

CMCP801 Relative Probe Holder
Assembly and Mounting Instructions

Rev. A 8.04.2008

Model Description:

The CMCP-801 Probe Holder is designed for the external mounting of proximity probes as described and recommended by API-670. External (through the case) mounting allows for the easy removal, inspection, and adjustment of the proximity probes gap as opposed to internal mounting where the bearing cap or cover needs to be removed prior to inspection.

Parts List and Description:

1 each GRU-75 Outlet Body	- Provides easy access for adjustment of proximity probe.
1 each CMCP801 Union	- 3/4" NPT Adapter w/internal thread for machine case mounting
1 each CMCP801 Adapter	- Allows for external probe calibration
1 each CMCP801 Stinger	- Proximity probe stinger. Can be cut to desired length
1 each Parker Seal	- Ensures a tight grip on Union Adapter
1 each 3/4" Flat Washer	- Used between nut and Parker seal
1 each 3/4" Jam Nut	- Ensures a tight fit on probe assembly

Transducers:

Probe Types: Page 4

The CMCP801 Relative Probe Holder is machined to accept a standard 3/8"-24 standard and reverse mount proximity probes. A optional 1/4"-28" to 3/8"-24" mounting adapter is also available for 1/4"-28 UNF Probes.

Mounting:

Mounting Locations: Page 3

The CMCP801 uses 3/4" NPT entry into the machine case standoffs, if required, can easily be constructed using readily available 3/4" pipe and pipe fittings. Care must be taken in drilling and tapping the bearing housing or cover to insure that the Eddy Probes will be perpendicular to the shaft center line.

Assembly:

Assembly Drawing: Page 4

The CMCP801 comes from the factory without a proximity probe installed. Care must be taken to not damage the proximity probe. Loctite 242 Medium Strength must be used on the parts showed on the assembly drawing.

1. Assemble the CMCP801 housing as drawn on page 5.
2. Use Loctite 242 Medium Strength Thread Locker on between Stinger and Adapter threads.
3. Run the Proximity Probe cable through the Stinger and out through the conduit head.
4. Apply Loctite 242 to the proximity probe threads (also 1/4"-28 adapter if used).
5. Screw in the proximity probe until the top of the wrench flats are at the end of the stinger
6. Apply Loctite 242 to Proximity Probe Nut and tighten down to the end of the Stinger

Adjusting:

The CMCP801 Relative Probe Holder has an adjustment range of plus or minus 1" (2.54 cm), 2" (5.08 cm) overall adjustment). The internal stinger adapter can be adjusted internally to gap the proximity probe. Use the Parker Seal, washer and nut will ensure a tight leak free fit.

1. Remove Conduit Head
2. Loosen $\frac{3}{4}$ " nut.
3. Use Wrench Flats on Adapter to adjust proximity probe gap
4. Tighten nut when complete.
5. Check adjustment and readjust as required.

See Proximity Probe Manual for probe gap requirements

Insertion Depth Calculation:

To determine how much to trim the stinger for your required insertion depth, measure your insertion depth by measuring from the surface of the machine to the shaft surface. Subtract your required insertion depth from the stock standard depth of 12". Trim this result from the stingers probe end and tap with a $\frac{3}{8}$ "x24 UNF Tap.

12.00" – Standard Insertion Depth
- XX.XX" – Subtract Required Insertion Depth
XX.XX" – Amount to trim from Stinger

Ordering:

The CMCP-801 Probe Holder is available in various lengths and has an adjustment ordering, the insertion depth should be measured, or calculated, and the closest standard length selected. **See Insertion Depth Calculation.** The broad adjustment range will allow for any discrepancies. In some cases Probe Holders are ordered in their longest length and cut in the field when the machine is open and available for measurements.

CMCP801

- 01 3/8"-24 UNF Probe Body
- 02 1/4" -28 UNF Probe Body

All CMCP801's are stocked with a 10.625" Stinger which provides a 12.0" maximum insertion depth. Please call your sales representative for custom length pricing.