

INDUSTRIAL STRENGTH IN-LINE PLASTIC FLOW SWITCH



FSW-140 Series



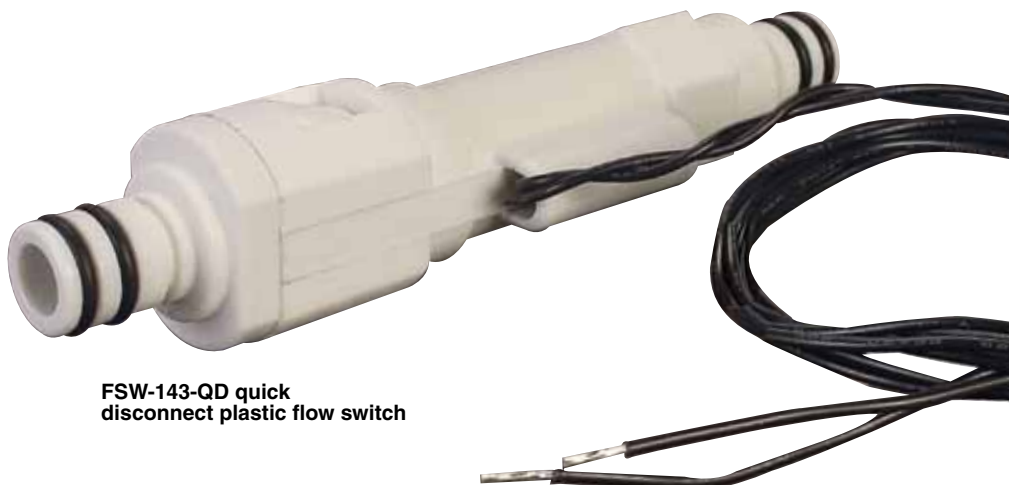
- ✓ Preset Switch Points, 0.07 to 2.00 GPM
- ✓ 3/8" NPT Male or 1/4" Quick Disconnect
- ✓ Chemical Resistant Polypropylene
- ✓ For Low Viscosity Liquids

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)

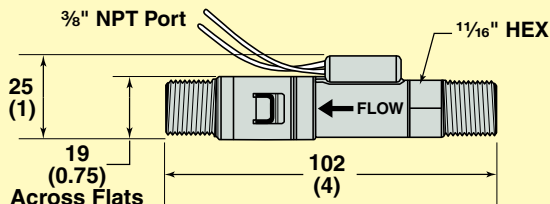
Set Point Accuracy: 20% of set point

Set Point Differential: 20% maximum

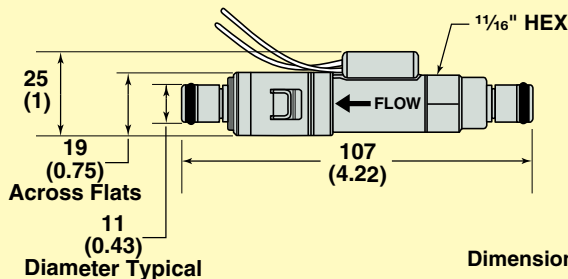
Switch: SPST, 10VA, normally open at no flow

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

Filtration: 100 micron



1/4" Quick Disconnect Male Adaptor
See next page for adaptor model numbers.



Dimension: mm (inch)



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

PIPE THREAD



5/8" Hex

MALE THREAD

¼ NPT
⅜ NPT
¼ BSPT
⅜ BSPT

STRAIGHT THRU MODEL NO.

FT-PLC100-04
FT-PLC100-06
FT-PLC100-04BS
FT-PLC100-06BS

SHUTOFF MODEL NO.

FT-PLCD100-04
FT-PLCD100-06
FT-PLCD100-04BS
FT-PLCD100-06BS

LENGTH

1.15"
1.15"
1.15"
1.15"

IN LINE, Streamline Design



Ferruleless Polytube Fitting†

TUBING SIZE OD x ID

¼ x 0.170"
— —
⅜ x 0.250"
— —

METRIC EQ mm

6 x 4.3
8 x 6
9.5 x 6
10 x 8

STRAIGHT THRU MODEL NO.

FT-PLC130-04
FT-PLC130-M8
FT-PLC130-06
FT-PLC130-M10

SHUTOFF MODEL NO.

FT-PLCD130-04
FT-PLCD130-M8
FT-PLCD130-06
FT-PLCD130-M10

LENGTH

1.82"
1.95"
1.95"
1.95"

Hose Barb

¼" ID
5/16" ID
⅜" ID

6.4 ID
7.9 ID
9.5 ID

FT-PLC170-04
FT-PLC170-05
FT-PLC170-06

FT-PLCD170-04
FT-PLCD170-05
FT-PLCD170-06

1.95"
1.95"
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.