



1311-102

1300 SERIES HYDRONIC ZONE VALVES

1300 Series valves for zoning systems up to 50 PSI operate quietly and efficiently providing years of reliable service.

FEATURES

- Self-aligning barrel-type valve stem design
- Made of a corrosion-resistant stainless steel
- Motor can be removed from valve assembly without draining system
- Built-in auxiliary contacts to control burner or circulator relay
- Automatic recycling manual operator shows valve position at all times
- Screw terminal wiring panel for added convenience

SPECIFICATIONS

Electrical Ratings	24 VAC
.....	1311 - 0.4A
.....	1361 - 0.2A
.....	Aux Switch - 2.0A

3-WIRE, 24V VALVES WITH SCREW TERMINAL WIRING PANEL AND AUXILIARY SWITCH

(See table at bottom for compatible thermostats)

TUBING SIZE (I.D.)	24 VAC THERMOSTAT CIRCUIT RATING	TIME CYCLE	MAXIMUM DIFFERENTIAL ACROSS VALVE	MAXIMUM WATER TEMP.	MAXIMUM SYSTEM PRESSURE	FLOW CAPACITY CV	FRICTION LOSS EQUIVALENTS FT. OF TUBING	MODEL NUMBER	ITEM NUMBER
3/4"	0.4A ①	Open: 45 seconds Close: 45 seconds	15 PSI	240°F (116°C)	50 PSI	23.5 ③	2.5	1311-102	13 11 102S1
1"	0.4A ①	Open: 45 seconds Close: 45 seconds	15 PSI	240°F (116°C)	50 PSI	37.0 ③	3.5	1311-103	13 11 103S1
1-1/4"	0.4A ①	Open: 45 seconds Close: 45 seconds	15 PSI	240°F (116°C)	50 PSI	42.2 ③	6.5	1311-104	13 11 104S1

2-WIRE, 24V VALVES WITH SCREW TERMINAL WIRING PANEL AND AUXILIARY SWITCH

TUBING SIZE (I.D.)	24 VAC THERMOSTAT CIRCUIT RATING	TIME CYCLE	MAXIMUM DIFFERENTIAL ACROSS VALVE	MAXIMUM WATER TEMP.	MAXIMUM SYSTEM PRESSURE	FLOW CAPACITY CV	FRICTION LOSS EQUIVALENTS FT. OF TUBING	MODEL NUMBER	ITEM NUMBER
3/4"	0.2A ②	Open: 45 seconds Close: 60 seconds	15 PSI	240°F (116°C)	50 PSI	23.5 ③	2.5	1361-102	13 61 102S1
1"	0.2A ②	Open: 45 seconds Close: 60 seconds	15 PSI	240°F (116°C)	50 PSI	37.0 ③	3.5	1361-103	13 61 103S1
1-1/4"	0.2A ②	Open: 45 seconds Close: 60 seconds	15 PSI	240°F (116°C)	50 PSI	42.2 ③	6.5	1361-104	13 61 104S1

① Valve current is 0.4A only during opening or closing. For proper anticipation, select thermostat designed for use with a 3-wire zone valve.

② Valve current is 0.52A when opening but 0.2A when fully open: therefore set anticipator for 0.2A.

③ GPM @ 1 PSI drop.

1311 COMPATIBLE THERMOSTATS TABLE

MECHANICAL/ DIGITAL	MODEL NUMBER	ITEM NUMBER	UPGRADE MODEL NUMBER	UPGRADE ITEM NUMBER	MECHANICAL/ DIGITAL
Mechanical	1E56N-444	1E56N-444	1F95-0671	1F95-0671	Premium Digital
Mechanical	1F56N-444	1F56N-444	1F95-0680	1F95-0680	Premium Digital
Digital	1F85U-22NP	1F85U-22NP	1F95-1280	1F95-1280	Premium Digital
Digital	1F85U-22PR	1F85U-22PR	1F95-1291	1F95-1291	Premium Digital
Digital	1F85U-42NP	1F85U-42NP	1F95EZ-0671	1F95EZ-0671	Premium Digital
Digital	1F85U-42PR	1F85U-42PR	1F97-1277	01F97 1277	Premium Digital