

CV24 Control Valve with Capture Energy's Eco Piston™

BMD has partnered with Capture Energy to exclusively offer the new Patent Pending ECO Piston. The CV24 with ECO Piston is a completely emissions-free control valve designed to help companies comply with OOOOb/c emissions regulations. The ECO Piston operates by utilizing high-pressure input from onsite production equipment to actuate the valve, directing the exhaust back into a lower-pressure system. For example, it can take high pressure from a compressor and route the exhaust to the compressor's suction side or connect to a high-pressure separator and to another lower pressure separator.

The CV24 with ECO Piston features a 2" body, BMD's ISO 15848 certified Patent Pending Packing and offers a range of trim sizes and materials. Maintenance is straightforward, allowing service or trim adjustments without removing the valve body from the line. The ECO Piston includes a high-cycle, maintenance-free piston actuator paired with an electric solenoid valve, which is rated for Class I, Div 1 hazardous locations and comes in 6VDC, 12VDC, or 24VDC options.



Patent Pending

Specifications

Connection: 2" Female NPT

Body Type: Globe, Angle

Trim Characteristic: Equal Percent, Linear, Quick Open

Trim Size: 0.25" (1/4), 0.375" (3/8"), 0.438 (7/16), 0.625 (5/8), 0.50" (1/2), 0.75" (3/4), 0.875 (7/8), 1.0", 1.5"

Stem Travel: 0.75"

Pressure Rating: 6000 psi, 4000 psi, 2000 psi

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

Shutoff: ANSI Class IV

Input Voltage: 24VDC, 12VDC, or 6VDC

Actuator Max pressure: 2000 psi

Actuator Maximum Differential: 250 psi

Actuator Minimum Differential: 40 psi

Haz. Loc. Rating: Class 1, Div 1

Materials:

Body: A352 LCC Steel

Packing Plug: A105 Steel Nickel Plated

Trim:

Standard: 440C Stainless / D2 Tool Steel Seat

Corrosive: 316 Stainless / 304 Stainless Seat

Erosive: Carbide/Carbide Seat

Stem: 304 Stainless

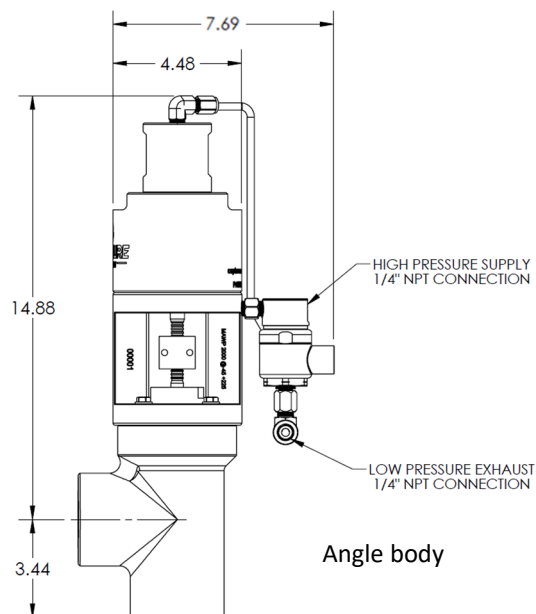
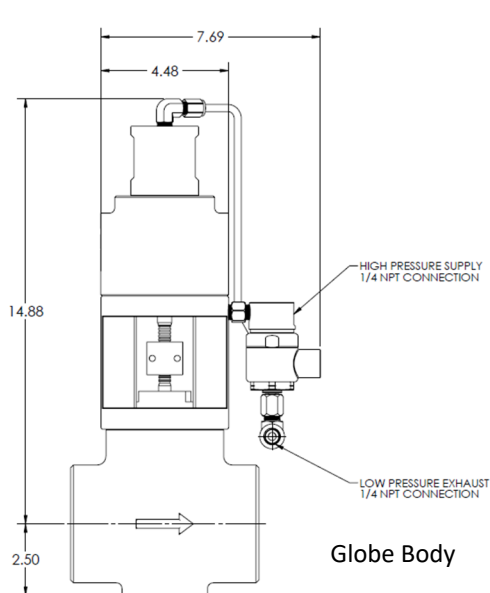
Approximate Weight: 41 lbs.

Cv Values

Cv Values at 100% Open		
Trim Type	Trim size	Cv
Linear	0.25	3
	0.375	4
	0.5	7.2
	0.75	12
	1	21
Equal Percent	0.25	1.72
	0.438	5.4
	0.63	10.8
	0.88	17
Quick Open (Carbide)	0.25	1.87
	0.375	3.84
	0.5	6.63
	0.75	10.9
	1	15.8
	*1.5	29.8

*CV24F 1.5" trim only available in SST

Dimensions



How to Order

Example Model No. **CV24-G4DQ-CB-041L**

CV24 Eco Series Control Valve, 4000 PSI, Globe Body, Direct Actuator, 12 Volt, Carbon Steel with Buna Seals, 0.25" Trim, Standard Service, with Linear Trim

Style
CV24 CV24F ^{1 2}

CV24 - G4 D Q- C B - 041 L

Body		
G - Globe	A - Angle	
Class		
2 - 2000 psi	4 - 4000 psi	6 - 6000 psi
Actuator		
D - Direct (Fail Open)	R - Reverse (Fail Close)	
Voltage		
P - 24V	Q - 12V	R - 6V
Materials		
C - Carbon Steel	N - Carbon Steel NACE	
Seals		
B - Buna	V - Viton®	
Trim Size*²		
04 - 0.25"	06 - 0.375"	07 - 0.438"
08 - 0.50"	10 - 0.625"	12 - 0.75"
14 - 0.875"	16 - 1.0"	24 - 1.5" ²
Service		
1 - Standard Service	2 - Corrosive Service	3 - Erosive Service
Trim Type		
L - Linear	E - Equal Percent	Q - Quick Open

- *See Cv Values Chart for trim size/type combinations
- ¹ Only available with 1.5" QO SST trim
- ² 1.5" trim limited to 300 psi
- Repair kits available

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