



Multi Purpose Rotary Gear Pump

MGT Series



Range :

Capacity	: Up to 830LPM
Working Pressure	: Up to 150 PSI
Viscosity	: Up to 5000 CST
Temperature	: Up to 200 °C.
Size	: Up to 4"

Design :

MGT series gear pump is designed with double helical type gears machined to a close tolerance ensure highest efficiency without making abnormal noise even at higher speed.

Features :

- Volumetric rotary gear principle guarantees non pulsating flow of low to high viscous fluids.
- High efficiency due to free flow of liquid through unobstructed passage in pump.
- Inbuilt safety relief valve.
- Modular concept with double helical type gears, bush bearings and shaft sealing with soft packing ensures smooth operation with low maintenance costs.
- Mechanical seal can be offered on demand as shaft sealing.
- Ball bearings , roller bearings can be offered on demand.
- Compact yet rugged construction.

Applications :

The wide range of applications include transfer and circulation pump for chemical, petrochemical, food oil, steel, Refining, paints, dyes, marine, dairy, sugar, pharmaceutical, detergent, paper, textile industries etc.

List of Liquids which are suitable to handle by MGT series Rotary Gear pump.

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|----------|------------|---------|-------|-----------|------------|--------------|-------------------|----------------|
| • Acid | • Coal tar | • Oil | • Ink | • Yeast | • Glue | • Ammonia | • Phenolic resins | • Fruit Juices |
| • Bleach | • Lard | • Paint | • Tar | • Varnish | • Gasoline | • Silicate | • Hot Grease | • Molasses |
| • Dyes | • L.D.O. | • Soap | • Gum | • Vinegar | • Glycerin | • Turpentine | • Kerosene | |

MULTI PURPOSE ROTARY PUMP				
STANDARD MOC AVAILABLE IN DIFFERENT TYPE				
Type	Pump Housing	Back Cover	Shaft & Gear	Bush Bearings
A	CI (IS210 Gr. FG 260)	CI (IS210 Gr. FG 260)	EN-8 (BS-970)	Bronze (IS318 Gr. LTB2)
B	CF8M (ASTM A 351 SS316)	CF8M (ASTM A 351 SS316)	SS316 (ASTM A276 TYPE 316)	GLASS FILLED PTFE
C	CF8 (ASTM A351 SS304)	CF8 (ASTM A351 SS304)	SS304 (ASTM A276 TYPE 304)	GLASS FILLED PTFE
D	CARBON STEEL (ASTM A216 Gr. WCB)	CARBON STEEL (ASTM A216Gr. WCB)	EN-8 (BS-970)	Bronze (IS318 Gr. LTB2)
E	CI (IS210 Gr. FG 260)	CI (IS210 Gr. FG 260)	SS316 (ASTM A276 TYPE 316)	GLASS FILLED PTFE
F	CI (IS210 Gr. FG 260)	CI (IS210 Gr. FG 260)	SS304 (ASTM A276 TYPE 304)	GLASS FILLED PTFE
K	CF3M (ASTM A351 SS316L)	CF3M (ASTM A351 SS316L)	SS316L (ASTM A276 TYPE SS316L)	GLASS FILLED PTFE

Note: For any other material combination, please contact us.

PERFORMANCE TABLE								
PUMP MODEL	SIZE IN MM	CAPACITY AT 1500 RPM			POWER CONSUMPTION IN HP (K.W.) WITH 1500 RPM DRIVE FOR LIQUID HAVING 400 SSU/100 CP VISCOCITY AT DIFFERENTIAL PRESSURE AT STATED BELOW			WEIGHT OF (APPROX BARE SHAFT PUMP IN KGS.)
NO.	MM	LPM	US GPM	M3/HR	50 PSI	100 PSI	150 PSI	
MGT-15	12 X 12	20	5.30	1.2	0.5 (0.37)	0.75 (0.55)	1.5 (0.75)	05.300
MGT-20	20 X 20	30	7.92	1.8	1.0 (0.75)	1.5 (1.1)	2 (1.5)	05.300
MGT-25	25 X 25	50	13.20	3.0	1.5 (1.1)	2 (1.5)	3 (2.2)	07.100
MGT-40	40 X 40	160	42.20	9.6	3.0 (2.2)	5.0 (3.7)	7.5 (5.5)	18.000
MGT-50	50 X 50	225	59.40	13.5	5.0 (3.7)	7.5 (5.5)	10 (7.5)	21.500
MGT-65	65 X 65	350	92.50	21.0	7.5 (5.5)	10 (7.5)	15 (11)	24.500
MGT-80	80 X 80	500	132.00	30.0	10 (7.5)	15 (11)	20 (15)	32.000
MGT-100	100 X 100	666	176.00	40.0	15 (11)	20 (15)	25 (18.5)	80.000
MGT-100b	100 X 100	833	220.00	50.0	20 (15)	25 (18.5)	30 (22)	80.000

Note: Maximum Temperature 200° C, Maximum Viscosity 5000 cst



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