

# INDUSTRIAL STRENGTH IN-LINE PLASTIC FLOW SWITCH



## FSW-140 Series



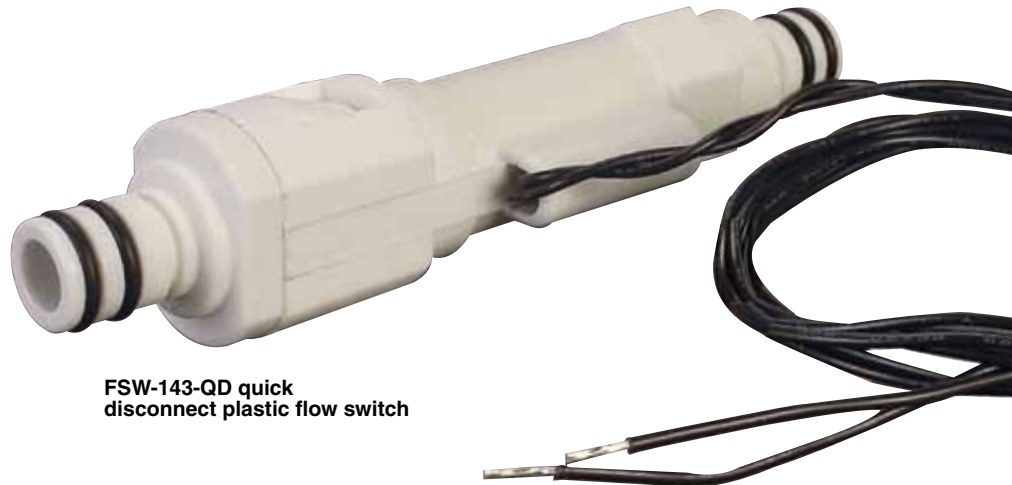
- ✓ Preset Switch Points, 0.07 to 2.00 GPM
- ✓ 3/8" NPT Male or 1/4" Quick Disconnect
- ✓ Chemical Resistant Polypropylene
- ✓ For Low Viscosity Liquids

The FSW-140 Series rugged inline flow switches offer superior performance. Their fixed set-point and simple design make it a dependable switch. This series is an ideal choice for coolant applications requiring reliable flow detection in HVAC, semiconductor, welding, medical and other industries. The 1/4" quick disconnect units have a host of snap-on mating adaptors available to fit most piping requirements.



FSW-142 plastic flow switch.

Both models shown actual size.



FSW-143-QD quick disconnect plastic flow switch

## SPECIFICATIONS

### Wetted Materials:

**Housing:** Glass reinforced polypropylene

**Piston:** PPS composite

**Spring:** 316 stainless steel

**O-Ring:** Fluorocarbon

### Operating Pressure:

8.6 bar (125 psi) @ 21°C (70°F)

3.4 bar (50 psi) @ 100°C (212°F)

**Operating Temperature:** -18 to 100°C (0 to 212°F)

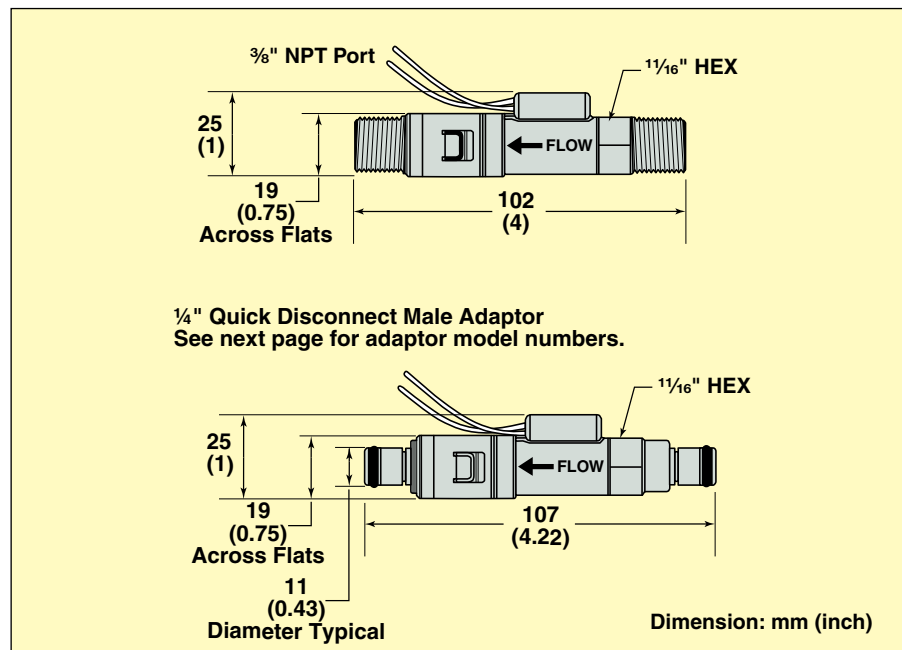
**Set Point Accuracy:** 20% of set point

**Set Point Differential:** 20% maximum

**Switch:** SPST, 10VA, normally open at no flow

**Electrical Termination:** 610 mm (24") polymeric leads, 22 AWG

**Filtration:** 100 micron





## SPECIFICATIONS

### Thermoplastic Quick Couplings

#### Working Pressure:

Vacuum to 120 psi (8.3 bar)

#### Operating Temperature:

-40 to 82°C (-40 to 180°F) continuous

#### Materials:

**Bodies and Valves:** Acetal

**Internal Spring:** 316 Stainless Steel

**External Springs, Pin, Latch:**

**Stainless Steel Seals:**

Buna, others available

**Color:** Natural white, others available

**Tubing Sizes:** ¼ thru ¾" ID, ¼ and ¾" OD  
6 x 4 mm thru 12 x 8 mm (OD x ID)




FT-PLC170-04




FT-PLC100-04

Both models shown actual size.

## To Order Visit [omega.com/ft-plc\\_14](http://omega.com/ft-plc_14) for Pricing and Details

PIPE THREAD  5/8" Hex	MALE THREAD	STRAIGHT THRU MODEL NO.	SHUTOFF MODEL NO.	LENGTH
	¼ NPT	<b>FT-PLC100-04</b>	<b>FT-PLCD100-04</b>	1.15"
¾ NPT	<b>FT-PLC100-06</b>	<b>FT-PLCD100-06</b>	1.15"	
¼ BSPT	<b>FT-PLC100-04BS</b>	<b>FT-PLCD100-04BS</b>	1.15"	
¾ BSPT	<b>FT-PLC100-06BS</b>	<b>FT-PLCD100-06BS</b>	1.15"	

### IN LINE, Streamline Design

	Ferrules Polytube Fitting†				LENGTH
	TUBING SIZE OD x ID	METRIC EQ mm	STRAIGHT THRU MODEL NO.	SHUTOFF MODEL NO.	
¼ x 0.170"	6 x 4.3	<b>FT-PLC130-04</b>	<b>FT-PLCD130-04</b>	1.82"	
— —	8 x 6	<b>FT-PLC130-M8</b>	<b>FT-PLCD130-M8</b>	1.95"	
¾ x 0.250"	9.5 x 6	<b>FT-PLC130-06</b>	<b>FT-PLCD130-06</b>	1.95"	
— —	10 x 8	<b>FT-PLC130-M10</b>	<b>FT-PLCD130-M10</b>	1.95"	
Hose Barb					
¼" ID	6.4 ID	<b>FT-PLC170-04</b>	<b>FT-PLCD170-04</b>	1.95"	
5/16" ID	7.9 ID	<b>FT-PLC170-05</b>	<b>FT-PLCD170-05</b>	1.95"	
¾" ID	9.5 ID	<b>FT-PLC170-06</b>	<b>FT-PLCD170-06</b>	1.95"	

Acetal and chrome-plated brass coupling halves interchange.

† Visit [omega.com/rohs](http://omega.com/rohs) to determine specific RoHS compliance.

†† PTF fittings are designed for semi-rigid tubing, i.e. polyethylene, nylon etc. and polyurethane tubing.

## To Order Visit [omega.com/fsw-140](http://omega.com/fsw-140) for Pricing and Details

Model No.	Description	Quick Disconnect Model No.	Description
<b>FSW-141</b>	Set point = 0.07 GPM ¾ NPT	<b>FSW-141-QD</b>	Set point = 0.07 GPM quick disconnect*
<b>FSW-142</b>	Set point = 0.15 GPM ¾ NPT	<b>FSW-142-QD</b>	Set point = 0.15 GPM quick disconnect*
<b>FSW-143</b>	Set point = 0.25 GPM ¾ NPT	<b>FSW-143-QD</b>	Set point = 0.25 GPM quick disconnect*
<b>FSW-144</b>	Set point = 0.5 GPM ¾ NPT	<b>FSW-144-QD</b>	Set point = 0.5 GPM quick disconnect*
<b>FSW-145</b>	Set point = 1.0 GPM ¾ NPT	<b>FSW-145-QD</b>	Set point = 1.0 GPM quick disconnect*
<b>FSW-146</b>	Set point = 1.5 GPM ¾ NPT	<b>FSW-146-QD</b>	Set point = 1.5 GPM quick disconnect*
<b>FSW-147</b>	Set point = 2.0 GPM ¾ NPT	<b>FSW-147-QD</b>	Set point = 2.0 GPM quick disconnect*

\* Fittings sold separately, see chart above.

Comes complete with operator's manual

**Ordering Examples:** **FSW-143**, 0.25 GPM, plastic flow switch with ¾ NPT connections.

**FSW-146-QD**, 1.5 GPM plastic flow switch with quick disconnect, two **FT-PLC170-04**, ¼" ID hose barb/quick disconnect fittings.