



Pressure Switch

Models

32658
33659
32660

FEATURES

- Stainless steel contact pin for extended life.
- 3-wire construction allows either normally open or normally closed operation.
- Non-adjustable, preset pressure setting for consistent system protection.
- Pressure activated control device shuts off burner or other low amp system components.

SELECTION: The Pressure Switch is designed to control the on-off operation of various low amp system components. For example, in hot water equipment the pressure switch is used to turn off the burner when the system is not in operation.

INSTALLATION: The Pressure Switch should be installed in the discharge line **before the pressure unloader** or in the auxiliary port of the unloader or in the port opposite the unloader in a dual discharge ported manifold. The pressure switch is wired “normally open” (red and tan wires). When the system is operating the pressure switch closes and turns the auxiliary accessory on. When the

SPECIFICATIONS

| | U.S. Measure | Metric Measure |
|----------------------------|-------------------|-------------------|
| Max. System Pressure | 3550 PSI | (250 BAR) |
| Switch Engaging Pressure | | |
| Model 32658 | 700 PSI | (50 BAR) |
| Model 32660 | 350 PSI | (25 BAR) |
| Model 33659 | 170 PSI | (12 BAR) |
| Voltage | 12-250 Volts | (12-250 Volts) |
| Max. Amperage | 6 Amps | (6 Amps) |
| Max. Temperature | 194°F | (90°C) |
| Inlet Fitting | 1/4" NPT | (1/4" NPT) |
| Weight | 10.0 oz. | (0.280 kg) |
| Dimensions | 3.5 x 3.5 x 1.38" | (89 x 89 x 35 mm) |

system goes into by-pass and the pressure drops, the pressure switch opens and shuts the auxiliary accessory off.

CAUTION

On the high pressure side of the regulating device, the Pressure Switch will not see a pressure change and will not shut the accessory off. Install only **before pressure unloader**.

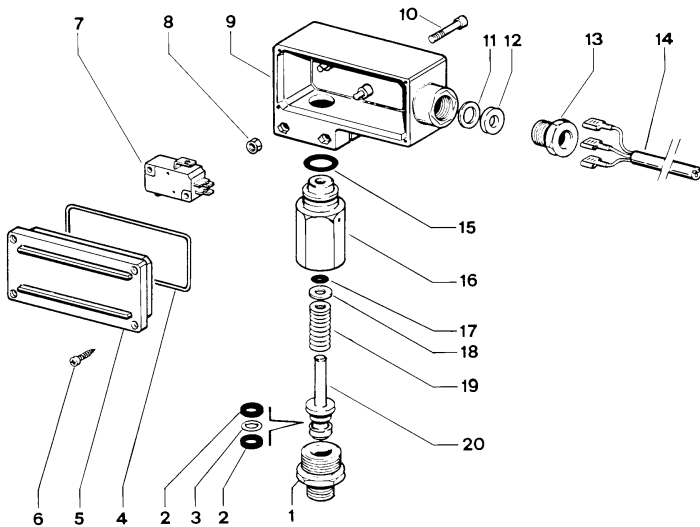
CAUTION

The Pressure Switch **cannot be used with a pressure regulator** as a regulator maintains system pressure in the by-pass mode and will not give the required low pressure drop to activate the switch.

continued on back

“Customer confidence is our greatest asset”

EXPLODED VIEW



PARTS LIST

| ITEM | P/N | MATL | DESCRIPTION | QTY |
|------|-------|------|-----------------------------------|-----|
| 1 | — | SS | Fitting, Inlet (1/4") | 1 |
| 2 | 33586 | PTFE | Back-up-Ring, Stem | 2 |
| 3 | 33557 | FPM | O-Ring, Stem | 1 |
| 4 | — | NBR | O-Ring, Square Cover | 1 |
| 5 | — | NY | Cover | 1 |
| 6 | — | S | Screw (M2.2 x 9.5) | 4 |
| 7 | 32861 | | Switch, Micro (350 PSI) | 1 |
| | | | Switch, Micro (700 PSI) | 1 |
| 8 | — | | Nut (M4) | 2 |
| 9 | — | NY | Case | 1 |
| 10 | — | | Screw (M4 x 22) | 2 |
| 11 | — | S | Washer | 1 |
| 12 | — | NBR | Seal | 1 |
| 13 | — | BB | Nut | 1 |
| 14 | — | | ★ Cable, 3-wire | 1 |
| 15 | 33576 | NBR | O-Ring, Housing | 1 |
| 16 | — | BB | Housing | 1 |
| 17 | 33556 | NBR | O-Ring, Stem | 1 |
| 18 | — | | Washer, Stem | 1 |
| 19 | 32361 | SS | Spring (350 PSI) | 1 |
| | 32360 | SS | Spring (700 PSI) | 1 |
| | 34657 | SS | Spring (170 PSI) | 1 |
| 20 | — | SS | Stem | 1 |
| | 32862 | | Kit, O-Ring (Incls: 2, 3, 15, 17) | 1 |

★ Normally Closed – Red and Blue Normally Open – Red and Tan

Italics are optional items.

MATERIAL CODES (Not Part of Part Number): BB=Brass
 FPM=Fluorocarbon (Viton®) NBR=Medium Nitrile (Buna-N) NY=Nylon
 PTFE=Polytetrafluoroethylene (Teflon®) S=304SS SS=316SS

OPERATION: The Pressure Switch is pre-wired to be in a **normally open** mode during high pressure operation. When the shut-off gun is closed (trigger released) the unloader will drop the system pressure below the preset Pressure Switch pressure. This low pressure signal will activate the switch, interrupt the electric current and shut off the burner or other system component.

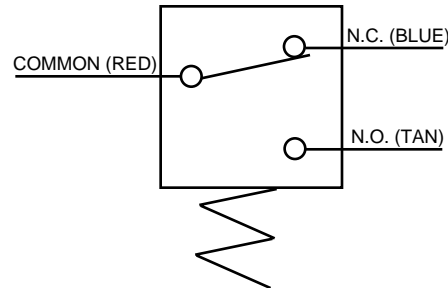
When the gun is triggered again, system pressure will return to high pressure, the switch will return to the closed position completing the electrical current flow and the burner or other system component will resume operation.

Refer to **TUFF CAT Hi-Temp Owner's Manual** for use with those units.

WARNING

This product must be installed by a qualified electrician to avoid risk of electrocution.

WIRING DIAGRAM



TROUBLESHOOTING

- | | |
|---------------------------|---|
| Water leaking from switch | • Worn or cut O-Ring. |
| Burner won't shut off | • Switch located incorrectly in high pressure line. |
| | • Micro switch malfunction. |

WARRANTY

90 Day Warranty

Refer to complete Cat Pump Warranty for further information.

Products described hereon are covered by one or more of the following U.S. patents 3558244, 3652188, 3809508, 3920356, 3930756 and 5035580

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