

AV-8020, AV-8122

# Electric Brass Flare Valves, 1/2 in. Two-Way and Three-Way, Metal-Seated



## Description

These 1/2 in. two-way and three-way flare valves accurately regulate the flow of hot and cold water in small HVAC terminal units, including fan coils, perimeter radiation, and reheat coils.

## Features

- available with a factory coupled VA-8x2x Series Electric Actuator. This actuator can also be field mounted without requiring any extra parts
- contains a modulating plug that provides an equal percentage relationship between valve travel and flow at a constant pressure drop for two-way operation, linear for three-way mixing

## To Order

Specify the code number from the selection chart shown below. For available combinations, refer to *Electric Valve and Actuator Selection Charts, Electrically Actuated 1/2 Inch Flare Valves*.

## Repair Parts

Unit replacement only except for replacement packing. For replacement packing, order **V-520-650**.

## Specifications

Metal-Seated Electric-actuated Flare Valves		
Service	Hot and Cold Water	
Valve Bodies	<b>VB-5239</b>	Refer to <i>VB-5239, VB-5839 Series Brass Flare Valve Bodies, 1/2 in. Two-Way and</i>
	<b>VB-5839</b>	<i>Three-Way, Metal-Seated</i>
Actuators	<b>VA-8020-1</b>	Refer to <i>VA-8x2x Series Electric Actuators</i>
	<b>VA-8122-1</b>	
Maximum Seat Leakage	<b>0.5 Cv</b>	0.1% of Maximum Cv
	<b>1.2 and 2.4 Cv</b>	0.05% of Maximum Cv
Maximum Recommended Operating Differential Pressure Drop for Valve Sizing	35 psi	
Valve Stroke Length (Travel)	5/16 in.	
Maximum Allowable Pressure	232 psi	
Maximum Allowable Closeoff Pressure	Refer to <i>Electric Valve and Actuator Selection Charts</i> .	
Maximum Operating Temperature	195°F	
Materials	<b>Stem</b>	Stainless Steel
	<b>Trim</b>	Brass Complete
	<b>Body</b>	Forged Brass
	<b>Packing</b>	Non-adjustable EPR (Ethylene Propylene Rubber) Ring Packs
Body Style and Size	Offset Globe for 1/2 in. SAE Flared Connections	
Dimensions	<b>Valve Body End-to-End</b>	3 inches

## Selection Chart

Size (in.)	Valve Body	Style	Maximum Cv (kv)	Actuator	Application	Factory Coupled Assembly Number
1/2	VB-5239-1730	Two-Way PDTC	0.5 (0.43)	VA-8020-1	Floating / Incremental	AV-8020-1001
	VB-5239-1750		1.2 (1.0)			AV-8020-1002
	VB-5239-1770		2.4 (2.0)			AV-8020-1003
	VB-5839-1730	Three-Way Mixing	0.5 (0.43)			AV-8020-1004
	VB-5839-1750		1.2 (1.0)			AV-8020-1005
	VB-5839-1770		2.4 (2.0)			AV-8020-1006
	VB-5239-1730	Two-Way PDTC	0.5 (0.43)	VA-8122-1	Proportional	AV-8122-1001
	VB-5239-1750		1.2 (1.0)			AV-8122-1002
	VB-5239-1770		2.4 (2.0)			AV-8122-1003
	VB-5839-1730	Three-Way Mixing	0.5 (0.43)			AV-8122-1004
	VB-5839-1750		1.2 (1.0)			AV-8122-1005
	VB-5839-1770		2.4 (2.0)			AV-8122-1006