

DUOLINE™ Multi-Bag Filter Housing System

Duplex units for continuous filtration processes



DUOLINE units with
SIDELINE housings

Eaton's DUOLINE multi-bag filter housing systems are duplex units for continuous filtration processes where the system flow cannot be shut down for filter bag change-outs.

This multi-bag filter housing system consists of two single bag filter housings fitted together at the inlet and outlet by a butterfly valve or ball valve assembly. The dual housing system allows the filtration process to run continuously even during filter bag change-outs. Units come standard with filter bag size 02 stainless steel restrainer baskets.

Features

- Can be equipped with the most advanced TOPLINE™ single bag filter housing, the SIDELINE™ single bag filter housing for a greater range of applications or the economical FLOWLINE™ single bag filter housing for coarse particle filtration
- System arrangement assures continuous flow rates. One unit can be taken off-line in sequence for filter bag change-outs without having to take the other filter unit off-line

- Swing bolt cover for quick, easy filter bag change-outs. The TOPLINE single bag filter housing features a domed cover. FLOWLINE and SIDELINE single bag filter housings covers' feature an integrated ergonomic handle
- TOPLINE and SIDELINE models feature extended five year warranties and are designed in accordance with Section VIII, Division 1 of the ASME Code (standard in the US), "AD 2000-Merkblätter", EN 13445 and PED (standard in EMEA)
- Smooth, bead-blasted finish makes it easy to completely clean the interior

Options

- Housings and fittings available in stainless steel for high corrosion resistance. Carbon steel versions available in the US
- Available without valves, with butterfly valves or with ball valve assemblies
- Buna-N® O-rings for the cover are standard. EPDM, Viton®, PTFE encapsulated Viton or silicone rubber seals and gaskets are available
- Linkage assembly available. A quick turn of the linkage handle diverts the flow from one single bag filter housing to the other, guaranteeing a synchronized changeover

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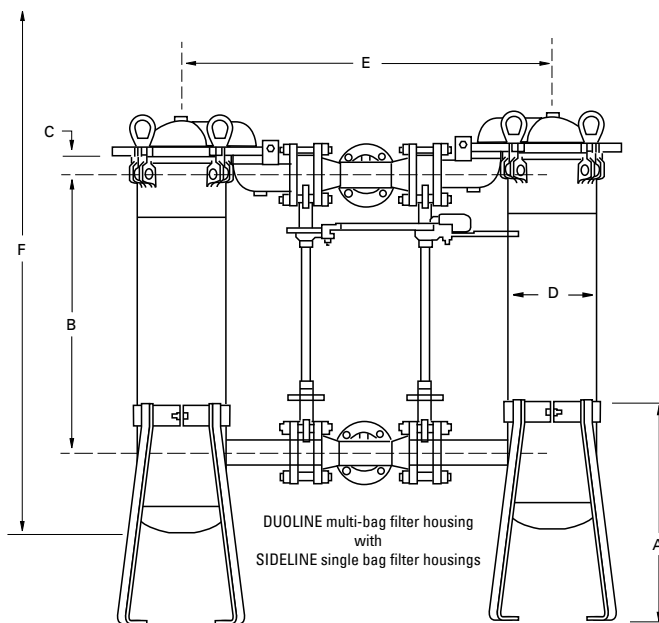
DUOLINE Multi-Bag Filter Housing System

Applications

| | |
|----------------------------|---|
| Coarse filtration > 500 µm | ✓ |
| Medium filtration > 10 µm | |
| Fine filtration < 10 µm | |

| | |
|-----------------------|---|
| Pre-filtration | ✓ |
| Safety filtration | ✓ |
| High volume | |
| Batch filtration | |
| Circuit filtration | ✓ |
| Continuous filtration | ✓ |

| | |
|----------------------------|---|
| Solvents, paints | |
| Fats and oils | ✓ |
| Catalyst, activated carbon | |
| Acids, bases | ✓ |
| Petrochemicals | ✓ |
| Water, waste water | ✓ |
| Chemical industry | ✓ |
| Pharmaceuticals | |
| Metal cleaning | |
| Automotive | |
| Electronics | |
| Food and beverage | |
| Paint and lacquer | ✓ |
| Water treatment | ✓ |
| Galvanic industry | |



Dimensions - inch (mm)

| Models | A | B | C | D | E | F |
|------------------------|-------------|-------------|-----------|------------|-------------|---------------|
| F3AVTB0222 (TOPLINE) | 19.25 (489) | 24.50 (622) | 1.93 (49) | 8.62 (219) | 37.50 (952) | 64.00 (1,625) |
| F3AVTB0322 (TOPLINE) | 19.25 (489) | 24.50 (622) | 1.93 (49) | 8.62 (219) | 37.50 (952) | 64.00 (1,625) |
| F3AVSB00222 (SIDELINE) | 19.25 (489) | 27.50 (698) | 3.15 (80) | 8.62 (219) | 30.62 (777) | 70.00 (1,778) |
| F3AVSB00322 (SIDELINE) | 19.25 (489) | 27.50 (698) | 3.15 (80) | 8.62 (219) | 33.12 (841) | 70.00 (1,778) |
| F3AVFB00422 (FLOWLINE) | 19.25 (489) | 28.44 (722) | 3.34 (85) | 7.68 (195) | 26.75 (679) | 69.00 (1,752) |
| F3AVFB00442 (FLOWLINE) | 19.25 (489) | 28.44 (722) | 3.34 (85) | 7.68 (195) | 26.75 (679) | 69.00 (1,752) |
| F3AVFB00443 (FLOWLINE) | 19.25 (489) | 28.44 (722) | 3.44 (87) | 7.68 (195) | 31.75 (806) | 69.00 (1,752) |
| F3AVFB01073 (FLOWLINE) | 19.25 (489) | 28.44 (722) | 3.44 (87) | 7.68 (195) | 31.75 (806) | 69.00 (1,752) |

Dimensions for reference only and approximate. Exact dimensions for installation purposes available on request.
Metric measures represent comparable products produced for EMEA and may not be an exact conversions.

Technical data

| Models | No. of filter bags | Size | Flow rate ¹ GPM (m³/h) | Max. pressure psi (bar) | Max. temp. °F (°C) | Housing volume gal (l) | Housing weight lb (kg) | I/O connections |
|-------------------------|--------------------|------|--------------------------------------|----------------------------|-----------------------|---------------------------|---------------------------|-----------------|
| F3AVTB0222 (TOPLINE) | 2 | 2 | 176 (40) | 150 (10) | 250 (160) | 16 (60.5) | 240 (109) | 2" |
| F3AVTB0322 (TOPLINE) | 2 | 2 | 176 (40) | 150 (10) | 250 (160) | 16 (60.5) | 240 (109) | 2" |
| F3AVSB00222 (SIDELINE) | 2 | 2 | 176 (40) | 150 (10) | 250 (160) | 16 (60.5) | 300 (134) | 2" |
| F3AVSB00322 (SIDELINE) | 2 | 2 | 176 (40) | 150 (10) | 250 (160) | 17 (64.35) | 330 (149.7) | 3" |
| F3AVFB00422 (FLOWLINE) | 2 | 2 | 176 (40) | 150 (10) | 250 (160) | 15 (56.78) | 200 (90.7) | 2" |
| F3AVFB00442 (FLOWLINE) | 2 | 2 | 176 (40) | 150 (10) | 250 (160) | 15 (56.78) | 200 (90.7) | 2" |
| F3AVFB00443 (FLOWLINE) | 2 | 2 | 176 (40) | 150 (10) | 250 (160) | 15 (56.78) | 200 (90.7) | 3" |
| F3AVFB011073 (FLOWLINE) | 2 | 2 | 176 (40) | 150 (10) | 250 (160) | 15 (56.78) | 200 (90.7) | 3" |

¹ Maximum theoretical flow based on water viscosity, filter bag specific. ² Depending on seal material.
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