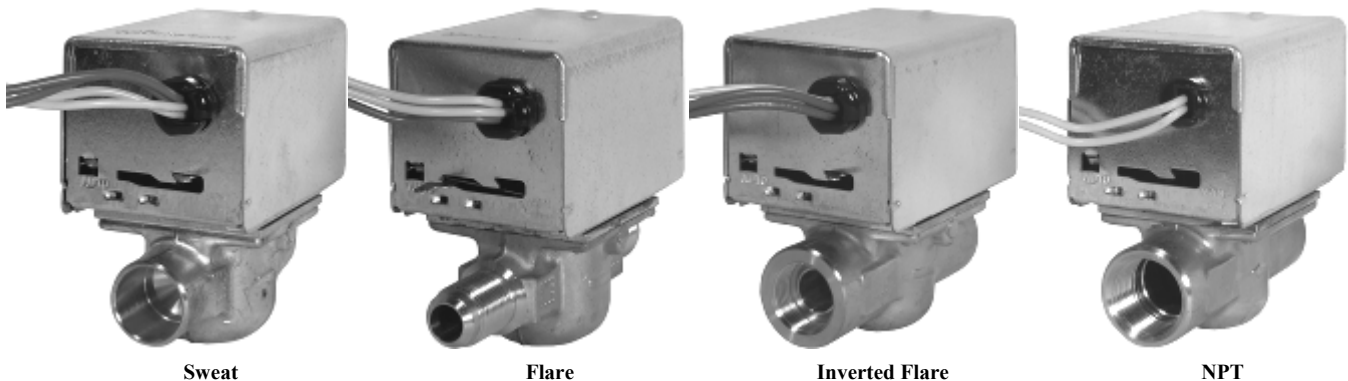


## Zone Valves and Parts (Honeywell)

### Zone Valves - Two Position - Low Voltage

- Two way (on/off) straight through low voltage valves consist of an actuator and valve assembly for controlling flow of hot water
- All models may be installed without disassembling the valve
- 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
- Valves designed for cycling applications (not constantly powered on)
- Manual opener on Normally Closed Valves
- Capacity: 3.5Cv

Pipe Connections		Static Pressure Rating	SPST End Switch	Includes	Brand	Part Number	
Size	Type						
<b>Normally Closed</b>							
3/4"	Sweat	125 psi	No		Honeywell	V8043C1058	
			Yes	End Switch Enclosure	Honeywell	V8043F1135	
			Yes		Honeywell	V8043G1018	
1"			No		Honeywell	V8043C1066	
			Yes		Honeywell	V8043G1026	
3/8"			Flare	No		Honeywell	V8043C1116
	Yes			(2) Straight 3/4" Sweat Adapters	Honeywell	V8043G1034	
	Yes				Honeywell	V8043G1133	
1/2"	Inverted Flare		No		Honeywell	V8043C1124	
			Yes		Honeywell	V8043G1125	
<b>Normally Open</b>							
3/4"	Sweat		125 psi	No	With 1/16" Bypass Hole	Honeywell	V8043D1049
		No			Honeywell	V8043D1064	
1"		Yes			Honeywell	V8043D1189	
3/8"	Flare	No		(2) 3/8" Flare to 3/4" Sweat Adapters	Honeywell	V8043D1080	
		No			Honeywell	V8043D1197	
1/2"	Inverted Flare	300 psi		No		Honeywell	V8043D1205
3/4"	NPT	125 psi	No		Honeywell	V8043D3094	
					Honeywell	V8043D1031	



Sweat

Flare

Inverted Flare

NPT

# Honeywell

# Zone Valves and Parts (Honeywell)

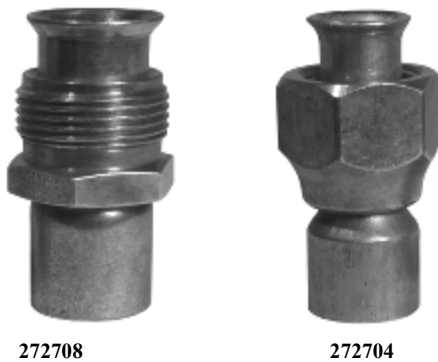
## Zone Valves - Three Way Diverting



- Three-way On-Off low voltage diverting valves consist of an actuator and valve assembly for controlling the flow of hot water
- "A" port closed
- All models may be installed without disassembling the valve
- Complete power head or actuator motor may be replaced without removing the valve body or draining the system

Pipe Connections		Static Pressure Rating	w/SPST End Switch	Brand	Part Number
Size	Type				
<b>Normally Closed Sweat - 24 Volt</b>					
3/4"	Sweat	125 psi	Yes	Honeywell	V8044E1011
<b>Normally Closed Flare - 120 Volt</b>					
1/2"	Flare	125 psi	No	Honeywell	V4044A1001

## Zone Valves Adapters



- Adapters for V4043, V4044, V8043 & V8044 zone valves

Converts		Brand	Part Number
From	To		
1/2" ID Inverted Flare	1/2" Sweat	Honeywell	272708A
1/2" ID Inverted Flare	3/4" Sweat	Honeywell	272708B
1/2" ID Inverted Flare	1" Sweat	Honeywell	272708C
1/2" Sweat	1/2" O.D. Flare	Honeywell	272704A
3/4" Sweat	1/2" O.D. Flare	Honeywell	272704B

## Zone Valves Replacement End Switch



- Replacement end switch for V8043 zone valves (new style 1978 up)

Description	Brand	Part Number
End switch c/w lead wires, insulator and screws	Honeywell	272744B

## Zone Valves Replacement Motor



- Replacement 24 Volt Class A Motor for Honeywell V8043/V8044 heating zone valves only

Description	Brand	Part Number
24 Volt 50/60 Hz, Class A Motor	Honeywell	272748AB



# Zone Valves and Parts (Honeywell)

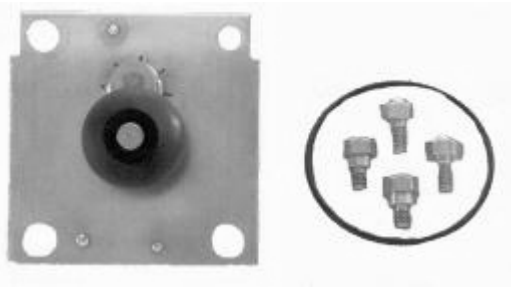
## Zone Valves Replacement O Rings



- Replacement O Rings for V8043/V8044 zone valves

Description	Brand	Part Number
Large "O" Ring, Set of 5	Honeywell	272756A

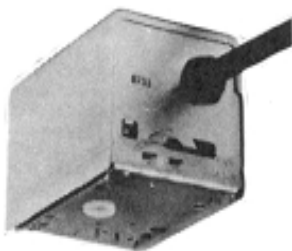
## Zone Valves Powerhead Conversion Kit



- Watertight powerhead conversion kit
- For converting older V8043 valves to the new watertight valve body
- Contains: Metal plate with drive shaft attached to patented rotating rubber ball plug, "O" ring and screws

Description	Brand	Part Number
Powerhead Conversion Kit	Honeywell	4003918002

## Zone Valves Replacement Head Assembly for V8043 Valves



Lead Wire



Terminals

- The following chart indicates how to select a removable powerhead for those zone valves with a dimple on the cover and a series number 6 or higher number appears (rotated 90° clockwise following the complete model number)

Type	End Switch	Connections	Fits Zone Valve	Brand	Part Number
Normally Closed	None	18" Lead Wire	Series V8043C	Honeywell	40003916011
Normally Closed	SPST	18" Lead Wire	Series V8043G	Honeywell	40003916012
Normally Closed	SPST	Terminals	Series V8043D & F	Honeywell	40003916013
Normally Open	None	18" Lead Wire	Series V8043D	Honeywell	40003916014



# Zone Valves and Parts (White Rodgers)

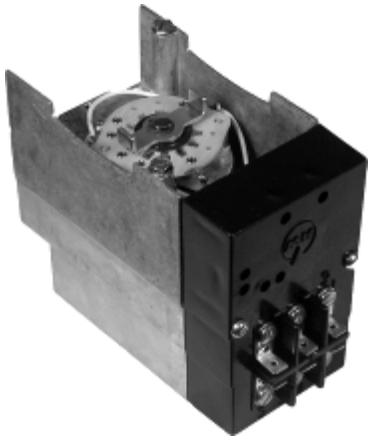
## Zone Valves - Full Port - High Flow



- Valve stem made of stainless steel
- Automatic recycling manual operator shows valve position at all times
- Built-in auxiliary contacts to control burner or circulator relay
- Motor can be removed from valve assembly without draining system
- **DO NOT CHANGE VALVE ASSEMBLY WITHOUT DRAINING BOILER OR WHILE BOILER WATER IS HOT**

Tubing Size (I.D.)	Time Cycle		Friction Loss Equivalents		Brand	Part Number
	Opens	Closes	Cv Factor	Feet of Tubing		
<b>3 Wire, 24V w/screw terminal wiring panel and auxiliary switch</b>						
3/4"	45 seconds	45 seconds	23.5	2 1/2	White Rodgers	<b>1311-102</b>
1"	45 seconds	45 seconds	37.0	4	White Rodgers	<b>1311-103</b>
1 1/4"	45 seconds	45 seconds	42.2	7	White Rodgers	<b>1311-104</b>
<b>2 Wire, 24V w/screw terminal wiring panel and auxiliary switch</b>						
3/4"	45 seconds	60 seconds	23.5	2 1/2	White Rodgers	<b>1361-102</b>
1"	45 seconds	60 seconds	37.0	4	White Rodgers	<b>1361-103</b>
1 1/4"	45 seconds	60 seconds	42.2	7	White Rodgers	<b>1361-104</b>

## Zone Valves Motor Assemblies



- For 1311 & 1361 valves
- Does not include water seal replacement kit

Fits	Brand	Part Number
1311-102, 1311-103 and 1311-104	White Rodgers	<b>F19-0097</b>
1361-102, 1361-103 and 1361-104	White Rodgers	<b>F19-0104</b>

## Zone Valves Assemblies



- Fits both 1311 and 1361 series valves

Fits	Size	Brand	Part Number
1311-102 and 1361-102	3/4"	White Rodgers	<b>F84-0433</b>
1311-103 and 1361-103	1"	White Rodgers	<b>F84-0434</b>
1311-104 and 1361-104	1 1/4"	White Rodgers	<b>F84-0435</b>



# Zone Valves and Parts (Erie)

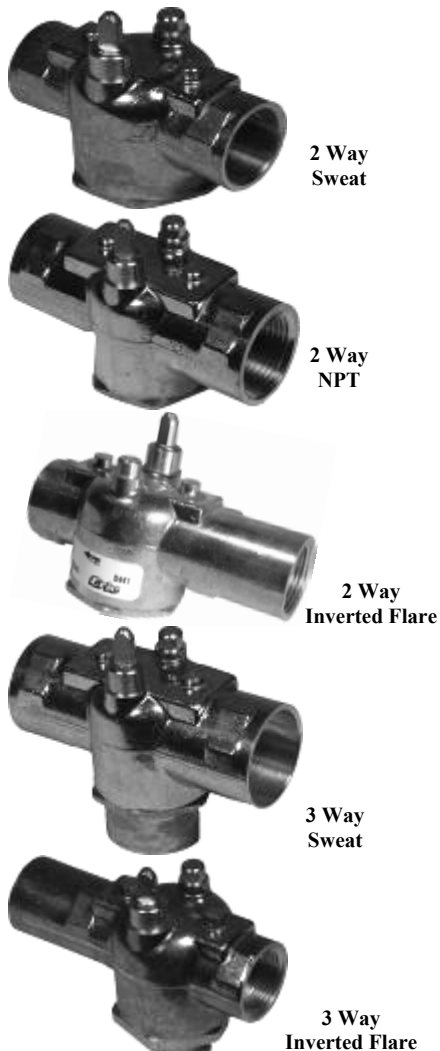
## PopTop™ 2 Position Actuators - General Close Off - Spring Return



- Sized to fit most baseboard applications
- PopTop™ makes installation a snap with easy, one-handed removal or engagement of the actuator to the valve body
- Heavy duty gears, hysteresis synchronous motor and spring return actuator
- Terminal block option
- Temperature Range: 0 to 93C (Fluid) @ 40C (Ambient) / 32 to 200F (Fluid) @ 104F (Ambient)

Action	Voltage	Options	Brand	Part Number
<b>2 Way</b>				
On/Off	24 Vac	18" Leads	Erie	AG13A020
On/Off	24 Vac	18" Leads, End Switch	Erie	AG13A02A
On/Off	120 Vac	18" Leads	Erie	AG13B020
On/Off	120 Vac	18" Leads, End Switch	Erie	AG13B02A
<b>Normally Open 2 Way Only</b>				
On/Off	24 Vac	18" Leads	Erie	AG23A020
On/Off	24 Vac	18" Leads, End Switch	Erie	AG23A02A

## PopTop™ 2 Position Zone Valve Bodies



- Designed for on/off control of fluid flow in a wide variety of heating and cooling applications
- Motorized hydronic valves
- Brass forged 300 psig rated body
- Meets or exceeds ANSI IV standard for close off
- For AG and AH Actuators Only
- Temperature Range: 0 to 93C (Fluid) @ 40C (Ambient) / 32 to 200F (Fluid) @ 104F (Ambient)

Pipe Connections		Standard GENERAL Close-Off	Optional HIGH Close-Off	Brand	Part Number
Size	Cv Flow				
<b>2 Way</b>					
1/2" NPT	3.5	25 psi	30 psi	Erie	VT2223
3/4" Sweat	7.5	17 psi	20 psi	Erie	VT2317
3/4" NPT	7.5	17 psi	20 psi	Erie	VT2327
3/4" Inverted Flare	3.5	25 psi	30 psi	Erie	VT2343*
1" Sweat	5.0	20 psi	25 psi	Erie	VT2415
	7.5	17 psi	20 psi	Erie	VT2417
1" NPT	8.0	17 psi	20 psi	Erie	VT2427
<b>3 Way (For Diverting)</b>					
1/2" Sweat	3.0	40 psi	50 psi	Erie	VT3212
3/4" NPT	7.5	17 psi	20 psi	Erie	VT3327
3/4" Inverted Flare	4.0	25 psi	30 psi	Erie	VT3343*
1" Sweat	7.5	17 psi	20 psi	Erie	VT3417
1" NPT	8.0	17 psi	20 psi	Erie	VT3427

\*Fittings for inverted flare not included with body. See next page.



## Zone Valves and Parts (Erie)

### Fittings For Inverted Flare PopTop™ 2 Position Zone Valve Bodies



- 3/4" inverted flare bodies accept the following adapters to copper pipe

Description	Brand	Part Number
Union Nut & Coupling Assembly Female, for 1/2" (5/8" O.D.) copper, 1 1/16" long	Erie	436-220
Union Nut & Coupling Assembly Female, for 3/4" (7/8" O.D.) copper, 1 27/32" long	Erie	436-252

### Zone Valve Replacement Motor



- Replacement 24 Volt Class A Motors for Erie PopTop™ heating zone valves only

Description	Brand	Part Number
24 Volt 50/60 Hz Class A Motor	Erie	30-118-A
120 Volt 50/60 Hz Class A Motor	Erie	30-118-B



# Zone Valves and Parts (Johnson Controls)

## Electric On/Off Actuator (VA-7010 Series)



- Provides two position (open/close) control
- Can be field mounted with a threaded coupling onto VG5000 Series forged brass valves (1/2" to 1" Two-Way NC and Three-Way)
- AC Stall type motor
- Manual lever allows manual position mode for servicing
- Flat profile design with small side clearance
- Actuator can be mounted after valve body is installed
- Actuator can be rotated after mounting
- Power Consumption: 7 VA
- Enclosure: IP40, NEMA 1
- Ambient Operating Temperature: 2 to 50C (35 to 122F)

Supply Voltage (50/60 Hz)	Action	Minimum Force	Nominal Stroke	Nominal Full Stroke Time	Electrical Connections	Brand	Part Number
24 VAC, Class 2, ±10%	On/Off	20.0 lb	0.12", max 0.2"	On: 10 Seconds Off: 5 Seconds	18 AWG, 20" Wire Leads	Johnson Controls	VA-7010-8001
120 VAC, ±10%						Johnson Controls	VA-7010-8002

## Electric On/Off, Floating or Proportional Control Actuator (VA-7450 Series)



- Provides on/off, floating or proportional control in heating, ventilating and air conditioning applications
- Compact design makes it ideal for installations in confined locations such as fan coil applications
- Can easily be field mounted with a threaded coupling onto the VG4000 Series High Capacity/High Close Off Zone Valves or the VG5000 Series Electric Zone Valves
- Auto-Commissioning simplifies installation with no adjustments required in the field
- Auto shutoff actuator motor extends life
- Durable heat stabilized plastic resin enclosure allows the actuator to be used in applications with fluid temperatures up to 95C (203F)
- Tool free actuator mounting after the valve body is piped
- Operating Status LED
- Fluid Temperature Limits: 2 to 95C (35 to 203F)

Description	Input Signal	Power Requirements	Output Force	Stroke	Full Stroke Cycle Time	Electrical Connections	Brand	Part Number
On/Off or Floating Control	24 VAC	24 VAC ±15% @ 50/60 Hz, 5.0 VA @ Max Power Supply Class 2	21.5 lb Min	0.20" Max	65 Seconds	22 AWG Cable, 9.8' Long	Johnson Controls	VA-7450-10011
Proportional Control	0 to 10 VDC						Johnson Controls	VA-7452-90011

