

Description:

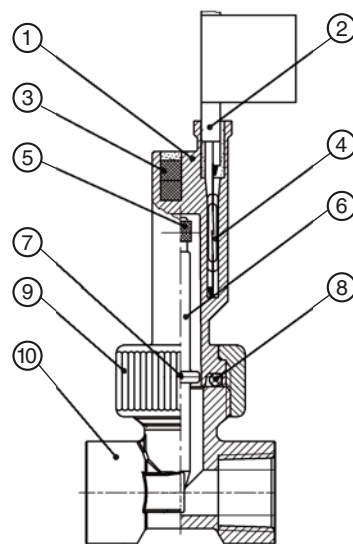
The flow switch consists of a paddle system which has a permanent magnet ⑤ located at its upper end. A reed contact ④ is positioned outside the flow by this magnet. A second magnet ③ is used to create a reset force.

When flow exceeds 0.5 US gpm, the magnet ⑤ changes its position in relation to the reed contact. The contact closes.

When the flow drops below 0.5 US gpm, the paddle returns to its original position and the reed contact opens.

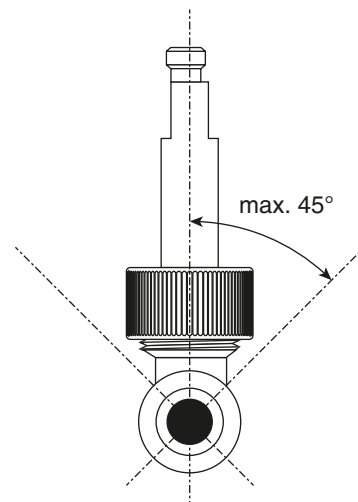
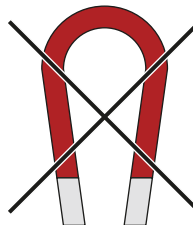
Components

- ① Body
- ② Connecting cable
- ③ Resetting magnet
- ④ Reed contact
- ⑤ Switching magnet
- ⑥ Paddle system
- ⑦ Axis
- ⑧ O-ring
- ⑨ Knurled union nut
- ⑩ Pipe section



Installation Notes:

- Makes sure the cable to the flow switch isn't under tension.
- Clean the pipe system in which the flow switch is to be installed and remove any magnetic particles, e.g. welding residue.
- The straight in- and outlet pipe (in front of and behind the flow switch) has to be at least 2-½" (65 mm).
- The flow switch should be installed in an "upright standing position" in horizontal pipework.
- The switch should only be installed in a vertical position, deviation max. 45°.
- Make sure that there are no external magnetic fields or large ferromagnetic bodies in the immediate vicinity of the flow switch, since these can impair device functioning.
- Screw on the union plastic nut with a maximum torque of 8 Nm.
- To prevent overheating when soldering near the flow switch, the flow switch (body with paddle system) and the o-ring must be removed from the pipe section.



Technical Data

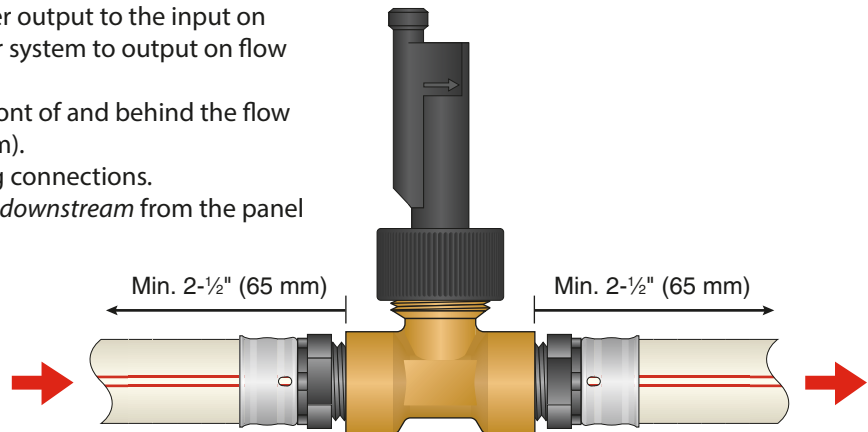
Material:

Body:	PPO (NORYL GFN3)
Paddle System:	PPO (NORYL GFN3)
Axis:	Stainless Steel 1.4571
O-ring ID 14x4:	EPDM
Magnet:	Hard ferrite
Pipe Section:	Brass CW617N
Switch Point:	0.53 ± 0.13 US gpm (2 L/min ± 0.5 L/min)
Switching Function:	Contact closes at increasing flow
Ambient Temperature:	39 to 158°F (4 to 70°C)
Max. Water Temperature:	212°F (100°C) (should never freeze)
Max. Pressure:	145 psi (10 bar)
Max. Switching Current:	1 A
Max. Switching Voltage:	max. 230 Vac / 48 Vdc (protection class II)
Max. Switching Capacity:	26VA, 20W
Degree of protection:	IP65
Pollution Degree (EN 60730-1)	4
Rated Impulse Voltage (EN 60730-1)	4 kV
Cable Length:	70" (1.8 m)
DHW Priority Switch Connection:	½" FNPT

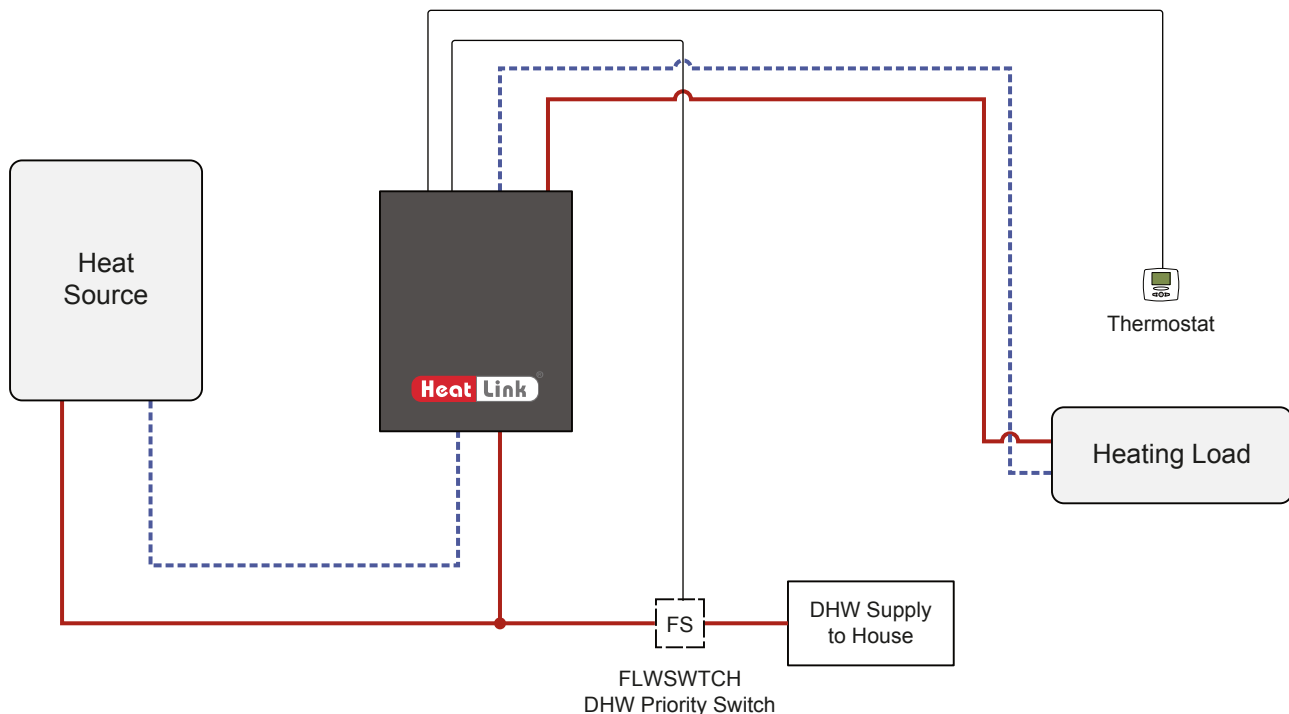
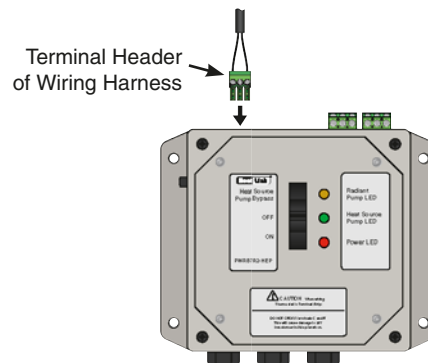
Compatible Panels:

- HEP025P
- HEP080P
- HEP095P
- TWH070P
- TWH070XP
- WHP130P

- Step 1** DHW connectors are ½" FNPT. Using appropriate thread sealant and fittings, connect the water heater output to the input on the flow switch; and house hot water system to output on flow switch.
- The straight in- and outlet pipe (in front of and behind the flow switch) has to be at least 2-½" (65 mm).
- Observe flow direction when making connections.
- Be sure to connect the DHW priority *downstream* from the panel (see schematic below).



- Step 2** Turn the panel off. Plug the terminal header of the wiring harness into the DHW priority contacts of the power box.



- Notes:
- A) Heat sources rated as DHW cannot be used for heating only. Check local codes regarding dual use (DHW / space heating) water heaters.
 - B) Some jurisdictions require double wall heat exchangers between system water and the potable water. This panel does not comply with the requirements for double wall heat exchangers.
 - C) This drawing is for illustrative purposes only. It is not intended to be used as a wiring or piping diagram.
- Not all required components are shown. Local codes, regulations, and authorities have final jurisdiction.**