

Type 122R Switching Valves



Figure 1. Type 122R Switching Valve

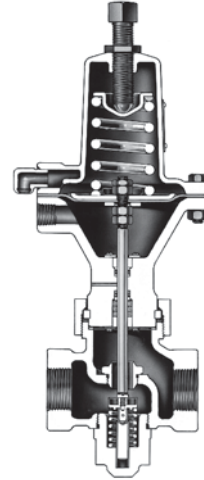


Figure 2. Type 122R Switching Valve Sectional

Introduction

Type 122R valves are economical switching valves for on-off control of liquids and gases. The Type 122R valve has push-down-to-open action. Six spring ranges are available for control pressure from 3 to 150 psig (0,2 to 10,3 bar).

Features

- **Convenient Installation**—Compact construction permits easy handling and installation.
- **Easy Leak Detection**—Vent hole between body and actuator stem seals allows rapid detection of body or actuator leakage.
- **Easy Maintenance**—These valves can be completely disassembled without removing the valve from the line.

Installation

Type 122R valves may be installed in any position. Be certain the spring case bent opening is pointed down and is protected against the entrance of moisture and any other material that may plug the vent. Dimensions are shown in figure 3.

Ordering Information

Refer to the Specifications table on page 2. Review the description to the right of each specification and in the referenced tables; specify the desired choice wherever there is a selection to be made. Also, be sure to specify the desired setpoint.

Specifications

Body Size and End Connection Style

3/4, 1, or 1-1/4-inch (DN 20, 25, or 32) NPT

Maximum Inlet Pressure⁽¹⁾

150 psig (10,3 bar)

Maximum Control Pressure to Diaphragm⁽¹⁾

150 psig (10,3 bar)

Spring Ranges

See table 1

Maximum Temperature Capabilities⁽¹⁾

-20° to 150°F (-29° to 66°C)

Port Diameter

7/16-inch (11,1 mm)

Flow Coefficients

$C_v = 2.85$, $C_g = 92.7$, $C_1 = 32.5$

Control Connection

1/4-inch NPT

Spring Case Vent

1/4-inch NPT female with screen

Approximate Weight

5 pounds (2,3 kg)

Construction Materials

Valve Body: Cast iron

Spring Case: Aluminum

Lower Diaphragm Case: Cast iron

Disk and Disk Holder Assembly: Nitrile (NBR) and brass or Nitrile (NBR) and stainless steel

Seat Ring: Aluminum, Stainless steel, or Brass

Diaphragm: Neoprene

Gasket: Composition

O-Rings: Nitrile

Stem Washers: Neoprene and felt

Main Spring: Plated steel

Body Cap: Cast iron

Valve Spring: Plated steel

1. The pressure/temperature limits in this bulletin or any applicable standard limitation should not be exceeded.

Table 1. Spring Selection

SPRING RANGE, PSIG (bar)	SPRING PART NUMBER	SPRING COLOR CODE
3 to 15 (0,2 to 1,0)	1D892327022	Red
5 to 20 (0,3 to 1,4)	1D751527022	Silver
5 to 35 (0,3 to 2,4)	1D665927022	Blue
30 to 60 (2,1 to 4,1)	1D745527142	Green
40 to 100 (2,8 to 6,9)	1E543627142	Yellow
60 to 150 (4,1 to 10,3)	1R901327022	Brown

BODY SIZE, INCHES	DIMENSIONS, INCHES (mm)		
	A	D	G
3/4 and 1	3.62 (92)	2.19 (56)	2.06 (52)
1-1/4	4.25 (108)	2.38 (60)	2.28 (58)

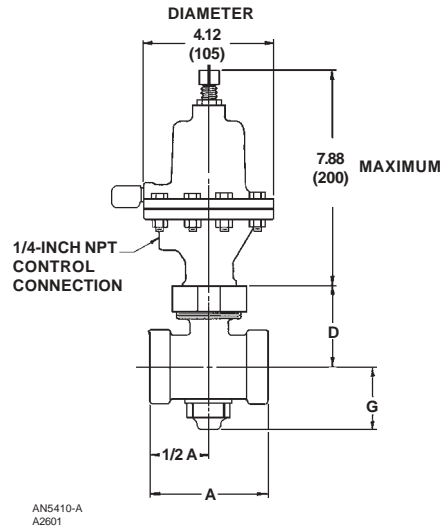


Figure 3. Dimensions

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