 35 | 100 | 212 |
| AO/AA | 005 <input type="checkbox"/> FI - 055 <input type="checkbox"/> FI | 1 | 15 | 16 | 232 | 2 | 35 | 80 | 176 |
| AO/AA | 005 <input type="checkbox"/> MI - 055 <input type="checkbox"/> MI | 1 | 15 | 20 | 290 | 2 | 35 | 100 | 212 |
| AO/AA | 060 K <input type="checkbox"/> FI | 1 | 15 | 16 | 232 | 2 | 35 | 66 | 150 |
| AO/AA | 060 K <input type="checkbox"/> MI | 1 | 15 | 20 | 290 | 2 | 35 | 66 | 150 |
| AO/AA | 150 NDFI - 500 SDFI | 1 | 15 | 16 | 232 | 2 | 35 | 66 | 150 |
| AO/AA | 150 NDMI - 500 SDMI | 1 | 15 | 16 | 232 | 2 | 35 | 66 | 150 |
| AR/AAR | 005 <input type="checkbox"/> MX - 055 <input type="checkbox"/> MX | 1 | 15 | 20 | 290 | 2 | 35 | 100 | 212 |
| AR/AAR | 060 K <input type="checkbox"/> MX | 1 | 15 | 20 | 290 | 2 | 35 | 100 | 212 |
| AR/AAR | 150 NDMX - 500 SDMX | 1 | 15 | 16 | 232 | 2 | 35 | 100 | 212 |
| AR/AAR | 005 <input type="checkbox"/> MI - 055 <input type="checkbox"/> MI | 1 | 15 | 20 | 290 | 2 | 35 | 100 | 212 |
| AR/AAR | 060 K <input type="checkbox"/> MI | 1 | 15 | 20 | 290 | 2 | 35 | 66 | 150 |
| AR/AAR | 150 NDMI - 500 SDMI | 1 | 15 | 16 | 232 | 2 | 35 | 66 | 150 |

Weights and Dimensions

| Model | Pipe Size | Height (H) | | Width (W) | | Depth (D) | | Weight | |
|-------|-----------|------------|------|-----------|------|-----------|------|--------|------|
| | | mm | ins | mm | ins | mm | ins | kg | lbs |
| 005A | 1/4" | 154 | 6.1 | 76 | 3.0 | 64 | 2.5 | 0.5 | 1.1 |
| 005B | 3/8" | 154 | 6.1 | 76 | 3.0 | 64 | 2.5 | 0.5 | 1.1 |
| 005C | 1/2" | 154 | 6.1 | 76 | 3.0 | 64 | 2.5 | 0.5 | 1.1 |
| 010A | 1/4" | 181 | 7.2 | 76 | 3.0 | 64 | 2.5 | 0.6 | 1.3 |
| 010B | 3/8" | 181 | 7.2 | 76 | 3.0 | 64 | 2.5 | 0.6 | 1.3 |
| 010C | 1/2" | 181 | 7.2 | 76 | 3.0 | 64 | 2.5 | 0.6 | 1.3 |
| 015B | 3/8" | 235 | 9.3 | 97 | 3.8 | 84 | 3.3 | 1.1 | 2.4 |
| 015C | 1/2" | 235 | 9.3 | 97 | 3.8 | 84 | 3.3 | 1.1 | 2.4 |
| 020C | 1/2" | 235 | 9.3 | 97 | 3.8 | 84 | 3.3 | 1.1 | 2.4 |
| 020D | 3/4" | 235 | 9.3 | 97 | 3.8 | 84 | 3.3 | 1.1 | 2.4 |
| 020E | 1" | 235 | 9.3 | 97 | 3.8 | 84 | 3.3 | 1.1 | 2.4 |
| 025D | 3/4" | 275 | 10.8 | 129 | 5.1 | 115 | 4.5 | 2.2 | 4.8 |
| 025E | 1" | 275 | 10.8 | 129 | 5.1 | 115 | 4.5 | 2.2 | 4.8 |
| 030E | 1" | 364 | 14.3 | 129 | 5.1 | 115 | 4.5 | 2.7 | 5.9 |
| 030F | 1 1/4" | 364 | 14.3 | 129 | 5.1 | 115 | 4.5 | 2.7 | 5.9 |
| 030G | 1 1/2" | 364 | 14.3 | 129 | 5.1 | 115 | 4.5 | 2.7 | 5.9 |
| 035F | 1 1/4" | 432 | 17.0 | 170 | 6.7 | 156 | 6.1 | 5.1 | 11.2 |
| 035G | 1 1/2" | 432 | 17.0 | 170 | 6.7 | 156 | 6.1 | 5.1 | 11.2 |
| 040G | 1 1/2" | 524 | 20.6 | 170 | 6.7 | 156 | 6.1 | 5.7 | 12.5 |
| 040H | 2" | 524 | 20.6 | 170 | 6.7 | 156 | 6.1 | 5.7 | 12.5 |
| 045H | 2" | 524 | 20.6 | 170 | 6.7 | 156 | 6.1 | 5.7 | 12.5 |
| 050I | 2 1/2" | 641 | 25.3 | 205 | 8.1 | 181 | 7.1 | 11.1 | 24.4 |
| 050J | 3" | 641 | 25.3 | 205 | 8.1 | 181 | 7.1 | 11.1 | 24.4 |
| 055I | 2 1/2" | 832 | 32.8 | 205 | 8.1 | 181 | 7.1 | 13.9 | 30.6 |
| 055J | 3" | 832 | 32.8 | 205 | 8.1 | 181 | 7.1 | 13.9 | 30.6 |
| 060K | G 4 | 847 | 33.3 | 420 | 16.5 | 282 | 11.1 | 44.5 | 98.1 |
| 150ND | DN80 | 1000 | 39.4 | 370 | 14.6 | 285 | 11.2 | 60 | 132 |
| 200ND | DN80 | 1220 | 48.0 | 370 | 14.6 | 285 | 11.2 | 70 | 154 |
| 250OD | DN100 | 1345 | 53.0 | 500 | 19.7 | 405 | 15.9 | 145 | 320 |
| 300OD | DN100 | 1345 | 53.0 | 500 | 19.7 | 405 | 15.9 | 145 | 320 |
| 350PD | DN150 | 1445 | 56.9 | 580 | 22.8 | 460 | 18.1 | 190 | 420 |
| 400QD | DN200 | 1710 | 67.3 | 750 | 29.5 | 640 | 25.1 | 375 | 827 |
| 450RD | DN250 | 1840 | 72.4 | 862 | 33.9 | 715 | 28.1 | 495 | 1090 |
| 500SD | DN300 | 1930 | 76.0 | 1000 | 39.4 | 840 | 33.1 | 600 | 1323 |



Filter coding example

Cast aluminium filters 005 - 060

| GRADE | MODEL | PIPE SIZE | CONNECTION TYPE | DRAIN OPTION | INCIDENT MONITOR OPTION |
|-----------------|------------------------------------------|--------------------------|---------------------|-------------------------|-------------------------------------------------------------------------|
| AO, AA, AR, AAR | 3 digit code denotes filter housing size | Letter denotes pipe size | B = BSPT N = NPT | F = Float M = Manual | X = None I = Incident Monitor (Not available on models 005 & 010) |
| AA | 010 | A | B | F | X |

} Example code

Carbon steel filters 150 - 500

| GRADE | MODEL | PIPE SIZE | CONNECTION TYPE | DRAIN OPTION | DIFFERENTIAL PRESSURE MONITOR OPTION |
|-----------------|------------------------------------------|----------------------------------|-----------------|-------------------------|--------------------------------------|
| AO, AA, AR, AAR | 3 digit code denotes filter housing size | Letter denotes Flange connection | D = DN | F = Float M = Manual | X = None I = Incident Monitor |
| AA | 150 | N | D | F | X |

} Example code

Optional accessories



Incident monitor

Used to indicate premature high differential pressure. Indicator can be retrofitted to existing housings without depressurising the system.



Filter fixing kits

Fixing clamp allows quick and simple connection of multiple filter housings.



Filter mounting brackets

Mounting brackets provide additional support to filters installed in flexible piping systems or OEM equipment.

| Filter model | |
|--------------|-----------|
| 015 - 055 | DPM |
| 060 | DPM - 060 |
| 150 - 500 | DPM - FAB |

| Filter model | |
|--------------|-------|
| 005 - 010 | FXKE1 |
| 015 - 020 | FXKE2 |
| 025 - 030 | FXKE3 |
| 035 - 045 | FXKE4 |
| 050 - 055 | FXKE5 |

| Filter model | |
|--------------|-------|
| 005 - 010 | MBKE1 |
| 015 - 020 | MBKE2 |
| 025 - 030 | MBKE3 |
| 035 - 045 | MBKE4 |
| 050 - 055 | MBKE5 |

Other filtration products

- Bulk liquid / water separators
- Oil vapour removal filters
- Filters with working pressures to 50 bar g
- Filters with working pressures to 350 bar g
- Alternative compressed air filter elements
- Oil / water separators
- Sterile air filtration
- Stainless steel filters
- Vacuum pump protection filters
- Vacuum pump exhaust filters
- Medical vacuum filters