



5000 Series Zone Valves

V8043 QUICKFIT®

SUBMITTAL SHEET

Job Name	
Engineer	
Mechanical Contractor	
Contractor's P.O. No.	
Representative	
Notes	

Model(s)				
	Qty.		Notes	
	Qty.		Notes	
	Qty.		Notes	
Approval				
Service				
Tag No.				

APPLICATION

Use this valve in closed loop hydronic systems that do not contain dissolved oxygen in system water, such as fresh water from frequent source of makeup water. Valve designed for cycling (not constantly powered on) applications.

QuickFit® actuator provides an easy snap on and off connection to the valve assembly.

SPECIFICATIONS

Application: Hydronic Control

Type: 2 Position

Body Pattern: Two-way, Straight-Through

Voltage: 24 Vac

Power Consumption: 7.2 Va

Frequency: 60 Hz

De-energized Position: Normally Closed

Maximum Ambient Temperature: 125 F (52 C)

Nominal Timing (sec, min): 15 sec

Static Pressure: 300 Psi (2068 kPa)

Warranty: 3 year limited warranty

Valve Materials	
Body	Brass
Stem	Stainless Steel
Seat	Brass
Packing O-Ring	EPDM Rubber
Ball Plug	Buna-N (NBR) Rubber Ball
Actuator Materials	
Case	Brass
Cover	Stainless Steel
Sector Gears	Brass

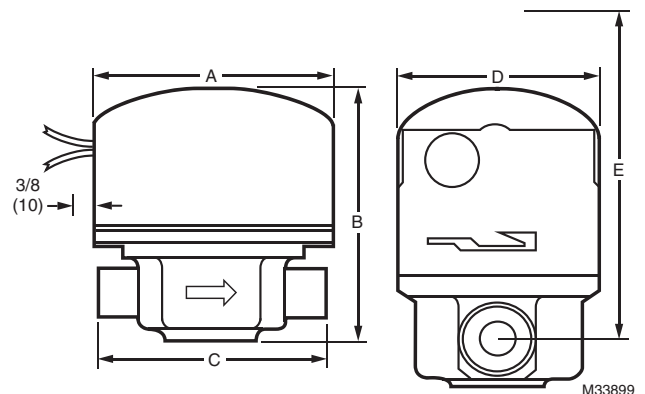


Fig. 1.

MODELS

V8043 (Straight-Through, Normally Closed)

V8043A: Leadwires

V8043E: Leadwires and End Switch

V8043F: Terminal Board and End Switch



68-3092-02

Dimensions

Product Number	Dimensions				
	A	B	C	D	E
V8043A5011	3 1/2"	4"	3 1/8"	2 3/8"	5 1/4"
V8043A5029	3 1/2"	4"	3 1/2"	2 3/8"	5 1/4"
V8043E5004	3 1/2"	4"	3 1/8"	2 3/8"	5 1/4"
V8043E5012	3 1/2"	4"	3 1/2"	2 3/8"	5 1/4"
V8043E5020	3 1/2"	4"	3 11/16"	2 3/8"	5 1/4"
V8043E5061	3 1/2"	4"	3 1/2"	2 3/8"	5 1/4"
V8043E5079	3 1/2"	4"	3 11/16"	2 3/8"	5 1/4"
V8043F5036	3 1/2"	4"	3 1/2"	2 3/8"	5 1/4"
V8043F5051	3 1/2"	4"	3 11/16"	2 3/8"	5 1/4"
V8043F5093	3 1/2"	4"	3 1/2"	2 3/8"	5 1/4"

Maximum Close-Off Pressure & Capacity

Product Number	Max Pressure		Capacity	
	Psi	kPa	Cv	Kv
V8043A5011	20	138	3.5	3
V8043A5029	20	138	3.5	3
V8043E5004	20	138	3.5	3
V8043E5012	20	138	3.5	3
V8043E5020	20	138	3.5	3
V8043E5061	8	55	8	6.9
V8043E5079	8	55	8	6.9
V8043F5036	20	138	3.5	3
V8043F5051	20	138	3.5	3
V8043F5093	8	55	8	6.9

BALL VALVE

The 5000 Series Zone Valves use a NBR rubber ball instead of a flange to create a seal. Using a ball versus the traditional flange provides a new sealing surface each time the valve operates, producing a quality seal and significantly increasing service life.

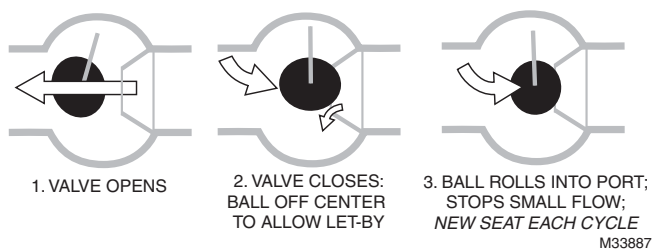


Fig. 2.

ADDITIONAL SPECIFICATIONS

Actuator Electrical Rating: 24Vac 60 Hz, 0.30 A Current Draw; 5 W, 7.2 VA maximum

End Switch Rating: 120 V, 4.4 A running with 26.4 A inrush (60Hz). Pilot duty 50 VA at 24 V

Humidity Rating: 5-95% RH (non-condensing)

Atmosphere: non-corrosive, non-explosive

Timing:

V8043: Open or close in 15 seconds max.

Fluid Temperature Range: 50 F to 200 F (10 C to 93 C)

Manual Opener: Manual opener allows opening the valve in case of power failure. Valve returns to automatic position when power is restored.

Approvals:

Canadian Standards Association: CSA C/US
Underwriters Laboratories, Inc.

MOUNTING

The valve can be mounted in any position on a vertical line. See the figure below. If the valve is mounted horizontally, the powerhead must be even with or above the center line of the piping. Make sure to leave enough room above the powerhead to remove the cover for servicing.

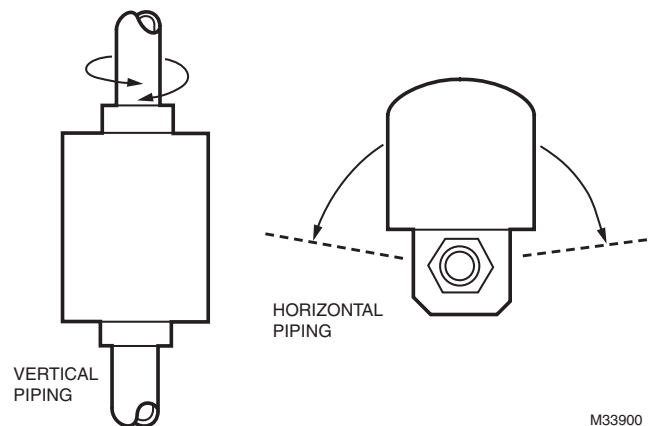
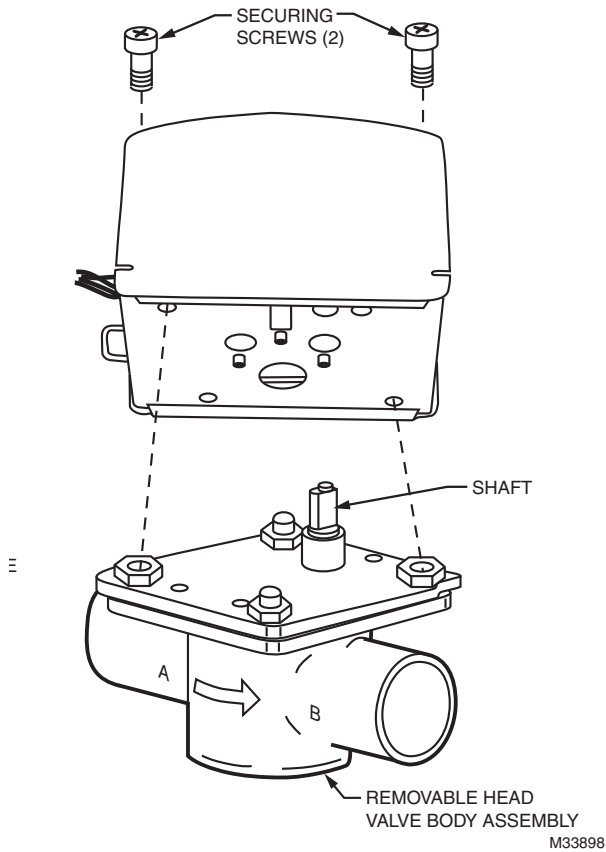


Fig. 3.

SERVICING 1000 SERIES ZONE VALVES

Install a 5000 Series actuator on a 1000 series valve body. The 5000 Series replacement actuator is backward compatible with the 1000 series zone valve.

**Fig. 4.**

For install instructions refer to literature number 67-7184.

V8043 5000 Series Part Numbers

Product Number	Pipe Size	Connection Type	Electrical Connections	End Switch	Manual Opener
V8043A5011	1/2"	Sweat	18 in. leads (457 mm leads)	--	Yes
V8043A5029	3/4"	Sweat	18 in. leads (457 mm leads)	--	Yes
V8043E5004	1/2"	Sweat	18 in. leads (457 mm leads)	SPST	Yes
V8043E5012	3/4"	Sweat	18 in. leads (457 mm leads)	SPST	Yes
V8043E5020	1"	Sweat	18 in. leads (457 mm leads)	SPST	Yes
V8043E5061	3/4"	Sweat	18 in. leads (457 mm leads)	SPST	Yes
V8043E5079	1"	Sweat	18 in. leads (457 mm leads)	SPST	Yes
V8043F5036	3/4"	Sweat	Screw Terminal Block	SPST	Yes
V8043F5051	1"	Sweat	Screw Terminal Block	SPST	Yes
V8043F5093	3/4"	Sweat	Screw Terminal Block	SPST	Yes

Home and Building Technologies

In the U.S.:

Honeywell

715 Peachtree Street NE

Atlanta, GA 30308

customer.honeywell.com

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