



CREATIVE ENGINEERS



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NEW EXTERNAL GEAR PUMP "SEG" SERIES

FEATURES:-

- All Positive displacement rotary gear pumps are self priming pumps with suction lift of 5 meters at mean viscosity and speed 1440 rpm
- The SEG series of MALHAR pump has modified profile of teeth to give accurate discharge within the pressure range .
- The helical gear design delivers constant volume without and pulsation. It also reduces internal slippage and gives high volumetric efficiency.
- Compact in size and highly economical
- All these are self lubricated pumps recommended for use where the liquid to be transferred has lubrication properties Hence the bearing are lubricated by the pumping fluid and do not need any external lubrication.
- Easy maintenance due to availability and interchangeability of spares.
- All MALHAR gear pumps are designed and assembled and with close tolerances to reduce the mechanical losses, thus it consumes less power and operates at higher efficiency.



RANGE:-

Pressure : Up to 10 Kg / cm²
 Discharge : 10 LPM to 500 LPM
 Pipe Size : 1/4" BSP to 3" BSP

MATERIAL OF CONSTRUCTION:-

CAST IRON CONSTRUCTION		STAINLESS STEEL CONSTRUCTION	
Pump Body	:- CI Gr. FG 200	Pump Body	:- CF-8M (SS-316)
Back / RV Cover	:- CI Gr FG 200	Covers	:- CF-8M (SS-316)
Gears	:- En-8	Gears	:- SS-316 Nitrided Spur type
Gear Design	:- Single Helix	Gear Design	:- Single Helix
Shaft	:- En-8 H & G	Shaft	:- SS-316 Nitrided
Shaft Seal	:- Oil Seal	Shaft Seal	:- PTFE Gland Packing / Mechanical seal (C/TC or C/SC)
PRV	:- STD Steel In Built	Mounting Bracket	:- Cast Iron L-Type
Temperature	:- 80 °Deg C	Temperature Limit	:- 150 °Deg C
Bush Bearings	:- Self-Lubricated Sintered	Bush Bearings	:- PTFE Coated DU / PTFE Coated DU/ Bronze CFT-PTFE
Special Note	:- In Built Relief valves provided in all models		

APPLICATION:-

- "MALHAR" Rotary gear pumps are useful for handling following viscous and semi viscous liquid.
- Clean lube oil, Castor oil, Coconut oil, Ground nut oil, Cotton seed oil and Hydraulic oil.
- All kind of vegetable oils.
- Paints & Varnish , Viscous Chemical , Printing Ink.
- All Kind of fish and animal oils.
- Soap Solutions , Glycerin , Glycol and Glue
- Sugar molasses and syrups.
- Rotary gear pumps are widely used in paper mills, refineries, Steel mills and textile Industries.

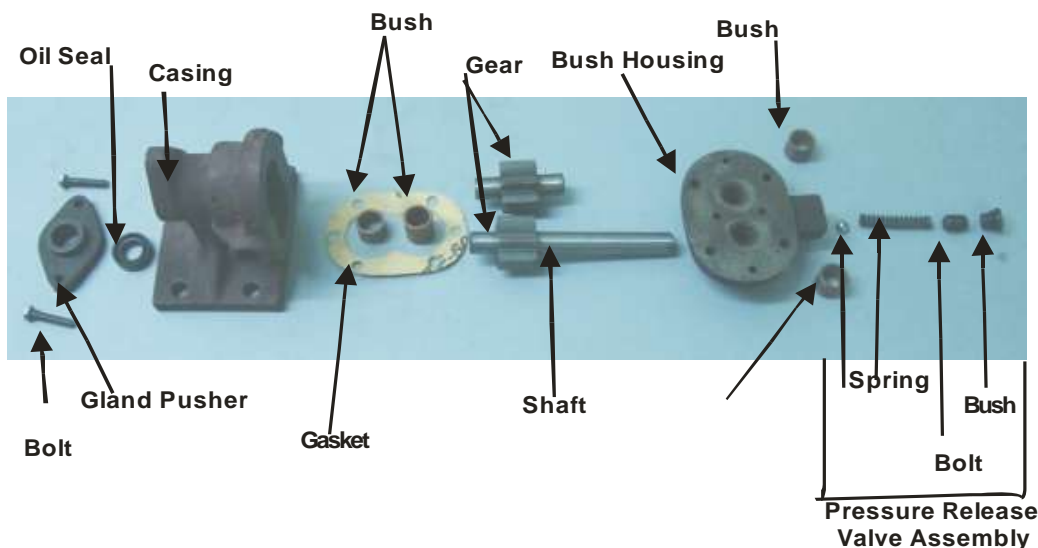
CAST IRON PUMP PERFORMANCE TABLE

MODEL	SUC X DEL MM	CAPACITY		Pressure in Kg/cm ²										NET WEIGHT KGS
				1	2	3	4	5	6	7	8	9	10	
		LPM	M3/H R	Motor required in HP (SPPED 1440 RPM)										
SEG - 5	10 X 10	5	0.6	0.25	0.25	0.25	0.25	0.50	0.50	0.50	0.50	0.75	0.75	2.400
SEG - 20	15 X 15	20	1.2	0.50	0.50	0.5	0.50	0.75	0.75	0.75	0.75	1.00	1.00	2.800
SEG - 30	20 X 20	30	1.8	0.50	0.50	0.75	0.75	0.75	1.00	1.00	1.0	1.50	1.50	5.000
SEG - 50	25 X 25	50	3	0.50	0.75	0.75	1.00	1.00	1.50	1.50	1.5	2.00	2.00	6.000
SEG-75	32 X 32	75	4.5	1.50	1.50	1.50	2.00	2.00	2.00	3.00	3.00	3.00	3.00	8.000
SEG-110	40 X 40	110	6.6	1.50	2.00	3	3.00	3.00	3.00	5.00	5.0	5.00	5.00	11.000
SEG -225	50 X 50	225	13.5	3.00	3.00	5	5.00	5.00	5.00	7.50	7.50	7.50	12.50	18.500
SEG -350	65 X 65	350	21	5.00	7.50	7.5	10.00	10.00	10.00	12.50	12.50	15.00	15.00	29.000
SEG -500	80 X 80	500	30	7.50	10.00	10	12.50	12.5	15.00	15.00	20.00	20.00	20.00	45.000

SS-316 PUMP PERFORMANCE TABLE

MODEL	SUC X DEL MM	CAPACITY		POWER REQUIREMENTS IN HP AT KG/CM ² DIFFERENT PRESSURE AT 500 SSU VISCOCITY LUB OIL.			WT OF PUMP IN KGS (APPROX)
		LPM	M3/HR	02 KG/CM ²	04 KG/CM ²	08 KG/CM ²	
SSEG - 025	10 X 10	5	0.3	0.25	0.25	0.75	3.5
SSEG - 50 R	15 X 15	15	0.9	0.5	0.5	1.0	3.8
SSEG - 50	15 X 15	25	1.5	0.5	1.0	1.5	4.0
SSEG - 100	25 X 25	50	3	1.0	1.5	2.0	6.0
SSEG - 125	32 X 32	80	4.8	2.0	3.0	5.0	11.0
SSEG - 150	40 X 40	125	7.5	2.0	3.0	5.0	15.0
SSEG - 200-R	50 X 50	150	9	3.0	5.0	7.5	21.0
SSEG - 200	50 X 50	200	12	5.0	7.5	10.0	22.0

SEG PUMP SPARES





BELT AND TROLLEY DRIVEN GEAR PUMP