

Series : FTSS

Perfect Solution

for Transfer of Corrosive, Hygienic
& Viscous Liquid



All Stainless Steel

ROTARY GEAR PUMPS

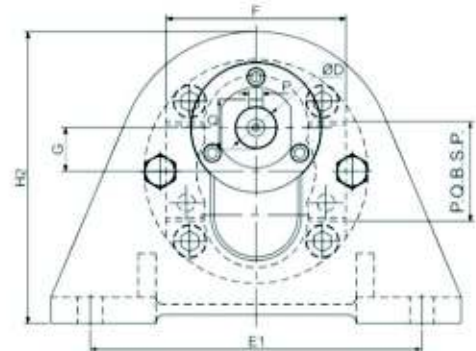
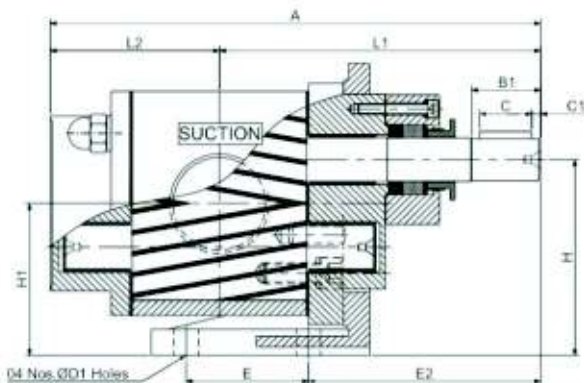
*“Let Our
Quality Speak
For Itself”*

ADVANCED TECHNOLOGY FOR PUMPING VISCOUS LIQUID

Fluid Tech Systems offers "ROTOFLUID" brand gear pump model "FTSS" which is self priming bi-directional, positive displacement rotary pump in all stainless steel (SS-316) investment casting construction with nitrided gear/shaft & dry - teflon coated DU bush bearing requiring no lubrication. These pump in three piece construction are easily cleanable and maintainable. The back cover can simply be removed by four dom nut or the right angle mounting brackets facilitate foot mounting of the pump on base plate with electric motor of appropriate ratings.

MATERIAL OF CONSTRUCTION

| | | |
|--------------------------------|--|-----------------------------------|
| ★ Pump Body : CF8M - S.S.316 | ★ R.H.& L.H. Gear : AISI - S.S. 316 | ★ Dom Nut : AISI - S.S.316 |
| ★ Front Cover : CF8M - S.S.316 | ★ Rotor / Stator Shaft : AISI - S.S. 316 | ★ Sealing : "Z" Pack teflon |
| ★ Back Cover : CF8M - S.S.316 | ★ Bush Bearings : Teflon coated 'DU' | ★ Packing : Teflon Sheet |
| ★ Gland Cover : CF8M - S.S.316 | ★ Mounting Bracket : C.I.Gr. - 20 IS 210 | ★ Key for Coupling : AISI S.S.316 |



MODEL & POWER CHART

| PUMP MODEL FTSS | SUCTION & DELIVERY | CAPACITY at 1440 RPM | | | POWER REQ. NO LOAD VISCOUS H.P.at | | | Unit H.P Per Kg. press | PUMP DIMENSION | | | | | | | | | | | | | WT. OF PUMP IN KG. | | | | |
|--------------------|--------------------|----------------------|--------|-------|-----------------------------------|---------|---------|------------------------|----------------|------------|-----|------------------|-----|----|-----|-----|-----|------|-----------|---------|---------|--------------------|-------|----|--|--|
| | | LPM | US GPM | M3/hr | 200 CST | 500 CST | 750 CST | | OVER ALL | | | MOUNTING & SHAFT | | | | | | | | | | | | | | |
| | | | | | | | | | | | A | F G | H2 | L1 | L2 | E | E1 | E2 | H | H1 | D D1 | C C1 | P Q | B1 | | |
| 025 | ¼"X¼" | 8.3 | 2.2 | 0.5 | 0.20 | 0.25 | 0.35 | 0.02 | 129 | 54 12.5 | 101 | 94 | 35 | 40 | 120 | 82 | 63 | 50.5 | 11.5 8 | 17 3 | 4 13 | 25 | 2.00 | | | |
| 040 | 3/8"X3/8" | 16.6 | 4.4 | 1.0 | 0.35 | 0.40 | 0.55 | 0.04 | 134 | 61 | 112 | 98 | 36 | 50 | 120 | 88 | 71 | 57 | 11.5 | 17 | 4 | 25 | 3.00 | | | |
| 050 | ½"X½" | 25 | 6.6 | 1.5 | 0.40 | 0.50 | 0.70 | 0.06 | 146 | 14 | 112 | 103 | 41 | 50 | 120 | 88 | 71 | 57 | 8 | 3 | 13 | 25 | 3.50 | | | |
| 075 | ¾"X¾" | 33.3 | 8.8 | 2.0 | 0.45 | 0.55 | 0.90 | 0.09 | 160 | 72.5 | 128 | 123 | 46 | 55 | 140 | 92 | 90 | 73 | 14 | 25 | 5 | 35 | 4.50 | | | |
| 100 | 1"X1" | 50 | 13.2 | 3.0 | 0.50 | 0.60 | 1.0 | 0.13 | 177 | 17 | 128 | 115 | 52 | 55 | 140 | 92 | 90 | 73 | 10.5 | 3 | 16 | 35 | 5.00 | | | |
| 125 | 1¼"X1¼" | 100 | 26.4 | 6.0 | 0.65 | 0.85 | 1.25 | 0.28 | 210 | 90 | 149 | 143 | 66 | 50 | 155 | 111 | 100 | 79 | 18 | 30 | 6 | 38 | 7.00 | | | |
| 150 | 1½"X1½" | 125 | 33.0 | 7.5 | 0.75 | 0.95 | 1.50 | 0.35 | 225 | 21 | 149 | 151 | 73 | 50 | 155 | 111 | 100 | 79 | 12 | 3 | 20.5 | 38 | 10.50 | | | |
| 200 | 2"X2" | 150 | 39.6 | 9.0 | 0.90 | 1.15 | 1.75 | 0.45 | 251 | 103 | 167 | 162 | 85 | 70 | 190 | 131 | 112 | 87 | 24 | 30 | 8 | 40 | 20.50 | | | |
| 200 | | 200 | 52.8 | 12.0 | 1.00 | 1.25 | 2.15 | 0.60 | 281 | 25 | 167 | 179 | 97 | 70 | 190 | 131 | 112 | 87 | 14 | 5 | 27 | 40 | 24.00 | | | |
| 250 | 2½"X2½" | 250 | 66.0 | 15.0 | 1.20 | 1.40 | 2.35 | 0.65 | 299 | 122 | 197 | 206 | 93 | 85 | 200 | 161 | 132 | 102 | 28 | 40 | 8 | 50 | 35.00 | | | |
| 250 | | 300 | 79.25 | 18.0 | 1.40 | 1.65 | 2.50 | 0.77 | 319 | 30 | 197 | 218 | 101 | 85 | 200 | 161 | 132 | 102 | 16 | 5 | 32 | 50 | 40.00 | | | |

SPECIAL NOTE

For calculating the power requirement at duty point, multiply the duty point pressure with unit horse power & add no load viscous power of appropriate viscosity, provide safety margin before fixing the rating of the prime mover. For higher viscosity further margin may be kept or the manufacturer may be consulted. All sizes of "FTSS" pumps are designed to run at 1440 RPM up to viscosity of 500 CST. For small size pump up to 1" same can be safely run at 1440 RPM even at higher viscosity up to 1000 CST with additional horse power. For sizes above 1" reduce the speed to 960 RPM for viscosity up to 1000 CST. For higher viscous liquids, consult the manufacturer to avoid cavitation & over loading problem.

APPLICATION

This compact and efficient SS pump can be used for handling viscous food products like Ghee, Butter, Fruit pulp, Vegetable sauce, Starch etc. They are also used in Pharmaceutical industries for handling sugar solution, Glycerine, glycol etc. In chemical industries corrosive viscous chemicals can be easily handled with this pump most effectively.