

V420 3 way 4 port Control Valve Bodies



These ANSI 250 valve bodies (400# @ 1500F, 250# @ 2500F) are 3-way diverting 4 port globe valves with built-in tee (piped as mixing valve it can be used for 5 psi maximum differential pressure.) They are common to all Spartan actuators and are available in a wide range of Cv (Kv) sizes. The V420 is a 1/2" compression nut or 15 mm comisa fitting valve body. Unions supplied extra.

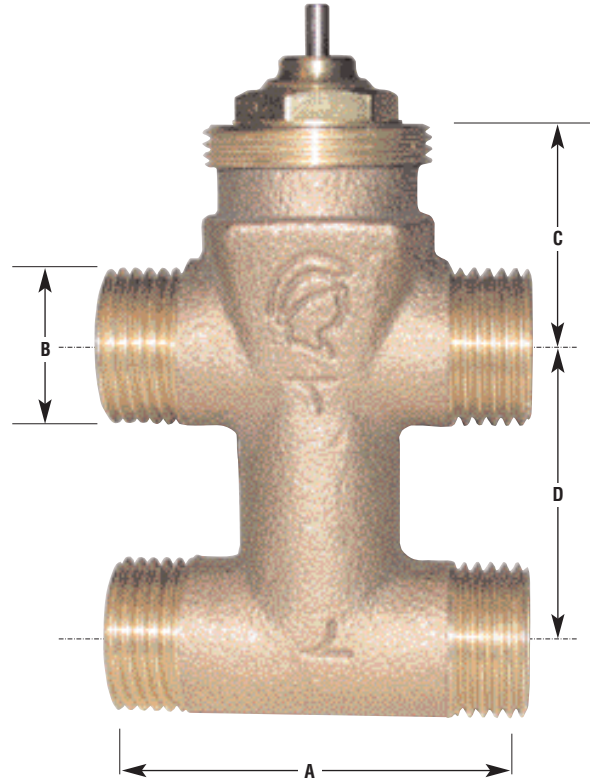
Designed for use on hot or chilled water and up to 50% glycol mix, the commercial application valve bodies utilize low zinc antidezincification bronze, coupled with long life replaceable and interchangeable internals 1.0, 2.0, 3.0, 3.5 Cv (0.86, 1.70, 2.60, 3.00 KV's).

A valve cap supplied with the valve body can be used with limited life as a manual adjuster when the actuator is removed from the valve body. Alternatively a more permanent manual adjuster type OM1000 can be used permanently for longer life expectancy.

All valve bodies have spring-loaded stems, being actuated power driven stem down to open or close as required by the valve assembly configuration. All valve bodies have replaceable and / or interchangeable internals to enable Cv (Kv) size change or configuration change on-site, resizing or servicing without removing the valve from the line. In all cases, the internals are complete with world-class specifications including 1 1/2 - million cycles (3,000,000-stroke) packing and burnished mirror finished stainless-steel stems.

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.

3-way 4 Port Globe Valve Body



	A	B	C	D
inches	2.24	0.59	1.15	1.57
(mm)	(56.9)	(15.0)	(29.3)	(40.0)

General Specifications

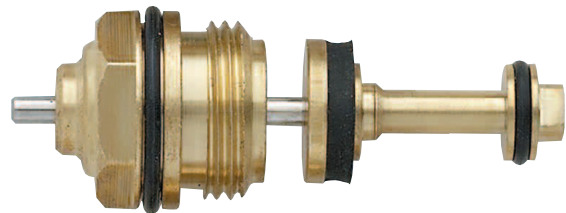
Body material	Low zinc bronze, alloy C84400
Pressure rating	ANSI 250 (PN16)
Max. Δ pressure	50PSI (3.5bar)
Turndown ratio	Better than 50:1
Stem Travel	7/64" (2.8mm) 5/32" (4.0mm)

Internals Specifications -

Field replaceable and interchangeable

Cartridge part #s (Replaceable)	ED - (Cv) or (Kv) ie: ED - 3.0 Type "ED" (plug)
Valve seat	Integral bronze
Valve disc/plunger	EPDM / brass
Valve stem	"Mirror - maker" burnished stainless steel stems
Valve spring	Stainless Steel
Packing	Double EPDM
Tight close off	100%
Steam rated	N / A
Water rated	(250°F / 120°C)
Glycol rated	To 50%
Cv Linear - 2.8mm lift 4.0mm lift	1.0, 2.0, 3.0 3.5
Kv Linear - 2.8mm lift 4.0mm lift	0.86, 1.70, 2.60 3.0

Internal Cartridge



Spartan cartridges are made to high standards and exacting manufacturing techniques which ensure you the best quality available. See chart for types available.

AV07 Packing Wrench



Use Spartan Peripheral Devices AV07 tool to replace packing and plunger internal cartridge.