FS-150 Series – Straight Flow Path with Low Pressure Drop

Flow Rate Settings: Liquids: 0.5 GPM to 5 GPM
Port Size: 1/2″ NPT
Primary Construction Material: Polypropylene
Setting Type: Fixed

These slim, inline switches reduce pressure drop to a minimum. They incorporate a unique, dual-diameter, internal bore and piston configuration to minimize flow constriction. Liquids are able to smoothly pass around the piston and flow through the switch with little pressure loss to the down stream line.

U.L. RECOGNIZED —
FILE NO. E31926
CSA Listed —
File No. LR30200

Patent #
4.996.396

Specifications

Wetted Materials	
Housing	Polypropylene, Hydrolytically Stable, Glass Reinforced
Piston	Ryton®-R4, 316 Stainless Steel
O-Ring	Viton®
Spring	316 Stainless Steel
Operating Pressure, Maximum	200 PSIG (13.8 bar) @+70°F to +150°F (+21.1°C to 65.5°C) 150 PSIG (10.3 bar) @+150°F to +212°F (+65.5°C to +100°C)
Operating Temperature	0°F to 212°F (-17.8°C to +100°C)
Set Point Accuracy	±15%
Set Point Differential	20% Maximum
Switch*	SPST, 20 VA
Inlet/Outlet Ports	1/2″ NPT Male
Electrical Termination	1/4″ Male Quick Connect Terminals (2)

*See "Electrical Data" on Page X-5 for more information.

How To Order – Standard Models

Specify Part Number based on flow setting and switch operation.

Flow Settings GPM	Part Numbers	
	Normally Open @ No Flow	Normally Closed @ No Flow
0.5	129660⚡	129666
1.0	129661⚡	129667
2.0	129662⚡	129668
3.0	129663	129669
4.0	129664	129670
5.0	129665	129671

Notes:
1. Flow settings are calibrated using water @ +70°F on increasing flow, with units in a horizontal position (terminals up).
2. Care should be taken by specifiers to ensure fluid compatibility with the above listed wetted materials.
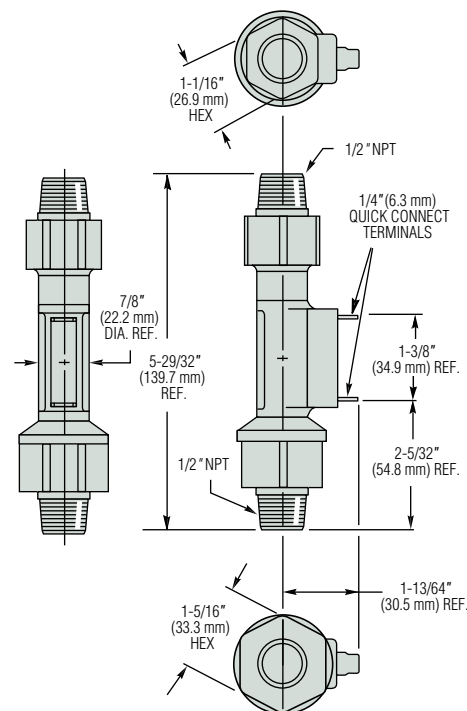3. Use of 150 micron filtration is recommended.

⚡ – Stock Items.

Dimensions

1-1/16″ (26.9 mm) HEX

1/2″ NPT

1/4″ (6.3 mm) QUICK CONNECT TERMINALS

7/8″ (22.2 mm) DIA. REF.

5-29/32″ (139.7 mm) REF.

1-3/8″ (34.9 mm) REF.

2-5/32″ (54.8 mm) REF.

1/2″ NPT

1-5/16″ (33.3 mm) HEX

1-13/64″ (30.5 mm) REF.

Note: Cable output available. Please consult factory.

Pressure Drop - Typical

Part No. 129663
Part No. 129665
Part No. 129664
Part No. 129660
Part No. 129661
Part No. 129662

PRESSURE DROP (PSID)

FLOW RATE - GPM
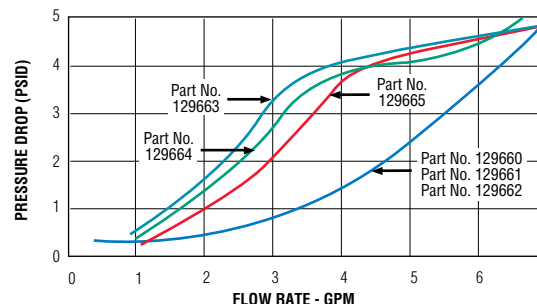
Tests conducted with units in a horizontal position with water at +70°F (21°C). Data will vary slightly for vertically mounted units.

FLOW SWITCHES

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