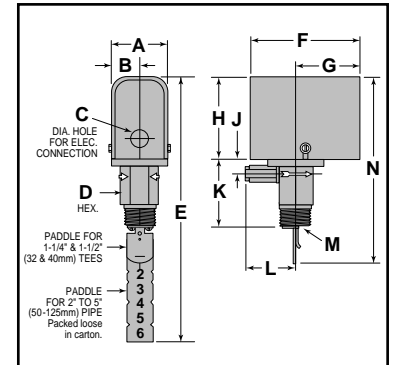


Flow Switches – Liquid (continued)

Series FS7-4 Industrial Liquid Flow Switches

- Universal design serves the widest variety of large pipe applications, including heating and hydronic systems, air conditioning, refrigeration and process work
- 1 1/4" (32mm) NPT
- Brass with sealed tube construction
- Single pole, double throw snap switch
- Magnetic switching mechanism eliminates need for bellows
- Sensitivity adjusting screw makes flow adjustment easy
- Paddles can be trimmed to suit application needs
- Optional features
 - Extended paddle arm
 - Two SPDT switches to make or break two separate circuits
 - Stainless steel
 - BSPT threads
 - Sprinkler service (UL & ULC listed)
- Minimum temperature (fluid or ambient) 32°F (0°C)
- Maximum temperature 300°F (149°C)
- Maximum operating pressure
 - 300 psi (7 kg/cm²)
 - 1000 psi (70 kg/cm²) – Stainless Steel models



Electrical Ratings

| Voltage | Motor Switch Rating (Amperes) | | Pilot Duty |
|---------|-------------------------------|--------------|--|
| | Full Load | Locked Rotor | |
| 120 VAC | 7.4 | 44.4 | 125 VA at 120 or 240 VAC 50 or 60 cycles |
| 240 VAC | 3.7 | 22.2 | |

Dimensions, in. (mm)

| A | B | C | D | E | F | G |
|-------------|-------------|-------------|------------|-------------------|---------------|------------|
| 2 7/8 (73) | 1 7/16 (37) | 7/8 (22) | 1 3/4 (45) | 13 9/16 (345) | 5 13/16 (148) | 3 3/8 (86) |
| H | J | K | L | M | N | |
| 4 1/8 (105) | 1 5/16 (24) | 3 7/16 (87) | 2 5/8 (67) | 1 1/4 (32) NPT | 9 1/2 (241) | |

Flow Rates

| Model | Size NPT in. (mm) | Settings | Mode of Operation | |
|-----------|----------------------|--------------------|-------------------|----------------------|
| | | | Flow gpm (lpm) | No Flow gpm (lpm) |
| FS7-4 | 1¼ (32) | Factory or Minimum | 4.8 (18.2) | 3 (11.4) |
| | | Maximum | 7.7 (29.1) | 5.9 (22.3) |
| | 1½ (40) | Factory or Minimum | 6.3 (23.8) | 3.6 (13.6) |
| | | Maximum | 10 (37.9) | 7 (26.5) |
| | 2 (50) | Factory or Minimum | 9.9 (37.5) | 5.9 (22.3) |
| | | Maximum | 15.8 (59.8) | 11 (41.6) |
| | 2½ (60) | Factory or Minimum | 15.3 (57.9) | 9.5 (36) |
| | | Maximum | 23.7 (89.7) | 17 (64.3) |
| | 3 (80) | Factory or Minimum | 24.4 (92.4) | 15.4 (58.3) |
| | | Maximum | 35.5 (134.4) | 29.2 (110.5) |
| | 4 (100) | Factory or Minimum | 33.3 (126) | 21.1 (79.9) |
| | | Maximum | 61.4 (232.4) | 37.7 (142.7) |
| | 5 (125) | Factory or Minimum | 44.4 (168.1) | 31 (117.3) |
| | | Maximum | 84 (317.9) | 51 (193) |
| | 6 (150) | Factory or Minimum | 56.3 (213.1) | 48.7 (184.3) |
| | | Maximum | 114.8 (434.5) | 71 (270.6) |
| | 8 (200)* | Factory or Minimum | 104 (393.6) | 89 (336.9) |
| | | Maximum | 210 (794.9) | 131 (495.8) |
| | 10 (250)* | Factory or Minimum | 184 (696.4) | 157 (594.2) |
| | | Maximum | 369 (1397) | 231 (874.3) |
| | 12 (300)* | Factory or Minimum | 289 (1094) | 247 (934.9) |
| | | Maximum | 582 (2203) | 363 (1374) |
| | 14 (355)* | Factory or Minimum | 387 (1465) | 323 (1223) |
| | | Maximum | 753 (2850) | 495 (1874) |
| 16 (405)* | Factory or Minimum | 513 (1942) | 428 (1620) | |
| | Maximum | 998 (3777) | 656 (2483) | |
| FS7-4L | 20 (500)* | Factory or Minimum | 520 (1968) | 260 (984) |
| | | Maximum | 780 (2952) | 693 (2623) |
| | 24 (600)* | Factory or Minimum | 752 (2846) | 376 (1423) |
| | | Maximum | 1128 (4269) | 1002 (3793) |
| | 30 (760)* | Factory or Minimum | 1177 (4455) | 589 (2229) |
| | | Maximum | 1766 (6684) | 1570(59842) |
| | 36 (910)* | Factory or Minimum | 1723 (6522) | 861 (3259) |
| | | Maximum | 2584 (9870) | 2297 (8694) |

Values are ± 10%

* Equipped with a 6" (152mm) paddle

Ordering Information

| Model Number | Part Number | Description | Weight lbs. (kg) |
|--------------|-------------|--|------------------|
| FS7-4 | 119700 | Industrial flow switch | 5.5 (2.5) |
| FS7-4D | 119750 | FS7-4 w/2 SPDT switches | 5.7 (2.6) |
| FS7-4DF | 119825 | FS7-4D for sprinkler service (UL listed) | 5.7 (2.6) |
| FS7-4DS | 119760 | FS7-4D w/Stainless steel | 5.7 (2.6) |
| FS7-4F | 119800 | FS7-4 for sprinkler service (UL listed) | 5.5 (2.5) |
| FS7-4F CAN | 119801 | FS7-4F ULC listed | 5.5 (2.5) |
| FS7-4J | 120060 | FS7-4 w/ BSPT threads | 5.5 (2.5) |
| FS7-4L | 119900 | FS7-4 w/extended paddle arm | 5.5 (2.5) |
| FS7-4LJ | 119980 | FS7-4L w/BSPT threads | 5.5 (2.5) |
| FS7-4S | 120160 | FS7-4 w/Stainless steel | 5.0 (2.3) |
| FS7-4SJ | 120171 | FS7-4S w/BSPT threads | 5.0 (2.3) |
| FS7-DSJ | 120174 | FS7-4S w/2 SPDT switches & BSPT threads | 5.0 (2.3) |

NOTE: DO NOT USE LIQUID FLOW SWITCHES ON SYSTEMS WITH FLOW GREATER THAN 10 FEET (3M) PER SECOND.