



ZONE VALVES AND CONTROLS





PRODUCT FEATURES

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Installer friendly:

Ample room for terminations, large screw terminals, automatic resettable fuse, snap-in transformers.

Application versatility:

3 selectable 120 VAC auxiliary switches for enabling pumps and boilers, dedicated pump outputs, unlimited zone expansion.

Universal compatibility:

Compatible with 2, 3 and 4 wire zone valves and thermostats. Configurable pump logic.

Z-ONE™ MOTORIZED ZONE VALVES

Extremely reliable design:

Clutch-protected drive train, durable synchronous motor. Millions installed in North America.

Easy to install and service:

Compact design with snap-on actuator with a convenient in-line push button. Removable bottom cap allows for easy in-pipe service.

Application versatility:

Hot water, chilled water and low-pressure steam.

Dependable Z-one valves and controls

Whether zoning with pumps, valves or both, Caleffi's Z-one™ controls are versatile enough for one to unlimited number of zones.

PRODUCT RANGE - ZSR SINGLE-ZONE AND MULTI-ZONE PUMP CONTROLS



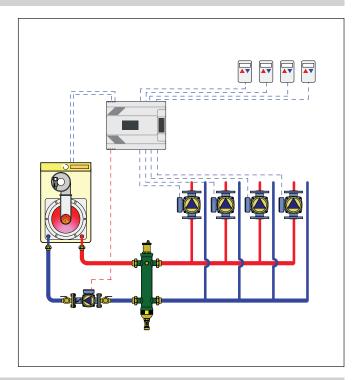
| ZONES | CODE |
|-------|----------------|
| 1 | ZSR 101 |
| 3 | ZSR 103 |
| 4 | ZSR 104 |
| 6 | ZSR 106 |
| | |



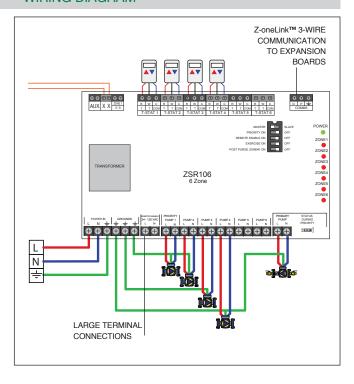


Certified to CSA C22-2 No.24 Conforms to UL Standard 873

APPLICATION DIAGRAM



WIRING DIAGRAM



PERFORMANCE

| POWER SUPPLY | 120 VAC, 50/50 Hz |
|---|----------------------|
| TRANSFORMER VOLTAGE | 24 VAC |
| MAY TRANSFORMED LOAD | 12 VA (ZSR103/104) |
| MAX. TRANSFORMER LOAD | 20 VA (ZSR106) |
| ELECTRICAL SWITCH RATING | 20 A max combined |
| ELECTRICAL SWITCH RATING PUMP OUTPUT | 120 VAC, 5A each |
| DRY CONTACT RATING, AUX, XX, ZONE1 E/S | 120 VAC max, 2A each |

Multi-Zone Pump Control

- 3. 4 and 6 zone controls
- 1 primary pump output and 3 to 6 (model dependent) zone pump outputs (120 VAC/5A each)
- 3 dry contacts for enabling boilers and pumps
- Unlimited board expandability using Z-oneLink[™] communications Each output individually fused. 2 extra fuses included.
- Selectable with DIP switches:
 - Priority (1 hour timeout)
 - Pump exercise
 - Post purge Zone #1 (after priority demand)
 - Remote Enable
 - Status of primary pump during priority
- Twelve 1/2" electrical knockouts
- Bright LED functional lights on front cover
- Multiple ground screws, eliminates wire nuts
- 3 year warranty

Single-Zone Pump Control

- 2 independent outputs
- Mounts to 4" x 4" junction box
- Rear wiring access

PRODUCT RANGE - ZVR MULTI-ZONE VALVE CONTROLS



| ZONES | CODE |
|-------|----------------|
| 3 | ZVR 103 |
| 4 | ZVR 104 |
| 6 | ZVR 106 |
| | |





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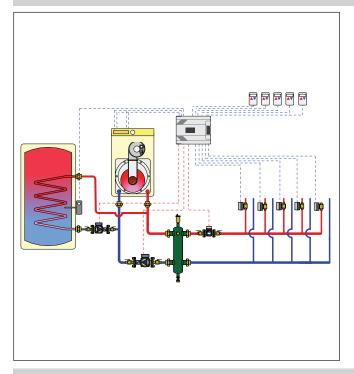
PERFORMANCE

| POWER SUPPLY | 120 VAC, 50/50 Hz |
|---|----------------------|
| TRANSFORMER VOLTAGE | 24 VAC |
| MAX. TRANSFORMER LOAD | 40 VA (ZVR103/104) |
| MAX. TRANSFORMER LOAD | 80 VA (ZVR106) |
| ELECTRICAL SWITCH RATING | 20 A max combined |
| ELECTRICAL SWITCH RATING PUMP OUTPUT | 120 VAC, 5A each |
| DRY CONTACT RATING, AUX, XX, ZONE1 E/S | 120 VAC max, 2A each |

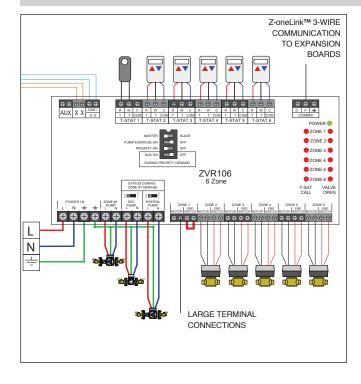
Multi-Zone Valve Control

- 3, 4 and 6 zone (thermostat and valve) controls
- 3 pump outputs (120 VAC/5A each)
- 3 to 6 zone valve outputs (24 V)
- 3 dry contacts for enabling boilers and pumps
- Unlimited board expandability using Z-oneLink™ communications
- Automatically resettable fuse on 24 V circuit
- Selectable with DIP switches:
 - Priority (1 hour timeout)
 - Pump exercise
 - Status of system pump during Zone #1 call
- Twelve 1/2" electrical knockouts
- Bright LED functional lights on front cover
- Multiple ground screws, eliminates wire nuts
- 3 year warranty
- 5 year warranty when installed with Caleffi Z-one[™] motorized zone valves

APPLICATION DIAGRAM



WIRING DIAGRAM



Z4 SERIES Z-ONE™ WIRE LEADS

| CODE | DESCRIPTION | Cv | ΔΡ |
|-----------------|----------------|-----|--------|
| Z4 0 | Inverted flare | 3.5 | 30 psi |
| Z4 0F* | 34" inv flare | 3.5 | 30 psi |
| Z4 2 | ½" SAE flare | 3.5 | 30 psi |
| Z4 4 | ½" sweat | 2.5 | 50 psi |
| Z4 4P | ½" press | 3.5 | 30 psi |
| Z4 5 | ¾" sweat | 7.5 | 20 psi |
| Z4 5P | ¾" press | 7.5 | 20 psi |
| Z4 5PL** | ¾" press | 7.5 | 20 psi |
| Z4 6 | 1" sweat | 7.5 | 20 psi |
| Z4 6P | 1" press | 7.5 | 20 psi |
| Z4 7 | 11/4" sweat | 7.5 | 20 psi |

^{*}Two ¾" sweat fittings (NA10006) included.

Z5 SERIES Z-ONE™ TERMINAL BLOCKS



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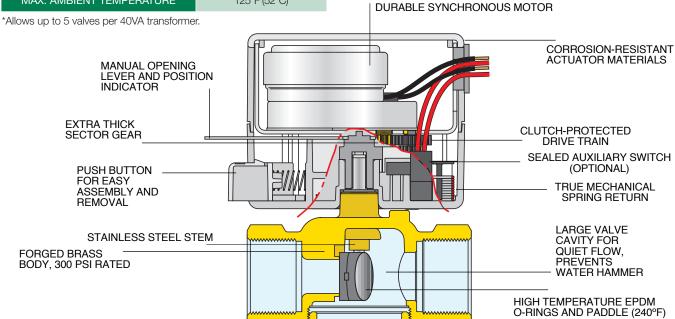
PERFORMANCE

| WORKING TEMPERATURE RANGE | 32 — 240°F (0-115°C) |
|---------------------------|----------------------|
| MAX. PERCENTAGE OF GLYCOL | 50% |
| POWER SUPPLY | 24 V AC |
| POWER CONSUMPTION | 5 W, 7VA* |
| MAX. AMBIENT TEMPERATURE | 125°F (52°C) |



US Patent 7,048,251

CONSTRUCTION



Caleffi Partner:

REMOVABLE CAP SERVICEABLE IN-PIPE



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Subject to changes without notice.

^{**}One extra long press fitting for retrofit.

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