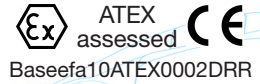
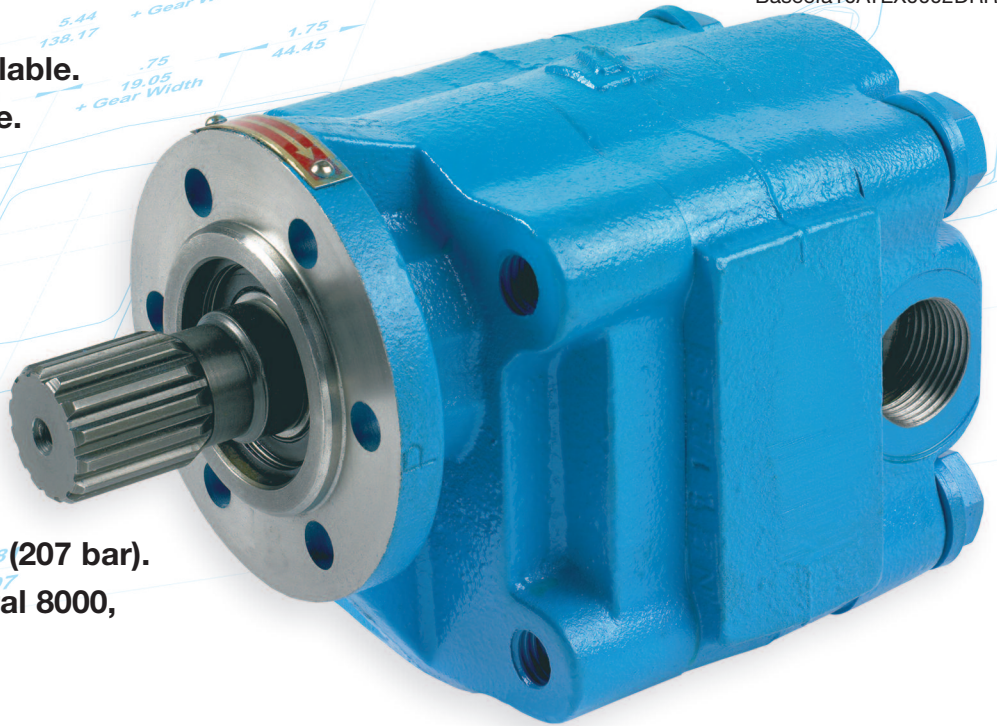


Series 3000/30 & 3100/31

Roller Bearing Gear Pumps, Motors and Flow Dividers



- Single or multiple units available.
- Piggy back options available.
- Type II mounting available.
- Displacement 16 cc/rev to 82 cc/rev.
- Gear widths 1/2" to 2.1/2".
- Minimum operating speed 400 rpm.
- Maximum continuous operating speed 2000 rpm.
- Maximum continuous operating pressure 3000 psi (207 bar).
- Drive shaft PL factor: Integral 8000, Continental 6000.
- Cast iron construction.
- Dowelled units available.



SINGLE UNIT

Mounting Flange Options:

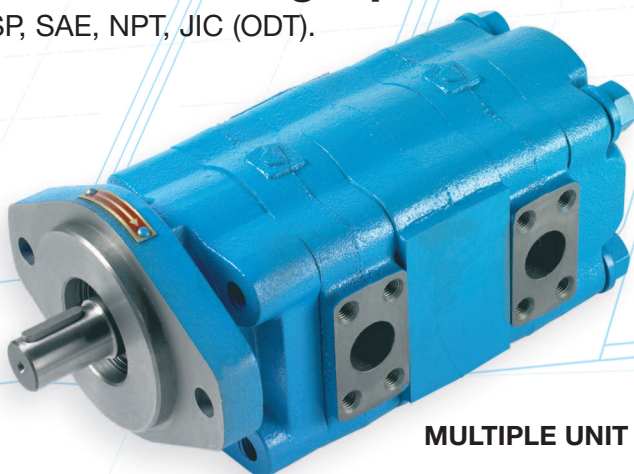
SAE 'A' 2 bolt, SAE 'B' 2 bolt, SAE 'B' 4 bolt, SAE 'C' 4 bolt, 6 bolt round, pad mount.

Drive Shaft Options:

SAE 'A' 9 tooth, SAE 'B' 13 tooth, SAE 'BB' 15 tooth, SAE 'C' 14 tooth, SAE 'B' keyed, SAE 'BB' keyed, SAE 'C' keyed, 1.1/8" keyed, 3/4" keyed.

Various Porting Options:

BSP, SAE, NPT, JIC (ODT).



MULTIPLE UNIT

Recommended Operating Conditions:

Fluid viscosity, normal operating conditions 16 to 220 cst.
 Fluid temperature should not exceed 65 deg. C.
 Fluid cleanliness, 25 micron filter with Bio 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 3000/30 Pumps, Motors and Flow Dividers

PERFORMANCE DATA

Pump Performance

Output- L/min/igpm – Input-Kw/Horsepower ▶				Input Speed – rpm									
				1000		1500		1800					
				Output	Input	Output	Input	Output	Input				
Gear widths – code	05	Gear widths – inches	1/2	Displacement – cc/rev	16	Maximum continuous working pressure – bar/psi	207/3000	13 / 2.8	4 / 6	21 / 4.5	7 / 9	26 / 5.6	8 / 11
	07		3/4		25		207/3000	19 / 4.1	6 / 8	31 / 6.8	10 / 13	38 / 8.4	11 / 15
	10		1		32		207/3000	25 / 5.5	8 / 11	41 / 9.0	13 / 17	51 / 11.2	15 / 20
	12		1.1/4		41		207/3000	31 / 6.9	10 / 13	53 / 11.7	17 / 22	66 / 14.5	20 / 26
	15		1.1/2		49		180/2610	42 / 9.2	12 / 16	66 / 14.5	20 / 27	81 / 17.9	27 / 32
	17		1.3/4		57		180/2610	48 / 10.6	14 / 19	77 / 17.0	23 / 31	94 / 20.8	28 / 37
	20		2		65		180/2610	57 / 12.5	17 / 22	90 / 19.8	27 / 36	109 / 24.1	32 / 43
	22		2.1/4		74		155/2250	68 / 14.9	17 / 22	102 / 22.4	27 / 36	122 / 26.8	36 / 48
	25		2.1/2		82		155/2250	75 / 16.6	18 / 24	113 / 24.9	29 / 39	135 / 29.8	40 / 53

- Flows quoted are at test pressures of 138 bar/2000 psi, using 32cSt oil at 65 deg C.
- Dowelled units also available 3100/31.
- 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

				Output Speed – rpm					
				800	1200	1600	2000		
Gear widths – code	10	*Gear widths – inches	1	Input flow, Output hp & torque	Output Kw / hp	5.5 / 7.5	8.0 / 11.0	11.0 / 14.5	13.0 / 17.5
					Output Nm / in.lb	65.0 / 575	64.5 / 570	64.0 / 565	62.5 / 555
					Input l.min / igpm	38.5 / 8.5	52.5 / 11.5	64.0 / 14.1	77.0 / 17.0
	15		1.1/2		Output Kw / hp	8.5 / 11.5	12.5 / 17.0	17.0 / 22.5	20.5 / 27.5
					Output Nm / in.lb	101.5 / 900	100.5 / 890	99.5 / 880	97.0 / 860
					Input l.min / igpm	52.0 / 11.5	73.0 / 16.0	91.0 / 20.0	111.0 / 24.5
	20		2		Output Kw / hp	11.0 / 15.0	17.0 / 22.5	21.5 / 29.0	27.0 / 36.0
					Output Nm / in.lb	133.5 / 1180	132.0 / 1170	131.0 / 1160	128.0 / 1130
					Input l.min / igpm	68.0 / 15.0	91.0 / 20.0	123.0 / 27.0	147.5 / 32.5

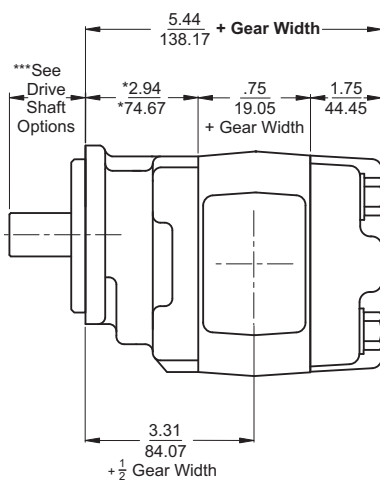
* These gear widths are the popular sizes for motor configurations but any of the gear widths listed in the Pump Performance table can be supplied.

WEIGHTS (approximate)

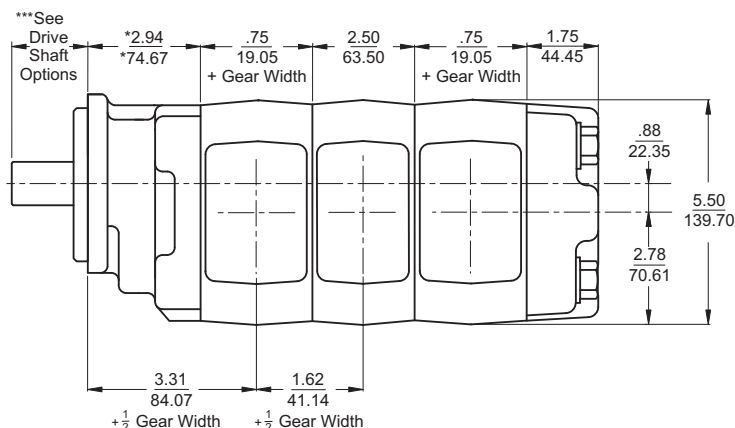
Gear widths (ins)	1/2	3/4	1	1.1/4	1.1/2	1.3/4	2	2.1/4	2.1/2
Single unit (kg)	13.5	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5

For multiple unit weights, please consult our sales department.

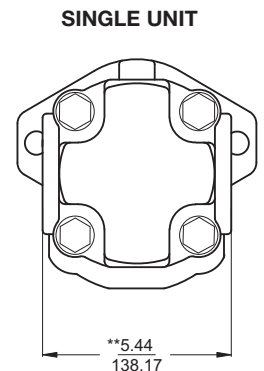
DIMENSIONS



SINGLE UNIT



MULTIPLE UNIT



SINGLE UNIT

*Dimensions for Type II mounting $\frac{1.81}{45.97}$

**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.



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