

PopTop™ 2-Position Zone Valves

Erie's line of motorized hydronic valves, the PopTop, provides convenient, reliable, and easy installation for a variety of heating and cooling applications. The PopTop makes installation a snap with easy, one-handed removal or engagement of the actuator to the valve body.



- Features:**
- Brass forged 300 psig rated body
 - Meets or exceeds ANSI IV standard for close off
 - Wide variety of Cv's for better control
 - 2-way and 3-way

POPTOP VALVE BODIES

PopTop valves are designed for two position (on/off) control of fluid flow in a wide variety of heating and cooling applications.

2-way		
Model	Connection	Cv
VT2211	1/2" Sweat	1.0
VT2212		2.5
VT2213		3.5
VT2221	1/2" NPT	1.0
VT2222		2.5
VT2223		3.5
VT2312	3/4" Sweat	2.5
VT2313		3.5
VT2315		5.0
VT2317		7.5
VT2322	3/4" NPT	2.5
VT2323		3.5
VT2325		5.0
VT2327		7.5
VT2413	1" Sweat	3.5
VT2415		5.0
VT2417		7.5
VT2427	1" NPT	8.0
VT2517	1-1/4" Sweat	8.0
VT2341	3/4" Inverted flare	1.0
VT2342		2.5
VT2343		3.5

3-way		
Model	Connection	Cv
VT3211	1/2" Sweat	1.5
VT3212		3.0
VT3213		4.0
VT3221	1/2" NPT	1.5
VT3222		3.0
VT3223		4.0
VT3312	3/4" Sweat	3.0
VT3313		4.0
VT3315		5.0
VT3317		7.5
VT3322	3/4" NPT	3.0
VT3323		4.0
VT3325		5.0
VT3327		7.5
VT3413	1" Sweat	4.0
VT3415		5.0
VT3417		7.5
VT3427	1" NPT	8.0
VT3517	1-1/4" Sweat	8.0
VT3341	3/4" Inverted flare	1.5
VT3342		3.0
VT3343		4.0

Options
VSxxxx

Steam - High Temperature
Must be used with High
Temperature Actuator

PopTop™ 2-Position Actuators

The following tables contain a complete listing of Erie 2-Position actuator combinations for 24 and 120 Vac. The same combinations are available for 208 Vac (D designator) and 230 Vac (U designator). The end switch option, (designated by the A at the end of the part #) is not available in the combination of 277 Vac with high temperature.



Features:

- Sized to fit most baseboard applications.
- Terminal block option.
- UL Listed



Features:

- Offers same great features of the General Close-off actuator plus up to 25% more close-off pressure rating.
- Close-off up to 75 psi.
- UL Listed

GENERAL CLOSE-OFF (GCO) ACTUATORS

2-way			
Model	Action	Voltage	Options
AG13A020	On/Off	24 Vac	18" leads
AG13A01A	On/Off	24 Vac	Terminal block, end switch
AG13A02A	On/Off	24 Vac	18" leads, end switch
AG14A020	On/Off	24 Vac	Steam, 18" leads
AG14A00A	On/Off	24 Vac	Steam, end switch
AG14A02A	On/Off	24 Vac	Steam, 18" leads, end switch
AG13B020	On/Off	120 Vac	18" leads
AG13B02A	On/Off	120 Vac	18" leads, end switch
AG14B020	On/Off	120 Vac	Steam, end switch
AG14B02A	On/Off	120 Vac	Steam, 18" leads, end switch

Normally Open Actuators 2-way only

Model	Action	Voltage	Options
AG23A020	On/Off	24 Vac	18" leads
AG23A01A	On/Off	24 Vac	Terminal block, end switch
AG23A02A	On/Off	24 Vac	18" leads, end switch
AG24A020	On/Off	24 Vac	Steam, 18" leads
AG24A02A	On/Off	24 Vac	Steam, 18" leads, end switch
AG23B020	On/Off	120 Vac	18" leads
AG23B02A	On/Off	120 Vac	18" leads, end switch
AG24B020	On/Off	120 Vac	Steam, end switch
AG24B00A	On/Off	120 Vac	Steam, terminal block, end switch
AG24B02A	On/Off	120 Vac	Steam, 18" leads, end switch

HIGH CLOSE-OFF (HCO) ACTUATORS

2-way			
Model	Action	Voltage	Options
AH13A020	On/Off	24 Vac	18" leads
AH13A01A	On/Off	24 Vac	Terminal block, end switch
AH13A02A	On/Off	24 Vac	18" leads, end switch
AH14A020	On/Off	24 Vac	Steam, 18" leads
AH14A00A	On/Off	24 Vac	Steam, end switch
AH14A02A	On/Off	24 Vac	Steam, 18" leads, end switch
AH13B020	On/Off	120 Vac	18" leads
AH13B02A	On/Off	120 Vac	18" leads, end switch
AH14B020	On/Off	120 Vac	Steam, end switch
AH14B02A	On/Off	120 Vac	Steam, 18" leads, end switch

Normally Open Actuators 2-way only

Model	Action	Voltage	Options
AH23A020	On/Off	24 Vac	18" leads
AH23A01A	On/Off	24 Vac	Terminal block, end switch
AH23A02A	On/Off	24 Vac	18" leads, end switch
AH24A020	On/Off	24 Vac	Steam, 18" leads
AH24A02A	On/Off	24 Vac	Steam, 18" leads, end switch
AH23B020	On/Off	120 Vac	18" leads
AH23B02A	On/Off	120 Vac	18" leads, end switch
AH24B020	On/Off	120 Vac	Steam, end switch
AH24B00A	On/Off	120 Vac	Steam, terminal block, end switch
AH24B02A	On/Off	120 Vac	Steam, 18" leads, end switch

PopTop™ 2-Position Zone Valve Assemblies

2-way normally open and additional combinations are also available, see bulletin F-26496.



Features:

- Factory assembled valve and actuator combinations.
- Quicker installation time and easier maintenance
- UL Listed



Features:

- Offers the same great features as the General Close-Off assemblies, plus up to 25% more close-off psi.
- UL Listed

GENERAL CLOSE-OFF (GCO) ASSEMBLIES

2-way Normally Closed GCO			
Model	Action	Cv	Close-off psig p
VT2211G13_020	1/2" Sweat	1.0	60
VT2212G13_020		2.5	40
VT2213G13_020		3.5	25
VT2221G13_020	1/2" NPT	1.0	60
VT2222G13_020		2.5	40
VT2223G13_020		3.5	25
VT2312G13_020	3/4" Sweat	2.5	40
VT2313G13_020		3.5	25
VT2315G13_020		5.0	20
VT2317G13_020		7.5	17
VT2322G13_020	3/4" NPT	2.5	40
VT2323G13_020		3.5	25
VT2325G13_020		5.0	20
VT2327G13_020		7.5	17
VT2415G13_020	1" Sweat	5.0	20
VT2417G13_020		7.5	17
VT2427G13_020	1" NPT	8.0	17
VT2517G13_020	1-1/4" Sweat	8.0	17
VT2343G13_020	3/4" Inverted Flare	3.5	25

3-way Valve Assemblies ^a GCO			
Model	Action	Cv	Close-off psig p
VT3211G13_020	1/2" Sweat	1.5	60
VT3212G13_020		3.0	40
VT3213G13_020		4.0	25
VT3221G13_020	1/2" NPT	1.5	60
VT3222G13_020		3.0	40
VT3223G13_020		4.0	25
VT3312G13_020	3/4" Sweat	3.0	40
VT3313G13_020		4.0	25
VT3315G13_020		5.0	20
VT3317G13_020		7.5	17
VT3322G13_020	3/4" NPT	3.0	40
VT3323G13_020		4.0	25
VT3325G13_020		5.0	20
VT3327G13_020		7.5	17
VT3415G13_020	1" Sweat	5.0	20
VT3417G13_020		7.5	17
VT3427G13_020	1" NPT	8.0	17
VT3517G13_020	1-1/4" Sweat	8.0	17
VT3343G13_020	3/4" Inverted Flare	4.0	25

Options

VTxxxxx3_020

200°F Max Hot Water Application
Select AC Voltage

A-24, B-120, D-208, U-230, T-277

250°F Max Hot Water Application
or 15 PSI Max Steam Application
A High Temperature Actuator Must Be
Used with VSXXXX

VSxxxxx4_020

HIGH CLOSE-OFF (HCO) ASSEMBLIES

2-way Normally Closed HCO			
Model	Action	Cv	Close-off psig p
VT2211H13_020	1/2" Sweat	1.0	75
VT2212H13_020		2.5	50
VT2213H13_020		3.5	30
VT2221H13_020	1/2" NPT	1.0	75
VT2222H13_020		2.5	50
VT2223H13_020		3.5	30
VT2312H13_020	3/4" Sweat	2.5	50
VT2313H13_020		3.5	30
VT2315H13_020		5.0	25
VT2317H13_020		7.5	20
VT2322H13_020	3/4" NPT	2.5	50
VT2323H13_020		3.5	30
VT2325H13_020		5.0	25
VT2327H13_020		7.5	20
VT2415H13_020	1" Sweat	5.0	25
VT2417H13_020		7.5	20
VT2427H13_020	1" NPT	8.0	20
VT2517H13_020	1-1/4" Sweat	8.0	20
VT2343H13_020	3/4" Inverted Flare	3.5	30

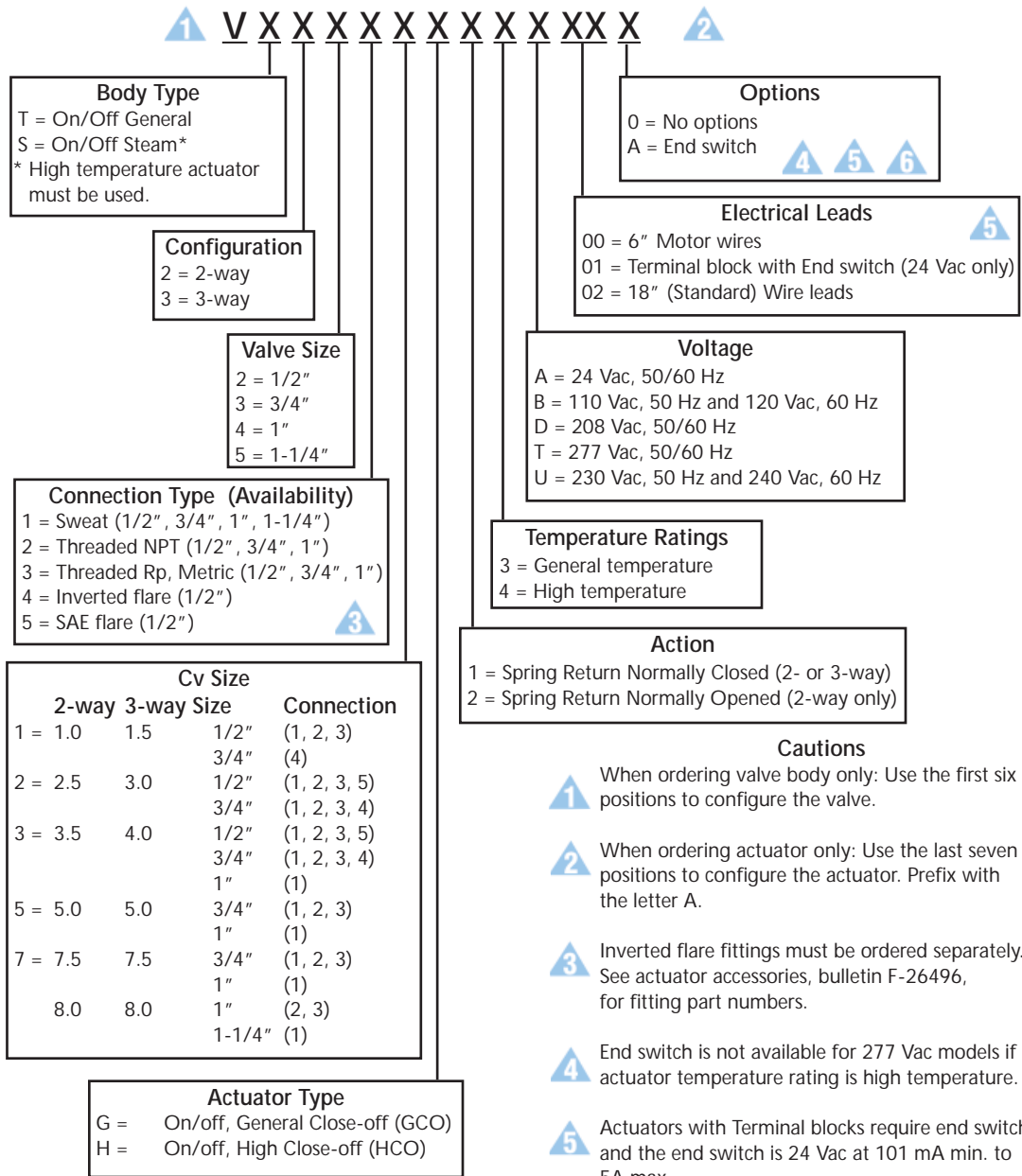
3-way Valve Assemblies ^a HCO			
Model	Action	Cv	Close-off psig p
VT3211H13_020	1/2" Sweat	1.5	75
VT3212H13_020		3.0	50
VT3213H13_020		4.0	30
VT3221H13_020	1/2" NPT	1.5	75
VT3222H13_020		3.0	50
VT3223H13_020		4.0	30
VT3312H13_020	3/4" Sweat	3.0	50
VT3313H13_020		4.0	30
VT3315H13_020		5.0	25
VT3317H13_020		7.5	20
VT3322H13_020	3/4" NPT	3.0	50
VT3323H13_020		4.0	30
VT3325H13_020		5.0	25
VT3327H13_020		7.5	20
VT3415H13_020	1" Sweat	5.0	25
VT3417H13_020		7.5	20
VT3427H13_020	1" NPT	8.0	20
VT3517H13_020	1-1/4" Sweat	8.0	20
VT3343H13_020	3/4" Inverted Flare	4.0	30

a — Normally closed to B-port

Options

- Normally Closed Option is available with 2- or 3-way assemblies
- Normally Open option is available with 2-way assemblies only

Part Numbering System
TWO POSITION ZONE VALVES, SPRING RETURN ACTUATORS



- Cautions**
- 1** When ordering valve body only: Use the first six positions to configure the valve.
 - 2** When ordering actuator only: Use the last seven positions to configure the actuator. Prefix with the letter A.
 - 3** Inverted flare fittings must be ordered separately. See actuator accessories, bulletin F-26496, for fitting part numbers.
 - 4** End switch is not available for 277 Vac models if actuator temperature rating is high temperature.
 - 5** Actuators with Terminal blocks require end switch and the end switch is 24 Vac at 101 mA min. to 5A max.
 - 6** End switch is 24 - 240 Vac at 101 mA min to 5A max. and 9 to 30- Vdc at 100 mA max. for actuators rated 240 V or less. End switch is 277 Vac at 101 mA min. to 5A max. for actuators rated 277V.

Body and Actuator Combination: Temperature Configurations	
<p>Body Configuration VTXXXX T = General S = Steam If body configuration is T, actuator temp rating can be 3 or 4. If body configuration is S, actuator temp rating must be 4.</p>	<p>Actuator Spring Return Mode AXX3XXXX 3 = General temperature 4 = High temperature If actuator temp rating is 3, body style must be T. If actuator temp rating is 4, body style can be S or T.</p>