



Filter housing APFF2475-4-03

| Design / capacity | | |
|--------------------------------------|---|--|
| Connection | | 4" flange flange |
| Nominal capacity | | 2474 cfm with APE825 at 14.5 psi (abs.) and 68°F at 101 psi g |
| Maximum capacity | | 5195 cfm with APE825SMA at 14.5 psi (abs.) and 68°F at 232 psi g |
| Maximum working pressure | | 232 psi g |
| Material | | Carbon steel |
| Operating temperature maximum | | 176 °F |
| Coating inside / outside | | corrosion protection layer |
| Colour outside | | RAL5010 (powder coated) |
| Fixing element | | Tie rod |
| Condensate drainage connection | | Rp 1/2" female thread |
| Dimensions in inch | A | 45.35 |
| [Dimension drawing on the last page] | B | 6.97 |
| | C | 21.65 |
| | D | 15.94 |
| | E | 20.08 |
| Weight in lbs | | 441 |

| Scope of supply | |
|-------------------------------|---------------|
| Housing | APFF2475-4-03 |
| Filter element | APE825 |
| Quantity | 3 |
| Types of condensate drainage: | |
| SMA - MF1 - MFO - FF5 - VF25 | D200 |
| DSF - DF1 - DMF, CA | HAM12 |

| Norms | |
|--------------------------|--|
| Pressure vessel standard | ASME Certification Mark with "UM" designator |
| NB Registration | Yes |

| Options | |
|-----------------------------|----------|
| Differential pressure gauge | APFF-DPN |
| Zero-loss condensate drain | KN265 |



Filter elements APE825 SMA - MF1 - MFO - FF5 - VF25

| Design | |
|---------------------------------|--|
| Flow direction | From the inside out |
| Material end caps | Glass-fibre reinforced nylon (30%) - (temperature resistant up to 248°F) |
| Support body inside and outside | Stainless steel |
| Filtration medium | Borosilicate microfiber fabric |
| Pre- and final filtration | Fibrous fleece |
| Drainage layer | Polyester needle felt |
| Bonding end caps | Two-component polyurethane resin |
| Material o-ring | NBR |
| Distinctive characteristics | Technically silicone-free |
| Cavity volume at 68°F | 96% |

Filter elements APE825 CA

| Design | |
|---------------------------------|--|
| Flow direction | From the inside out |
| Material end caps | Glass-fibre reinforced nylon (30%) - (temperature resistant up to 248°C) |
| Support body inside and outside | Stainless steel |
| Filtration medium | Non-woven medium, activated carbon impregnated |
| Final filtration | Fibrous fleece |
| Bonding end caps | Two-component polyurethane resin |
| Material o-ring | NBR |
| Distinctive characteristics | Technically silicone-free |
| Cavity volume at 68°F | 96% |

Filter elements APE825 DSF - DF1 - DMF (dust filtration)

| Design | |
|---------------------------------|--|
| Flow direction | From the outside in |
| Material end caps | Glass-fibre reinforced nylon (30%) - (temperature resistant up to 248°F) |
| Support body inside and outside | Stainless steel |
| Filtration medium | Borosilicate microfiber fabric |
| Pre- and final filtration | Fibrous fleece |
| Bonding end caps | Two-component polyurethane resin |
| Material o-ring | NBR |
| Distinctive characteristics | Technically silicone-free |
| Cavity volume at 68°F | 96% |

| Correction factors | | | | | | | | | | | | | | | | |
|--------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Working pressure | psig | 29 | 43.5 | 58 | 72.5 | 87 | 101 | 116 | 130 | 145 | 160 | 174 | 189 | 203 | 218 | 232 |
| | Coefficient | 0.38 | 0.50 | 0.63 | 0.75 | 0.88 | 1.00 | 1.12 | 1.25 | 1.37 | 1.49 | 1.62 | 1.74 | 1.86 | 1.98 | 2.10 |

Multiply the capacity of the filter by the correction factor in the upper table.



Capacity filter elements APE825

| Type | Particle filtration [micron] | Residual oil content [mg/m ³] | Working temperature [°F] | | Differential pressure [psi] | | | ISO classes* | |
|------------|---------------------------------|--|--------------------------|-------------|-----------------------------|-----------|-------------|--------------|-----|
| | | | maximum | recommended | new | moistened | replacement | particle | oil |
| APE825SMA | 0.01 | 0.01 | 248 | 122 | 1.2 | 1.9 | 1 year | 1 | 1 |
| APE825MF1 | 0.1 | 0.1 | 248 | 122 | 1.1 | 1.5 | 1 year | 1 | 2 |
| APE825MFO | 1 | 0.5 | 248 | 122 | 0.9 | 1.4 | 1 year | 2 | 2 |
| APE825FF5 | 5 | 5 | 248 | - | 0.8 | 1.2 | 1 year | 3 | 4 |
| APE825VF25 | 25 | 10 | 248 | - | 0.7 | 0.7 | 1 year | 5 | 5 |
| APE825CA | - | 0.003 | 77 | - | 1.1 | - | 6 months | - | 1 |
| APE825DSF | 0.01 | - | 248 | 122 | 1.2 | - | 1 year | 1 | - |
| APE825DF1 | 0.1 | - | 248 | 122 | 1.1 | - | 1 year | 2 | - |
| APE825DMF | 1 | - | 248 | 122 | 0.9 | - | 1 year | 2 | - |

*Compressed air quality according ISO 8573-1:2010

Dimensional drawing

