

# FlowCon Uni-Flange Valve 65-80mm

*Automatic Flow Control - Accessible Pre-Set Cartridge(s)*



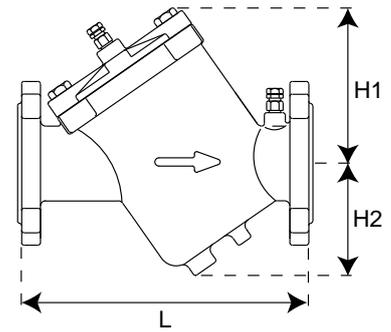
## SPECIFICATIONS

Pressure rating:	1030 kPa / 149 psi
Temperature rating:	+135°C / +275°F
Material:	
- Cartridge:	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	Cartridge size	L	H1	H2	Kv <sup>1</sup> (m <sup>3</sup> /H)	Weight (kgs.)
F3UFxxBx	65/80	50	301.5	133.4	109.2	105	12.7

Note 1: Kv-value measured without cartridge.



## MODEL NUMBER SELECTION<sup>2</sup>

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 cartridges:  
 1=1x2" cartridge ("low" flow)  
 2=2x2" cartridge ("medium" flow)  
 3=3x2" cartridge ("high" flow)

Insert tag requirement:  
 T=Optional aluminum hanging identification tag:

F 3UF

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

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

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

## FLOW RATE TABLE

50mm · 2" · stainless steel cartridge							
		Pressure range, ΔP:		10-135 kPaD 1-20 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 cartridges	min. available l/sec l/sec increments	0.757	1.14	1.51	2.27
65/80	2 1/2"/3"	1	max. available l/sec	0.126	0.180	0.26	0.38
		2		2.40	3.60	4.79	7.19
		3		4.80	7.20	9.58	14.38
				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

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