

# Motorized Zone Valves

## V4044 Line Voltage Diverting Valves



Flare Connection



Sweat Connection



Sweat Connection

On-off and diverting line voltage valves consist of an actuator motor and valve assembly for controlling the flow of hot or chilled water.

- Manual opener (on all models, except straight-through, normally open valves) for valve operation on power failure; valve returns to automatic position when power is restored.
- All models may be installed without disassembling the valve.
- Compact construction for easy installation.
- Complete powerhead may be removed or replaced without breaking plumbing line connections or draining the system.
- Motor may be replaced without removing the valve body or draining the system.
- Suitable for heating and cooling applications.

Dimensions Diagram: see page 224

**Application:** Hydronic Control

**Type:** 2 position

**Body Pattern:** 3-Way, Diverting

**Valve Action:** Spring Return to port A

**Power Consumption:** 9.6 VA

**Nominal Timing (sec, min):** 30 sec

**De-energized Position:** Port A Normally Closed

**Electrical Connections:** 18 in. leads (457 mm leads)

**Static Pressure:** 125 psi (862 kPa)

**Fluid Temperature Range:** 40 F to 200 F (5 C to 93 C)

**Maximum Ambient Temperature:** 125 F (52 C)

**Materials**

**(Body):** Brass

**(Stem):** Stainless Steel

**(Seat):** Brass

**(Packing O-Ring):** EPDM rubber

**(Ball Plug):** Buna-N (NBR) Rubber Ball

**Comments:** 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.

**Approvals:**

**Underwriters Laboratories Inc.** UL Component Listed: File MH11826 Vol. 1

**Replacement Parts:**

**802360LA** 120V, 60 Hz Replacement motor for V4043, V4044 Zone Valves

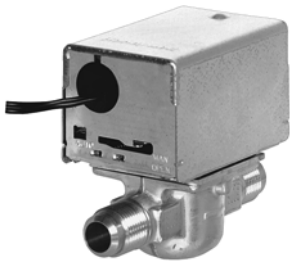
**802360MA** 208V, 60 Hz Replacement motor for V4043, V4044 Zone Valves

**802360NA** 220V/50 Hz; 240V/60 Hz Replacement motor for V4043, V4044 Zone Valves

**802360QA** 277V, 50/60 Hz Replacement motor for V4043, V4044 Zone Valves

Product Number	Pipe Size		Connection Type	Capacity		Maximum Close-off Pressure		Voltage	Frequency	Manual Opener
	(inch)	DN		(Cv)	(Kv)	(psi)	(kPa)			
V4044A1001	1/2 in.	DN15	Flare	4 Cv	3.4 Kv	20 psi	138 kPa	120 Vac	60 Hz	Yes
V4044A1019	1/2 in.	DN15	Sweat	4 Cv	3.4 Kv	20 psi	138 kPa	120 Vac	60 Hz	Yes
V4044A1035	1/2 in.	DN15	Sweat	4 Cv	3.4 Kv	20 psi	138 kPa	208 Vac	60 Hz	Yes
V4044A1043	1/2 in.	DN15	Flare	4 Cv	3.4 Kv	20 psi	138 kPa	240 Vac	60 Hz	Yes
V4044A1050	1/2 in.	DN15	Sweat	4 Cv	3.4 Kv	20 psi	138 kPa	220 Vac	60 Hz	Yes
V4044A1191	3/4 in.	DN20	Sweat	7 Cv	6 Kv	10 psi	69 kPa	120 Vac	60 Hz	Yes
V4044A1258	1/2 in.	DN15	Sweat	4 Cv	3.4 Kv	20 psi	138 kPa	277 Vac	60 Hz	Yes
V4044A1290	1/2 in.	DN15	Sweat	4 Cv	3.4 Kv	20 psi	138 kPa	120 Vac	60 Hz	Yes
V4044B1009	1/2 in.	DN15	Flare	4 Cv	3.4 Kv	20 psi	138 kPa	120 Vac	60 Hz	Yes
V4044B1017	1/2 in.	DN15	Sweat	4 Cv	3.4 Kv	20 psi	138 kPa	120 Vac	60 Hz	Yes
V4044B1314	3/4 in.	DN20	Sweat	7 Cv	6 Kv	10 psi	69 kPa	120 Vac	60 Hz	Yes

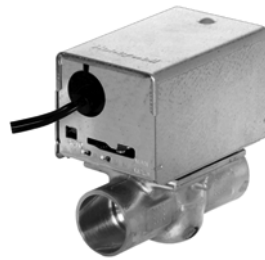
## V8043 Low Voltage Normally Closed Zone Valves



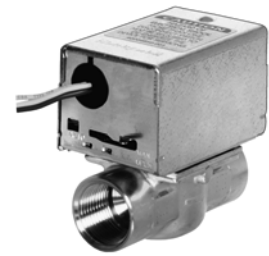
V8043A1003



V8043A1011



V8043A1037



V8043E1020



V8043E1061



V8043E1145



V8043F1028



V8043F1101



V8043F1093

Hydronic Controls

Product numbers above are displayed as examples and not to be considered exclusive for that image

**Two-way on-off low voltage valves consist of an actuator and valve assembly for controlling the flow of hot water.**

- Manual opener (on all models, except straight-through, normally open valves) for valve operation on power failure; valve returns to automatic position when power is restored.
- All models may be installed without disassembling the valve.
- Compact construction for easy installation.
- Complete powerhead may be removed or replaced without breaking plumbing line connections or draining the system.
- Actuator motor may be replaced without removing the valve body or draining the system.

**Dimensions Diagram:** see page 224

**Application:** Hydronic Control

**Type:** 2 position

**Body Pattern:** Two-way, Straight-through

**Valve Action:** Spring return to close

**Voltage:** 24 Vac

**Frequency:** 50 Hz; 60 Hz

**Power Consumption:** 7.7 VA

**Nominal Timing (sec, min):** 15 sec

**De-energized Position:** Normally Closed

**Static Pressure:** 125 psi (862 kPa)

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

**Maximum Ambient Temperature:** 125 F (52 C)

**Materials**

**(Body):** Brass

**(Stem):** Stainless Steel

**(Seat):** Brass

**(Packing O-Ring):** EPDM rubber

**(Ball Plug):** Buna-N (NBR) Rubber Ball

**Comments:** 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.

**Approvals:**

**Underwriters Laboratories Inc.** UL Component Listed: File MH11826 Vol. 1

**Replacement Parts:**

**802360JA** 24V, 50/60 Hz Replacement motor for V8043, V8044 Zone Valves

**802360UA** 24V, 50/60 Hz Replacement motor for steam, heating, and chilled water Zone Valves

Product Number	Pipe Size		Connection Type	Capacity		Maximum Close-off Pressure		End Switch	Manual Opener	Electrical Connections
	(inch)	DN		(Cv)	(Kv)	(psi)	(kPa)			
V8043A1003	1/2 in.	DN15	Flare	3.5 Cv	3 Kv	20 psi	138 kPa	—	Yes	18 in. leads; 457 mm leads
V8043A1011	1/2 in.	DN15	Sweat	3.5 Cv	3 Kv	20 psi	138 kPa	—	Yes	18 in. leads; 457 mm leads
V8043A1029	3/4 in.	DN20	Sweat	3.5 Cv	3 Kv	20 psi	138 kPa	—	Yes	18 in. leads; 457 mm leads
V8043A1037	1 in.	DN25	Sweat	3.5 Cv	3 Kv	20 psi	138 kPa	—	Yes	18 in. leads; 457 mm leads
V8043A1193	1/2 in.	DN15	Inverted Flare	3.5 Cv	3 Kv	20 psi	138 kPa	—	Yes	18 in. leads; 457 mm leads

# Motorized Zone Valves

Product Number	Pipe Size		Connection Type	Capacity		Maximum Close-off Pressure		End Switch	Manual Opener	Electrical Connections
	(inch)	DN		(Cv)	(Kv)	(psi)	(kPa)			
V8043A1227	1/2 in.	DN15	NPT	3.5 Cv	3 Kv	20 psi	138 kPa	—	Yes	18 in. leads; 457 mm leads
V8043E1004	1/2 in.	DN15	Sweat	3.5 Cv	3 Kv	20 psi	138 kPa	SPST	Yes	18 in. leads; 457 mm leads
V8043E1012	3/4 in.	DN20	Sweat	3.5 Cv	3 Kv	20 psi	138 kPa	SPST	Yes	18 in. leads; 457 mm leads
V8043E1020	1 in.	DN25	Sweat	3.5 Cv	3 Kv	20 psi	138 kPa	SPST	Yes	18 in. leads; 457 mm leads
V8043E1061	3/4 in.	DN20	Sweat	8 Cv	6.9 Kv	8 psi	55 kPa	SPST	Yes	18 in. leads; 457 mm leads
V8043E1079	1 in.	DN25	Sweat	8 Cv	6.9 Kv	8 psi	55 kPa	SPST	Yes	18 in. leads; 457 mm leads
V8043E1129	1/2 in.	DN15	Inverted Flare	3.5 Cv	3 Kv	20 psi	138 kPa	SPST	Yes	18 in. leads; 457 mm leads
V8043E1137	1 in.	DN25	NPT	10 Cv	8.6 Kv	6.5 psi	45 kPa	SPST	Yes	18 in. leads; 457 mm leads
V8043E1145	3/4 in.	DN20	NPT	3.5 Cv	3 Kv	20 psi	138 kPa	SPST	Yes	18 in. leads; 457 mm leads
V8043F1028	1/2 in.	DN15	Sweat	3.5 Cv	3 Kv	20 psi	138 kPa	SPST	Yes	screw terminal block
V8043F1036	3/4 in.	DN20	Sweat	3.5 Cv	3 Kv	20 psi	138 kPa	SPST	Yes	screw terminal block
V8043F1051	1 in.	DN25	Sweat	3.5 Cv	3 Kv	20 psi	138 kPa	SPST	Yes	screw terminal block
V8043F1093	3/4 in.	DN20	Sweat	8 Cv	6.9 Kv	8 psi	55 kPa	SPST	Yes	screw terminal block
V8043F1101	1 in.	DN25	Sweat	8 Cv	6.9 Kv	8 psi	55 kPa	SPST	Yes	screw terminal block