

Low Water Cut-Offs – Electronic Combination Low Water Cut-Off/Pump Controllers for Steam Boilers

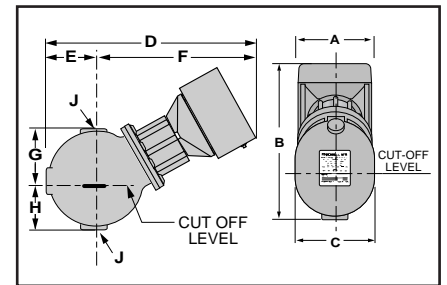
Series 150E NEW



- Primary and secondary low water fuel cut-off protection and pump control for commercial and industrial steam boilers
- Motorized valve controller, low water cut-off, high water cut-off, and alarm actuators for boilers, vessels and tanks
- Set points and differentials remain constant throughout pressure range
- Diagnostic features incorporated in the control include:
 - High ambient temperature protection
 - Internal LEDs that indicate water position and condition
 - External LEDs that indicate control activity
- Replacement head assemblies available for Model 150 and 150S Series upgrade
- Control unit can be mounted remotely from probes
- Adjustable 60-second burner-off time delays
- Adjustable 3/4" or 1-3/16" pump differentials
- 1 HP burner and pump relays
- NEMA 1 enclosure
- Maximum ambient temperature 135°F (57°C)
- Maximum operating pressure 150 psi (10.5 kg/cm²)
- Maximum operating temperature 366°F (185°C) at probes
- Manual reset models meet the requirements of **ASME Standard CSD-1**. If the control is in a low water condition when there is an interruption of power, the control will remain in a low water condition when power is restored. The reset button will need to be pressed when the water level is restored to a level above the probe to allow the burner to fire.



Series 150E



Series 150E Dimensions, in. (mm)

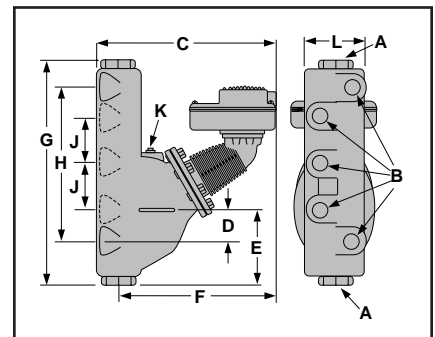
| A | B | C | D | E |
|---------------------------------------|---------------------------------------|-------------------------------------|---------------------------------------|-------------------------------------|
| 6 ¹¹ / ₁₆ (169) | 11 ⁵ / ₁₆ (286) | 6 (152) | 14 ³ / ₁₆ (359) | 3 ⁵ / ₁₆ (84) |
| F | G | H | J | NPT |
| 10 ⁷ / ₈ (275) | 4 ¹ / ₈ (105) | 3 ⁷ / ₁₆ (87) | 1 | |

Ordering Information

| Model Number | Part Number | Description | Weight lbs. (kg.) |
|--------------|-------------|---|-------------------|
| 150E | 171600 | Combination low water cut-off/pump controller | 22.9 (10.4) |
| 150E-M | 171610 | 150E w/manual reset | 22.9 (10.4) |
| 157E | 171620 | 150E w/water column | 36.9 (16.7) |
| 157E-M | 171630 | 157E w/manual reset | 36.9 (16.7) |



Series 157E



Series 157E Dimensions, in. (mm)

| A | B | C | D | E | |
|--------------------------------------|----------|---------------------------------------|-------------------------------------|---------------------------------------|-------------------------------------|
| NPT | NPT | | | | |
| 1 | 1/2 | 14 ⁵ / ₁₆ (362) | 2 ⁵ / ₁₆ (59) | 4 ¹⁵ / ₁₆ (125) | |
| F | G | H | J | K | L |
| | | | | NPT | |
| 12 ⁵ / ₈ (319) | 16 (406) | 11 ¹ / ₂ (292) | 3 ¹ / ₂ (89) | 3/4 | 5 ⁷ / ₈ (149) |

Electrical Rating and Switch Ratings

| Supply Voltage | Probe Voltage | Full load (Amps) NO (NC), (VAC) | Locked Rotor (Amps) NO (NC), (VAC) | Pilot Duty (VA) NO (NC), (VAC) | Motor (HP) NO (NC), (VAC) |
|----------------|---------------|---------------------------------|------------------------------------|--------------------------------|---------------------------|
| 120 VAC | 5 VAC | 16 (5.8), 120 | 96 (34.8), 120 | 470 (290), 120 | 1 (1/4), 120 |
| 50/60Hz | Maximum | 8 (4.9), 240 | 48 (17.4), 240 | 470 (290), 240 | 2 (1/2), 240 |