

# INDUSTRIAL STRENGTH IN-LINE PLASTIC FLOW SWITCH



## FSW-140 Series



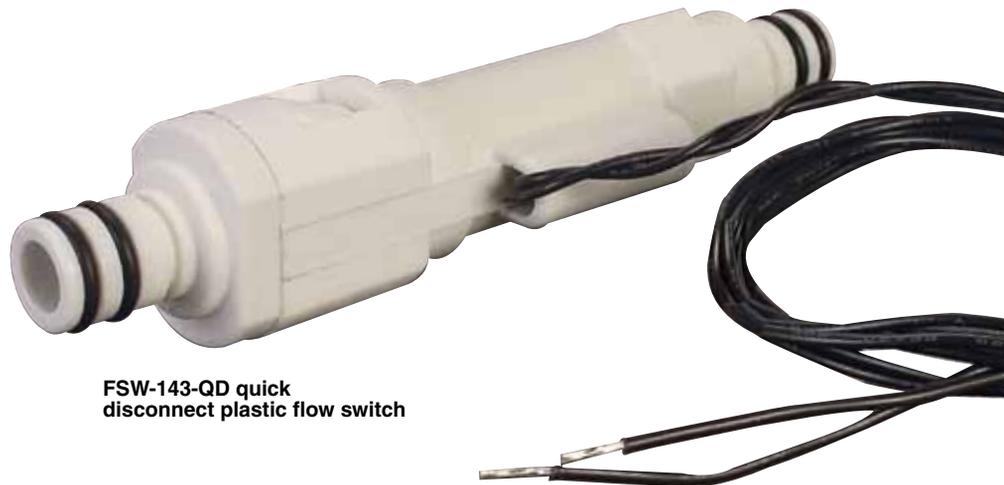
- ✓ Preset Switch Points, 0.07 to 2.00 GPM
- ✓ 3/8" NPT Male or 1/4" Quick Disconnect
- ✓ Chemical Resistant Polypropylene
- ✓ For Low Viscosity Liquids

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)

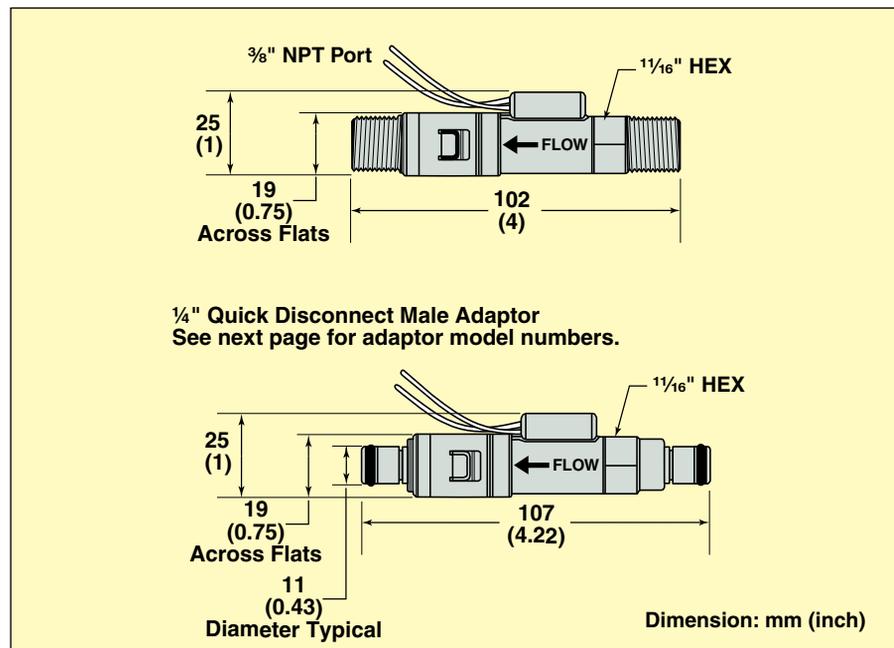
**Set Point Accuracy:** 20% of set point

**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						
 <p>5/8" Hex</p>	PIPE THREAD		MALE THREAD	STRAIGHT THRU MODEL NO.	SHUTOFF MODEL NO.	LENGTH
			¼ NPT	FT-PLC100-04	FT-PLCD100-04	1.15"
			¾ NPT	FT-PLC100-06	FT-PLCD100-06	1.15"
			¼ BSPT	FT-PLC100-04BS	FT-PLCD100-04BS	1.15"
			¾ BSPT	FT-PLC100-06BS	FT-PLCD100-06BS	1.15"
IN LINE, Streamline Design						
	Ferrules Polytube Fitting†					
	TUBING SIZE OD x ID	METRIC EQ mm	STRAIGHT THRU MODEL NO.	SHUTOFF MODEL NO.	LENGTH	
	¼ x 0.170"	6 x 4.3	FT-PLC130-04	FT-PLCD130-04	1.82"	
	— —	8 x 6	FT-PLC130-M8	FT-PLCD130-M8	1.95"	
	¾ x 0.250"	9.5 x 6	FT-PLC130-06	FT-PLCD130-06	1.95"	
	— —	10 x 8	FT-PLC130-M10	FT-PLCD130-M10	1.95"	
	Hose Barb					
	¼" ID	6.4 ID	FT-PLC170-04	FT-PLCD170-04	1.95"	
	5/16" ID	7.9 ID	FT-PLC170-05	FT-PLCD170-05	1.95"	
	¾" ID	9.5 ID	FT-PLC170-06	FT-PLCD170-06	1.95"	

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