



8735-LF Liquid-Filled Pressure Gauges with English and Metric Scales

| Gauge designation | Range (from zero) | Case | Male pipe connection | Use |
|-------------------|----------------------------------|------------|----------------------|---|
| 8735-R-LF | 15 psi (1 kg/cm ²) | 2 1/2" SST | 1/4" bottom | air and gases or liquids not corrosive to brass |
| 8735-J-LF | 30 psi (2 kg/cm ²) | 2 1/2" SST | 1/4" back | |
| 8735-L-LF | 30 psi (2 kg/cm ²) | 2 1/2" SST | 1/4" bottom | |
| 8735-M-LF | 60 psi (4 kg/cm ²) | 2 1/2" SST | 1/4" bottom | |
| 8735-P-LF | 100 psi (7 kg/cm ²) | 2 1/2" SST | 1/4" bottom | |
| 8735-K-LF | 100 psi (7 kg/cm ²) | 2 1/2" SST | 1/4" back | |
| 8735-S-LF | 160 psi (11 kg/cm ²) | 2 1/2" SST | 1/4" bottom | |

Liquid-filled pressure gauges provide a number of advantages:

- the liquid absorbs vibration and pressure spikes
- the dampening action of the liquid enables the operator to take readings during conditions of rapid dynamic loading and vibration
- the liquid lubricates all moving elements, dramatically reducing wear in the movement
- because most liquid-filled gauges are filled with non-aqueous liquid and hermetically sealed, they perform in corrosive environments and are immune to moisture penetration and icing, and shock effects are lessened.

Liquid-filled gauges enhance the reliability and integrity of the measuring system for long periods under extreme operating conditions.

Standard Features

- Size:** 2 1/2"
- Case:** Stainless Steel
- Ring:** Polished SS. crimped
- Wetted Parts:** Copper alloy
- Window:** Polycarbonate (2 1/2")
- Dial:** ABS
- Pointer:** Black aluminum
- Filling:** Glycerine
- O-ring:** EPDM
- Accuracy:** ±1.5% of span

Liquid-Filled Gauge Case Venting

For pressure gauges 8735-LF, case venting (after the gauge is installed) is necessary to preserve the accuracy. Temperature fluctuations during shipment and in the process application cause the liquid filling to expand and contract which in turn increases or decreases case pressure. As a result, accuracy can be decreased and the pointer may not return to zero properly until the gauge is vented to the atmosphere.

To vent the 8735-LF gauge, move the valve to the open position which will release any pressure or vacuum built up in the case. If the gauge is installed in an upright position, the lever can be left in the open position. The lever allows the use of a gauge in a non-upright orientation.

Allowable Operating Range - Temperature range in which the operation of the gauge is not adversely affected by the filling liquid. At temperatures above the maximum rating, the fluid may break down. At temperatures below the minimum rating, the fluid may solidify (freeze).

NOTE: Some parts of the pressure gauge may not be able to withstand temperatures above 140 F. Consult Flves North American for technical assistance for these applications.

| Fill Fluid | Allowable Operating Range |
|--|--------------------------------|
| Glycerine Dow 99.7% USP, Synthetic 1118 Centistokes at 68°F | -4°F to 140°F -20°C to 60°C |

WARNING: Situations dangerous to personnel and property may exist with the operation and maintenance of any combustion equipment. The presence of fuels, oxidants, hot and cold combustion products, hot surfaces, electrical power in control and ignition circuits, etc., are inherent with any combustion application. Parts of this product may exceed 160F in operation and present a contact hazard. Fives North American Combustion, Inc. urges compliance with National Safety Standards and insurance Underwriters recommendations, and care in operation.