TRIM-TO-SIZE PADDLE-TYPE SWITCHES FOR FLOW/NO FLOW DETECTION

For Piping Systems 11/4" and Up

FSW-20 Series



- ✓ Easy to Install
- Switch Acts Bidirectionally
- Minimum Flow Restriction
- ✓ Less Than 3 psig Pressure Drop
- ✓ Low Cost
- ✓ Reed Relay for Long Life

FSW-20 Series paddle-type switches are easily installed into pipes ranging in size from 1½" and up, using an ordinary pipe tee or threaded weld coupling. The paddle pivots to move out of the liquid's path with increasing flow, thereby activating the switch. The paddle is easily cut for desired flow setting. Models FSW-21 and FSW-22 feature high-pressure (2000 psig max) and high-temperature [to 150°C (300°F)] ratings for rugged installations.

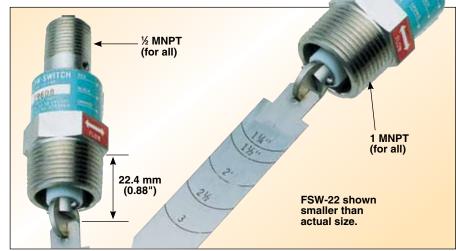
SPECIFICATIONS

Body Length: 86 mm (3.4")
Paddle Length: 140 mm (5.5")
Paddle Width: 25 mm (1")
Pressure Drop: 3 psig
Repeatability: ±5%
Setpoint Accuracy: ±25%
Note: 22 mm (0.9") max height boss
from pipe or tee OD for full paddle swing
Lead Wires: 18 AWG, 0.6 m (2')

long, polymeric

Max Viscosity: 200 SSU or

43 centistokes







| To Order | | | | | | | | | | |
|--------------|---------|-----------|------------------|------------------------|---------------|-------------|--|--|--|--|
| | | Materials | ; | Operating | Max Pres | | | | | |
| Model No. | Housing | Paddle | Other Wetted | Temperature °C (°F) | Rating (psig) | Switch | | | | |
| FSW-21 | Brass | 000 00 | PTFE, | -34.4 to 149 | 0000 | ODDT OO VA | | | | |
| FSW-22 | 316 SS | 302 SS | PTFE, ceramic | (-30 to 300) | 2000 | SPDT, 20 VA | | | | |

Models FSW-21 and FSW-22 Standard Actuation and De-Actuation Setpoints

| | Pipe Line Sizes | | | | | | | | | | | |
|--------------------------------|---|-------------|-------|-------------|------|-------------|-------------|-------------|------|-------------|------|------------|
| | 11/4" | | 11/2" | | 2" | | 2 ½" | | 3" | | 4" | |
| Pipe Size | Approximate Actuation and De-Actuation Flow Rates-GPM Water | | | | | | | | | | | |
| Marked at Paddle Cut-off Point | Act. | De- Act. | Act. | De- Act. | Act. | De- Act. | Act. | De- Act. | Act. | De- Act. | Act. | De- Act |
| 11/4" | 5 | 3 | 13 | 8 | 22 | 15 | 29 | 22 | AUI. | AUI. | ACI. | ACL |
| 1½" | | | 15 | 11 | 28 | 21 | 38 | 30 | | | | |
| 2" | | | | | 22 | 15 | 27 | 20 | 48 | 38 | | |
| 21/2" | | | | | | | 21 | 14 | 40 | 26 | 52 | 39 |
| 3" | | | | | | | | | 31 | 20 | 45 | 32 |
| 4" | | | | | | | | | | | 39 | 25 |

All flow rate tests for the above table were conducted with the switch installed in a standard "T" fitting. For calculation of flow rates in pipe sizes larger than 5", a flow velocity of approximately 0.5 fps actuates the switch with a full length (5") paddle.

Comes complete with operator's manual.

Ordering Example: FSW-21, brass and 302 SS switch.