Designed for OEM

Compact

- One-Piece Probe/Body Construction
- Quick Install & Connect
- Order Sized to Your Spec

These Warrick fitting are designed for OEM use. They are shipped ready for quick installation. Integrated probes eliminate pre-assembly tasks, and avoid potential vibration-induced loosening when installed with power tools. Choose from singleor multi-electrode probe series. Gems supplies these series with probes pre-cut to lengths you specify.

| Series | 3J | 3H | 3L | |
|---|--|--|---|--|
| | | | | |
| Probe Quantity | 1, 2 or 3 | 1 | 1 | |
| Mounting Size | 1" NPT | 3/8" NPT or 5/8" NF/NFE | 1/8" NPT | |
| Materials Body | Case iron or red brass | 316 stainless steel | 316 stainless steel | |
| Terminal Housing | Diecast aluminum, epoxy coated (optional) | | | |
| Probe | 316 stainless steel | 316 stainless steel | 316 stainless steel | |
| Insulation | Teflon® | Teflon® | Teflon® | |
| Probe Diameter | 3/16" | 1/4" | 3/16" | |
| Pressure/Temperature | 0 psig @ 500°F | 250 psig @ 406°F | 150 psig @ 365°F | |
| Approvals | | U.L. File #MP2489, Vol. 1 Sec. 1; CSA | U.L. File #MP2489 | |
| Use the Bold characters from the chart below to construct a product code. | 3J X X X X Series 3J Number of Probes - - - Body Material ¹ - - - - Body Material ¹ - C - Red Brass - - Body Material ¹ - C - Red Brass - - Housing - - - - - Housing - - - - - - Length of Probes ² - - | 3H X | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | |
| Notes Custom options available. Consult factory. | Probes are stainless steel. 10-1/4" maximum | Longer Teflon[®] sleeves are available. Contact factory or your representative Custom probe and insulation lengths are available. Contact your representative. | 1. 12" maximum Indicate fractional inches in decimal form (01.75 = 1-3/4") | |



Top Mounting Fixtures – General Purpose

| Series | 3F | | | | | 3G | |
|--|--|---|--|-----------------------------------|--|--|--|
| | | | | | | | |
| Mounting Connection | Flange — 4.5" to 7.5" Dia. | | | | | NPT, Flange, Bracket (Plate) | |
| Probe Quantity | | | 1 tł | nru 7 | | 1 thru 7 | |
| - | Designed for general purpose service, Series 3F flanged, pressure-tight fittings can handle up to 7 probes. They mate with standard pipe flanges coupled to the top of the vessel. Available in a variety of materials. | | | | | Series 3G fittings are designed for general purpose use, and are made of PVC to withstand corrosive conditions. The flanged assemblies are sized to accommodate up to 7 probes and to mate with standard flanges on the tops of vessels. | |
| Materials Terminal Housing | Die-cast aluminum, epoxy coated | | | | | Polycarbonate | |
| Body | Forged steel, red brass, 316 S.S., 1018 C.S, PVC | | | | | PVC | |
| Probe Insulation | Teflon® | | | | | Teflon® | |
| Pressure/Temperature | 125 psig @ 323°F (cast iron) 225 psig @ 150°F (brass) 230 psig @ 100°F (316 S.S.) 275 psig @ 100°F (1018 C.S.) PVC – not rated | | s) S.) | 0 psig @ 150°F (PVC) | | | |
| Approvals | | | C | SA | | | |
| Dimensions | No. of Probes | Nominal Pipe Flange Size | Diameter of Flange | Conduit Boss Thread Size | Terminal Housing Size (W" x D" x H") | | |
| | 1 | 1 | 4-1/2" | 1/2" NPT | 2-1/4 x 2-1/4 x 2-1/4 | | |
| - | 2-3 | 2 | 6" | 1/2" NPT | 3-1/4 x 3-1/4 x 2-3/8 | | |
| - | 4 | 2-1/2 | 7" | 1/2" NPT | 3-1/4 x 3-1/4 x 2-3/8 | | |
| - | 5-7 | 3 | 7-1/2" | 3/4" NPT | 4 x 4 x 2-1/2 | | |
| | Series 3F X X 3F T | | | | | 3G X X X Series 3G | |
| right to construct a product code. | Number of Probes 1 thru 7 Body Material | | | | | | |
| | 1 thru Body Ma | i 7 iterial —— | | 20) | | Number of Probes 1 thru 7 Base Size and Style A 2" Flagge (6" O D)3 E 2" NDT3 | |
| right to construct a product code. Electrode Probes are ordered separately. | 1 thru Body Ma A – Fo B – Re C – 31 D – 10 | terial orged Steel ed Brass (F 16 S.S. (Ra | (Raised Fa lat Face) ised Face) aised Face) | , | | 1 thru 7 | |

Requires 3Z1B Adapter and 3Z1A Wire.
 Requires 3Z1B Adapter.
 Maximum 4 probes.

- Order 3R rods separately. See page E-21.
 Order 3T rods separately. See page E-21.
 Order 3W/3Y probes separately. See page E-22.

| 3E | | | 3N | 3B | |
|---|-----------------|---|---|--|---|
| | | | | PI () | |
| 1" to 3" NPT | | | #10 Machine Scr | ews from Underside | 3/8" - 18NPT, 5/8" - 18UNF, 5/8" - 24UNEF |
| 1 thru 7 | | 11 | hru 3 | 1 | |
| Series 3E fittings are cast metal, pressure-tight assemblies capable of handling 1-7 probes. Attachment to vessels is accomplished with external pipe threading. 3E Fittings require the use of 3R rigid or 3W wire suspended electrodes. | | Series 3N fittings accommo operating at atmospheric mounts on a flat surface vessels. 3N Fittings requi 3W wire suspended elect | pressure. The assembly atop open tanks or closed ire the use of 3R rigid or | Series 3B fittings are compact pressure tight assemblies that hold a single electrode probe for use in water and chemicals. These fittings incorporate a 1/4-20 female thread that must be combined with a Series 3R (rigid rod electrode) or Series 3W/3Y (wire suspended electrode) to make a complete assembly. | |
| | Die-cast alumin | um, epoxy coated | Die-cast alumir | num, epoxy coated | _ |
| | | s, 316 stainless steel | | 316 stainless steel | 316 stainless steel |
| | | flon® | | flon® | Teflon® |
| 125 psig @ 353°F (cast iron) 250 psig @ 406°F (brass, 316 S.S.) | | 0 psig @ 150°F (PVC) 0 psig @ 500°F (brass, 316 S.S.) | | 250 psig @ 406°F 500 psig @ 75°F | |
| U.L. File #MP2489, Vol. 1 Sec. 1; CSA | | CSA File | #LR11644 | U.L. File #MP2489, Vol. 1 Sec. 1; CSA | |
| | No. of Probes | Attachment to Vessel | Conduit Boss Thread Size | Terminal Housing Size (W" x D" x H") | |
| | 1 | 1" NPT | 1/2" NPT | 2-1/4 x 2-1/4 x 2-1/4 | _ |
| 3E | 2-3 | 2" NPT | 1/2" NPT | 3-1/4 x 3-1/4 x 2-3/8 | _ |
| | 4 | 2-1/2" NPT | 1/2" NPT | 3-1/4 x 3-1/4 x 2-3/8 | _ |
| | 5-7 | 3" NPT | 3/4" NPT | 4 x 4 x 2-1/2 | - |
| 3N | 1-3 | 2-1/4" square flat pad, 1-1/2" dia. h top of vessel secured with #10 mar screws at the corners of a 1-1/2" so | hine 1/2" NPT 2-1/4 x 2-1/4 x 2-1/4 | | |
| Series 3E Number of Probes 1 thru 7 Body Material A – Cast Iron B – Red Brass C – 316 Stainless Steel | | Series 3N Number of Probes 1 thru 3 Body Material A – PVC B – Red Brass C – 316 Stainless Steel | | $\begin{array}{c c} & & & & & & & & & & & & & & & & & & &$ | |
| 3R, 3W ¹ | | | 3R | , 3W ¹ | 3R solid rod (up to 4') 3W ¹ or 3Y ² (greater than 4') |

Custom options available. Consult factory.