

REPLACING MEASURING TAPE IN NO. 20 TOKHEIM GAUGE

- 1) Remove covers from top housing, lower housing and both elbows.
- 2) Remove cover of tank or enter through manhole.
- 3) Bring float to top of tank and remove old tape from float, securing float for later connection of new tape.
- 4) Attach end of 3/16" rope to old tape. At 20C top housing, pull up old tape & disconnect tape at counterweight. Remove counterweight and set aside for connecting to new tape.
- 5) If old tape measured accurately, use rope to pull new tape through pipes at 20C top housing. Lay out old tape with new to measure for cut lines. Cut tape ends so they are the same size as the old tape. Secure new tape to counterweight. Lower counterweight slowly until it reaches the bottom of pipe #1.
- 6) If old tape did not measure accurately, position tape so gauge reading is 0ft. 1 ¼ in. and lock tape with wooden wedge pushed into pipe through elbow 20H. Remove brass plug on side of Top Housing 20C. Measure amount of tape needed to go over pulley and just reach into 1" pipe and cut off surplus tape. Attach counterweight to tape, remove shaft and pulley and insert counterweight into 1" pipe. Lower counterweight slowly until it reaches the bottom of pipe #1. Replace pulley, shaft and plug. Replace covers on housings 20A and 20C. Pull up slack tape in gauge and fasten tape spool to side of elbow with masking tape.
- 7) Detach balance of tape from spool and thread through elbows, pipes 4 and 5 and into tank.
- 8) Reach into tank through manhole and pull out 3-4 ft. of tape and lock at elbow with wooden wedge. Mark tape with pencil at point where it emerges inside tank. Loosen tape clamp in float, insert tape, pull up to pencil mark and tighten clamp securely. Lower float to liquid level and read gauge. Measure liquid in tank by hand and compare with gauge reading. If gauge reading is off, adjust tape by moving in or out of tape clamp the required distance to make reading correct. When gauge reads correctly, trim off all but 1ft. of surplus tape and coil balance through tape clamp. It is important to trim tape to keep it from interfering with the action of swivel on top of float.
- 9) Replace all covers on elbows and housings and check that all connections are tight. Installation is now complete and gauge is ready for use.