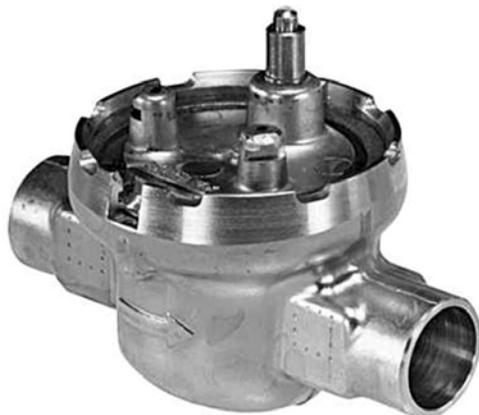


Zone Valves and Parts (Honeywell)

Zone Valves - Two Way Fan Coil



- Two-way Fan Coil Valve, the VU53 high pressure zone valves are used to control the flow of hot or chilled water in commercial HVAC equipment such as fan coil units, terminal reheat coils and convectors
- These valves are not for use in systems containing dissolved oxygen
- Compact construction for easy installation
- Fits under the cover of most baseboard convectors with actuator fitted to valve body
- VU52 and VU53 provide 2-way straight-through control of water
- 300 psi (2,000 kPa, PN20) operating pressure rating
- Patented ball seal provides long service life, soft close off
- Triple O-ring seal provides three lines of defense against corrosion and water leakage around drive shaft
- Quick opening flow curve
- Choice of NPT and connections for iron or steel piping

Valve Size		Flow Capacity		Dimensions A to B ports End to End		Dimensions Center Line of A & B port to end of AB port		Connection Type	Valve Action	Maximum Close-Off Pressure		Used With	Part Number
(inch)	DN	(Cv)	(Kv)	(inch)	(mm)	(inch)	(mm)			(psi)	(kPa)		
3/4"	DN20	8.0	7.0	3 3/8"	86 mm	1 11/16"	43	Female NPT	Normally Open	10 psi	69 kPa	VU444 Actuator & VU844 Actuator	VU52N1001
1/2"	DN15	3.5	3.0	2 3/4"	70 mm	1 3/8"	35	Female NPT	Normally Open	20 psi	138 kPa		VU52N1019
1/2"	DN15	1.0	0.9	2 3/4"	70 mm	1 3/8"	35 mm	Female NPT	Normally Open	50 psi	345 kPa		VU52N1027
1/2"	DN15	2.4	2.1	2 3/4"	70 mm	1 3/8"	35 mm	Female NPT	Normally Open	30 psi	207 kPa		VU52N1035
1/2"	DN15	1.0	0.9	2 5/8"	66 mm	1 5/16"	33 mm	Sweat	Normally Open	50 psi	345 kPa		VU52S2002
1/2"	DN15	2.4	2.1	2 5/8"	66 mm	1 5/16"	33 mm	Sweat	Normally Open	30 psi	207 kPa		VU52S2010
1/2"	DN15	3.5	3.0	2 5/8"	66 mm	1 5/16"	33 mm	Sweat	Normally Open	20 psi	138 kPa		VU52S2028
3/4"	DN20	3.5	3.0	2 3/4"	70 mm	1 3/8"	35 mm	Sweat	Normally Open	20 psi	138 kPa		VU52S2036
3/4"	DN20	5.0	4.3	2 3/4"	70 mm	1 3/8"	35 mm	Sweat	Normally Open	15 psi	103 kPa		VU52S2044
3/4"	DN20	8.0	7.0	2 3/4"	70 mm	1 3/8"	35 mm	Sweat	Normally Open	10 psi	69 kPa		VU52S2051
1/2"	DN15	3.5	3.0	2 3/4"	70 mm	1 3/8"	35 mm	Female NPT	Normally Closed	20 psi	138 kPa		VU53N1009
3/4"	DN20	8.0	7.0	3 3/8"	86 mm	1 11/16"	43 mm	Female NPT	Normally Closed	10 psi	69 kPa		VU53N1017
1"	DN25	8.0	7.0	-	-	-	-	Female NPT	Normally Closed	10 psi	69 kPa		VU53N1026
3/4"	DN20	3.5	3.0	3 3/8"	86 mm	1 11/16"	43 mm	Female NPT	Normally Closed	20 psi	138 kPa		VU53N1033
1/2"	DN15	1.0	0.9	2 3/4"	70 mm	1 3/8"	35 mm	Female NPT	Normally Closed	50 psi	345 kPa		VU53N1041
1/2"	DN15	2.4	2.1	-	-	-	-	Female NPT	Normally Closed	30 psi	207 kPa		VU53N1058
3/4"	DN20	5.0	4.3	3 3/8"	86 mm	1 11/16"	43 mm	Female NPT	Normally Closed	15 psi	103 kPa		VU53N1066
1"	DN25	8.0	7.0	3 3/8"	86 mm	1 11/16"	43 mm	Sweat	Normally Closed	10 psi	69 kPa		VU53S2000
1/2"	DN15	1.0	0.9	2 5/8"	66 mm	1 5/16"	33 mm	Sweat	Normally Closed	50 psi	345 kPa		VU53S2018
1/2"	DN15	2.4	2.1	2 5/8"	66 mm	1 5/16"	33 mm	Sweat	Normally Closed	30 psi	207 kPa		VU53S2026
1/2"	DN15	3.5	3.0	2 5/8"	66 mm	1 5/16"	33 mm	Sweat	Normally Closed	20 psi	138 kPa		VU53S2034
3/4"	DN20	3.5	3.0	2 3/4"	70 mm	1 3/8"	35 mm	Sweat	Normally Closed	20 psi	138 kPa		VU53S2042
3/4"	DN20	8.0	7.0	2 3/4"	70 mm	1 3/8"	35 mm	Sweat	Normally Closed	10 psi	69 kPa		VU53S2059
3/4"	DN20	5.0	4.3	2 3/4"	70 mm	1 3/8"	35 mm	Sweat	Normally Closed	15 psi	103 kPa		VU53S2075

Honeywell

Zone Valves and Parts (Honeywell)

Zone Valves - Three Way Fan Coil



- Three-way Fan Coil Valve, the VU54 high pressure zone valves are used to control the flow of hot or chilled water in commercial HVAC equipment such as fan coil units, terminal reheat coils and convectors
- These valves are not for use in systems containing dissolved oxygen
- Compact construction for easy installation
- Fits under the cover of most baseboard convectors with actuator fitted to valve body
- VU54 provides three-way diverting control of water
- 300 psi (2,000 kPa, PN20) operating pressure rating
- Patented ball seal provides long service life, soft close off
- Triple O-ring seal provides three lines of defense against corrosion and water leakage around drive shaft
- Quick opening flow curve
- Choice of NPT end connections for iron or steel piping

Valve Size		Flow Capacity		Dimensions A to B ports End to End		Dimensions Center Line of A & B port to end of AB port		Connection Type	Maximum Close-Off Pressure		Part Number
(inch)	DN	(Cv)	(Kv)	(inch)	(mm)	(inch)	(mm)		(psi)	(kPa)	
1/2"	DN15	4.0	3.4	2 3/4"	70 mm	1 3/8"	35 mm	Female NPT	20 psi	138 kPa	VU54N1007
3/4"	DN20	7.0	6.5	3 3/8"	86 mm	1 11/16"	43 mm	Female NPT	10 psi	69 kPa	VU54N1015
1"	DN25	7.0	6.5	-	-	-	-	Female NPT	10 psi	69 kPa	VU54N1023
3/4"	DN20	4.0	3.4	3 3/8"	86 mm	1 11/16"	43 mm	Female NPT	20 psi	138 kPa	VU54N1031
3/4"	DN20	5.0	4.3	3 3/8"	86 mm	1 11/16"	43 mm	Female NPT	15 psi	103 kPa	VU54N1049
1/2"	DN15	4.0	3.4	2 5/8"	66 mm	1 5/16"	33 mm	Sweat	20 psi	138 kPa	VU54S2008
3/4"	DN20	7.0	6.5	2 3/4"	70 mm	1 3/8"	35 mm	Sweat	10 psi	69 kPa	VU54S2016
1"	DN25	7.0	6.5	3 3/8"	86 mm	1 11/16"	43 mm	Sweat	10 psi	69 kPa	VU54S2024
1/2"	DN15	3.0	2.6	2 5/8"	66 mm	1 5/16"	33 mm	Sweat	25 psi	172 kPa	VU54S2040
3/4"	DN20	5.0	4.3	2 3/4"	70 mm	1 3/8"	35 mm	Sweat	15 psi	103 kPa	VU54S2057

Honeywell

Zone Valves and Parts (Honeywell)

Zone Valves - Fan Coil Actuators



- Used in conjunction with the VU52, VU53, and VU54 valves for controlling the flow of hot or chilled water in commercial HVAC equipment such as fan coil units, terminal reheat coils and convectors. These valves are humidity resistant and are suitable for use in condensing non-corrosive environments
- Compact construction for easy installation
- Fits under the cover of most baseboard convectors with actuator fitted to valve body
- One-button, quick release
- Secure 3-point, metal latch to valve body
- Spring return operation
- Stainless steel case and aluminum cover
- Rust-proof nickel-plated motors available
- Line or low voltage, rust-resistant motors
- Manual Opener for installation and valve operation on power failure
- Valve returns to automatic position when power is restored
- Actuator may be reinstalled or serviced without draining the system or disassembling the valve
- Slotted conduit hole for faster wiring

Honeywell

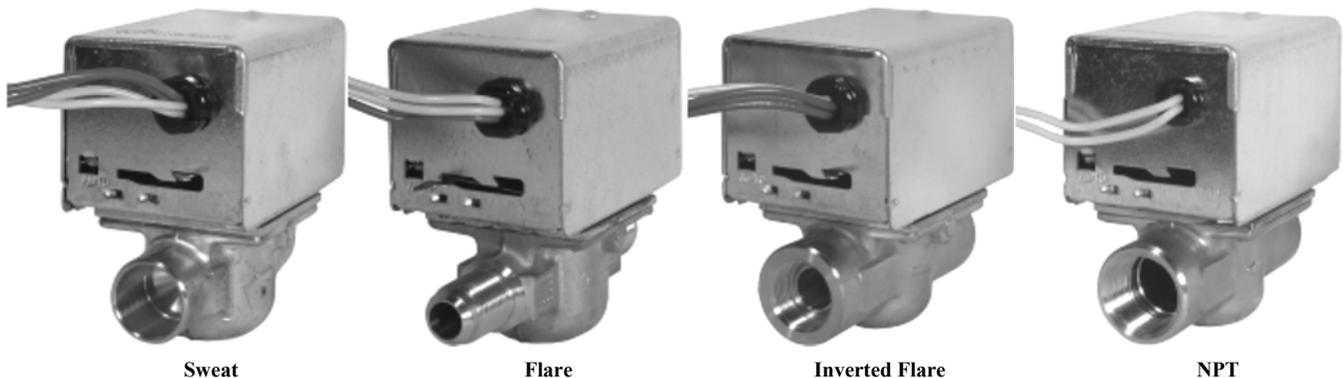
Control Signal	Timing (seconds)	Type of Internal Auxiliary Switch	Switch Ratings	Supply Voltage	Electrical Connection Length		Type of Internal Auxiliary Switch	Number of Internal Auxiliary Switch	Stroke (inch)	Spring Return Timing (Nominal) (sec)	Comments	Used With	Part Number
	Maximum Driving 60 Hz				(inch)	(m)							
Two position, SPST	15 sec	-	-	277V	18"	0.5 m	-	0	22 deg.	4 sec	For controlling the flow of hot or chilled water in commercial HVAC equipment Such as fan coil units, terminals reheat coils and convectors	2-way NC VU valve body (VU53)	VU443A1057
	15 sec	-	-	230V	6"	0.15 m	-	0	22 deg.	4 sec			VU443A1115
	15 sec	-	-	120V	6"	0.15 m	-	0	22 deg.	4 sec	Nickel plated motor for added humidity resistance. For controlling the flow of hot or chilled water in commercial HVAC equipment such as fan coil units, terminal reheat coils and convectors	2-way NC VU valve body (VU53)	VU443A1180
	15 sec	SPST, N.O.	1 A Pilot Duty	120V	18"	0.5 m	SPST N.O.	1	22 deg.	4 sec	For controlling the flow of hot or chilled water in commercial HVAC equipment such as fan coil units, terminal reheat coils and convectors; Aux Switch Rating - Inductive: 2.2 A from 5 to 110 Vac. 1.0 A from 110 to 277 Vac		VU443E1009
	15 sec	-	-	120V	6"	0.15 m	-	0	45 deg.	6 sec	For controlling the flow of hot or chilled water in commercial HVAC equipment such as fan coil units, terminal reheat coils and convectors	2-way NO (VU52) or 3-way VU valve body (VU54)	VU444A1007
	15 sec	-	-	227V	18"	0.5 m	-	0	45 deg.	6 sec			VU444A1098
	15 sec	-	-	230V	6"	0.15 m	-	0	45 deg.	6 sec			VU444A1155
	15 sec	-	-	120V	6"	0.15 m	-	0	45 deg.	6 sec	Nickel plated motor for added humidity resistance; For controlling the flow of hot or chilled water in commercial HVAC equipment such as fan coil units, terminal reheat coils and convectors	2-way NC VU Valve body (VU53)	VU843A1004
	15 sec	-	-	24V	6"	0.15 m	-	0	22 deg.	4 sec	For controlling the flow of hot or chilled water in commercial HVAC equipment such as fan coil units, terminal reheat coils and convectors		VU843A1004
	15 sec	-	-	24V	6"	0.15 m	-	0	22 deg.	4 sec	Nickel plated motor for added humidity resistance; For controlling the flow of hot or chilled water in commercial HVAC equipment such as fan coil units, terminal reheat coils and convectors	2-way NO (VU52) or 3-way VU valve body (VU54)	VU843A1087
	15 sec	-	-	24V	6"	0.15 m	-	0	45 deg.	6 sec	For controlling the flow of hot or chilled water in commercial HVAC equipment such as fan coil units, terminal reheat coils and convectors		VU844A1003
	15 sec	-	-	24V	6"	0.15 m	-	0	45 deg.	6 sec	Nickel plated motor for added humidity resistance; For controlling the flow of hot or chilled water in commercial HVAC equipment such as fan coil units, terminal reheat coils and convectors	VU844A1060	

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					
Normally Closed						
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
	Yes	(2) Straight 3/4" Sweat Adapters		Honeywell	V8043G1034	
	Yes			Honeywell	V8043G1133	
1/2"	Inverted Flare	No		Honeywell	V8043C1124	
		Yes		Honeywell	V8043G1125	
Normally Open						
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
3/4"	NPT	125 psi	No		Honeywell	V8043D1031



Sweat

Flare

Inverted Flare

NPT

Honeywell

Zone Valves and Parts (Honeywell)

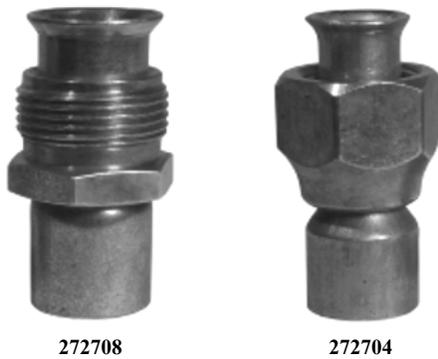
Zone Valves - Three Way Diverting



- 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				
Normally Closed Sweat - 24 Volt					
3/4"	Sweat	125 psi	Yes	Honeywell	V8044E1011
Normally Closed Flare - 120 Volt					
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)

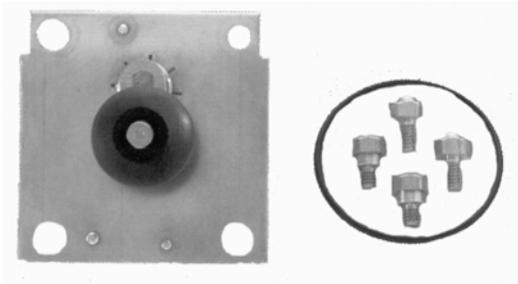
Zone Valves Replacement O Rings



- Replacement O Rings for V8043/V8044 zone valves

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

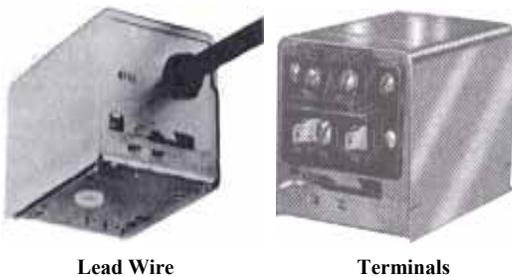
Zone Valves Powerhead Conversion Kit



- 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	40003918002

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)

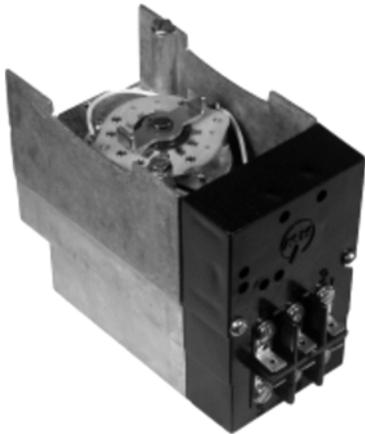
Zone Valves - Full Port - High Flow



- 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		
3 Wire, 24V w/screw terminal wiring panel and auxiliary switch						
3/4"	45 seconds	45 seconds	23.5	2 1/2	White Rodgers	1311-102
1"	45 seconds	45 seconds	37.0	4	White Rodgers	1311-103
1 1/4"	45 seconds	45 seconds	42.2	7	White Rodgers	1311-104
2 Wire, 24V w/screw terminal wiring panel and auxiliary switch						
3/4"	45 seconds	60 seconds	23.5	2 1/2	White Rodgers	1361-102
1"	45 seconds	60 seconds	37.0	4	White Rodgers	1361-103
1 1/4"	45 seconds	60 seconds	42.2	7	White Rodgers	1361-104

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	F19-0097
1361-102, 1361-103 and 1361-104	White Rodgers	F19-0104

Zone Valves Assemblies



- Fits both 1311 and 1361 series valves

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



Zone Valves and Parts (Caleffi)

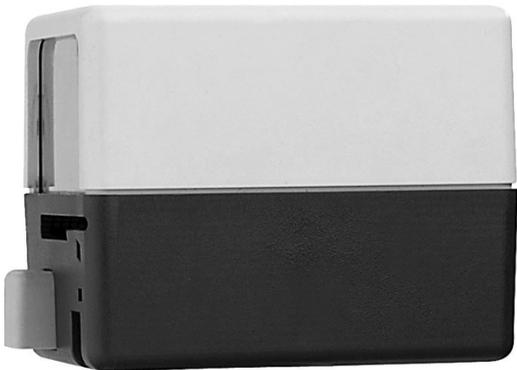
Z1 Normally Closed Motorized Zone Valve



- Z1 NC Actuator fits on Z2 and Z3 series valve bodies with the push of a button
- Two position spring return normally closed
- 7/8 knockout for 1/2" conduit connector
- Power: 24, 120, 208, 230, 277 VAC
- Power Consumption: 5W, 7 VA
- Conduct connector size: 1/2"
- Rating of auxiliary switch contacts: 24 VAC: 0.0 A min, 0.4 A max (24 V). 120-277 VAC: 0.25 A min, 5.0 A max (250 V)
- UL873, cULus Listed & CE
- UL 1995 sec 18 air plenums and ducts
- US Patent 7,048,251

Description	Brand	Part Number
24V with micro-switch 18" wire	Caleffi	Z111000
24V without micro-switch 18" wire	Caleffi	Z121000
24V w/micro-switch terminal block	Caleffi	Z151000

Z1 Normally Open Motorized Zone Valve



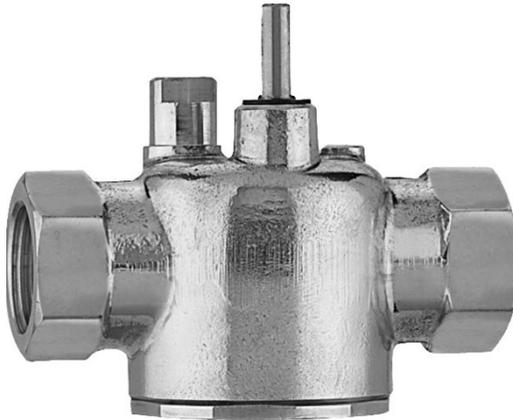
- Z1 NO actuator fits on Z2 series valve bodies with the push of a button
- Two position spring return normally opened
- 7/8 knockout for 1/2" conduit connector
- Power: 24, 120, 208, 230, 277 VAC
- Power Consumption: 5W, 7 VA
- Conduct connector size: 1/2"
- Rating of auxiliary switch contacts: 24 VAC: 0.0 A min, 0.4 A max (24 V). 120-277 VAC: 0.25 A min, 5.0 A max (250 V)
- UL873, cULus Listed & CE
- UL 1995 sec 18 air plenums and ducts
- US Patent 7,048,251

Description	Brand	Part Number
24V with micro-switch 18" wire	Caleffi	Z131000
24V without micro-switch 18" wire	Caleffi	Z141000

 **CALEFFI**
Hydronic Solutions

Zone Valves and Parts (Caleffi)

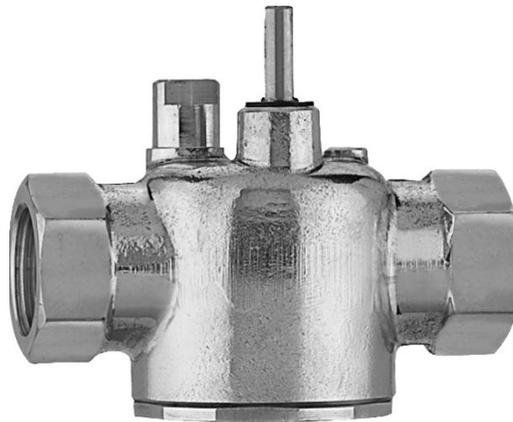
2-way Straight Valve Body for Motorized Zone Valves



- Two-way on/off two position valve
- Straight through flow pattern
- Brass body, stainless steel stem
- EPDM Rubber seals and paddle
- Max. working pressure: 300 psi
- Max temperature: 240°F

Description	Cv	Δ P	Brand	Part Number
1/2" NPT	3.5	30 psi	Caleffi	Z200413
1/2" sweat - Low lead brass body	3.5	30 psi	Caleffi	Z207433
Inverted Flare	3.5	30 psi	Caleffi	Z200043
3/4" NPT	7.5	20 psi	Caleffi	Z200517
3/4" sweat - Low lead brass body	3.5	30 psi	Caleffi	Z200533
3/4" sweat - Low lead brass body	7.5	20 psi	Caleffi	Z200537
1" NPT	7.5	20 psi	Caleffi	Z200617
1" sweat	7.5	20 psi	Caleffi	Z200637

3-way Straight Valve Body for Motorized Zone Valves



- Three-way on/off two position valve
- Diverting flow pattern
- Brass body
- Stainless steel stem
- EPDM Rubber seals and paddle
- Max. working pressure: 300 psi
- Max temperature: 240°F

Description	Cv	Δ P	Brand	Part Number
1/2" NPT	3.5	30 psi	Caleffi	Z300413
1/2" sweat - Low lead brass body	3.5	30 psi	Caleffi	Z307433
Inverted flare	3.5	30 psi	Caleffi	Z300043
3/4" NPT	7.5	20 psi	Caleffi	Z300517
3/4" sweat	3.5	30 psi	Caleffi	Z300533
3/4" sweat - Low lead brass body	7.5	20 psi	Caleffi	Z307537
1" NPT	7.5	20 psi	Caleffi	Z300617
1" sweat	7.5	20 psi	Caleffi	Z300637

Repair Kit - 2-way and 3-way Zone Valve Body



- Two-way and three-way zone valve body repair kit
- Includes valve stem paddle with o-rings, c clip, one bottom cap o-ring

Description	Brand	Part Number
For all 1/2" & 3/4" sweat Z2, Z3 valves	Caleffi	69293A
For all 3/4" NPT and all 1" Z2, Z3 valves	Caleffi	69294A

CALEFFI
Hydronic Solutions

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
2 Way				
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
Normally Open 2 Way Only				
On/Off	24 Vac	18" Leads	Erie	AG23A020
On/Off	24 Vac	18" Leads, End Switch	Erie	AG23A02A

PopTop™ 2 Position Zone Valve Bodies



2 Way
Sweat



2 Way
NPT



2 Way
Inverted



3 Way
Sweat



3 Way
Inverted Flare

- 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				
2 Way					
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	7.5	17 psi	20 psi	Erie	VT2417
1" NPT	8.0	17 psi	20 psi	Erie	VT2427
3 Way (For Diverting)					
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 (Caleffi & Erie)

Fittings For Inverted Flare PopTop™ 2 Position Zone Valve Bodies



436-252



NA10005

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

Description	Brand	Part Number
1/2" inverted flare sweat adaptor fits Z40, Z50, and inverted flare valve body	Caleffi	NA10005
Union Nut & Coupling Assembly Female, for 1/2" (5/8" O.D.) copper, 1 1/16" long	Erie	436-220
3/4" sweat inverted flare sweat adaptor fits Z40, Z50, and inverted flare valve body	Caleffi	NA10006
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



Zone Valves and Parts (Siemens)

Zone Valve Actuators - 2 Position - Spring Return



- Electronic valve actuators for use in heating and cooling HVAC applications with Zone Valves
- Works with Zone Valves with 1/10" stroke
- Direct coupled installation without tools
- Manual override with auto unlock
- Visual position indication
- NEMA 1 indoor only
- Running Time: 10 Seconds
- Nominal Stroke: 1/10"
- Nominal Force: SFA: 31.5 lb / SFP: 28lb

Type	Voltage	Action	Prefix Code	Brand	Part Number
Two Position	120 Vac	Normally Closed	240	Siemens	SFA11U
		Normally Open	241	Siemens	SFP11U
	24 Vac	Normally Closed	242	Siemens	SFA71U
		Normally Open	243	Siemens	SFP71U

Zone Valve Actuators - Floating/Modulating - Non-Spring Return



- Electronic valve actuators for use in heating and cooling HVAC applications with Zone Valves
- Works with Zone Valves with 1/10" stroke and a threaded valve bonnet that fits the actuator
- Direct coupled installation without tools
- Manual override with hex wrench
- Visual position indication
- NEMA 1 indoor only
- Running Time: SSA61, SSP61: 34 Seconds / SSA81: 150 Seconds
- Nominal Stroke: 1/10"
- Nominal Force: 36lb

Type	Voltage	Action	Prefix Code	Brand	Part Number
Floating	24 Vac	Normally Closed	244	Siemens	SSA81U
Modulating 0-10 Vdc		Normally Closed	245	Siemens	SSA61U
Modulating 0-10 Vdc		Normally Open	248	Siemens	SSP61U

Zone Valve Bodies - Two & Three Way



- For zone control of radiators, floor heating via manifolds, fan coil units, cooling ceilings, wall mounted boilers and VAV applications
- 1/10" Stroke, high close-offs
- All metal plug and seat, linear flow
- Direct coupled universal bonnet - install actuators without tools
- Use with SFA/SFP, SSA/SSP, or STA/STP series actuators

Nominal Valve Size	Flow Rate	Brand	Part Number	
			NPT	Sweat
Two Way Valve Bodies				
1/2"	2.5 Cv	Siemens	599-00211	599-00511
3/4"	4.1 Cv	Siemens	599-00212	599-00512
1"	7.0 Cv	Siemens	599-00213	599-00513
Three Way Valve Bodies				
1/2"	2.5 Cv	Siemens	599-00231	599-00531
3/4"	4.1 Cv	Siemens	599-00232	599-00532
1"	7.0 Cv	Siemens	599-00233	599-00533

SIEMENS

