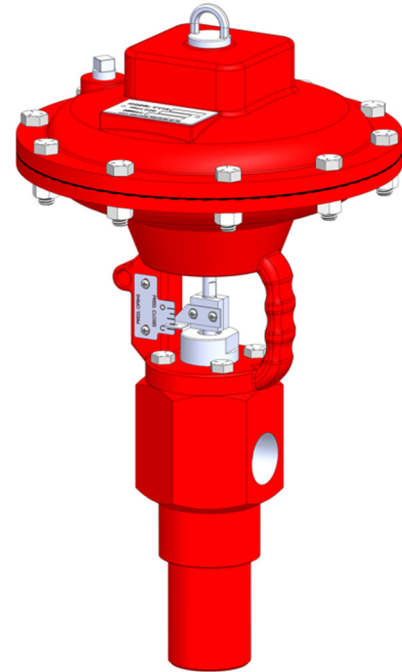


## CV16 Control Valve

The CV16 is a rugged, compact, freezeless dump valve. The body can be installed so that the valve trim are submerged into the process media giving the valve its freezeless characteristic. The body of the CV16 is features a field reversible actuator. Typical installations include separators, scrubbers, and other production vessels.

The CV16 offers the versatility of multiple trim sizes and soft goods available.



## Specifications

### Connections:

2" Male NPT x 1" Female NPT

**Body Type:** Freezeless Angle Body Design

**Trim Characteristic:** Quick Open, Linear

**Trim Size:** 0.25", 0.375" (3/8"), 0.50"

**Pressure Rating:** 4000 psi

**Temperature Range:**

-20° F to 200° F (-29° C to 93° C) Standard

**Shutoff:** ANSI Class IV

**Actuator Sizes:** No. 30 (30 in<sup>2</sup> area)

**Input Signal:** 10 psi, 20 psi

### Materials:

**Body:** A352 LCC Steel,

**Packing Plug:** A105 Steel Zinc Plated

### Trim:

**Standard:** 440C Stainless / D2 Tool Steel Seat

**Corrosive:** 316 Stainless / 304 Stainless Seat

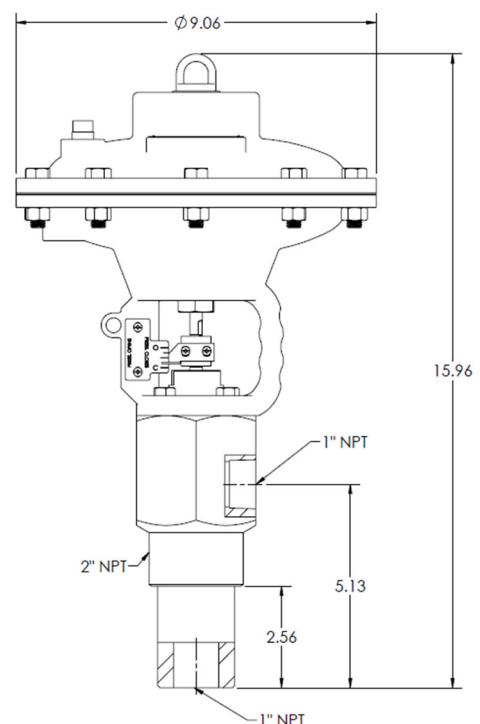
**Erosive:** Carbide/Carbide Seat

**Stem:** 304 Stainless

**Actuator Housing:** Ductile Iron

**Approximate Weight:** 33lbs

## Dimensions



## Cv Values

Cv Values at 100% open		
Trim Type	Trim size	Cv
Linear	0.25	2.17
	0.375	3.2
	0.5	5.7
Quick Open	0.25	1.74
	0.375	3.86
	0.5	5.93

# Shut-Off Pressures

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

Flowing up - Direct Actuator					
10 psi spring			20 psi spring		
10 psi signal	15 psi signal	25 psi signal	20 psi signal	25 psi signal	35 psi signal
18	2454	7326	387	2823	7695
	895	2933	31	1050	3087
	569	1982		676	2089

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

Flowing up - Reverse Actuator		
Trim Size (in.)	10 psi spring	20 psi spring
.125 & .25	1096	3328
0.375	328	1261
0.5	176	823

## How to Order

Example Model No. **CV16-R1-CB-61L**

CV16 Series Dump Valve, Reverse Acting, 10 psi Spring, Carbon Steel with Buna Seals, 0.375", Standard Service, Linear Trim

**CV16 - R 1-C B - 6 1 L**

<b>Actuator</b>		
<b>D</b> - Direct (Fail Open)	<b>R</b> - Reverse (Fail Close)	
<b>Spring</b>		
<b>1</b> - 10 psi	<b>2</b> - 20 psi	
<b>Materials</b>		
<b>C</b> - Carbon Steel	<b>N</b> - Carbon Steel (NACE)	
<b>Seals</b>		
<b>B</b> - Buna	<b>V</b> - Viton®	
<b>Trim Size</b>		
<b>4</b> - 0.25"	<b>6</b> - 0.375"	<b>8</b> - 0.50"
<b>Service</b>		
<b>1</b> - Standard Service	<b>2</b> - Corrosive Service	<b>3</b> - Erosive Service
<b>Trim Type</b>		
<b>L</b> - Linear	<b>Q</b> - Quick Open	

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

Repair Kits Available

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