

# CLARK

## Series 1800 PVC Flow Switches

1" Pipe Size

### DESCRIPTION

Series 1800 flow switches are manufactured to exacting standards and provide accurate flow detection for most applications. Product inspection involves calibrated tools and gages traceable to National Bureau of Standards.

Switch function involves magnet equipped PVC shuttle that is displaced at the proper calibrated flow of liquid to actuate the hermetically sealed reed switch.

The flow switches are broadly used as OEM components, in water & waste facilities, irrigation, HVAC equipment and any process where the materials of construction and function are suitable.

### SPECIFICATIONS

#### Wetted Materials

**End Connections:** 1" Slip

**Housing Material:** PVC

**Piston Material:** PVC; CPVC available, consult us

**Magnet:** Ceramic Ring Magnet

**Spring:** 316 SS

**O-Ring:** Viton "A"

**Wiring:** 18 AWG Polymeric 24" Long; with or without 1/2" NPT conduit connection spud (see model table)

**Reed Switch:** 20 VA SPST, **N.O.**; SPDT available option

**Max Flow:** 7 GPM

**Operating Temperature:** -20 to 140°F

**Operating Pressure:** 150 PSI

**Set Point Accuracy:** ±20% Max

**Set Point Difference:** ±20% Max

#### Notes:

-Standard flow calibration is in water@70°F. Calibrated on increasing flow with lead wires up.

-Flow setpoints available to 6 GPM, consult us

-Use only plastic junction box & flexible conduit if using the 1/2" NPT conduit spud.

### ORDERING INFORMATION

Model	Flow Setting	1/2" NPT Conduit Spud
1800-42549	0.5 GPM	No
1800-42545	1.0 GPM	No
1800-42570	0.5 GPM	Yes
1800-42571	1.0 GPM	Yes

PVC Adapter Fittings	
Model	Description
1800-42751	1" Slip to 3/4" Slip
1800-42752	1" Slip to 1/2" Slip
1800-42753	1" Slip to 3/4" NPT
1800-42754	1" Slip to 1/2" NPT



#### Model 1800 With & Without 1/2" NPT Conduit Connection

1. Solid one-piece removable bonnet provides safe use to 150 PSI
2. Switch design utilizes a stainless return spring to mount in any attitude
3. **Anti-meniscus** projections on shuttle prevents from drying in place after long machine shutdowns

### DIMENSIONS

