

#### Tool Requirements

· Screwdriver · Strap wrench · Vise



#### CAUTION

Exercise caution when placing gauge in a vise or other holding fixture.

- Tighten the jaws only on the wrench pad of the gauge.
- Tighten only enough to securely hold the gauge; overtightening could damage the gauge.



#### CAUTION

Complete the filling procedure in a clean environment to avoid contamination of the glycerin.

1. Place the gauge into a vise or fixture with the **fill plug** in the upright position. See Fig. 1.
2. If the gauge has a removable front cover, verify it is tight using a **strap wrench**. See Fig. 1.
3. Use a screwdriver to pry the black fill plug from the fill port on the top of the gauge. See Fig. 3.

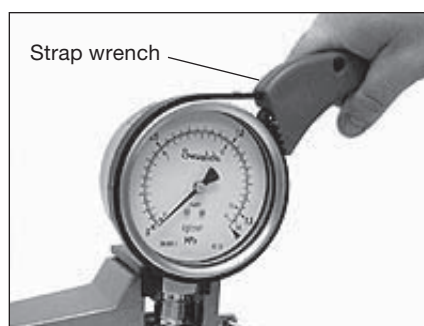


Fig. 1



Fig. 2

4. Pour Swagelok® glycerin or equivalent into the fill port until the distance between the glycerin and the top edge of the gauge lens is within the range specified in the table below. See Fig. 2.

Gauge Size	Fill Level	
	Minimum, mm (in.)	Maximum, mm (in.)
63 (2 1/2)	8 (5/16)	5.5 (7/32)
100 (4)	12 (15/32)	6.5 (1/4)
160 (6)	19.5 (3/4)	11 (7/16)

5. Allow time for the glycerin to settle. Add or remove glycerin as necessary. Verify the glycerin is at the proper level. Do not re-use spilled glycerin.

6. Reinsert the fill plug. The rim of the fill plug should seat onto the gauge case with no raised edges.  
Note: For gauges with a yellow toggle switch, make sure switch is in closed position to prevent glycerin leakage.
7. Remove the gauge from the vise or fixture. Tip the gauge, allowing the glycerin to flow around the **fill plug**, **lens**, and **bayonet ring**, to ensure there is no leakage around these locations. Refer to Fig. 3. If a leak is found, secure the fill plug or tighten the bayonet ring using a **strap wrench** (refer to Fig. 1). Continue checking until no leakage is found.
8. With thread protector in place, carefully rinse the gauge under hot water to remove any spilled glycerin and fingerprints.

#### CAUTION

**Do not allow water to enter the end connection. If supplied, keep on the thread protector.**

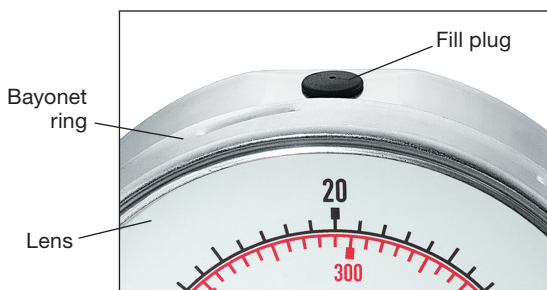


Fig. 3