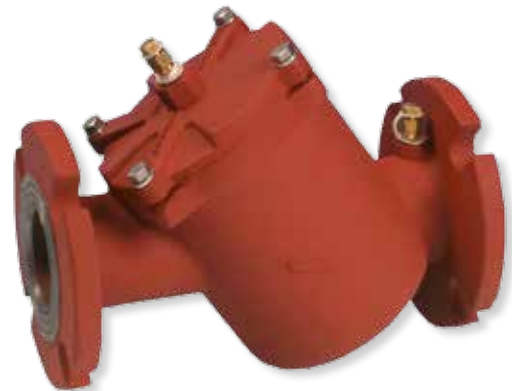


FlowCon Uni-Flange Valve 65-80mm

Automatic Flow Control - Accessible Pre-Set Insert(s)



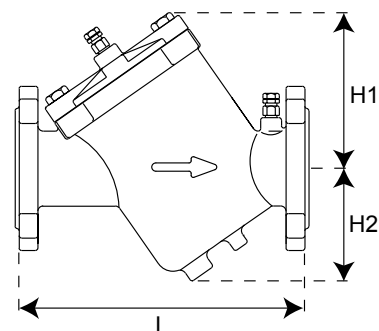
SPECIFICATIONS

| | |
|---------------------|---|
| Pressure rating: | 1030 kPa / 149 psi |
| Temperature rating: | +135°C / +275°F |
| Material: | |
| - Insert: | AISI Type 304 stainless steel |
| | AISI type 17-7 PH stainless steel spring |
| - Body: | Ductile iron ASTM A5236-80 class 50-40-18 |
| - O-rings: | EPDM |
| End connections: | ANSI 150 lb. flanges 2 1/2" and 3" |
| Body tappings: | 1/4" NPT with p/t plugs |
| Assembly: | Valve comes fully assembled |
| Flow rate range: | 0.757-21.577 l/sec |
| Options: | Two 1/4"-1 1/4" p/t extensions |
| | Drain valve |
| Isolation options: | Butterfly valve |

DIMENSIONS AND WEIGHTS (NOMINAL) (measured in mm unless noted)

| Model no. | Valve size | Insert size | L | H1 | H2 | Kv ¹ (m ³ /H) | Weight (kgs.) |
|-----------|------------|-------------|-------|-------|-------|-------------------------------------|---------------|
| F3UFxxBx | 65/80 | 50 | 301.5 | 133.4 | 109.2 | 105 | 12.7 |

Note 1: Kv-value measured without insert.



MODEL NUMBER SELECTION²

F3UF

Select a kPaD control range:
0=none **1**=10-95 kPaD **2**=22-210 kPaD **4**=40-390 kPaD **8**=90-880 kPaD

Insert isolation option:
B=none (standard)
M=2 1/2" butterfly
N=3" butterfly

Insert number of inserts:
1=1x2" insert ("low" flow)
2=2x2" insert ("medium" flow)
3=3x2" insert ("high" flow)

Insert tag requirement:
T=Optional aluminum hanging identification tag

Example: F3UF0B2=Uni-Flange valve for 65/80mm flanges with p/t plugs and no insert or isolation.

Note: Please specify flow requirements as per selection chart when ordering with inserts.

Note 2: Model no. and flow rate are indicated on label affixed to body.

FLOW RATE TABLE

| 50mm · 2" · stainless steel insert | | | | | | | |
|------------------------------------|-------------------|-------------------|----------------------|-------------------------|--------------------------|--------------------------|---------------------------|
| Pressure range, ΔP: | | | | 10-95 kPaD 1-14 psid | 22-210 kPaD 2-32 psid | 40-390 kPaD 4-57 psid | 90-880 kPaD 8-128 psid |
| | | | | Type 1 | Type 2 | Type 4 | Type 8 |
| Valve size (mm) | Valve size (") | No. of inserts | min. available l/sec | 0.757 | 1.14 | 1.51 | 2.27 |
| | | | l/sec increments | 0.126 | 0.180 | 0.26 | 0.38 |
| 65/80 | 2 1/2"/3" | 1 | max. available l/sec | 2.40 | 3.60 | 4.79 | 7.19 |
| | | 2 | | 4.80 | 7.20 | 9.58 | 14.38 |
| | | 3 | | 7.20 | 10.80 | 14.37 | 21.57 |

Accuracy: ±5% of controlled flow rate.

GENERAL SPECIFICATIONS

1. AUTOMATIC BALANCING VALVES - UNI-FLANGE VALVE

- 1.1. Contractor shall install automatic balancing valves where indicated in drawings.
- 1.2. Valve shall consist of a dynamic and accessible flow limiting device.

2. VALVE HOUSING

- 2.1. Valve housing shall consist of ductile iron ASTM A536-80, Class 50-40-18, rated at no less than 1030 kPa static pressure and +135°C.
- 2.2. Valve housing shall be permanently marked to show direction of flow.
- 2.3. Valve shall be constructed in a one-piece housing.
- 2.4. Dual pressure/temperature test plugs for verifying accuracy of flow performance shall be provided for all valve sizes.
- 2.5. Valve housing shall be compatible with ANSI 150 lb. flanges 65mm (2 1/2") and 80mm (3").
- 2.6. Housing shall be configured for flow regulation unit accessibility.
- 2.7. Butterfly valve shall be available for all valves.

3. FLOW REGULATOR / AUTOMATIC BALANCING UNIT

- 3.1. Flow regulation unit assembly shall be manufactured of AISI type 304 stainless steel and stainless steel 17-7 spring.
- 3.2. Flow regulation unit shall be available in 4 different kPaD operational range; minimum range shall be capable of being activated by minimum 10 kPaD. Further, the flow regulation unit shall be capable of controlling flow within $\pm 5\%$ of rated flow.
- 3.3. Identification tags shall be available for all valves; tags shall be indelibly marked with part number and flow rate.

UPDATES

For latest updates please see www.flowcon.com

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