

Design Features & Advantages

- Interchangeable flow tube assemblies and valves allow configuration changes without removal from process system.
- Rib-guided, compression sealed flow tubes for maximum float stability.
- Ceramic scales fired on flow tubes against a contrasting background provide high visibility and durability.
- Standard or high-resolution metering valves available on inlet or outlet (see page 8 for valve details).
- Ten-to-one rangeability.

Specifications

Scale -

Length: Models F65 and 65 - 65mm; Models F150 and 150 - 150mm.

Type: Fused on metering tube with contrasting yellow background.

Graduations: Standard - Models F65 and 65: 0-65mm w/ calibration data; Models F150 and 150: 0-150mm w/ calibration data.

Optional: Direct reading scales.

Capacities -

Refer to capacity chart on page 7.

Ratings -

Pressure/Temperature: Neoprene packing/ Buna N O-rings - 200 psig at temperatures up to 160°F; Viton® packing/Viton O-rings - 200 psig at temperatures up to 200°F.

Performance -

Accuracy: Models F65 and 65: ± 10% full scale; Models F150 and 150: ± 5% full scale.

Accuracy specified for 100% - 10% of scale reading (10 to 1 rangeability).

Repeatability: Models F65 and 65: ± 0.5% of full scale reading; Models F150 and 150: ± 0.25% of full scale reading.

Connections -

Standard: 1/8" female NPT threaded adaptors with locknuts for front panel mounting. Optional: 1/8" compression fitting; 1/4" compression fitting; 1/4" NPT female; 1/4" I.D. Hose.

Multi-tube Flowmeters

Porter Models 65 and 150 Side-Plate Flowmeters are available in multi-tube configurations up to 6 tubes. All valve options are available, and the inlet/outlet ports can be manifolded. Contact factory for details.

Materials of Construction

Metering tube - Borosilicate glass.

Floats- Standard: glass, stainless steel.
Optional: sapphire, carboly, tantalum.

Structural Members -

Metering body: (F65 and F150) Black anodized aluminum.

Side plates: (65 and 150) Standard: black anodized aluminum. Optional: stainless steel.

Wetted Parts: aluminum, brass or 316 stainless steel.

End Fittings: black anodized aluminum or chrome plated brass or 316 stainless steel.

Shields - Clear polycarbonate.

Tube packing and O-Rings - Standard: Neoprene packing and Buna N O-rings with aluminum or brass construction. Viton packing and Viton O-rings with stainless steel construction. Optional Materials: Teflon®, EPDM, Kalrez®.

Options

- Integral standard cartridge or high resolution flow control valve
- Brass or 316 stainless steel wetted parts
- Special packing and o-rings
- Special process connections
- Direct reading scales
- Stainless steel side plates (Models 65 & 150 only)
- Base plate (Models 65 & 150 only)



Ordering Information

Model Number and Description

Example:

F65 A V 2

Basic Model

F65-65mm Forged Body
F150-150mm Forged Body
65-65mm Side Plate Body
150-150mm Side Plate Body

Body Material

A - Aluminum
B - Brass
S - Stainless Steel

Valve

O- No Valve
V- Standard Cartridge Control Valve
HR- High Resolution Control Valve

Valve Size

0 thru 6 High Resolution Control Valve
1 thru 3 Standard Cartridge Valve
1-TG Torque Guard Taper 1
2-TG Torque Guard Taper 2

To order, specify:

- Model Number
- Tube Number
- Float Material
- Connections (Type & Size)
- Fluid Specifications (specific gravity & viscosity)
- Flow Rate
- Operating Pressure
- Operating Temperature
- Material of Construction for
 - (a) End fitting
 - (b) Side plates or meter body
 - (c) Elastomers

Teflon® - E.I. DuPont de Nemours & Co.

Kalrez®, Viton® - DuPont Dow Elastomers LLC

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