

CV14 Control Valve with Capture Energy's Eco Piston™

BMD has partnered with Capture Energy to exclusively offer the new Patent Pending ECO Piston. The CV14 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 CV14 with ECO Piston features a 1" 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 I locations and comes in 6VDC, 12VDC, or 24VDC options.



Patent Pending

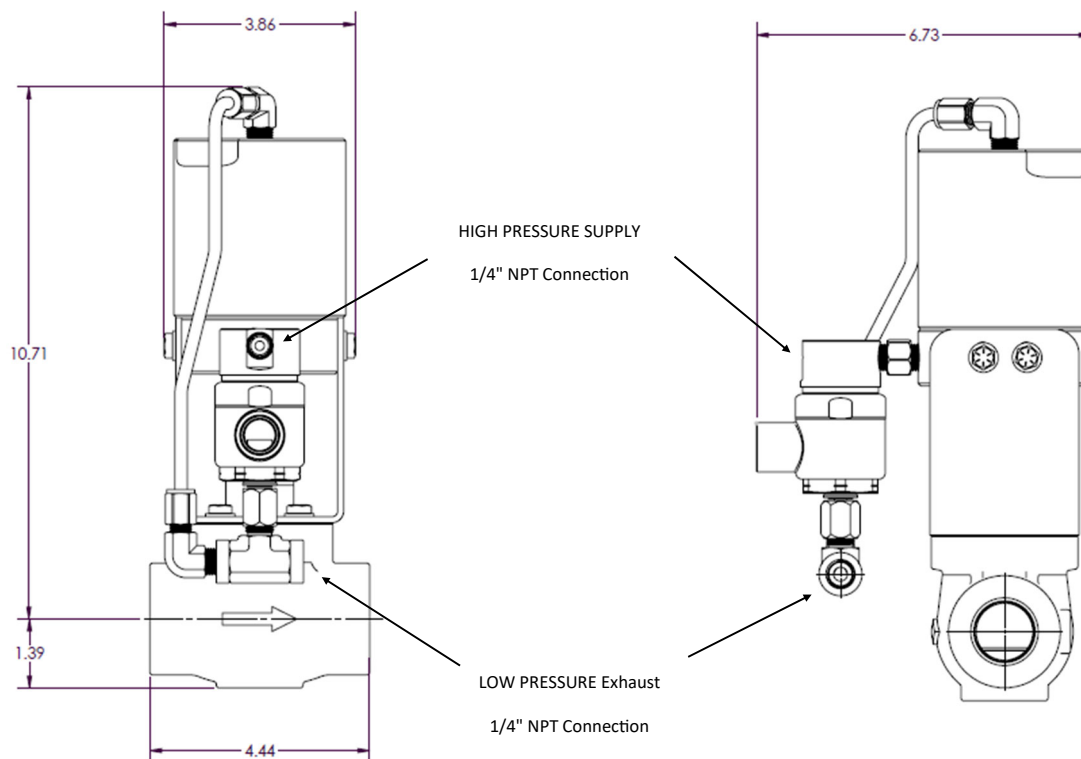
Specifications

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: 4000 psi
Temperature Range: -20° F to 400° F (-29° C to 204° C)
Actuator Max pressure: 2000 psi
Actuator Maximum Differential: 250 psi
Actuator Minimum Differential: 40 psi
Shutoff: ANSI Class IV
Piston Size: 3"
Input Voltage: 24VDC, 12VDC, or 6VDC
Haz. Loc. Rating: Class 1, Div 1
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
Piston Housing: Stainless Steel
Approximate Weight: 27 lbs.

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

Dimensions



How to Order

Example Model No. **CV14-GRP-CB-81E**

CV14 Eco Series Control Valve, Globe body, Reverse acting, 24V, Carbon Steel with Buna Seals, 0.50" Trim, Standard Service with Equal Percent trim.

Body		
G - Globe	A - Angle	
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 - 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 R P - C B - 8 1 E

*See Cv Values Chart for trim size/type combinations

Repair Kits Available

Beaumont Manufacturing
bmd
 and Distribution Company
www.beaumontmanufacturing.com

Phone: 409-225-5863

Fax: 409-242-1005

850 Fannin St.

Beaumont, Texas 77701