

Series 3700/37X

Roller Bearing Gear Pumps & Motors

- Single or multiple units available.
- Displacement 25 cc/rev to 152 cc/rev.
- Gear widths 1/2" to 3".
- Minimum operating speed 400 rpm.
- Maximum continuous operating speed 2000 rpm.
- Maximum continuous operating pressure 2250 psi (155 bar).
- Drive shaft PL factor: 11000.
- Cast iron construction.
- Double bearing options available for side load applications.



Mounting Flange Options:

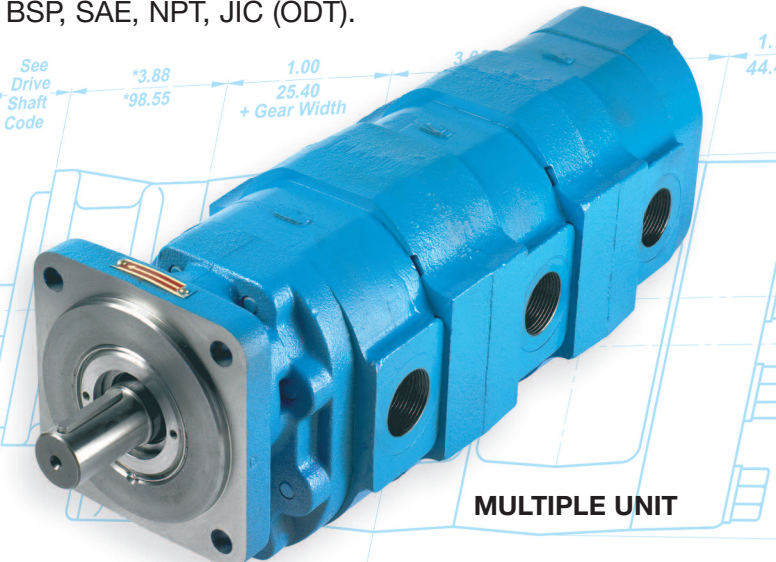
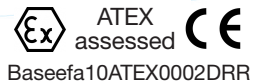
SAE 'B' 2 bolt, SAE 'B' 4 bolt, SAE 'C' 2 bolt, SAE 'C' 4 bolt, pad mount.

Drive Shaft Options:

SAE 'C' 14 tooth, SAE 'C' keyed, 1.1/8" keyed, 1.1/4" keyed.

Various Porting Options:

BSP, SAE, NPT, JIC (ODT).



Recommended Operating Conditions:

- Fluid viscosity, normal operating conditions 16 to 220 cst.
- Fluid temperature should not exceed 65 deg. C.
- Fluid cleanliness, 10 micron filter with Beta 200 rating is recommended.
- Inlet pressure; for best operation with mineral oil, pressure should not exceed minus 0.237 bar (7 in HG).

Performance and Dimensions overleaf

Please discuss your application with our sales engineers.

Series 3700 Pumps and Motors

PERFORMANCE DATA

Pump Performance

Output- L/min/igpm – Input-Kw/Horsepower ▶		Input Speed – rpm							
		1000		1500		1800			
Output	Input	Output	Input	Output	Input	Output	Input		
05	1/2	25	155/2250	21 / 4.6	8 / 10	33 / 7.3	11 / 15	41 / 9.0	14 / 18
07	3/4	37	155/2250	32 / 7.0	11 / 15	50 / 11.0	17 / 23	61 / 13.4	20 / 27
10	1	50	155/2250	42 / 9.3	15 / 20	66 / 14.5	23 / 30	81 / 17.8	27 / 36
12	1.1/4	62	138/2000	53 / 11.7	18 / 24	83 / 18.3	27 / 36	102 / 22.5	33 / 44
15	1.1/2	75	138/2000	66 / 14.5	21 / 28	102 / 22.5	32 / 43	124 / 27.3	39 / 52
17	1.3/4	87	138/2000	79 / 17.4	25 / 33	121 / 26.7	37 / 49	147 / 32.4	44 / 59
20	2	100	138/2000	91 / 20.0	27 / 36	139 / 30.6	41 / 55	168 / 37.0	50 / 66
22	2.1/4	112	138/2000	104 / 22.9	31 / 41	158 / 34.8	47 / 62	190 / 41.9	56 / 75
25	2.1/2	125	138/2000	116 / 25.6	35 / 46	175 / 38.5	51 / 69	211 / 46.5	62 / 82
30	3	150	138/2000	138 / 30.4	42 / 56	207 / 45.6	63 / 84	249 / 54.8	76 / 101

- Flows quoted are at test pressures of 138 bar/2000 psi, using 32cSt oil at 65 deg C.
- Performance data is derived from tests conducted to simulate working conditions. Continuous operation at maximum performance may compromise unit life. If in doubt when specifying, please consult our sales department.

Motor Performance

Gear widths – code		Output Speed – rpm					
		800	1000	1400	1800		
Gear widths – code	10	1	Output Kw / hp	7.5 / 10.0	9.5 / 12.5	13.0 / 17.0	15.0 / 20.0
			Output Nm / in.lb	90.5 / 800	89.5 / 790	87.0 / 770	80.0 / 710
			Input l.min / igpm	51.0 / 11.0	62.5 / 13.5	81.0 / 18.0	104.0 / 23.0
	15	1.1/2	Output Kw / hp	12.0 / 16.0	15.0 / 20.0	20.0 / 26.5	24.5 / 32.5
			Output Nm / in.lb	143.5 / 1270	141.5 / 1250	137.0 / 1210	129.5 / 1145
			Input l.min / igpm	73.5 / 16.0	89.0 / 19.5	119.0 / 26.0	151.0 / 33.0
	20	2	Output Kw / hp	16.5 / 22.0	20.5 / 27.5	27.0 / 36.0	33.5 / 45.0
			Output Nm / in.lb	198.0 / 1750	194.5 / 1720	189.5 / 1675	180.5 / 1595
			Input l.min / igpm	100.0 / 22.0	121.0 / 26.5	159.0 / 35.0	206.0 / 44.0
	25	2.1/2	Output Kw / hp	21.5 / 28.5	34.5 / 46.0	45.5 / 61.0	48.0 / 64.0
			Output Nm / in.lb	253.0 / 2240	250.0 / 2210	246.5 / 2180	237.5 / 2100
			Input l.min / igpm	121.0 / 26.5	147.5 / 32.5	196.5 / 43.0	247.0 / 54.5
30	3	Output Kw / hp	26.5 / 35.5	32.5 / 43.5	43.5 / 58.5	54.5 / 73.0	
		Output Nm / in.lb	316.5 / 2800	314.0 / 2780	306.0 / 2710	290.0 / 2560	
		Input l.min / igpm	140.0 / 30.5	170.0 / 37.5	230.0 / 50.5	291.0 / 64.0	

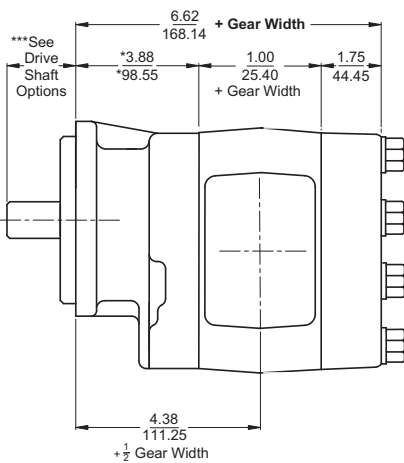
* These gear widths are the popular sizes for motor configurations but any of the gear widths listed in the Pump Performance table can be supplied.

WEIGHTS (approximate)

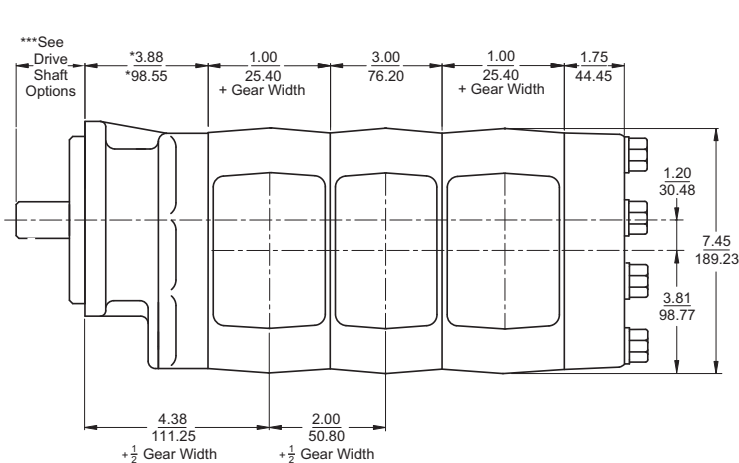
Gear widths (ins)	1/2	3/4	1	1.1/4	1.1/2	1.3/4	2	2.1/4	2.1/2	2.3/4	3
Single unit (kg)	24.0	24.5	25.5	26.5	27.5	28.5	29.5	31.0	32.5	-	35.5

For multiple unit weights, please consult our sales department.

DIMENSIONS

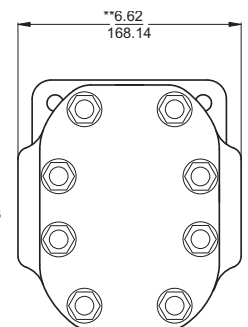


SINGLE UNIT



*For double bearing option, dimensions are 5.75 (146.05) MULTIPLE UNIT

SINGLE UNIT



**Standard port arrangement, dimension will change with type of port.

***Dimensional information for mounting flange and shaft options are shown on the attached Data Sheet FS100.

