

ROTARY GEAR PUMP BRONZE

MODELS N11HDP N11HDL N11HDM

OBERDORFER PUMPS

A Subsidiary of Thomas Industries Inc.

1 /1/4" NPT PORTS



N11HDM WITH CLUTCH

STANDARD								
Pump		Conversion						
No.	Туре	Material	Kit No.					
N11HDP	Packing	Acrylic-Graphite	11021					
N11HDL	Lip	Viton(R)*-Teflon(R)*	11023					
N11HDM	Mechanical	Buna N-Ceramic	11025					

SPECIAL								
Pump		Conversion						
No.	Туре	Material	Kit No.					
N11HDP-1	Packing	Teflon	11022					
N11HDLS3	Lip	Buna N	11024					
N11HDMS7	Mechanical	Viton(R)*-Ceramic	11026					

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

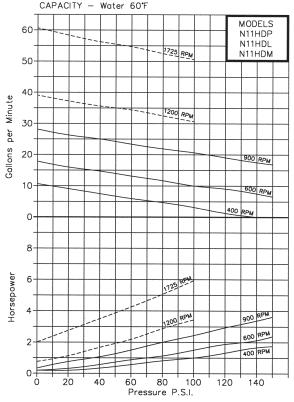
SPEED - High speed accelerates wear. For longer service life, keep speed as low as possible. Pump speeds above 900 R.P.M. not recommended except for intermittent duty and pressures below 100 p.s.i.

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.



Note: Dotted lines(---) recommended for intermittent duty only due to accelerated wear at higher speeds and pressures.

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 the 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.

^{*} Viton®* is a registered trademark of DuPont Dow Elastomers. Viton® or equivalent FKM will be used. Teflon®* is a registered trademark of DuPont. Teflon® or equivalent PTFE will be used.

ROTARY GEAR PUMP BRONZE

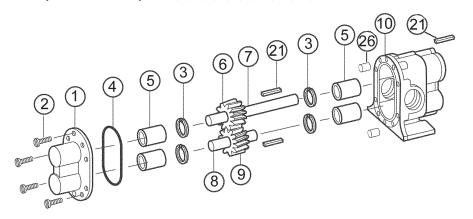


EXPLODED VIEW AND PARTS LIST

	1	2	3*	4*	5*	6*	7*	8*	9*	10	11*	12*	13
Pump	Cover	Screw	Snap	O-Ring	Bearing	Drive	Drive	Idle	Idle	Body	O-Ring	Packing	Screw
No.			Ring			Gear	Shaft	Shaft	Gear			Ring	
	1 Reqd	8 Reqd	4 Reqd	1 Reqd	4 Reqd	1 Reqd	1 Reqd	1 Reqd	1 Reqd	1 Reqd	1 Reqd	4 Reqd	2 Reqd
N11HDP	9333NN5N	5393	7651	9797-158	5108	9833	7366	7652	9834	9331NG7N	6515	7624	5916
N11HDL	9333NN5N	5393	7651	9797-158	5108	9833	7366	7652	9834	9331NG7N	9797-224		6827
N11HDM	9333NN5N	5393	7651	9797-158	5108	9833	7366	7652	9834	9331NG7N	9797-224		6827

	14	15	16	17	18*	19	20	21	22*	23	24	25*	26	
Pump	Nut	Gland	Screw	Seal	Lip	Snap Ring	Ball	Key	Lip	Seal	Ring	Seal	Dowel	
No.				Housing	Seal		Bearing		Seal	Housing		Assy.	Pin	Repair
	2 Reqd	1 Reqd	2 Reqd	1 Reqd	1 Reqd	2 Reqd(P)	1 Reqd	3 Reqd	1 Reqd	1 Reqd	1 Reqd	1 Reqd	2 Reqd	Kit No.
						1 Reqd (L&M)								
N11HDP	8395	7451	9905	7449	6710	7372	7368	6518					8597	11003
N11HDL		-		-		7372	7368	6518	7262	7365			8597	11005
N11HDM		-		-		7372	7368	6518		7365	7651	32315	8597	11007

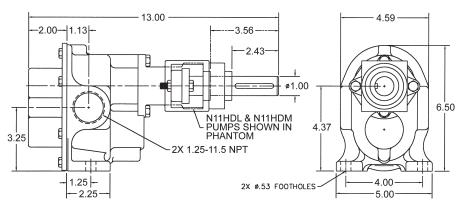
^{*}Repair Kits include parts 3, 4, 5, 6, 7, 8, 9, 11, 12, 18, 22 & 25



CLUTCH DRIVE OPTIONS

						23	7
Pump No.	Clutch Drive Options	Clutch Body	Clutch Coil	Clutch Assy	Pump Repair Kit	Seal Housing	Drive Shaft
N11HDM-06	Bare Gear Pump, Mechanical Seal, for Clutch						
N11HDM-02	Gear Pump, Mechanical Seal, with 12V Clutch	7227	7224	32238	12019	9169	7722
N11HDM-05	Gear Pump, Mechanical Seal, with 24V Clutch	7227	9902	33066	12019	9109	1122
N11HDM-04	Gear Pump Mechanical Seal with 32V Clutch	7227	7225	32230	1		

DIMENSIONS

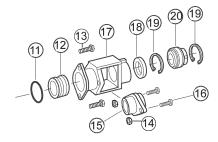


Specifications are subject to change without notice.

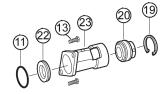
ADDITIONAL SEAL OPTIONS

		22*	25*	
Pump No.	Seal Options	Lip	Seal	Repair
		Seal	Assy.	Kit
		1 Req'd	1 Req'd	
N11HDLS3	Buna Lip Seal	6500		11006
N11HDMS7	Viton Mechanical		32372	11008

PACKING SEAL END



LIP SEAL END



MECHANICAL SEAL END

