

# ROTARY GEAR PUMPS

## SERIES HGX

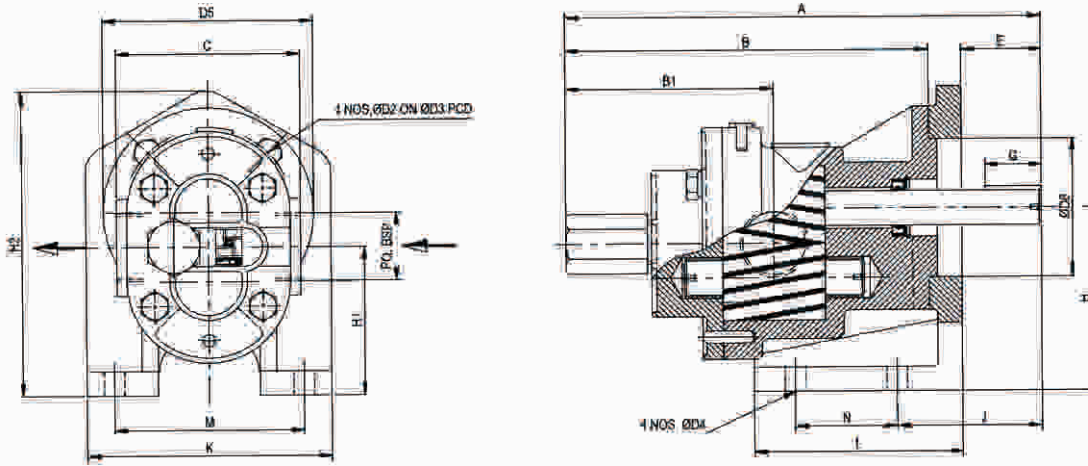
For All Viscous Liquid Pumping



- **General Description** : HGX series pumps are foot mounted with 'L' bracket or Flange mounted general purpose pumps having threaded inlet & outlet ports.
- **Sizes** : 1/4" to 2 1/2" BSP (8 different sizes)
- **Capacity** : 2.5 to 350 LPM.
- **Pressure** : Upto 12 kg/cm<sup>2</sup>.
- **Applications** : All General Purpose Viscous fluid like Lub Oil, Paints, Transformer Oil, LDO

#### MATERIAL OF CONSTRUCTION

Body & Cover	: IS 210 FG 220 C.I. Grade	Gears	: EN-8	Seals	: Oil Seal
Drive Shafts	: EN-19 Hardened & ground	Bush Bearing	: Teflon coated 'DU'	Key for coupling	: Mild steel



#### MODEL-SIZE-CAPACITY CHART & POWER FACTORS

PUMP MODEL & SIZE 'P.Q.' BSP	CAPACITY AT 1440 RPM			POWER REQ.			Motor H.P. & Frame size	PUMP DIMENSION											Wt. OF BARE PUMP IN KG.
	LPM	US GPM	M <sup>3</sup> /hr	NO LOAD VISCOUS H.P. AT		UNIT H.P. Per Kg. Press		OVER ALL			MOUNTING & SHAFT								
				200 CST	500 CST			A C	B B1	H2 L	D D1	D2 D3	D4 D5	D6 E	F G	H H1	J K	M N	
HGX 025	2.5	0.65	0.15	0.10	0.20	0.10	0.50	130	98	107	11	6.8	8	45	3	63	44	60	1.5
1/4"x1/4"	5	1.30	0.30	0.15	0.22	0.012	71	64	56	77	9.5	59	72	20	18	53.5	78	35	
HGX-050	10	2.05	0.60	0.20	0.27	0.025	0.75	167	129	121	13.5	8.5	8	52	4	71	53	70	2.0
1/2"x1/2"	15	4.00	0.90	0.25	0.32	0.037	80	70	78	80	12	66	82	25	22	58.5	90	40	
HGX-075	20	5.30	1.20	0.35	0.45	0.050	1	215	167	134	16	8.5	10	60	5	80	64	85	4.0
3/4"x3/4"	25	6.65	1.50	0.40	0.50	0.065	80	90	92	90	14	75	92	35	25	66	108	45	
HGX-100	35	9.30	2.10	0.50	0.60	0.078	2	235	177	150	19	10.5	10	68	5	90	74	93	4.5
1"x1"	50	13.30	3.00	0.60	0.70	0.120	90-L	92	105	100	17	83	100	42	27.5	73	120	50	
HGX-125	60	16.00	3.60	0.75	0.90	0.134	3	271	203	168	22.5	10.5	12	75	6	100	83	105	7.0
1 1/4"x1 1/4"	75	20.00	4.50	0.80	0.95	0.170	100-L	100	113	110	20	95	115	51	32	80.5	145	60	
HGX-150	100	26.60	6.00	0.90	1.05	0.230	5	285	207	190	24.5	10.5	12	85	6	112	96	115	8.5
1 1/2"x1 1/2"	125	33.30	7.50	1.00	1.15	0.280	112-M	108	120	135	22	105	125	60	35	90	150	70	
HGX-200	150	40.00	9.00	1.05	1.20	1.200	7.5	320	215	232	28	14	15	100	8	132	122	140	16.0
2"x2"	200	53.30	12.00	1.15	1.30	1.300	132-S	142	140	160	25	125	150	85	40	105	190	100	
HGX-250	300	80.00	18.00	1.35	1.55	1.550	10	421	307	260	31	14	18	115	8	160	133	155	32.5
2 1/2"x2 1/2"	350	93.30	21.00	1.50	1.70	1.700	132-M	160	175	182	28	140	165	92	45	128	210	120	

#### SPECIAL NOTES

- 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.
- HGX 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 sized above 1 1/4". Performance at low speed is always advantageous as it improves efficiency reduces noise level & NPSH & enhances operational life. Capacity will reduce in proportion to the speed.

