

Terminal Zone Valves

DATA SHEET

V246 and V243I Flared Connection Valves Bodies



Choose Spartan for a quality

and versatile alternative to

Honeywell and Erie valves.

LIFETIME WARRANTY ON VALVE BODIES

Designed for use on hot or chilled water up to 50% glycol mix and low-pressure steam, these commercial application 2 way terminal globe valve bodies utilize low zinc bronze alloy for outstanding resistance to corrosion and dezincification. Coupled with a long life of 1.5 million cycles and with replaceable and inline interchangeable cartridges with burnished stainless steel stems and micro machined accurate parabolic characterizing plugs. All Spartan cartridges have spring loaded stems which are driven stem down to close.

These control valve assemblies can be used with the complete line of Spartan Zone Actuators (Electric, Electronic, Pneumatic & Thermostatic) and are easily interchangeable with a thumb-nut. See Spartan Actuators Data Sheets.

- Available range of Cv cartridges from 0.15 to 3.5CV in 0.5CV increments
- Choose from hot or chilled water, low pressure steam or high close-off pressure application versions

Internal Cartridges



Type EP/EV Type EB Type BC

Choice of Cv*: 0.15 / 0.25 / 0.50 / 1.0 / 1.5 / 2.0 / 2.5 / 3.0 / 3.5
EPxx Cartridge - for hot or chilled water up to 50% glycol mix.
EVxx Cartridge - low-pressure steam 15psi.
EBxx Cartridge - high close off pressures of 100psi.

BCxx Cartridge* - for 0.15, 0.25 CVs only

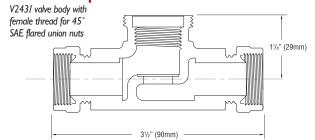
Internals Specifications

	Standard Application Chilled Water/Glycol	Steam Application 15psi	High Pressure Application 100psi/6.8 bar close-off	Low Flow Application
Cartridge part #s (Replaceable)	EP – (Cv) or (Kv) ie: EP – 3.5 Type "EP" (plug)	EV – (Cv) or (Kv) ie: EV – 3.5 Type "EV" (plug) for steam	EB – (Cv) or (Kv) ie: EB – 6.0 Type "EB" (balanced plug)	BC – (Cv) or (Kv) ie: BC – 0.25 Type "BC" (cage)
Valve seat	Integral bronze	Integral bronze	Integral bronze	Bronze - replaceable
Valve disc/plunger	EPDM / brass	Hi-temperature EPDM	EPDM / brass	Brass cage
Valve spring	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Packing	Double EPDM	Double Hi-temperature EPDM	Double EPDM	Double EPDM
Stroke	4mm	4mm	4mm	4mm
Tight close off	100 %	100 %	100%	0.1% of Cv
Steam rated	N/A	15 psi. (250°F / 120°C)	N/A	N/A
Water rated	(250°F / 120°C)	N/A	(250°F / 120°C)	(250°F / 120°C)
Glycol rated	To 50%	N/A	To 50%	To 50%
Cv Equal % - 4mm lift Cv Linear - 4mm lift	ft	0.50, 1.0, 1.5, 2.0, 2.5, 3.0 1.0, 2.0, 3.5		0.15, 0.25. 0.50 N/A

V246 - Compatible with Honeywell bodies



V243I - Compatible with Erie bodies



General Specifications

Body Material	Low zinc bronze, alloy C84400		
Pressure Rating	ANSI 250 (PN16), 400 PSI at 150°F, 27 bar at 65°C		
Max.Test Pressure	1200 PSI (81 bar)		
Max. ∆P	60 PSI (4.0 bar)		
Max. Close-off Pressure	100 PSI with EB cartridge		
Valve Stem	"Mirror – maker" burnished stainless steel stems		
Turndown Ratio	Better than 50:1		
Stem Travel	5/32" (4mm)		
Stem Position	UP = valve open, DOWN = valve closed		

Installation and Flow Direction

When installing it is essential that the flow follows the arrow that is embedded into the valve body casting.

The packing and plunger cartridge can be easily replaced by using the AV07 Packing Wrench shown below.



AV07 Packing Wrench

Spartan Peripheral Devices telephone: (450) 424-6067 • fax: (450) 424-6071 • email: info@spartan-pd.com • website: www.spartan-pd.com