



### V320 SERIES 3 WAY DIVERTING UNION VALVE BODY with Union Connections on all ports

Spartan Peripheral Devices 3 way V320 diverting valve body cavities, will accept Spartan 1/2" or 3/4", male NPT or solder type unions, on all ports.

They are designed for hot or chilled water and 50% glycol with a standard ED cartridge. For specifications see Spartan cartridges data sheet.

They are compatible and interchangeable with the complete line of Spartan control valve actuators (wireless, electric, electronic, pneumatic and thermostatic). For specifications see Spartan actuators data sheet.

The commercial application globe valve bodies utilize low zinc anti dezincification bronze and are guaranteed for the life of the building.

#### GENERAL SPECIFICATIONS

**Body Material:** Low zinc bronze, alloy C84400

**Pressure Rating:** ANSI 250 (400 PSI at 32°F to 150°F, 250 PSI at 250° F) PN25

**Max. Test Pressure:** 1200 PSI (81 bar)

**Max. Δ Pressure:** 50 PSI (3.5 bar) can be exceeded but with possible water noise

**Valve Stem:** "Mirror – maker" burnished stainless steel stems

**Rangeability:** 100:1

**Stem Travel:** 7/64" (2.8mm), 5/32" (4mm)

**Stem Position:** UP = valve open from port AB to A

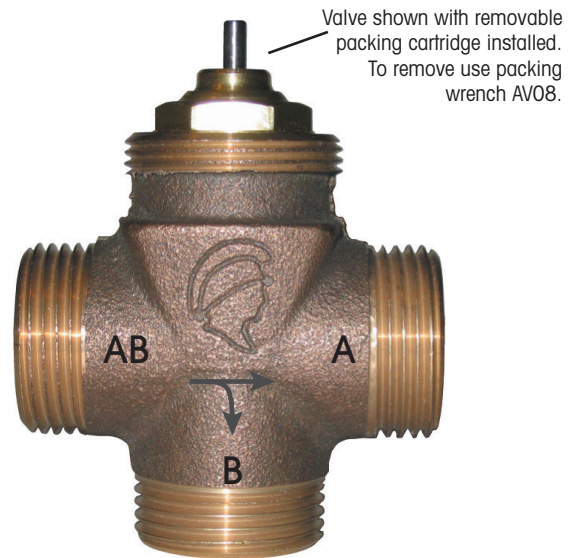
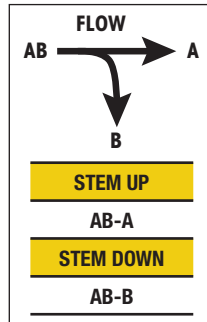
#### INSTALLATION AND FLOW DIRECTION

When installing it is essential that the flow follows the arrow that is embedded into the valve body casting. The packing, plunger and cartridge can be easily replaced by using the AV08 Packing Wrench. This product must not be used outside of the specified applications. Installation should only be carried out by a licensed and trained installer. All local regulations and codes must be followed, and complied with, during the installation of this product.

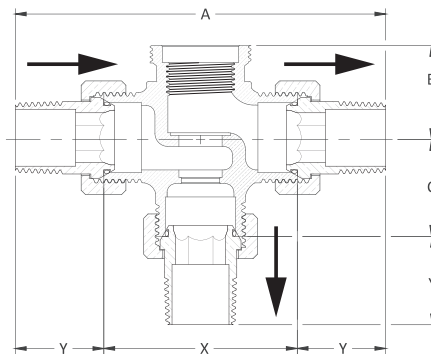
#### HOW TO ORDER

1. Choose your valve body.
2. Choose an internal cartridge according to your application and CV. See Spartan cartridges data sheet.
3. Choose an actuator.

For a complete overview, see our **Zone Valve Selection Guide**.



#### DIMENSIONS



**Select to include with standard nipple:**

V320-12N for 1/2" threaded union.

V320-34N for 3/4" threaded union.

**Select Spartan alternative union types from dimensional table.**

**You can mix union's size or type on the same valve body.**

#### DIMENSIONS FOR 1/2" VALVES (inches)

Standard V320-12N assembly with 1/2" threaded union					
A	x	y	B	C	UNION TYPE
4-1/4	2-1/4	1	1-1/8	1-1/8	AV6112
For different sized union, order V24020 cavity & union below					
5-1/4	2-1/4	1-1/2	1-1/8	1-1/8	AV6112D
5-3/4	2-1/4	1-3/4	1-1/8	1-1/8	AV6112E
6-1/4	2-1/4	2	1-1/8	1-1/8	AV6112F
6-3/4	2-1/4	2-1/4	1-1/8	1-1/8	AV6112G
7-1/4	2-1/4	2-1/2	1-1/8	1-1/8	AV6112H

Standard V320-12S assembly with 1/2" solder union (5/8" pipe)					
A	x	y	B	C	UNION TYPE
4-1/4	2-1/4	1	1-1/8	1-1/8	AV6312

#### DIMENSIONS FOR 3/4" VALVES (inches)

Standard V320-34N assembly with 3/4" threaded union					
A	x	y	B	C	UNION TYPE
5-1/4	2-3/4	1-1/4	1-1/8	1-1/8	AV6134
Standard V320-34S assembly with 3/4" solder union (7/8" pipe)					
6-3/4	2-3/4	2	1-1/8	1-1/8	AV6334

Weight: 8.5oz (240g)

- STEP 1** Choose a valve body | **STEP 2** Choose an internal cartridge | **STEP 3** Choose an actuator

**VE 320 12 N ED 1.0 4340**

**ACTUATOR TYPE:** see Data Sheets

**SELECT Cv VALUE**

**CARTRIDGE TYPE:** see Data Sheet

N = threaded union, S = solder union, □ = no union (order optional union separately)

**VALVE SIZE:** 12 = 1/2", 34 = 3/4"

**VALVE BODY TYPE:** VE320 = 3 way union all 3 ports

**VALVE ASSEMBLY TYPE:** Select E for Electric, P for Pneumatic, or T for Thermostatic