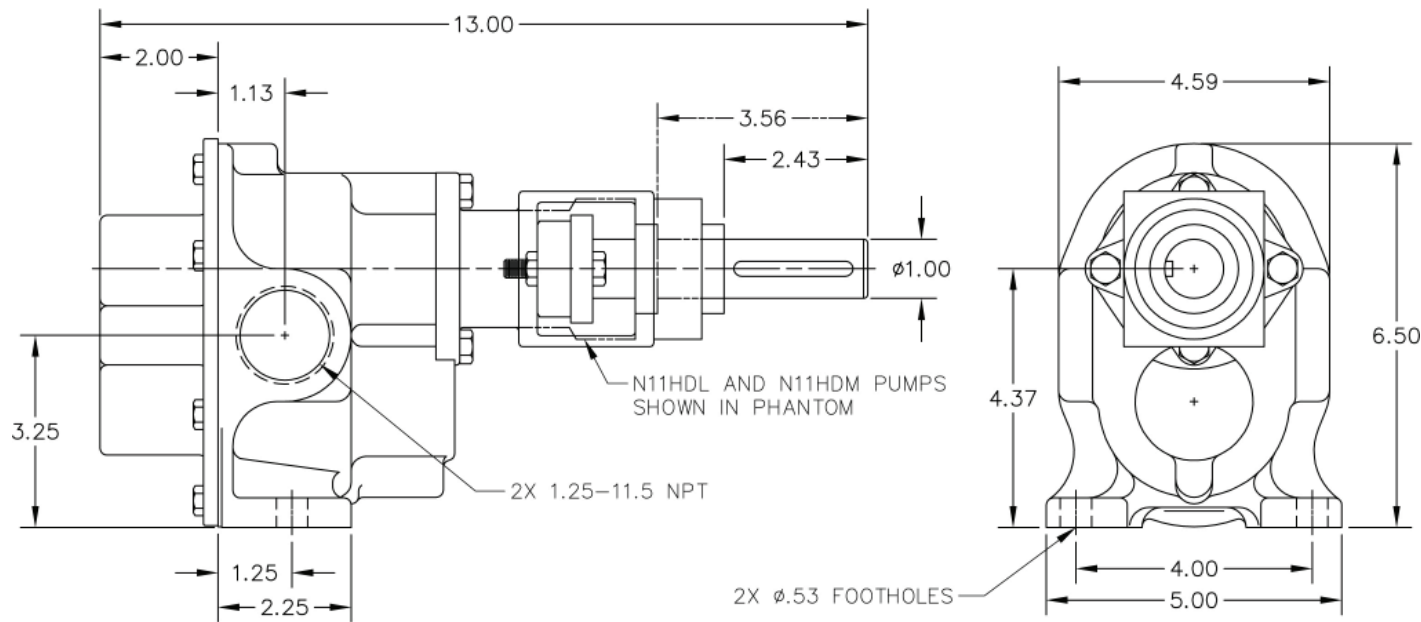


# Bronze Pedestal Rotary Gear Pumps

## N11HD Series

### Dimensions



NBR = Acrylonitrile-Butadiene PTFE = Polytetrafluorethylene FKM = Fluoroelastomer



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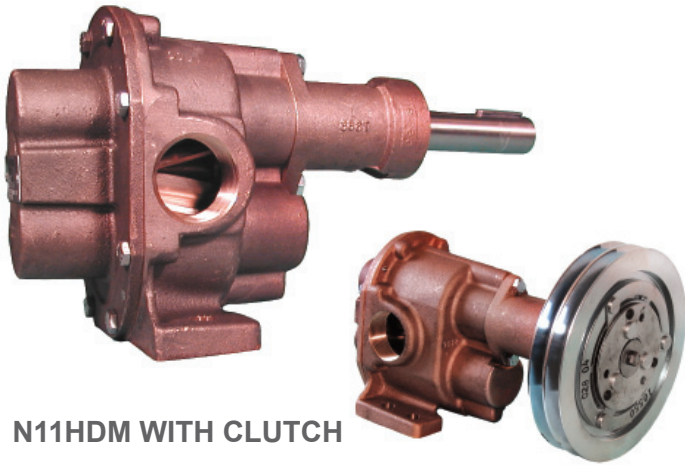
Visit [www.oberdorfer-pumps.com](http://www.oberdorfer-pumps.com) to find in-depth descriptions of the world's leading high-quality, dependable pumps.

Due to ongoing product improvements, data shown here is subject to change without notice. Contact Oberdorfer Pumps for latest specifications.

N11HD Series.112014



### 1 1/4" NPT Ports



#### Seal Options:

| Model    | Seal       |                  | Conversion Kit |
|----------|------------|------------------|----------------|
|          | Type       | Material         |                |
| N11HDP   | Packing    | Acrylic-Graphite | 11021          |
| N11HDL   | Lip        | FKM-PTFE         | 11023          |
| N11HDM   | Mechanical | NBR-Ceramic      | 11025          |
| N11HDP-1 | Packing    | PTFE             | 11022          |
| N11HDLS3 | Lip        | NBR              | 11024          |
| N11HDMS7 | Mechanical | FKM-Ceramic      | 11026          |
| N11HDMS8 | Mechanical | EPDM             | TBD            |

#### FEATURES:

- All Bronze Castings and Stainless Steel Shafts
- Sealing Arrangement Interchangeable in Field with Proper Kit
- Outboard Ball Bearing Support
- Self Lubricating Carbon Bearings
- Electric Clutch (Options)

#### SERVICE WEAR FACTORS:

**Speed** - High speed accelerates wear. For longer service life keep speed as low as possible. Pump speeds above 900 RPM not recommended except for intermittent duty and pressures below 100 psi.

**Pressure** - High pressure accelerates wear. For longer service life keep pressure as low as possible.

**Liquid Temperature** - High temperature accelerates wear. Keep as close to room temperature as possible.

**Liquid Contamination** - Impurities like fine abrasive silt or sand accelerate wear. Keep liquid as clean as possible.

**Liquid Lubricity** - Lubricants increase service life many fold. Use lubricant additives whenever possible.

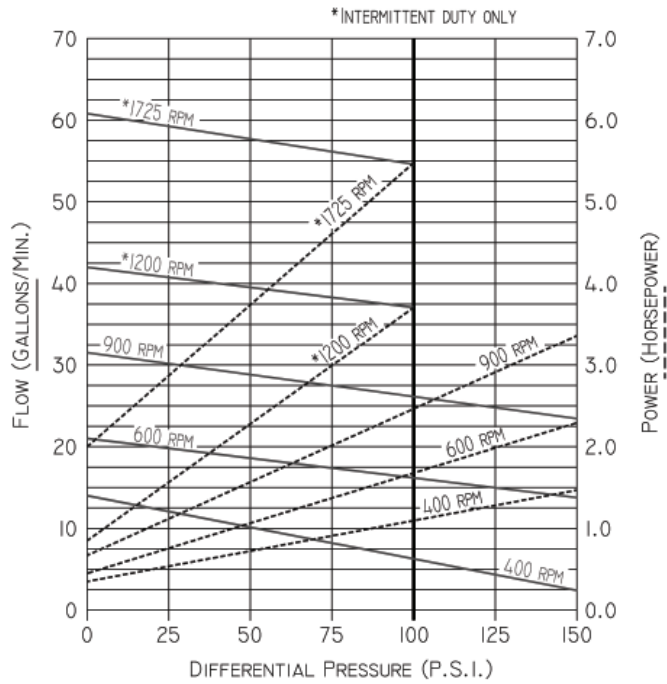
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# Bronze Pedestal Rotary Gear Pumps

## N11HD Series

#### PERFORMANCE:

CAPACITY WATER AT 60°F



**Noise** - Large gear pumps are inherently noisy due to metal to metal gear contact. Make installations far removed from offices or other relatively quiet people areas. Some noise reduction can be realized by lowering pump speed and use of isolation mounts and lines, usually the small amount of noise reduction achieved does not justify the effort and expense.

**Drive & Alignment** - Direct drive is the recommended drive arrangement. This pump is suitable for belt drive applications without needing pillow block bearings to achieve acceptable pump life. Correct alignment is absolutely essential for satisfactory pump life. Recheck alignment after piping has been connected to the pump. Electric clutch versions available.

#### SEAL CONVERSION KITS

Seal conversion kits illustrated (on back) are designed for quick removal and replacement. In each case, seal housings are fastened to pump bodies by means of 2 bolts, item 13.

**IMPORTANT:** Before attempting to remove a seal housing containing seal components by sliding them off the pump shaft, be sure to unlock 2 set screws locking the ball bearing inner race to the pump shaft. The ball bearing is identified as item 20. Also, before attempting to slide the seal housing from the pump shaft, remove all burrs, scale, and projections that could be formed by fretting corrosion.

# Bronze Pedestal Rotary Gear Pumps

## N11HD Series

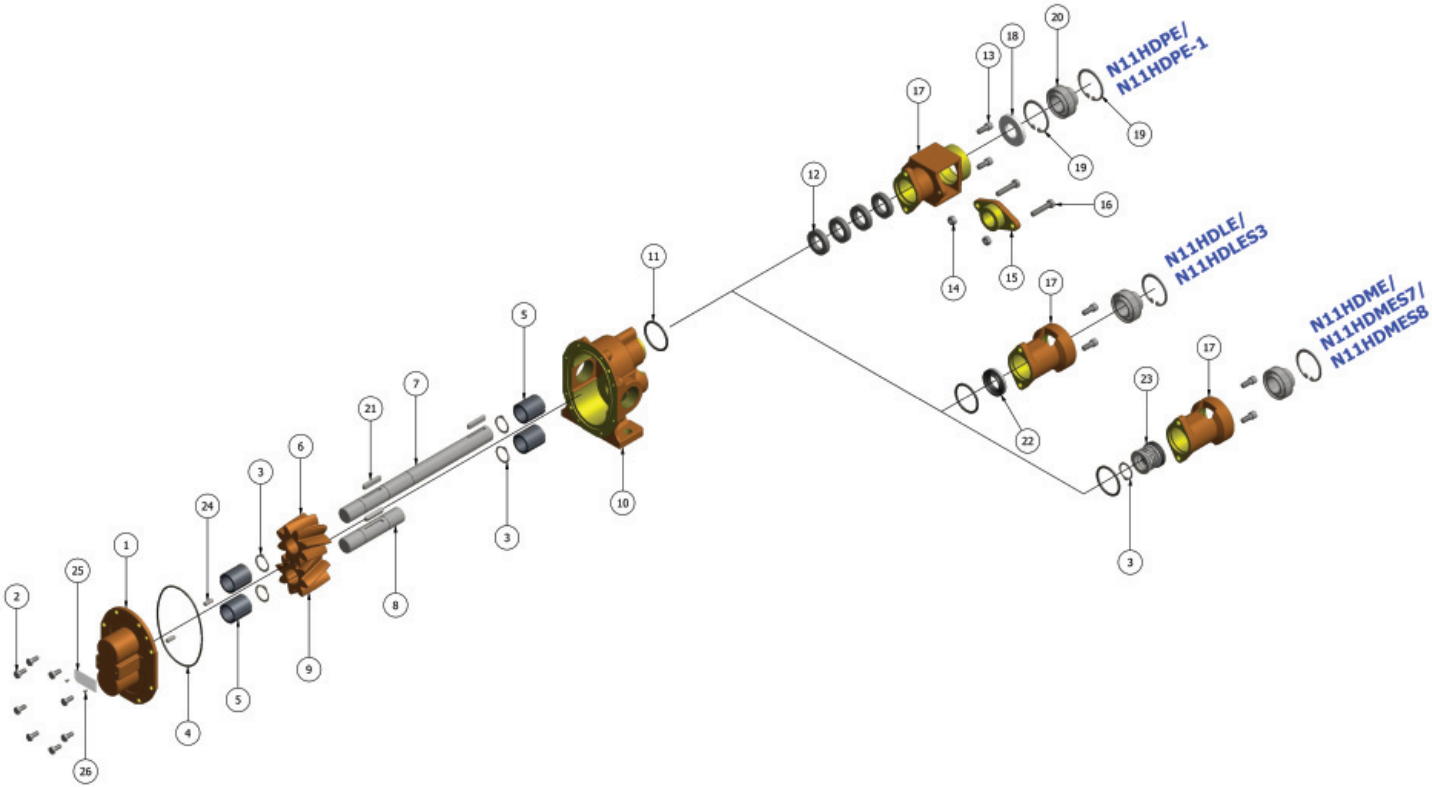
### Parts List

|          | 1        | 2      | 3         | 4        | 5       | 6          | 7           | 8          | 9         | 10       | 11       | 12           | 13     |
|----------|----------|--------|-----------|----------|---------|------------|-------------|------------|-----------|----------|----------|--------------|--------|
|          | Cover    | Screw  | Snap Ring | O-Ring   | Bearing | Drive Gear | Drive Shaft | Idle Shaft | Idle Gear | Body     | O-Ring   | Packing Ring | Screw  |
| Model    | Qty. 1   | Qty. 8 | Qty. 4/5  | Qty. 1   | Qty. 4  | Qty. 1     | Qty. 1      | Qty. 1     | Qty. 1    | Qty. 1   | Qty. 1   | Qty. 4       | Qty. 2 |
| N11HDP   | 9333NN5N | 5393   | 7651 (4)  | 9797-158 | 5108    | 9833       | 7366        | 7652       | 9834      | 9331NG7N | 6515     | 7624         | 6827   |
| N11HDP-1 | 9333NN5N | 5393   | 7651 (4)  | 9797-158 | 5108    | 9833       | 7366        | 7652       | 9834      | 9331NG7N | 6515     | 7450         | 6827   |
| N11HDL   | 9333NN5N | 5393   | 7651 (4)  | 9797-158 | 5108    | 9833       | 7366        | 7652       | 9834      | 9331NG7N | 9797-224 | N/A          | 6827   |
| N11HDLS3 | 9333NN5N | 5393   | 7651 (4)  | 9797-158 | 5108    | 9833       | 7366        | 7652       | 9834      | 9331NG7N | 6515     | N/A          | 6827   |
| N11HDM   | 9333NN5N | 5393   | 7651 (5)  | 9797-158 | 5108    | 9833       | 7366        | 7652       | 9855      | 9331NG7N | 6515     | N/A          | 6827   |
| N11HDMS7 | 9333NN5N | 5393   | 7651 (5)  | 9797-158 | 5108    | 9833       | 7366        | 7652       | 9834      | 9331NG7N | 9797-224 | N/A          | 6827   |
| N11HDMS8 | 9333NN5N | 5393   | 7651 (5)  | 9999-158 | 5108    | 9833       | 7366        | 7652       | 9834      | 9331NG7N | 6515     | N/A          | 6827   |

|          | 14     | 15     | 16     | 17           | 18       | 19        | 20           | 21     | 22       | 23        | 24        | 25     | 26        | Repair Kit |
|----------|--------|--------|--------|--------------|----------|-----------|--------------|--------|----------|-----------|-----------|--------|-----------|------------|
|          | Nut    | Gland  | Screw  | Seal Housing | Lip Seal | Snap Ring | Ball Bearing | Key    | Lip Seal | Seal Assy | Dowel Pin | Tag    | Tag Screw |            |
| Model    | Qty. 2 | Qty. 1 | Qty. 2 | Qty. 1       | Qty. 1   | Qty. 1/2  | Qty. 1       | Qty. 3 | Qty. 1   | Qty. 1    | Qty. 2    | Qty. 1 | Qty. 2    |            |
| N11HDP   | 8395   | 7451   | 9905   | 7449         | 6710     | 7372 (2)  | 7368         | 6518   | N/A      | N/A       | 8597      | 9344   | 9345      | 11003      |
| N11HDP-1 | 8395   | 7451   | 9905   | 7449         | 6710     | 7372 (2)  | 7368         | 6518   | N/A      | N/A       | 8597      | 9344   | 9345      | TBD        |
| N11HDL   | N/A    | N/A    | N/A    | 7365         | N/A      | 7372 (1)  | 7368         | 6518   | 7262     | N/A       | 8597      | 9344   | 9345      | 11005      |
| N11HDLS3 | N/A    | N/A    | N/A    | 7365         | N/A      | 7372 (1)  | 7368         | 6518   | 6500     | N/A       | 8597      | 9344   | 9345      | 11006      |
| N11HDM   | N/A    | N/A    | N/A    | 7365         | N/A      | 7372 (1)  | 7368         | 6518   | N/A      | 32315     | 8597      | 9344   | 9345      | 11007      |
| N11HDMS7 | N/A    | N/A    | N/A    | 7365         | N/A      | 7372 (1)  | 7368         | 6518   | N/A      | 32372     | 8597      | 9344   | 9345      | 11008      |
| N11HDMS8 | N/A    | N/A    | N/A    | 7365         | N/A      | 7372 (1)  | 7368         | 6518   | N/A      | 33335     | 8597      | 9344   | 9345      | TBD        |

Repair kit contain items 3, 4, 5, 6, 7, 8, 9, 11, 12, 18, 22 & 23

### Exploded View



### Clutch Drive Options

| Model      | Clutch Drive Options                       | Clutch Body | Clutch Coil | Clutch Assembly | Pump Repair Kit | 7           | 17           |
|------------|--------------------------------------------|-------------|-------------|-----------------|-----------------|-------------|--------------|
|            |                                            |             |             |                 |                 | Drive Shaft | Seal Housing |
| N11HDM-E12 | Gear Pump, Mechanical Seal with 12V Clutch | 7227        | 7224        | 32238           | 12013           | Qty. 1      | Qty. 1       |
| N11HDM-E24 | Gear Pump, Mechanical Seal with 24V Clutch | 7227        | 9902        | 33066           |                 | 7722-1      | 9169-1       |
| N11HDM-E32 | Gear Pump, Mechanical Seal with 32V Clutch | 7227        | 7225        | 32239           |                 | 7722-1      | 9169-1       |