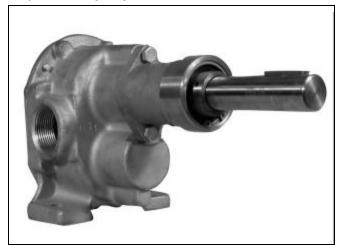
BRONZE PEDESTAL ROTARY GEAR PUMPS



MODELS N13HDP N13HDL N13HDM

1 1/2" NPT PORTS



STANDARD								
Pump		Conversion						
No.	Type	Kit No.						
N13HDP	Packing	Acrylic-Graphite	11021					
N13HDL	Lip	Viton(R)* -Teflon(R)*	11023					
N13HDM	Mechanical	11025						
SPECIAL								
Pump		Conversion						
No.	Type	Material	Kit No.					
N13HDP-1	Packing	Teflon(R)*	11022					
N13HDLS3	Lip	Buna N	11024					
N13HDMS7	Mechanical	Viton(R)*-Ceramic	11026					

FEATURES

- g All Bronze Castings and Stainless Steel Shafts
- g Sealing Arrangement Interchangeable in Field with Proper Kit
- g Outboard Ball Bearing Support for Belt Drive Applications
- g Self Lubricating Carbon Bearings

SERVICE WEAR FACTORS

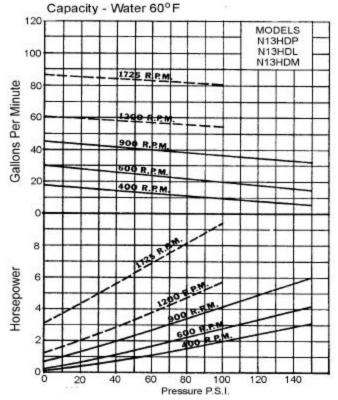
SPEED - High speed accelerates wear. For longer service life, keep speed as low as possible. Pump speeds above 900 R.P.M. not recommended except for intermittent duty and pressures below 100 p.s.i.

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 ver sions 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(R)* is a registered trademark of DuPont Dow Elastomers. Viton(R) or equivalent FKM will be used Teflon(R)* is a registered trademark of DuPont. Teflon(R) or equivalent PTFE will be used.

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EXPLODED VIEW AND PARTS LIST

	1	2	3*	4*	5*	6*	7*	8*	9*	10	11*	12*	13
	Cover	Screw	Snap	O-Ring	Bearing	Drive	Drive	ldle	Idle	Body	O-Ring	Packing	Screw
Pump			Ring			Gear	Shaft	Shaft	Gear			Ring	
No.	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
N13HDP	9333NN5N	5393	7651	9797-158	5108	9854	7570	7653	9855	9332NH7N	6515	7624	5916
N13HDL	9333NN5N	5393	7651	9797-158	5108	9854	7570	7653	9855	9332NH7N	6515		5916
N13HDM	9333NN5N	5393	7651	9797-158	5108	9854	7570	7653	9855	9332NH7N	6515		5916

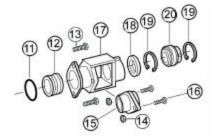
	14	15	16	17	18*	19	20	21	22*	23	24	25*	26	
	Nut	Gland	Screw	Seal	Lip	Snap Ring	Ball	Key	Lip	Seal	Ring	Seal	Dowel	
Pump				Housing	Seal	2 Reqd (P)	Bearing		Seal	Housing		Assembly	Pin	Repair
No.	2 Reqd	1 Reqd	2 Reqd	1 Reqd	1 Reqd	1 Reqd (L&M)	1 Reqd	3 Reqd	1 Reqd	1 Reqd	1 Reqd	1 Reqd	2 Reqd	Kit No.*
N13HDP	5597	7451	6743	7449	6710	7372	7368	5975					8597	11009
N13HDL	-				-	7372	7368	5975	7262	7365	-		8597	11011
N13HDM	_					7372	7368	5975	7262	7365	7651	32315	8597	11013

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

VARIATIONS

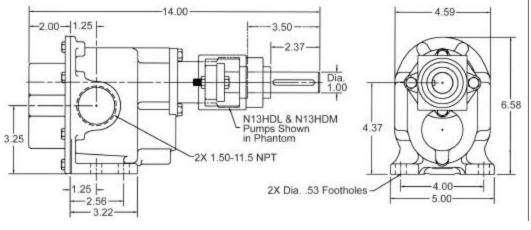
Pump	12*	22*	25*		
No.	Packing	Lip	Seal	Repair	
	Ring	Seal	Assy.	Kit	
	4 Req'd	1 Req'd	1 Req'd		
13HDP-1	7450	-	-	11010	
N13HDLS3		6500	_	11012	
N13HDMS7			32372	11014	

PACKING SEAL END

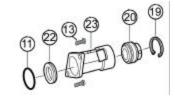


DIMENSIONS

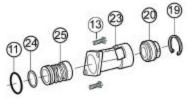
www.oberdorfer-pumps.com



LIP SEAL END



MECHANICAL SEAL END



Specifications are subject to change without notice.