CV14 CONTROL VALVE

with Capture Energy's Eco Piston™

Beaumont Manufacturing bmd and Distribution Company

CAPTURE Energy

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 0000b/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 locations and comes in 6VDC, 12VDC, or 24VDC options.



SPECIFICATIONS

Connections:
- 1" Female NPT

Body Type:
- Globe
- Angle

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

Trim Size:
- 0.125" (⅛)
- 0.188" (3⁄16)
- 0.25" (¼)
- 0.375" (⅜)
- 0.50" (½)

Trim Size:
- 0.50" (½)

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:
- 2.5"

Input Voltage:
- 24VDC
- 12VDC
- 6VDC

Haz. Loc. Rating:
- Class 1
- Div 1

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

Piston Housing:
- Stainless Steel

Approximate Weight:
- 27 lbs

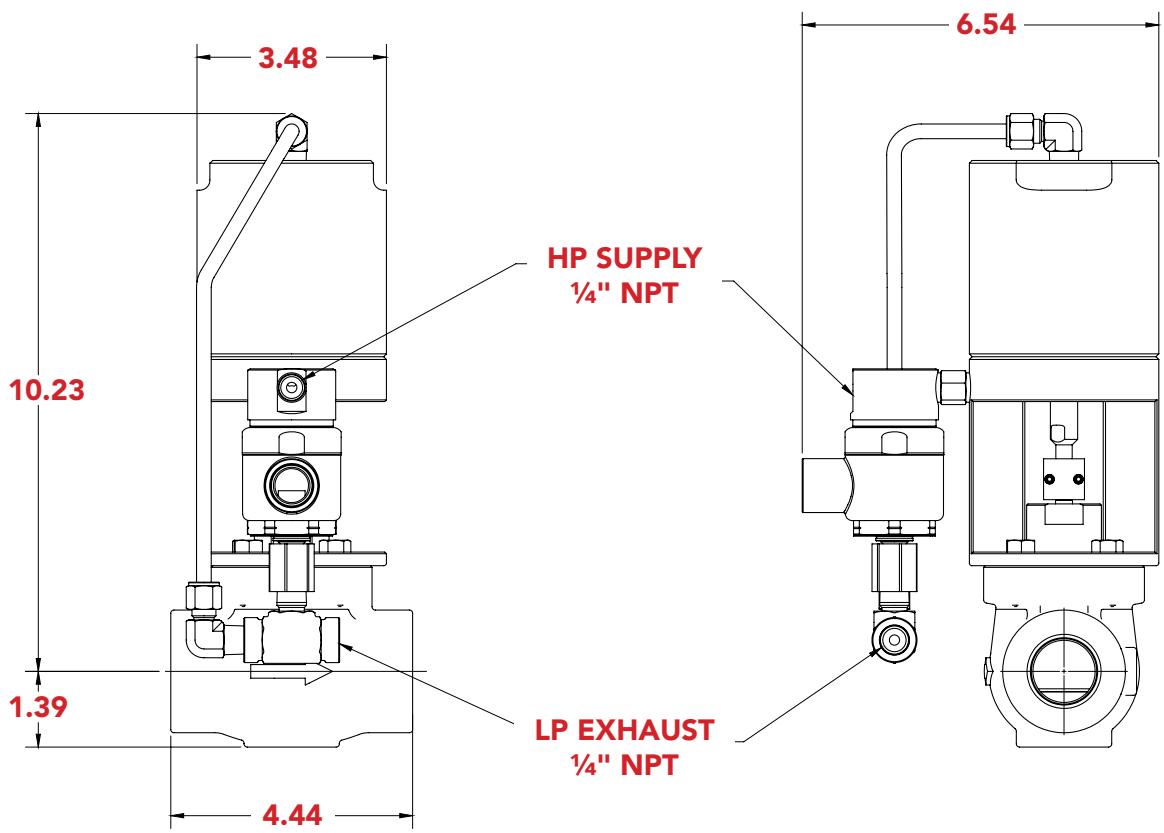
CV VALUES

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

VALVE SHUT OFF PRESSURE PSI

TRIM SIZE	Valve Differential PSI			
	500	1000	1500	2000
	PISTON DIFFERENTIAL REQUIRED PSI			
0.125"	44	44	44	44
0.188"	44	44	44	44
0.25"	44	44	44	44
0.375"	41	47	55	63
0.5"	50	63	84	98

DIMENSIONS



HOW TO ORDER

EXAMPLE MODEL NO. ***CV14-GN50R2P-CB-81E***

CV14 Eco Series Control Valve, Globe body, NPT, 2000 psi ,Reverse acting, Medium Spring, 24V, Carbon Steel with Buna Seals, 0.50" Trim, Standard Service with Equal Percent trim.

CV14 - G N 50 R 2 P - C B - 8 1 E

SERIES

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 - Light
2 - Medium

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"
4 - 0.25"
8 - 0.50"
3 - 0.188"
6 - 0.375"

SERVICE
1 - Standard Service
2 - Corrosive Service
3 - Erosive Service (Carbide)

TRIM TYPE*
L - Linear
E - Equal Percent
Q - Quick Open (Carbide)

Repair Kits Available **See Cv Values Chart for trim size/type combinations*

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Beaumont Manufacturing and Distribution Company