

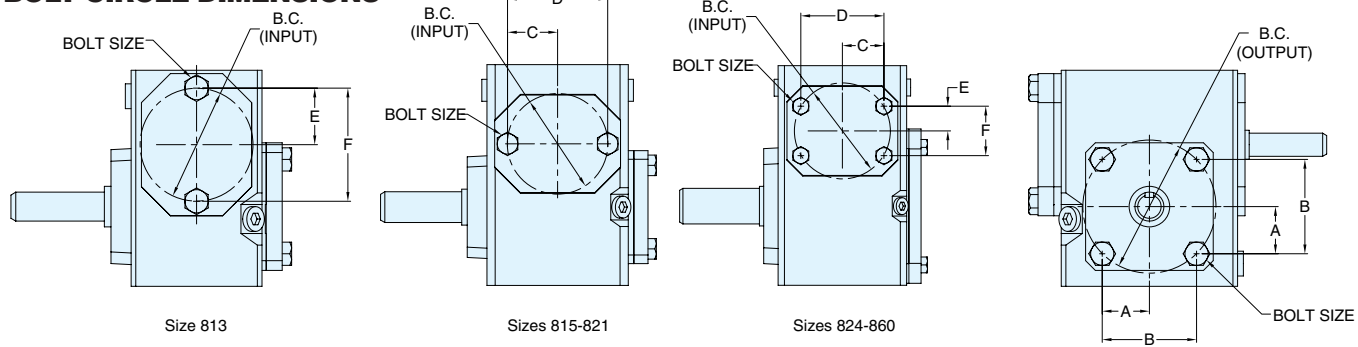


TECHNICAL INFORMATION



OHIO GEAR™

BOLT CIRCLE DIMENSIONS



INPUT COVER DIMENSIONS

| Unit | C | D | E | F | INPUT B.C. | Bolt Size |
|------|-------|-------|-------|-------|------------|-----------|
| 813 | 1.219 | 2.438 | N/A | N/A | 2.438 | 5/16-18 |
| 815 | 1.219 | 2.438 | N/A | N/A | 2.438 | 5/16-18 |
| 818 | 1.219 | 2.438 | N/A | N/A | 2.438 | 5/16-18 |
| 821 | 1.219 | 2.438 | N/A | N/A | 2.438 | 5/16-18 |
| 824 | 1.313 | 2.625 | .781 | 1.562 | N/A | 5/16-18 |
| 826 | 1.313 | 2.625 | .781 | 1.562 | N/A | 5/16-18 |
| 830 | 1.313 | 2.625 | .781 | 1.562 | N/A | 5/16-18 |
| 832 | 1.313 | 2.625 | .781 | 1.562 | N/A | 5/16-18 |
| 842 | 1.600 | 3.200 | 1.050 | 2.100 | N/A | 7/16-14 |
| 852 | 1.600 | 3.200 | 1.050 | 2.100 | N/A | 7/16-14 |
| 860 | 1.370 | 2.740 | 1.370 | 2.740 | 3.875 | 7/16-14 |

OUTPUT COVER DIMENSIONS

| Unit | A | B | OUTPUT B.C. | Bolt Size |
|------|-----------------|-------|-------------|-----------|
| 813 | 1.016 | 2.033 | 2.875 | 5/16-18 |
| 815 | 1.016 | 2.033 | 2.875 | 5/16-18 |
| 818 | 1.480 | 2.961 | 4.188 | 5/16-18 |
| 821 | 1.480 | 2.961 | 4.188 | 5/16-18 |
| 824 | 1.856 | 3.712 | 5.250 | 5/16-18 |
| 826 | 1.856 | 3.712 | 5.250 | 5/16-18 |
| 830 | 2.298 | 4.596 | 6.500 | 3/8-16 |
| 832 | 2.298 | 4.596 | 6.500 | 3/8-16 |
| 842 | 2.939 | 5.877 | 8.312 | 7/16-14 |
| 852 | 3.359 | 6.717 | 9.500 | 7/16-14 |
| 860 | Consult Factory | | | 1/2-13 |

LUBRICATION

The reducer is properly filled at the factory with sufficient lubricant per customer specified mounting position.

If position is not specified by customer, reducer will be filled to level in mounting position 1 (worm over)

Reducer ordered with a "MOD" will be filled based on the factory assumed mounting position, mounting position should be specified with order to assure proper lubrication.

| Factory Assumed Mounting Orientation | Applicable Unit Styles* | |
|--------------------------------------|---|---|
| Worm Over | B, T, F, H, FH, C D, DT, DF, DH, DFH DX, DXT, DXH, DXFH | Single Reduction Double Reduction Worm-Worm Double Reduction Helical-Worm |
| Worm Under | U DU | Single Reduction Double Reduction Worm-Worm |
| Vertical Output | VL, VH DVL, DVH DXVL, DXVH | Single Reduction Double Reduction Worm-Worm Double Reduction Helical-Worm |
| Vertical Input | J DJ DXJ | Single Reduction Double Reduction Worm-Worm Double Reduction Helical-Worm |

* INCLUDES MOTORIZED COUPLING AND QUILL INPUT VERSIONS OF ALL STYLES LISTED

All standard IRONMAN BY OHIO GEAR™ Worm Reducers are factory filled with MOBIL SHC-634 lubricant, a synthesized hydrocarbon formulated for long life and wide temperature range (-25°F to +220°F).

Change oil only when performing maintenance that requires gearbox disassembly.

If oil must be replaced, use only MOBIL SHC-634

Do not confuse MOBIL SHC-634 with MOBILGEAR 634. MOBILGEAR 634 is an EP type gear oil NOT suitable for use in the IRONMAN BY OHIO GEAR™ worm gear reducers.

SPECIAL LUBRICATION REQUIREMENTS - Size 830 & Larger

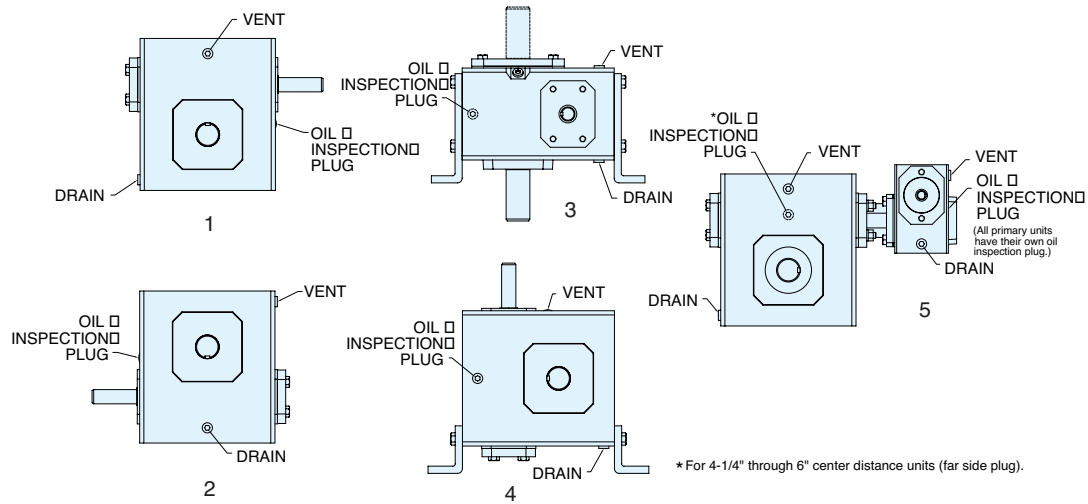
Please specify mounting position *with order* if any of the following applies:

- 1- Reducer is mounted with input or output shafts vertical
- 2- Input speed is sustained less than 900 RPM
- 3- Reducer is mounted in inclined position

NOTE: The reducer may require modifications to assure proper lubrication in these applications.

OHIO GEAR™

STANDARD MOUNTING POSITIONS & PLUG LOCATIONS



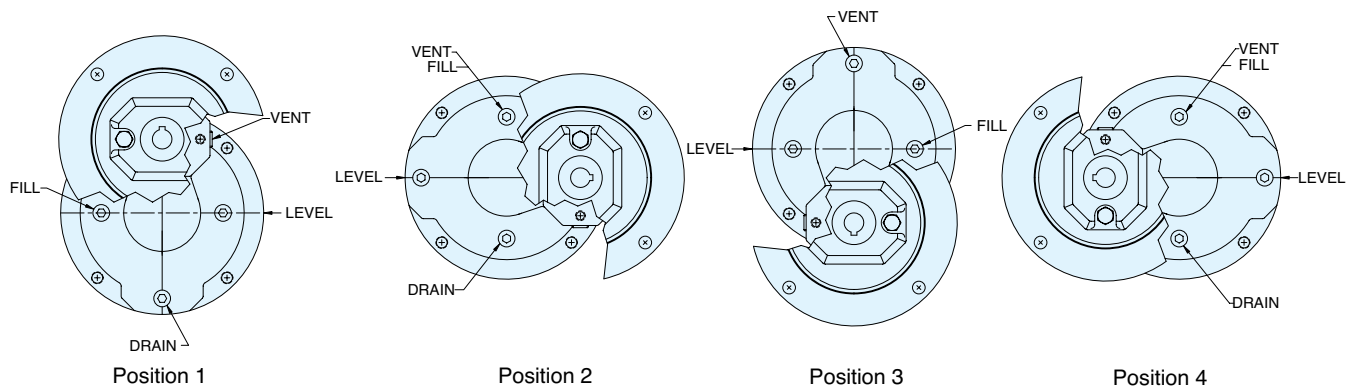
*For 4-1/4" through 6" center distance units (far side plug).

OIL CAPACITIES (ounces)

| Mounting Position | UNIT SIZE | | | | | | | | | | |
|---|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 813 | 815 | 818 | 821 | 824 | 826 | 830 | 832 | 842 | 852 | 860 |
| 1-Worm Over | 4 | 12 | 12 | 20 | 24 | 40 | 56 | 72 | 112 | 188 | 312 |
| 2-Worm Under | 8 | 16 | 20 | 28 | 40 | 60 | 84 | 108 | 152 | 304 | 328 |
| 3-Vertical Output | 4 | 16 | 16 | 28 | 32 | 48 | 68 | 88 | 128 | 248 | 320 |
| 4-Vertical Input | 4 | 16 | 16 | 24 | 32 | 48 | 72 | 92 | 128 | 248 | 325 |
| 5-Worm Over on Secondary Unit of Double Reduction | — | — | — | N/A | N/A | N/A | N/A | 192 | 308 | 320 | 485 |

16 OZ. = 1 PINT
 2 PINTS = 1 QUART
 4 QUARTS = 1 GALLON
 1 GALLON = 128 OZ.

RATIO MULTIPLIER VENT PLUG LOCATION



- Units are factory filled for Position 1 (input over mounting position). Verify proper oil level for other mountings.
- The "Input Under" mounting position is not recommended due to the increased probability of leakage from the high speed shaft seals.
- Special provisions are required for vertical shaft mountings. Consult factory for details.