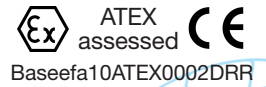
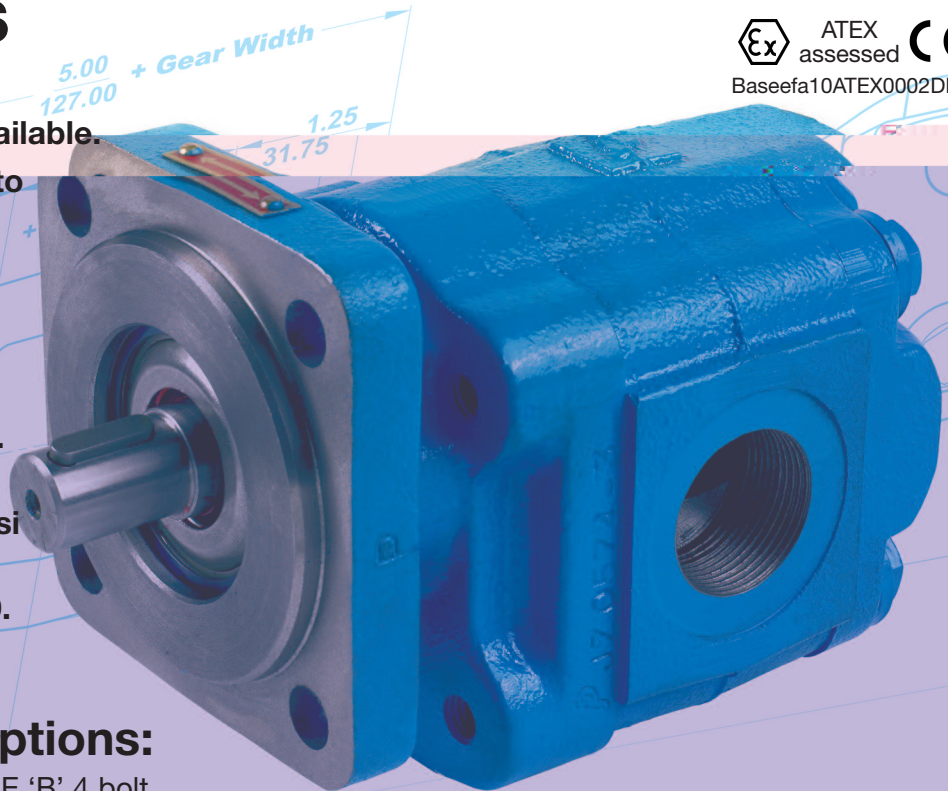


# Series 1500/15H

## Roller Bearing Gear Pumps and Motors



- Single or multiple units available.
- Displacement 5.95 cc/rev to 47.6 cc/rev.
- Gear widths 1/4" to 2".
- Minimum operating speed 400 rpm.
- Maximum continuous operating speed 2000 rpm.
- Maximum continuous operating pressure 2000 psi (138 bar).
- Drive shaft PL factor: 7000.
- Cast iron construction.



### Mounting Flange Options:

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

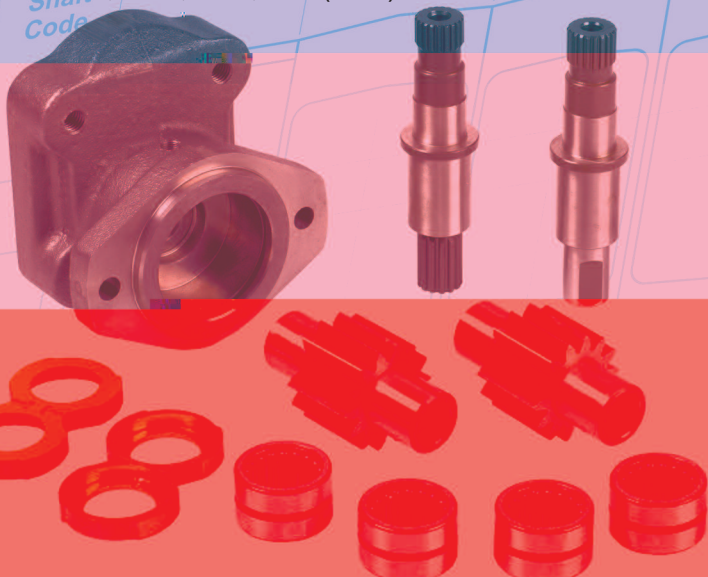
SINGLE UNIT

### Drive Shaft Options:

6 tooth, SAE 'A' 9 tooth, SAE 'B' 13 tooth, SAE 'C' 14 tooth. SAE 'A' keyed, SAE 'B' keyed, SAE 'C' keyed, 3/4" keyed, 1" 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, 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 1500/15H 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			
Gear widths – code	05	*Gear widths – inches	1/2	Displacement – cc/rev	12	Maximum continuous working pressure – bar/psi	138/2000	7 / 1.6	3 / 4	13 / 2.8	5 / 7	16 / 3.5	6 / 8
	07		3/4		18		138/2000	10 / 2.3	4 / 6	19 / 4.2	7 / 10	24 / 5.3	8 / 11
	10		1		24		138/2000	14 / 3.1	5 / 7	26 / 5.8	9 / 12	33 / 7.3	11 / 15
	12		1.1/4		30		138/2000	18 / 3.9	7 / 9	33 / 7.3	11 / 15	42 / 9.2	14 / 18
	15		1.1/2		36		138/2000	21 / 4.6	8 / 11	40 / 8.9	14 / 18	51 / 11.2	16 / 22
	17		1.3/4		42		138/2000	24 / 5.4	10 / 13	47 / 10.4	16 / 18	60 / 13.1	19 / 25
	20		2		48		138/2000	28 / 6.2	11 / 15	54 / 11.9	18 / 24	68 / 15.0	22 / 29

● Flows quoted are at test pressures of 138 bar/2000 psi, using 32cSt oil at 65 deg C.

● 1/4" gear width also available, ask sales engineers for details.

● 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	3.5 / 5.0	5.5 / 7.5	7.0 / 9.5	9.0 / 12.0
					Output Nm / in.lb	45.0 / 400	44.5 / 395	43.5 / 385	42.0 / 370
					Input l.min / igpm	22.5 / 5.0	30.0 / 6.5	42.0 / 9.0	53.0 / 11.5
	15		1.1/2		Output Kw / hp	6.5 / 8.5	9.5 / 12.5	11.5 / 15.5	14.0 / 18.5
					Output Nm / in.lb	74.5 / 660	74.0 / 655	72.5 / 640	66.5 / 590
					Input l.min / igpm	32.0 / 7.0	51.0 / 11.0	68.0 / 15.0	79.0 / 17.5
	20		2		Output Kw / hp	8.0 / 11.0	12.0 / 16.0	15.5 / 21.0	18.5 / 25.0
					Output Nm / in.lb	96.5 / 855	95.5 / 845	94.0 / 830	90.0 / 795
					Input l.min / igpm	45.0 / 10.0	64.5 / 14.0	83.0 / 18.5	102.0 / 22.5

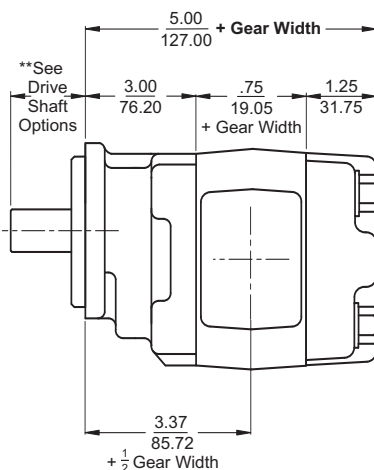
\* These gear widths are the popular sizes for motor configurations but any of the gear widths listed in the Pump Data table can be supplied.

## WEIGHTS (approximate)

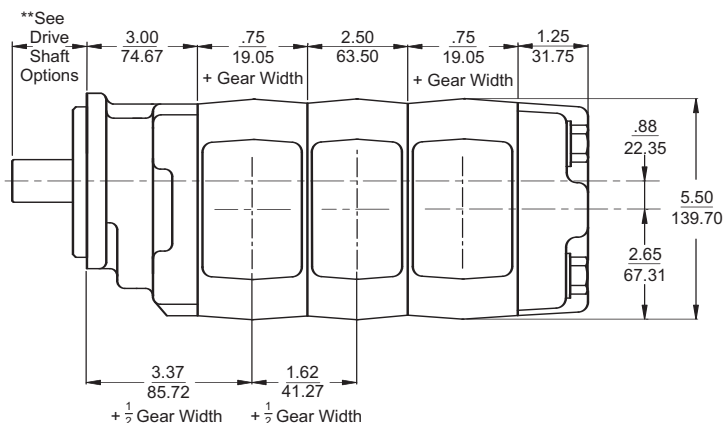
Gear widths (ins)	1/4	1/2	3/4	1	1.1/4	1.1/2	1.3/4	2
Single unit (kg)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0

For multiple unit weights, please consult our sales department.

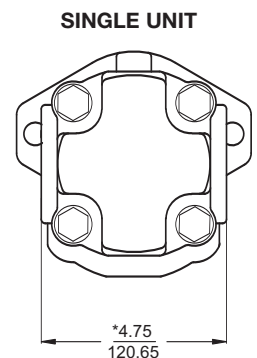
## DIMENSIONS



SINGLE UNIT



MULTIPLE 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.



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