

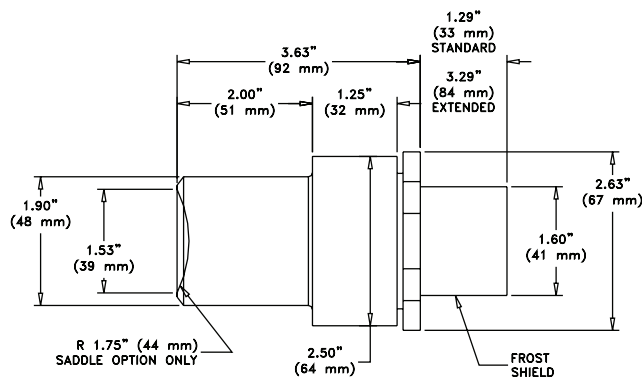
INSTALLATION

Do not install lens or gaskets before welding. Locate the SEE-LEVEL™ in an accessible area away from the movement of material and equipment. To prevent distortion of housing and protect threads from welding sparks and damage, leave retainer ring (less glass and gaskets) in housing during welding. Welds should be annealed as necessary in accordance with good practice. Painting of welds is recommended for corrosion protection.

After welding, remove retainer ring and then insert (in order) neoprene gasket (o-ring for clear lens), reflex lens, install the reflex lens with the raised glass rings in contact with the fluid, and fiber gasket into housing. Lubricate threads and screw retainer ring into housing and tighten to 30 ft/lbs (41 Nm) torque. Before putting into service, all pipe weld connections and the lens should be tested for leaks at pressure levels called for in appropriate codes. Test for leaks before inserting the optional frost shield.

To install frost shield, lightly coat the frost shield o-ring with refrigerant oil. Press frost shield into housing while holding a pliable thin-walled plastic straw across the o-ring; this allows air to escape. Withdraw straw once frost shield is fully inserted into housing.

INSTALLATION DIMENSIONS

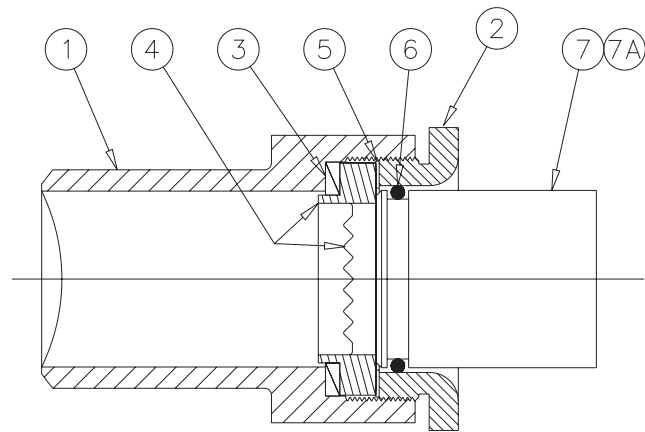


CAUTION

Hansen SEE-LEVEL™ liquid indicators are only for refrigeration systems. These instructions and related safety precautions must be read completely and understood before selecting, using or servicing these liquid indicators. Only knowledgeable, trained refrigeration mechanics should install or service these liquid indicators. Stated temperature and pressure limits should not be exceeded. Sight glass lenses should be inspected routinely and replaced if damaged.

See also safety precautions in current List Price Bulletin and Safety Precautions sheet supplied with product. Escaping refrigerant might cause personal injury, particularly to the eyes and lungs.

PARTS LIST



ITEM	DESCRIPTION	QTY	PART NO
1a	Standard Housing	1	77-0465
1b	Saddle Milled Housing	1	77-0475
2	Retainer Ring	1	77-0487
	Reflex Lens Kit Consists of:		77-1002
3a	Neoprene Gasket	1	77-0504
4a	Reflex Lens, Fused to Metal Ring	1	77-0792
5	Fiber Gasket	1	77-0505
	Clear Lens Kit Consists of:		77-1043
3b	O-Ring	1	75-0908
4b	Clear Lens, Fused to Metal Ring	1	77-2002
5	Fiber Gasket	1	77-0505
	Frost Shield Kit Consists of:		77-1003
6	O-Ring	1	77-0526
7	Frost Shield	1	77-0519
7a	Frost Shield Extended	1	77-1044

WARRANTY

All Hansen products, except electronics, are guaranteed against defective materials or workmanship for one year F.O.B. factory. Electronics are guaranteed against defective materials or workmanship for 90 days F.O.B. factory. No consequential damages or field labor is included.

TYPICAL SPECIFICATIONS

"Liquid indicators shall have steel housings made from code approved materials suitable for direct welding into ASME vessels, with glass reflex (or clear) lenses fused in steel retainer ring, and frost shields suitable for temperatures down to -60°F, and a maximum safe working pressure of 600 psig (40 bar). Liquid indicators shall be SEE-LEVEL™ as manufactured by Hansen Technologies Corporation or approved equal."

HANSEN

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