

## Low Water Cut-Offs – Mechanical For Steam Boilers

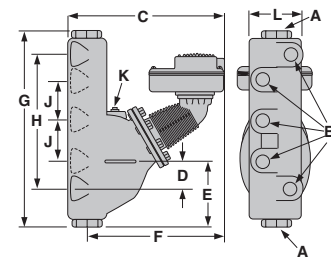
### Series 157S Low Water Cut-Off/Pump Controllers



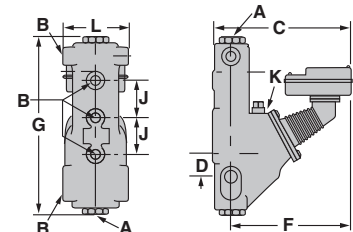
- For residential, commercial and industrial low or high pressure boiler applications
- For boilers of any steaming capacity
- Monel bellows provides corrosion resistance
- Float chamber with integral water column provided
- Snap action for high temperature service
  - 1 Single pole, single throw switch for pump control
  - 1 Single pole, double throw switch for low water cut-off and alarm actuation
- Optional features
  - Manual reset
  - Integral conductance probes for additional levels and greater operating differential-Model 157S-RBP-MD
  - 1" or 1 1/4" NPT equalizing tappings
  - 1/2" or 3/4" NPT tappings for gauge glass/tri-cock installations
  - BSPT threads
- Maximum pressure 150 psi (10.5 kg/cm<sup>2</sup>)



Series 157S



Model 157S-R



### Model 157S-MD

#### Maximum differential operation

- Prevents nuisance burner shutdowns in **low pressure** applications operating less than 50 psi (3.5 kg/cm<sup>2</sup>)
- For additional information see page 46

### Electrical Ratings

| Voltage | Cut-off and Pump Circuits Rating (Amperes) |              | Pilot Duty               |
|---------|--|--------------|--------------------------|
|         | Full Load                                  | Locked Rotor |                          |
| 120 VAC | 7.4  | 44.4         | 345 VA at 120 or 240 VAC |
| 240 VAC | 3.7  | 22.2         |                          |

| Alarm Circuit Rating (Amperes) |      |
|--------------------------------|------|
| Voltage                        | Amps |
| 120 VAC                        | 1    |
| 240 VAC                        | 1/2  |

### Dimensions, in. (mm)

| Model   | A<br>NPT | B<br>NPT | C             | D           | E             | F            | G        | H            | J          | K<br>NPT | L           |
|---------|----------|----------|---------------|-------------|---------------|--------------|----------|--------------|------------|----------|-------------|
| 157S    | 1        | 1/2      | 13 3/8 (339)  | 2 5/16 (59) | 4 15/16 (125) | 11 3/4 (298) | 16 (406) | 11 1/2 (292) | 3 1/2 (89) | 3/4      | 5 7/8 (149) |
| 157S-A  | 1 1/4    | 3/4      | 13 3/8 (339)  | 2 5/16 (59) | 4 15/16 (125) | 11 3/4 (298) | 16 (406) | 11 1/2 (292) | 3 1/2 (89) | 3/4      | 5 7/8 (149) |
| 157S-R  | 1        | 1/2      | 13 3/8 (339)  | 2 1/4 (57)  | 5 7/8 (149)   | 11 3/4 (298) | 17 (432) | 11 1/2 (292) | 3 1/2 (89) | 3/4      | 6 1/4 (159) |
| 157S-RL | 1 1/4    | 1/2      | 13 9/16 (345) | 3 1/2 (89)  | 5 7/8 (149)   | 11 3/4 (298) | 17 (432) | 12 3/4 (324) | 3 1/2 (89) | 3/4      | 6 1/4 (159) |

### Ordering Information

| Model Number       | Part Number   | Description                                 | Weight lbs. (kg)   |
|--------------------|---------------|---|--------------------|
| 157S               | 173502        | 150S low water cut-off w/water column       | 39.7 (18.0)        |
| <b>157S-MD</b>     | <b>173603</b> | <b>157S w/maximum differential</b>          | <b>39.7 (18.0)</b> |
| 157S-A             | 173702        | 157S w/alternate tappings                   | 39.5 (17.9)        |
| 157S-A-M           | 173802        | 157S-A w/manual reset                       | 39.5 (17.9)        |
| 157S-M             | 175402        | 157S w/manual reset                         | 39.7 (18.0)        |
| <b>157S-M-MD</b>   | <b>175412</b> | <b>157S-M w/maximum differential</b>        | <b>39.7 (18.0)</b> |
| 157S-R             | 176220        | 157S w/alternate tappings                   | 42.0 (19.0)        |
| 157S-R-M           | 177306        | 157S-R w/manual reset                       | 42.0 (19.0)        |
| <b>157S-RBP-MD</b> | <b>176503</b> | <b>157S w/2 integral conductance probes</b> | <b>51.0 (23.1)</b> |
| 157S-RL            | 176902        | 157S w/alternate tappings                   | 42.0 (19.0)        |
| 157S-RL-M          | 177006        | 157S-RL w/manual reset                      | 42.0 (19.0)        |