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ROTARY GEAR PUMPS ("SIG" SERIES)



FEATURES

- "SURGE" positive displacement gear pumps are self priming pumps which has totally new pumping concept resulting Reliable and simple design.
- Manufacturing techniques ensure more accuracy in dimensions, interchangeability and pump characteristics..
- There are only two pumping elements in internal gearing principle, this result in unmatched suction characteristics that is impossible in double helical gear pumps.
- There is only one shaft well supported at both ends of rotor for smooth, vibration free running and eliminating bearing problems normally found in the conventional gear pump.
- The noise level is very low and this series needs practically no maintenance and much longer service life then other gear pump. Hence the bearing are lubricated by the pumping fluid and do not need any external lubrication.
- Precision machined components guarantee high volumetric efficiency and overall efficiency.
- Internal gearing principle with axial flow ensures pulsation free continuous flow.
- Compact and light weight design eliminates elaborate foundations.
- Single shaft design permits pump dismantling without removing pump from base or disconnecting pipes. Pump can be serviced in place.

APPLICATION

The SIG series of "SURGE" pumps is used to handle lubricating oils, fuel and other fluids which have lubrication properties. These pumps are ideally suited for following typical application.

- To transfer or circulate the fuel oils.
- Gear lubrication, oil circulation, through cooler, cooling of bearing and in pressure lubrication.
- To transfer all kind of oils without solid particles.
- Boosting of fuel oil pressure for oil burner service and fuel injection pumps.
- Unidirectional flow designs for reversing shaft duties as in machine tools, gear boxes and crane duties.

RANGE

Pressure	: Up to 10 kg/cm ²
Discharge	: 1 LPM to 175 LPM
Pipe size	: 1/4" BSP to 1 1/2" BSP

MATERIAL OF CONSTRUCTION

Pump Body	: C.I.Gr.FG 200
Back Cover with R.V.	: C.I.Gr.FG 200
Rotor Assembly	: Gear-Sintered Iron, Shaft - EN 8
Bush	: Sintered Bronze
Oil Seal	: Nitrile Rubber
Rotor Shaft key	: M.S.
O Ring	: Nitrile Rubber



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PERFORMANCE CHART OF ROTARY GEAR PUMPS

MODEL	PIPE SIZE IN MM SUC. X DEL.	DISCHARGE		PRESSURE IN Kg / cm ²						NET WEIGHT Kgs.
		LPM	M ³ /Hr	0	2	4	6	8	10	
MOTOR REQUIRED IN HP (SPEED 1440 RPM)										
SIG - 1	10 x 10	1	0.06	0.25	0.25	0.25	0.25	0.25	0.50	1.000
SIG - 2.5	10 x 10	2.5	0.15	0.25	0.25	0.25	0.50	0.50	0.50	1.200
SIG - 10	15 x 15	10	0.60	0.25	0.25	0.50	0.50	0.75	0.75	3.000
SIG - 15	15 x 15	15	0.90	0.50	0.50	0.50	0.75	0.75	1.00	3.300
SIG - 20	15 x 15	20	1.20	0.50	0.50	0.75	0.75	1.00	1.50	3.600
SIG - 40	25 x 25	40	2.40	0.50	0.50	0.75	1.00	1.50	2.00	6.800
SIG - 80	40 x 40	80	4.80	1.00	1.00	1.50	2.00	3.00	3.00	8.500
SIG - 125	40 x 40	125	7.50	2.00	3.00	3.00	5.00	5.00	7.50	24.000
SIG - 150	40 x 40	150	9.00	2.00	3.00	3.00	5.00	7.50	7.50	25.000
SIG - 175	40 x 40	175	10.5	2.00	3.00	5.00	5.00	7.50	7.50	26.500

OVER ALL DIMENSIONS OF ROTARY GEAR PUMPS

MODEL	A	B	C	F	G	J	K	L	ØD	ØD1	M	N	H	H1	H2	H3	P
SIG - 1	95	22.5	-	-	55	-	-	15	10	-	3	4	30	30	60	-	¼" B.S.P.
SIG - 2.5	98	22.5	-	-	55	-	-	15	10	-	3	4	30	30	60	-	¼" B.S.P.
SIG - 10	130	37	58	52	106	112	142	22	12.7	9.5	5	5	71	64	102	12	½" B.S.P.
SIG - 15	137	38	59	52	106	112	142	22	12.7	9.5	5	5	71	64	102	12	½" B.S.P.
SIG - 20	152	35	56	52	106	112	142	22	12.7	9.5	5	5	71	64	102	12	½" B.S.P.
SIG - 40	178	52.5	114	74	135	124	145	22	15	9.5	5	5	80	76	146	12	1" B.S.P.
SIG - 80	208	42	100	74	135	140	174	22	15	11.5	5	5	90	86	158	12	1½" B.S.P.
SIG - 125	270	132	194	55	204	190	230	37	24	14	8	7	112	106	310	17	1½" B.S.P.
SIG - 150	276	132	194	55	204	190	230	37	24	14	8	7	112	106	310	17	1½" B.S.P.
SIG - 175	288	132	194	55	204	190	230	37	24	14	8	7	112	106	310	17	1½" B.S.P.



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