

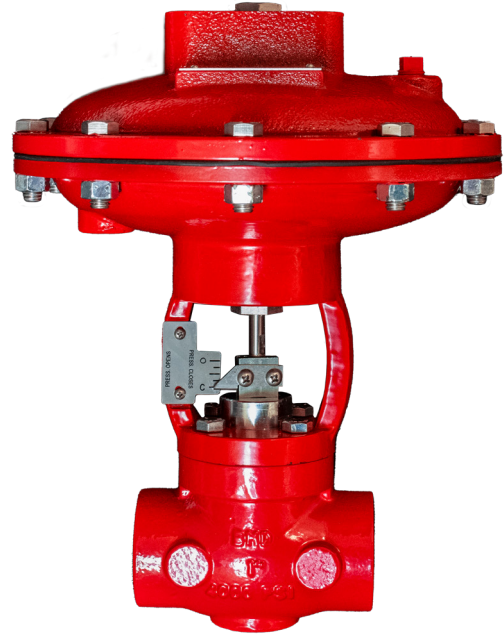
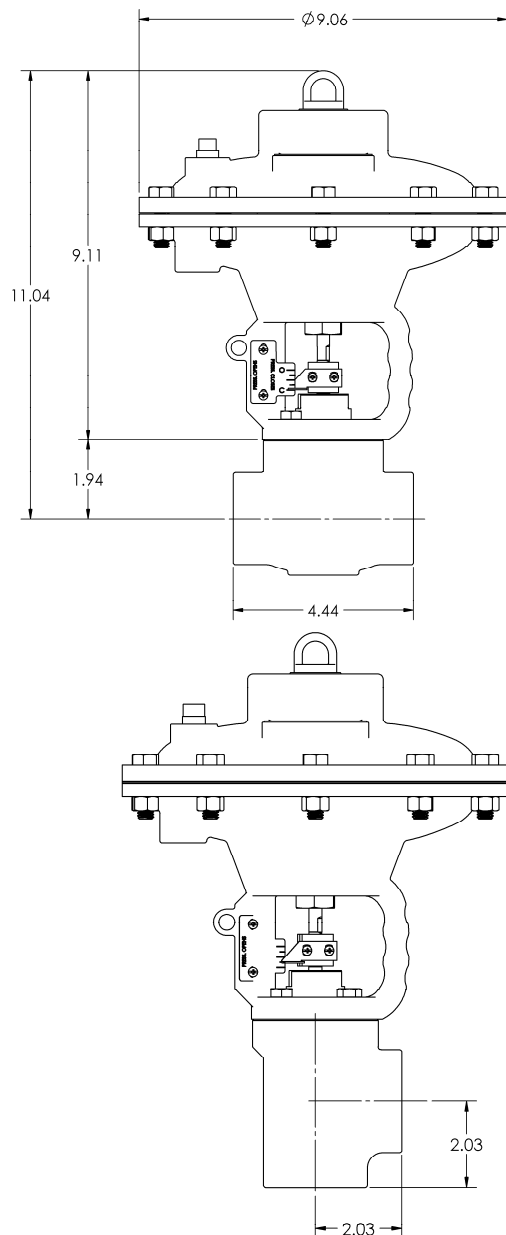
# Control Valve

## CV14 Model

The CV14 is a rugged, compact control valve featuring a 1" body and field reversible actuator. Typical installations include separators, scrubbers, treaters and other production vessels.

The CV14 makes maintenance easy by allowing the topworks to be removed without taking the valve out of line. Its hardened trim is available in a variety of sizes.

### Dimensions (inches)



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### Specifications

**Connection:** 1" female NPT

**Body Type:** Globe, angle

**Trim Characteristic:** Equal percent, linear, quick open

**Trim Size:** 0.125" (1/8), 0.188" (3/16), 0.25" (1/4), 0.375" (3/8), 0.50" (1/2)

**Stem Travel:** .50" (1/2)

**Pressure Rating:** 4000 psi

**Temperature Range:** -20° F to 400° F (-29° C to 204° C)

**Shutoff:** ANSI Class IV

**Actuator Size:** No. 30 (30 in² area)

**Input Signal Range:** 2-10 psi, 4 - 20 psi

**Materials:**

**Body:** A352 LLC steel

**Packing Plug:** A105 steel zinc plated

**Trim:**

**Standard:** 440C stainless / D2 tool steel seat

**Corrosive:** 316 stainless / 304 stainless seat

**Erosive:** Carbide / carbide seat

**Stem:** 304 stainless

**Actuator Housing:** Ductile iron

**Approximate Weight:** 27 lbs

### Cv Values

Cv Values at 100% Open					
Trim Type					
Linear		Equal Percent		Quick Open	
Trim Size	Cv	Trim Size	Cv	Trim Size	Cv
0.125	1.1	0.125	0.34	0.188	0.92
0.188	1.5	0.25	1.99	0.25	1.74
0.25	2.17	0.50	6.49	0.375	3.86
0.375	3.2			0.50	5.93
0.50	5.7				

## Maximum Shut-Off Pressures

### Reverse-Acting Actuators (Fail Closed)

Maximum Shut-Off Pressures for Reverse-Acting (Fail Closed) Actuators								
Trim Size (in)	Flowing Down				Flowing Down			
	20 psi Spring				10 psi Spring			
	15 psi	20 psi	25 psi	30 psi	10 psi	15 psi	20 psi	25 psi
0.125	4000	4000	4000	4000	4000	4000	4000	4000
0.188	4000	4000	4000	4000	4000	4000	4000	4000
0.25	4000	4000	4000	4000	4000	4000	4000	4000
0.375	2983	4000	4000	4000	2804	4000	4000	4000
0.5	1549	2656	3763	4000	1456	2563	3671	4000

### Direct-Acting Actuators (Fail Open)

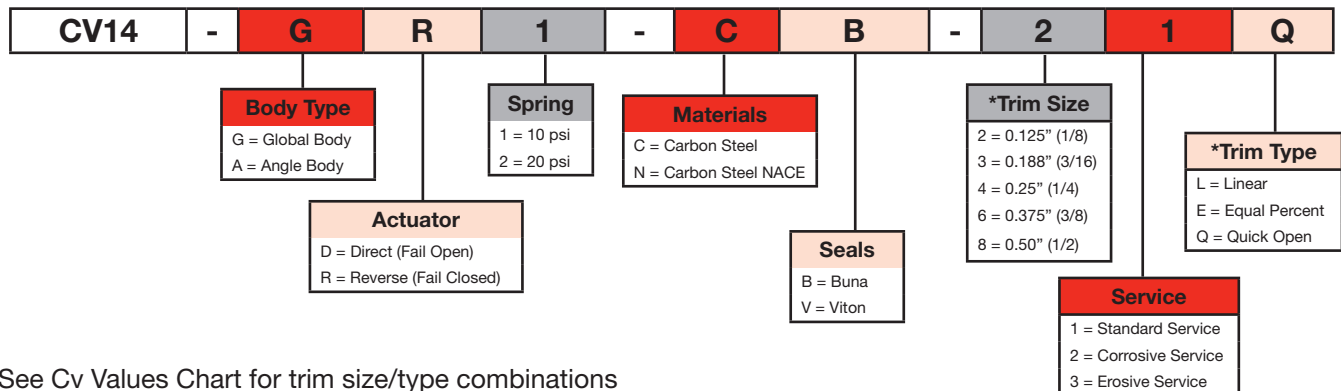
Maximum Shut-Off Pressures for Direct-Acting (Fail Open) Actuators		
Trim Size (in)	Flowing Down	
	20 psi Spring	10 psi Spring
0.125	4000	4000
0.188	4000	4000
0.25	4000	4000
0.375	4000	3425
0.5	4161	1779

## How to Order

Options are listed below. All configurations may not be available. Call your sales representative or FW Murphy for more information. Repair kits are available.

### Example Model No. **CV14-GR1-CB-21Q**

CV14 Series Control Valve, Globe Body, Reverse Acting, 10 psi Spring, Carbon Steel with Buna Seals, 0.125" Trim, Standard Service and Quick Open Trim



\*See Cv Values Chart for trim size/type combinations

FW Murphy is the exclusive BMD distributor for new equipment packages.