

CV14 Control Valve

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. The CV24 trim is available in a variety of sizes and materials depending on service conditions.

Specifications

Connection: 1" Female NPT

Body Type: Globe, Angle

Trim Characteristic: Equal Percent, Linear, Quick Open (Carbide)

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

Stem Travel: 0.50"

Pressure Rating: Up to 4000 psi

Temperature Range: -40° F to 400° F (-40° C to 204° C)

Shutoff: ANSI Class IV

Actuator Size: No. 30 (30 in² area)

Input Signal: 10 psi, 20 psi, 30 psi

Materials:

Body: A352 LCC Steel

Trim:

Standard: 440C Stainless / D2 Tool Steel Seat

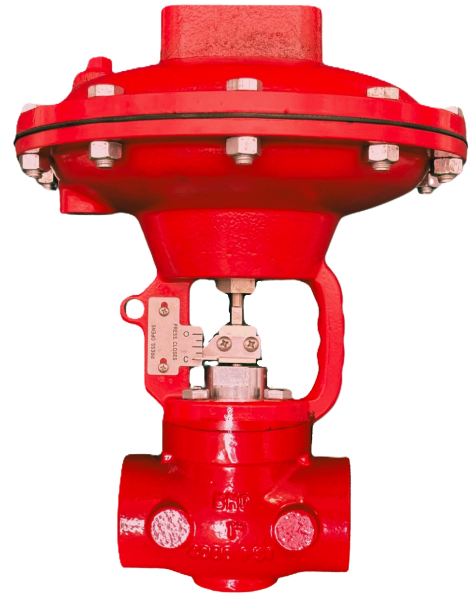
Corrosive: 316 Stainless / 304 Stainless Seat

Erosive: Carbide/Carbide Seat

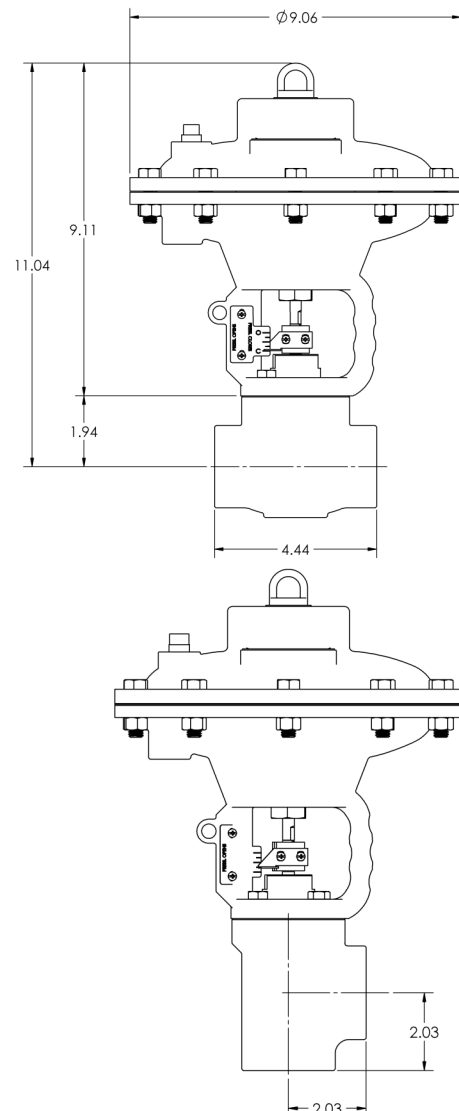
Stem: 304 Stainless

Actuator Housing: Ductile Iron

Approximate Weight: 27 lbs.



Dimensions



Cv Values

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

Shut-Off Pressures

Maximum Shut-Off Pressures For Reverse Acting (Fail Closed) Actuators

Trim Size (in.)	Flowing Down									
	10 psi spring				20 psi spring			30 psi spring		
	10 psi	15 psi	20 psi	25 psi	20 psi	25 psi	30 psi	30 psi	35 psi	40 psi
0.125	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000
0.188	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000
0.25	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000
0.375	2804	4000	4000	4000	4000	4000	4000	4000	4000	4000
0.5	1456	2563	3671	4000	2656	3763	4000	3754	4000	4000

Maximum Shut-Off Pressures For Direct Acting (Fail Open) Actuators

Trim Size (in.)	Flowing Down		
	10 psi spring	20 psi spring	30 psi spring
0.125	4000	4000	4000
0.188	4000	4000	4000
0.25	4000	4000	4000
0.375	3425	4000	4000
0.5	1779	4000	4000

How to Order

Example Model No. **CV14-GN50R1-CB-21L**

CV14 Series Control Valve, Globe Body, NPT, 2000 psi, Reverse Acting, 10 psi Spring, Carbon Steel with Buna Seals, 0.125" Trim, Standard Service, with Linear Trim

Body		
G - Globe	A - Angle	
Connection		
N - NPT (female)	F - RFF	
Class		
50 - NPT (4000 psi)	10 - 150	30 - 300
60 - 600	15 - 900/1500	
Actuator		
D - Direct (Fail Open)	R - Reverse (Fail Close)	
Spring		
1 - 10 psi	2 - 20 psi	3 - 30 psi
Materials		
C - Carbon Steel	N - Carbon Steel NACE	L - Low Temp Carbon Steel
Seals		
B - Buna	V - Viton®	L - Low Temp HNBR
Trim Size		
2 - 0.125"	3 - 0.188"	4 - 0.25"
6 - 0.375"	8 - 0.50"	
Service		
1 - Standard Service	2 - Corrosive Service	3 - Erosive Service (Carbide)
Trim Type		
L - Linear	E - Equal Percent	Q - Quick Open (Carbide)

CV14 - G N 50 R 1 - C B - 2 1 L

*See Cv Values Chart for trim size/type combinations

Repair Kits Available

Beaumont Manufacturing

 and Distribution Company
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