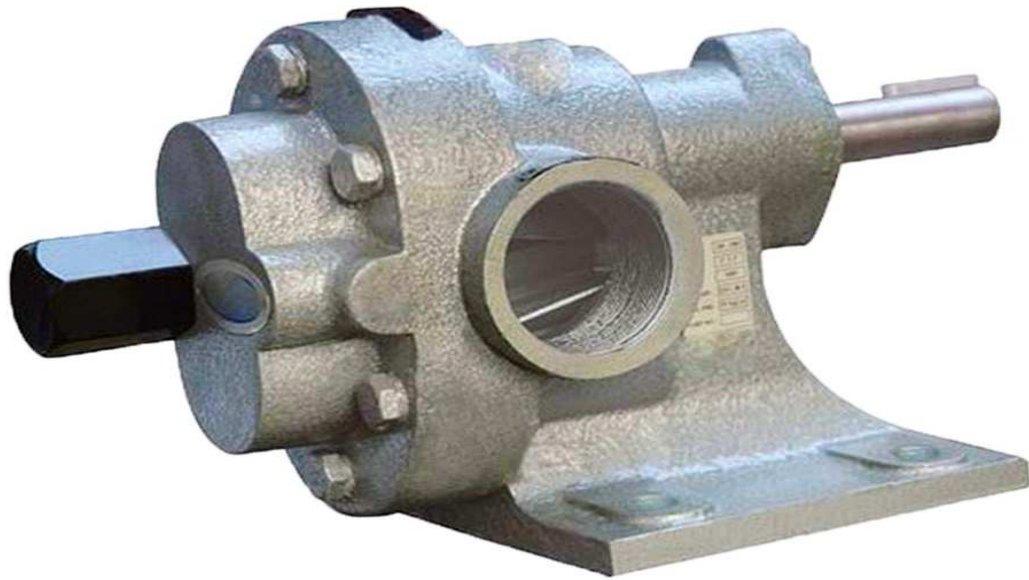


**ROTODYNE**

**TYPE**  
**HGP**

**FOR TRANSFER OF OILS & VISCOUS LIQUIDS**

## **ROTARY GEAR PUMPS**



**“ROTODYNE”** BRAND HGP-SERIES POSITIVE DISPLACEMENT EXTERNAL ROTARY GEAR PUMPS ARE MOST EFFICIENT AND ECONOMIC RANGE WITH VARIETY OF MATERIALS, WHICH HAS SPECIAL FEATURES LIKE SIMPLE & COMPACT DESIGN, LOW NOISE LEVEL, HIGH IN EFFICIENCY AND EASY TO MAINTAIN. THE PUMPS ARE IDEAL FOR HANDLING OF OILS AND VISCOUS LIQUIDS, LIKE ALL KINDS OF FUEL OILS, MINERAL OILS, LUBRICATING OILS, FISH & ANIMAL OILS, VEGETABLE OILS, TAR, ASPHALTANTS, SUGAR SYRUPS, MOLASSES, STARCH, INKS, PAINTS, COLORS, VARNISHES AND VISCOUS CHEMICALS ETC.

**SIZE:** ½” TO 3” BSP CONNECTION

**CAPACITY:** 5 LPM TO 500 LPM

**PRESSURE:** UP TO 10 KG/CM<sup>2</sup>

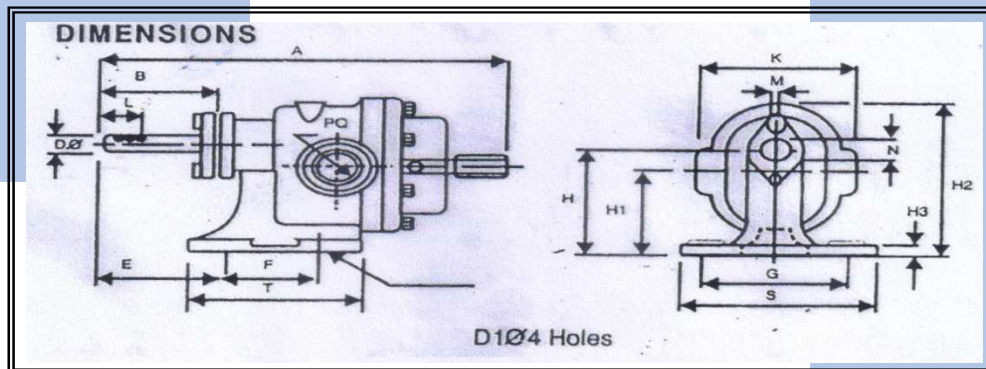
**M.O.C.:** ALL CI, CS, & SS-316.

**MAXIMUM TEMPERATURE:** UP TO 250 DEG. C

**ROTODYNE PUMPS & SYSTEMS (AHMEDABAD, INDIA).**

## PERFORMANCE TABLE

Pump Model	Suction & Delivery (Screw End)	Capacity At 1440 RPM			Recommended Motor BHP at Differential Pressure / Head kg/cm <sup>2</sup> With 1500 SSU Viscosity										Weight Of Bare Pump in Kg.	
		LPM	US GPM	M <sup>3</sup> / Hr	Kg/cm <sup>2</sup>	1	2	3	4	5	6	7	8	9		10
					Mtrs.	10	20	30	40	50	60	70	80	90		100
HGP-050	1/2" X 1/2"	20	5.3	1.2	KW	0.30	0.35	0.40	0.45	0.50	0.55	0.60	0.65	0.70	0.75	2.2
					HP	0.5			0.75			1				
HGP-075	3/4" X 3/4"	30	7.92	1.8	KW	0.37	0.45	0.54	0.62	0.69	0.77	0.85	0.92	1.01	1.09	4.2
					HP	0.75			1			1.5				
HGP-100	1" X 1"	50	13.2	3.0	KW	0.40	0.50	0.60	0.75	0.89	1.04	1.17	1.30	1.46	1.59	5.0
					HP	1.0			1.5			2.0				
HGP-125	1 1/4" X 1 1/4"	75	19.8	4.5	KW	0.70	1.0	1.2	1.4	1.5	1.9	1.95	2.15	2.35	2.55	8.0
					HP	1.5			2.0			3.0				
HGP-150	1 1/2" X 1 1/2"	110	29.0	6.6	KW	1.05	1.45	1.95	2.10	2.40	2.65	2.95	3.25	3.60	3.75	9.5
					HP	2.0			3.0			5.0				
HGP-200	2" X 2"	225	59.4	13.5	KW	2.0	2.5	3.2	3.75	4.3	4.55	5.6	6.2	6.9	7.11	17.2
					HP	3.0			5.0			7.5				
HGP-250	2 1/2" X 2 1/2"	350	92.5	21.0	KW	4.15	5.2	6.1	7.3	8.2	9.1	10.3	11.2	12.1	12.25	28.5
					HP	5.0			10.0			12.5				
HGP-300	3" X 3"	500	131.6	30.0	KW	4.5	6.6	8.4	9.9	11.1	12.1	13.0	13.9	14.9	15.9	40.0
					HP	10.0			15.0			20.0				



MODEL	A	B	E	F	G	S	T	H	H1	H2	H3	L	M	N	DΦ	D1Φ	K	PQ
HGP-050	172	46	51	40	70	90	70	63	50	90	6	22	4	13.5	12	8	70	1/2" B.S.P.
HGP-075	215	54	63.5	45	85	110	80	80	66	115	8	25	5	16.0	14	10	90	3/4" B.S.P.
HGP-100	236	64	64.5	50	93	125	95	90	73	128	8	27.5	5	19.5	17	10	86	1" B.S.P.
HGP-125	266	70	65	60	105	140	110	100	79	140	10	32	6	22.5	20	12	100	1 1/4" B.S.P.
HGP-150	290	75	80	70	115	150	130	110	88	155	12	35	6	24.5	22	12	108	1 1/2" B.S.P.
HGP-200	360	98	92	100	140	180	160	132	105	192	15	40	8	28	25	15	142	2" B.S.P.
HGP-250	420	110	110	120	155	200	185	145	114	215	18	45	8	31	28	17	160	2 1/2" B.S.P.
HGP-300	455	125	120	155	175	235	205	165	124	235	20	50	8	33	32	17	170	3" B.S.P.

**TYPE**  
**HGP**

**ROTODYNE**

## ROTARY GEAR PUMPS

### MATERIAL OF CONSTRUCTION

<i><b>CI/STD</b></i>		<i><b>CI/HT</b></i>	
<b>PART</b>	<b>STANDARD DESIGN</b>	<b>PART</b>	<b>STANDARD DESIGN</b>
<b>BODY</b>	IS.210 FG 220 C.I. GRADE	<b>BODY</b>	IS.210 FG 220 C.I. GRADE
<b>BACK COVER</b>	IS.210 FG 220 C.I. GRADE	<b>BACK COVER</b>	IS.210 FG 220 C.I. GRADE
<b>GEARS</b>	EN-8 HELICAL	<b>GEARS</b>	EN-24 NITRIDED
<b>SHAFT</b>	EN-8 GRIND	<b>SHAFT</b>	EN-19
<b>BUSHES</b>	BRONZE	<b>BUSHES</b>	NON-FERROUS BRONZE
<b>SEAL</b>	NEOPRENE OIL SEAL	<b>SEAL</b>	TEFLON GLAND PACKING (ROPE TYPE)

**ROTODYNE PUMPS & SYSTEMS (AHMEDABAD, INDIA).**