

EXTERNAL GEAR PUMP (FTNX/FTBX)



EXTERNAL GEAR PUMP | VISCOUS LIQUID GEAR PUMP

Fluid Tech Systems offer “**ROTOFLUID**” brand External Gear Pump Model “FTNX/FTBX” (Rotary Pump - Viscous Liquid Gear Pump) which is heavy duty flange and foot mounting type positive displacement rotary gear pump. Model “FTNX/FTBX” is modified version of Model “FTRN/FTRB” to achieve high pressure. These pumps having doubled helical finished gears and hardened & ground shafts. Due to double helical gear it prevent axial load and side thrust which help to increase life and performance of pump. Model “FTBX” is a bush bearing type pump which can be used for viscous liquid having sufficient lubricating value for intermittent duty; however for continuous duty pump have needle roller bearing in Model “FTNX” and it will be selected for liquid having low viscosity, power lubricating values.

In these pumps size ½" to 2" are provided with thread at end of suction & delivery and they are available with foot or flange mounting, But in size 2.5" to 4" are provided with flange at the end of suction & delivery and they are available with foot mounting only. These pumps can be operated up to pressure of 20 kg/cm² with 5.0 LPM to 900 LPM flow capacity. These pumps are suitable for liquid up to viscosity of 1,00,000 SSU and maximum temperature up to 200°C.

External Gear Pump | Material of Construction

Part	Material For FTNX	Material For FTBX
Pump Body	CI/CS	CI/CS
Front Cover	CI/CS	CI/CS
Back Cover	CI/CS	CI/CS
Gland Cover	CI/CS	CI/CS
Rotor/Stator Shaft	EN-19	EN-19
Gear	EN-24/EN-353	EN-24/EN-353
Needle/Bush Bearing	INA/IKO [Japan]	Non- Ferrous
Wear Plate	Non- Ferrous	Non- Ferrous
Sealing	"GFO" Pack Teflon / Mech. Seal	"GFO" Pack Teflon / Mech. Seal
R.V. Housing	Mild Steel	Mild Steel
R.V. Piston	EN – 8	EN – 8
R.V. Spring	Spring Steel	Spring Steel
R.V. AD. Screw	EN-8	EN-8
Key	EN-8	EN-8
Hex - Bolt	Mild Steel	Mild Steel

External Gear Pump | Technical Specification

Model FTNX/FTBX	Suction & Delivery Size	Capacity at 1440 RPM		
		LPM	US GPM	M ³ /hr
050 - S	½" X ½"	05	1.3	0.3
050 - M	½" X ½"	8.3	2.2	0.5
050 - L	½" X ½"	16	04.4	1.0
100 - S	1" X 1"	25	06.6	1.5
100 - M	1" X 1"	33.3	08.8	2.0
100 - L	1" X 1"	41.6	11.0	2.5
125 - S	1¼" X 1¼"	50	13.2	3.0
125 - M	1¼" X 1¼"	60	16.6	3.6
125 - L	1¼" X 1¼"	83	22.0	5.0
150 - S	1½" X 1½"	100	26.5	6.0
150 - M	1½" X 1½"	125	33.0	7.5
150 - L	1½" X 1½"	150	39.7	9.0
200 - S	2" X 2"	166.6	44.1	10.0
200 - M	2" X 2"	200	53.0	12.0
200 - L	2" X 2"	250	66.2	15.0
250 - S	2 ½" X 2 ½"	300	79.5	18.0
250 - M	2 ½" X 2 ½"	333	83.3	20.0
250 - L	2 ½" X 2 ½"	350	92.7	21.0

300 - S	3" x 3"	400	106.0	24.0
300 - M	3" x 3"	450	119.0	27.0
300 - L	3" x 3"	600	159.0	36.0
400 - S	4" x 4"	700	185.5	42.0
400 - M	4" x 4"	800	212.0	48.0
400 - L	4" x 4"	900	238.5	54.0

External Gear Pump | Features

- High pressure pump offered to 20 Bar.
- Heavy duty gear pump design for continuous application.
- Modification tooth profile enhances the tool life.
- Optionally In Floating gear design ensures uniform load distribution.
- Heavy duty gear pump double helical design prevent axial load and side thrust.
- Shorter bearing span reduces bending effect.
- Low leakage path by design improve volumetric efficiency.

External Gear Pump | Application

- Power plant.
- Steel plant.
- Cement plant.
- Bitumen plant.
- Petroleum industries.

- Refineries
- Pumping station.
- All kind of liquid loading and unloading.