

# SENTRY Acetal-Body Water Pressure Regulators

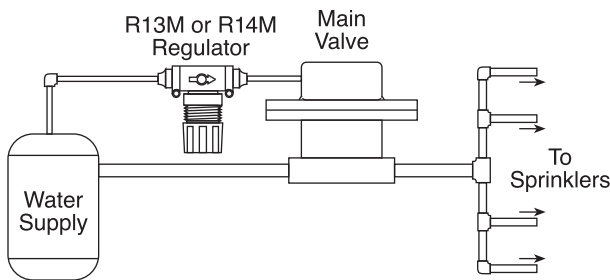
Also see brass-body water pressure regulators on pages 156-157.

# R13M, R14M Models Port Sizes: 1/8, 1/4; Tube Fittings



Model Shown: R13M-M10

## TYPICAL APPLICATION IN AN IRRIGATION SYSTEM



## SPECIFICATIONS

**Ambient/Media Temperature:**

35° to 125°F (1.7° to 52°C).

**Body:** Acetal.

**Dome and Knob:** Acetal.

**Fluid Media:** Water.

**Inlet Pressure:** 150 psig (10 bar) maximum.

**Main Spring:** Stainless Steel.

**Outlet Pressure:** Adjustable up to 100 psig (7 bar); locking adjustment cap.

**Panel Mounting:** 1-3/16 inch (30 mm) hole required.

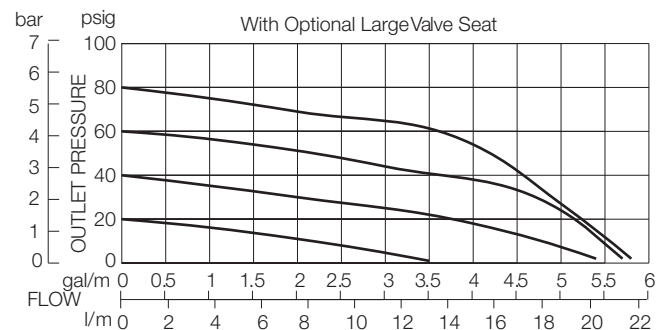
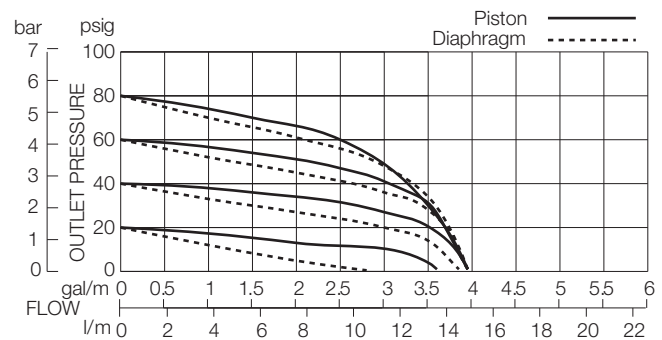
**Pressure Gauge:** Optional (0-160 psig).

**Seals:** Nitrile.

- ◆ Designed to set pilot pressure of the water for the main valve in a sprinkler system. See diagram below.
- ◆ Piston-type design (R13M models) or diaphragm-type (R14M models).
- ◆ Non-relieving.
- ◆ Corrosion-resistant construction.
- ◆ Optional large valve seat for water flows up to six gallons per minute.
- ◆ Threaded ports or quick-connect fittings for tubing up to 10 mm in diameter.
- ◆ **NPTF** port threads; optional **BSPB** threads.

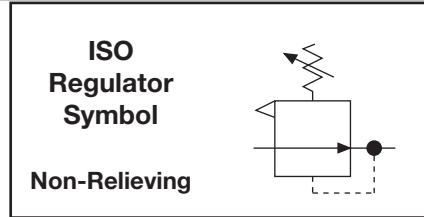
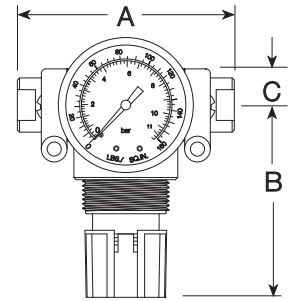
## WATER FLOW CHARTS

Inlet Pressure: 100 psig (7 bar)



## DIMENSIONS inches (mm)

Ports	A	B	C	Depth	Weight lb (kg)
1/8, 1/4	3.0 (76)	2.6 (67)	0.5 (13)	1.8 (45)	0.43 (0.19)
Models below have quick-connect fittings for tubing.					
1/4	3.4 (86)	2.6 (67)	0.5 (13)	1.8 (45)	0.21 (0.09)
3/8	3.9 (99)	2.6 (67)	0.5 (13)	1.8 (45)	0.21 (0.09)
4 mm	3.4 (86)	2.6 (67)	0.5 (13)	1.8 (45)	0.41 (0.18)
6 mm	3.4 (86)	2.6 (67)	0.5 (13)	1.8 (45)	0.41 (0.18)
8 mm	3.4 (86)	2.6 (67)	0.5 (13)	1.8 (45)	0.41 (0.18)
10 mm	3.9 (99)	2.6 (67)	0.5 (13)	1.8 (45)	0.41 (0.18)



## ORDERING INFORMATION

Change the letters in the sample model number below to specify the regulator you want.

# R13M P - 2 X A L Y W

### REGULATOR TYPE

Piston type .....R13M  
Diaphragm type.....R14M

### MOUNTING HOLE LOCATION

Bottom mount (Standard) ..... Leave Blank  
Top mount ..... P

### INLET PORT SIZE

No Inlet and Outlet Ports .... Leave Blank

#### Threaded:

1/8 NPTF ..... 1  
1/4 NPTF ..... 2

#### Fittings for Tubing:

1/4 ..... 04  
3/8 ..... 06  
4 mm ..... M4  
6 mm ..... M6  
8 mm ..... M8  
10 mm ..... M10

### OUTLET PORT SIZE

Same as inlet port ..... Leave Blank

#### Threaded:

1/8 NPTF ..... 1  
1/4 NPTF ..... 2

#### Fittings for Tubing:

1/4 ..... 04  
3/8 ..... 06  
4 mm ..... M4  
6 mm ..... M6  
8 mm ..... M8  
10 mm ..... M10

### MOUNTING BRACKETS

See page 346.

### PORT TYPE

As specified in **INLET PORT** ... Leave Blank  
BSP threads on both ports..... W

### OPTIONS (More than one option can be chosen. Add in alphabetical order)

None ..... Leave Blank  
0-160 psig Gauge ..... G  
Plastic nut ..... P  
Hex plastic nut..... PE  
Metal Panel Mount Nut ..... PN

### OPTIONS (More than one option can be chosen. Add in alphabetical order)

None. .... Leave Blank  
Large Delrin valve seat..... C1  
Springs: (0-100 psig standard)  
For optimum performance operating pressure should fall approximately in the middle of the spring range.  
0-125 psig (0-8.6 bar) ..... H  
0-50 psig (0-3.4 bar) ..... L  
0-30 psig (0-2.1 bar) ..... L30  
Rear gauge port only ..... R