Industrial Flow Switch

Better materials lead to better performance. Originally developed for the fire protection industry, the materials of construction, operation and dependability of the Taco Industrial Flow Switch is superior to any other product on the market. It is overwhelmingly preferred by boiler manufacturers and comes with the industry's only 3 year warranty.





Application

The Taco Industrial Flow Switch (IFS) starts or stops electronically operated equipment when a flow or no flow condition occurs. The IFS can be used in I" to 8" liquid flow lines, carrying water or any nonhazardous fluid not harmful to brass, stainless steel or EPDM. It is used in a wide variety of applications including heating systems, domestic water boosters, process work, water systems, chillers and on low mass boilers.

Features

- 3 Year Warranty
- EPDM Seal Superior to Competitor's Mechanical Bellows
- Little Mechanical Wear or Fatigue
- Greater Flow Sensitivity and Wider Adjustment Range
- Higher Pressures, 250 PSI Standard
- 250°F Temperature Rating

- Stainless Steel Paddles & Trip Rods
- NEMA I and NEMA 4 Models
- Single or Double Switch Models
- High Current Models Available
- For Use on I" to 8" Diameter Pipe
- UL, CSA, CE Approved



Better Materials Lead to Better Performance

Listings/Approvals

- UL Guide (NKPZ) for industrial control equipment per UL Standard 508 Industrial Control Equipment
- UL Guide (MFHX) for heating/cooling appliance switch per UL Standard 353 Limit Controls
- CSA Class (321106) for industrial control equipment per CSA Standard C22.2 No. 14-M Industrial Control Equipment
- CE (Except IFSH1/H2)

Maximum Service Pressure

250 PSI

Enclosure

- Model IFS01/02/H1/H2: NEMA Type I (For indoor use only). Formed sheet metal with powdercoat finish.
- Model IFSWS/W2: NEMA Type 4 (For indoor or outdoor use). Die-cast housing and high impact resistant polycarbonate cover.

Switch Contacts

- IFS01/H1/WS: One SPDT (Form C) switch
- IFS02/H2/W2: Two sets of SPDT (Form C) switches to provide versatility in wiring two separate circuits
- IFS01/02/W2: 15 Amps at 125/250VAC, .5 Amps at 125VDC, .25 Amps at 250VDC
- IFSH1/H2: 22 Amps at 125/250VAC
- IFSWS: 10 Amps at 125/250VAC, .5 Amps at 125VDC, .25 Amps at 250VDC
- IFS01/02/W2 Motor Ratings : 120VAC, 1/8 HP, 3.8 AC F.L.A. 22.8 AC L.R.A; 240VAC, 1/4 HP, 2.9 AC F.L.A., 17.4 AC L.R.A
- IFSH1/H2 Motor Ratings : 120VAC, 1/2 HP, 9.8 AC FL.A. 58.8 AC L.R.A; 240VAC, 1 HP, 8.0 AC FL.A., 48.0 AC L.R.A
- IFSWS Motor Ratings: 120VAC, 1/3 HP, 7.2 AC F.L.A. 43.2 AC L.R.A; 230VAC, 1/3 HP, 3.6 AC F.L.A., 21.6 AC L.R.A

Pilot Duty Rating

- IFS01/02/H1/H2/W2: 125 VA, 120/240 VAC
- IFSWS: 332 VA, 120/240 VAC

Ambient Temperature Range

- IFS01/02/H1/H2/W2: 32°F 176°F (0°C 80°C)
- IFSWS: 32°F 151°F (0°C 66°C)

Media Temperature Range

- IFS01/02/H1/H2/W2: 32°F 250°F (0°C 121°C)
- IFSWS: -20°F 250°F (-29°C 121°C)

Pipe Connections

- I" NPT Brass on models IFSxxB
- I" NPT 316 Stainless Steel on models IFSxxS

Conduit Entrance

- IFS01/02/H1/H2:Two openings for 1/2" conduit
- IFSWS/W2: One opening for 1/2" conduit

Usage

• For pipe sizes I" - 8"

Caution

• This device is not intended for applications in explosive environments or hazardous locations

Dimensions

IFS01/02/H1/H2 Models







GPM Required to Actuate Switch

Specifications Typical Flow Rates-GPM Required to Actuate Switch (For vertical pipe installations)																							
												Pipe Size (inches)			1-1/4	1-1/2	2	2-1/2	3	4	5*	6	8*
												Minimum Adjustment	Flow Increase	4.5	4.5	6.0	7.5	13.5	18	35	50	70	210
Flow Decrease	3.5	3.5	5.0	5.5	9.5	13	25	40	60	190													
Maximum Adjustment	Flow Increase	9.5	10	13.5	20.0	29	50	70	120	180	410												
	Flow Decrease	7.0	8.5	10.5	18.5	26	45	65	105	160	380												

Notes:

 Typical flow rates for 1" to 1-1/2" pipe sizes are averages which may vary approximately ±1 GPM with the use of a bronze reducing tee.
Typical flow rates for 2" to 8" pipe sizes are averages which may vary

 Typical flow rates for 2" to 8" pipe sizes are averages which may vary approximately ±10% GPM with the use of a 1" weldolet.
(*) Flow rates for these sizes are calculated.

Ordering Information

IFS Ordering



Paddle Kit Only Ordering





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