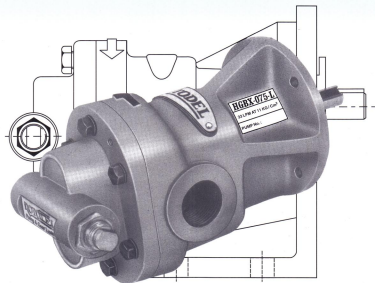




ROTARY GEAR PUMP type "HGBX"



Increased efficiency, enhanced reliability
improved RV function, widened capacity range,

COMPACT - LOW NOISE - EFFICIENT

CAPACITY FROM 2.5 LPM TO 400 LPM MAX. WORKING PRESSURE 11 KG/CM²
TEMP. 90°C VISCOSITY, 10,000 CST.

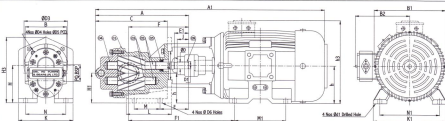
The No.1 Performer, Always

ROTODEL rotary pump type "HGBX" is a self priming bi-directional positive displacement gear pump in simple two piece cast iron construction with single helical modified profile carbon steel gears shrunk fitted on alloy steel hardened & ground shaft as impeller firmly supported on 4 nos of self-lubricated sintered bronze bush bearing. The pump can be run in either direction with change in Inlet-outlet port position. The relief valve operations can be reversed by simply changing the R.V. parts on opposite side. The motorised pump-set in mono-block design ensures perfect alignment, saves space & reduces down time.

- 1) Casing & covers - CI Gr 20, IS - 210
- 2) Drive shafts - EN - 9 hardened & ground
- 3) Impeller gears - EN - 8 toughened

- 4) Bush - Bearing - sintered bronze
- 5) Seals - oilseals nitrile rubber
- 6) R.V. Spring - AISI S.S. 302

- 7) R.V. Ball valve - EN-31 hardened & ground
- 8) R.V. Screw & plug - Brass
- 9) Key for coupling - Mild steel.



PUMP MODEL & SIZE	CAPACITY AT 1440 RPM			POWER REQ.		Motor hp & Frame size	PUMP & PUMPSET DIMENSION																	WT. IN KG.		
				NO LOAD VISCOSUS hp	Unit hp Per Kg. Press.		OVER ALL				MOUNTING								SHAFT							
	LPM	US GPM	M3/hr	200 CST	500 CST		A A1	B B1	C L	H3 h3	D2 E	D3 D4	D5 D6	d1 B2	F F1	K K1	M M1	N N1	D D1	E1 J	H H1	h h1	Pump With Motor	Pump With L-Type Bracket		
'P.O.' BSP	2.5	0.65	0.15	0.10	0.20	0.10	0.50	118.5	64	88	107	45	72	59	8.0	74	78	35	60	09	25	63	71	1.5	9.0	
	5.0	1.30	0.30	0.15	0.22	0.012	0.71	168	145	77	170	47.5	6.6	8.0	-	163	136	90	112	11.0	18	53.5	61.5			
HGBX-050 1/2" x 1/2"	10.0	2.05	0.60	0.20	0.27	0.025	0.75	158.5	70	123	120	52	82	66	10.5	96	90	40	70	11	30	71	80	2.0	12.0	
	15.0	4.00	0.90	0.25	0.32	0.037	80-M	443	165	91	200	61.0	8.5	8.0	-	199	152	100	125	13.0	25	58.5	67.5			
HGBX-075 3/4" x 3/4"	20.0	5.30	1.20	0.35	0.45	0.050	1.00	196.0	80	153	134	60	92	75	10.5	123.5	108	45	85	13	35	80	80	4.0	17.0	
	30.0	6.65	1.50	0.40	0.50	0.065	80-M	481	213	110	200	63.0	8.5	10.0	-	228	152	100	125	16.0	25	66.13	66.0			
HGBX-100 1" x 1"	35.0	9.30	2.10	0.50	0.60	0.078	2.0	204.0	90	158	150	68	100	83	10.5	131	120	50	93	16	35	90	90	5.0	32.0	
	50.0	13.30	3.00	0.60	0.70	0.120	90-L	544	195	125	188	66.0	10.5	10.0	150	251	168	125	140	19.0	25	73	73			
HGBX-125 1 1/4" x 1 1/4"	60.0	16.00	3.60	0.75	0.90	0.134	3.00	244.0	100	196	168	75	115	94	125	157	145	80	105	19	40	100	100	7.5	45.0	
	75.0	20.00	4.50	0.80	0.95	0.170	100-L	624	215	155	250	67.0	10.5	12.5	160	299	192	140	160	22.5	32	80.5	80.5			
HGBX-150 1 1/2" x 1 1/2"	100.0	26.60	6.00	0.90	1.05	0.230	5.00	263.0	108	203	190	85	125	105	12.5	165	150	70	115	24	45	112	112	9.0	65.0	
	125.0	33.30	7.50	1.00	1.15	0.280	112-M	668	235	160	275	81.0	10.5	12.5	170	314	222	140	190	23.5	35	90	90			
HGBX-200 2" x 2"	150.0	40.00	9.00	1.05	1.20	0.340		7.5	323.5	142	253	232	100	148	125.0	12.5	210	190	100	140	24	55	132	132	16.0	90.0
	200.0	53.30	12.00	1.15	1.30	0.450																				
	250.0	65.80	15.00	1.25	1.40	0.560	132-S	793	275	196	320	85.0	14.0	15.0	190	404	254	140	216	28.0	40	105	105			
HGBX-250 2 1/2" x 2 1/2"	300.0	80.00	18.00	1.35	1.55	0.670	10.00	382	160	298	260	115	165	140	12.5	242	210	120	155	27.0	70	160	132	33.0	120.0	
	350.0	93.30	21.00	1.50	1.70	0.780																				
	400.0	105.2	24.00	1.65	1.85	0.890	132-M	892	275	222	320	108.5	14.0	18.0	190	438	254	178	216	31.0	45	128	100			

For calculating power requirement, multiply unit **hp** per Kg Pressure with duty point pressure & add no load viscous **hp** of appropriate viscosity. adequate margin may be provided to this + Higher / lower rating motor can be employed based on duty point power requirement than what is specified as above + Bracket in different height available to match the height of electric motor.

"HGBX" series pumps are designed to run at 1440 RPM up to viscosity of 500 CST, for higher viscosity it is desirable to reduce speed for sizes above 1 1/4". Performance at low speed is always advantageous as it improves efficiency reduces noise level & NPSHR & enhances operational life. Capacity will reduce in proportion to the speed.

Due to simple & compact design & with mono-block version these pumps are ideally suitable for OE application of engine lubrication, pumping & heating units, oil filtration, cleaning & cooling systems. The pump can also be used for general purpose application to handle viscous liquid such as fuel oil, lube oil, LSHS, mineral oil, transformer oil, LDO paints, varnish, glue, glycerine, soap solution, sugar solution & molasses.

A DEL ENTERPRISES
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