



FLOW ACTUATED ELECTRICAL SWITCHES

**- IMPORTANT -
READ PRIOR TO INSTALLATION**



STARTING POINT - IMPORTANT - BEFORE REMOVING COVER - DISCONNECT CURRENT

1. Optimal installation will allow a straight run of pipe for 10 diameters upstream and 5 diameters downstream but the switch can be successfully installed in less than optimal conditions. The additional turbulence can be compensated for by careful selection of the return spring and/or perhaps a shorter paddle length.
2. Optimal installation is vertical (within 5°) on a horizontal pipe run. Switch can be mounted in any position rotational on the axis of the pipe. If vertical piping - adjust for gravity with spring tension (B). Keep in mind that mounting the switch in a horizontal position on a vertical line will effect the switches activation/deactivation capabilities.
3. Tee models install directly in the pipe run. Do not alter paddle.
4. Screwed models are to be installed with a weld-a-let, thread-a-let, or half coupling.
5. Cut paddle length to within approximately 1/2" clearance from the bottom of the pipe. Contour corners as necessary to insure no contact with pipe. The flexible paddle should always be within the run of pipe. If a riser is present, the 3/8" round stem should run the length of the riser before the point of paddle attachment.
6. Mount switch with conduit connection downstream (*pointing in the direction of flow*).



PEECO FLOW SWITCH

**MOUNT SWITCH WITH CONDUIT CONNECTION POINTING
DOWNSTREAM (point in the direction of flow).**

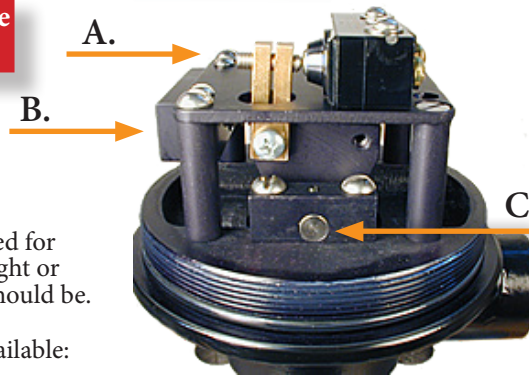
All PEECO switches require field setting unless calibration has been requested and provided. Switch adjustment should be made in the middle of the physical range of movement.

Adjustment (field setting) procedure:

- Disconnect current.
- Remove switch cover.
- Screw actuating rod (A) in or out to point at which micro switch clicks.
- Increase or decrease tension on return spring as necessary to overcome spring balance.
- All turns should be done carefully and in small steps.
- **Screw cover on tightly before re-connection current.**

Do not disassemble switch components before relieving pressure.

The flow switch is fitted with a color coded spring. Return springs (B) may be changed as needed for greater or lesser tension (higher or lower flows). Springs are color coded only as to varying weight or tension - not as to quantitative flow range. The lower the flow trip point, the softer the spring should be.



- A. - Micro Switch Adjusting Rod
- B. - Return Spring
- C. - Micro Ball Bearings

- CAUTION EXPOSED VANE MODELS -

Do not pick up flow switches by the paddle or stem. This may cause severe damage. Please pick up by body or flange only. Do not rest switch weight on paddle or stem. This may also cause sever damage.

There are seven springs available:

1. Brown (Softest)
2. Red
3. Orange
4. Yellow
5. Green
6. Blue
7. Purple (Stiffest)

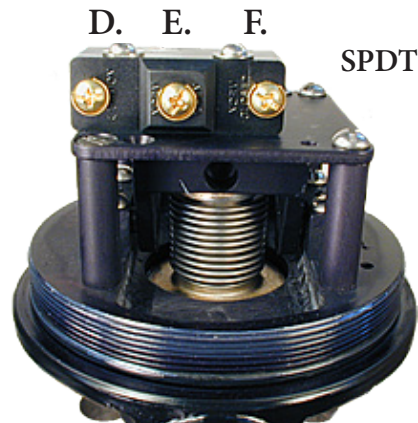
In the absence of any flow data from the customer, PEECO fits the red spring as a standard. (If the switch has too soft a spring, there is a possibility that a high flow trip point cannot be achieved. In addition, the switch can bounce on and off due to the turbulence created around the paddle at higher flow conditions).

To achieve a lower trip point, the red spring should be swapped out for the brown spring. Once this is done, the trip point screw should be adjusted so that the micro-switch just activates under a no-flow condition.

If the flow switch will still not activate with the low flow, a wider paddle (1-7/8") can be provided to increase the force produced on the switch at the lower flowrate. If you change to the wider paddle, you may have to adjust the trip point screw to offset for the additional weight of the larger paddle. The downside of doing this is that more pressure drop and turbulence is created at higher flow rates, which may lead to the bouncing effect.

Dashpot

Time delay of the pot can be adjusted by screwing in (shortening time) or out (lengthening time) the small orifice plug at rear of cylinder. Do not tamper with any other part of the dashpot.



- D. Common
- E. Normally Open
- F. Normally Closed

*It is a good practice to pot the leads where they emerge from the switch to seal the conduit at the junction box.

FINISHING POINT - IMPORTANT - BEFORE CONNECTING CURRENT, COVER MUST BE TIGHTLY CLOSED.

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Example of Standard Microswitch



Explosion Proof Cover

MODEL ET CUT-A-WAY

Adjustable Microswitch
Depressing Rod

Microswitch

Adjustable Spring

Platform

Saddle Assembly

Weather Proof
O'Ring Groove

Threaded Connection
Cover to Housing

Bellows Assembly

1/2" FNPT
Electrical Outlet

Shaft & Bearings
Explosion Proof Housing

Paddle Shaft

Stem & Paddle

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FLOW ACTUATED ELECTRICAL SWITCHES

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Explosion Proof Cover

Adjustable Microswitch
Depressing Rod

Adjustable Spring

Weather Proof
O'Ring Groove

Flexure Tube

BELLOWLESS MODEL

Example of Standard Microswitch



Microswitch

Platform

Saddle Assembly

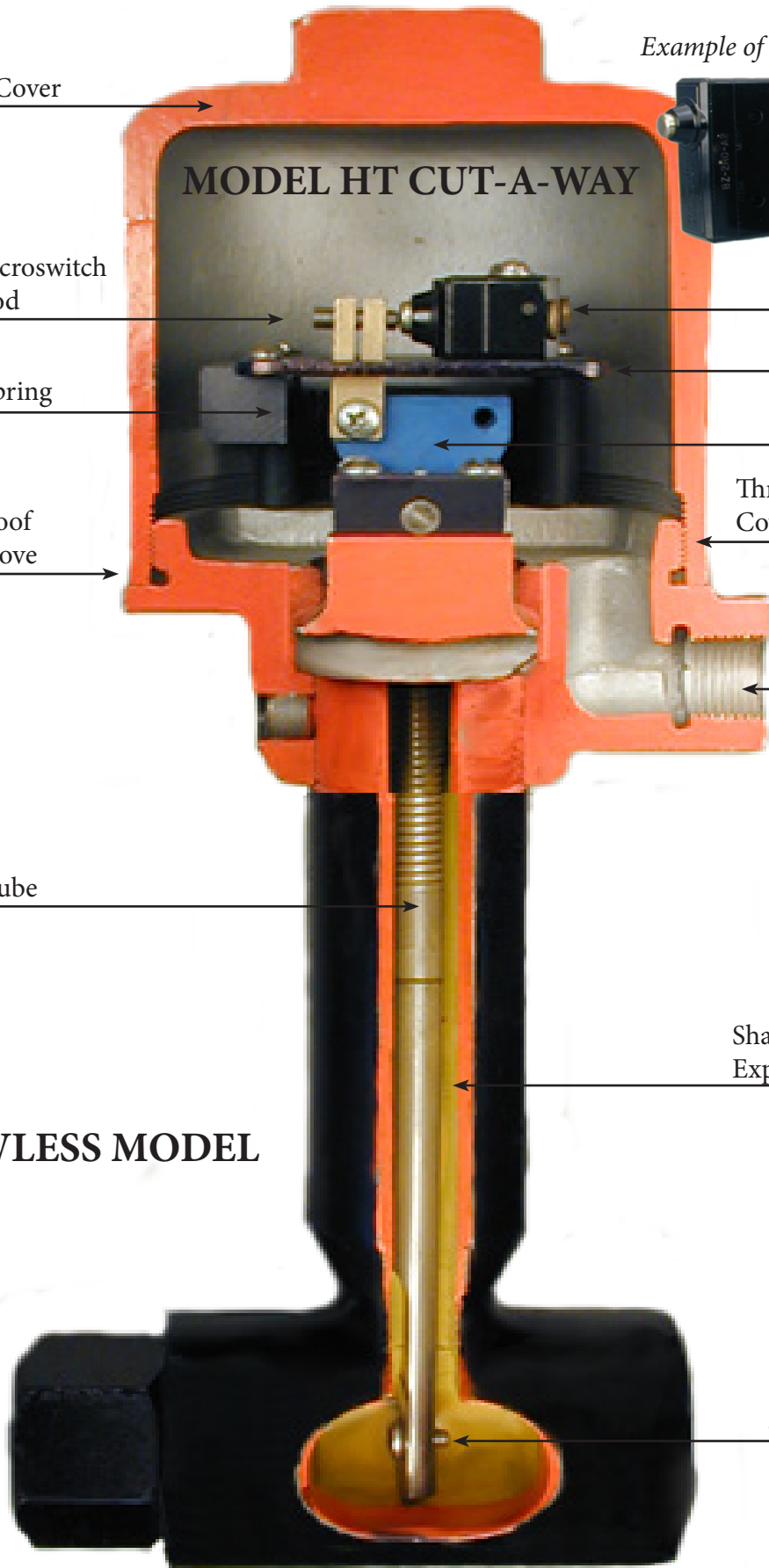
Threaded Connection
Cover to Housing

1/2" FNPT
Electrical Outlet

Shaft & Bearings
Explosion Proof Housing

Stem & Paddle

MODEL HT CUT-A-WAY



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