

SERIES 1500

Interchangeable with
Parker Commercial
15H Series

ATEX_{Ex} assessed
Baseefa 10ATEX0002DRR
IP50

DATA SHEET
R1500

Roller Bearing, Gear Pumps and Motors

- Single or multiple units available.
- Displacement 12 cc/rev to 48 cc/rev.
- Minimum operating speed 600 rpm.
- Maximum operating speed 2400 rpm.
- Maximum continuous operating pressure 2000 psi (138 bar).
- 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.

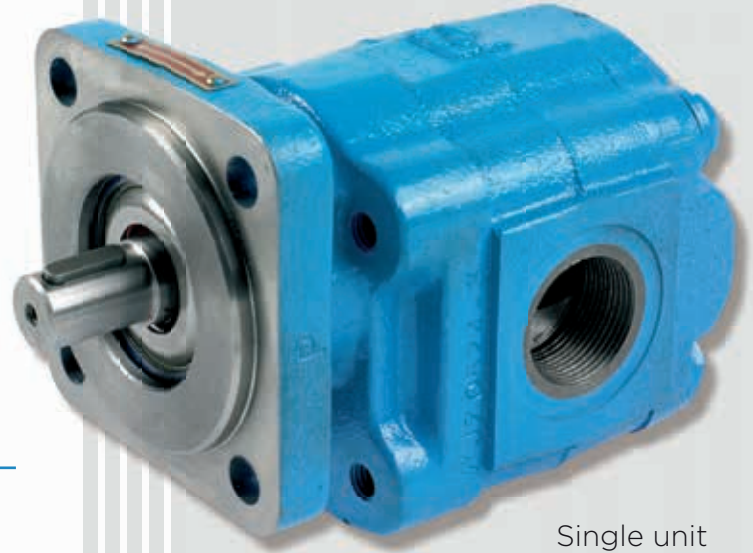
Drive Shaft Options:

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).

Performance and Dimensions overleaf



Single unit



Recommended Operating Conditions:

Fluid viscosity, normal operating conditions
16 to 220 cst.

Fluid temperature should not exceed 65° C.

Recommended system oil cleanliness should
be equal to or better than ISO4406 19/17/14.

Inlet pressure; for best operation with
mineral oil, pressure should not exceed minus
0.237 bar (7 in HG).



Please discuss your application with our sales engineers

Series 1500 Pumps and Motors

PERFORMANCE DATA

Pump Performance

Output- L/min/igpm - Input-Kw/Horsepower		Input Speed - rpm											
		1000		1500		1800							
Gear widths - code	Gear widths - inches	Displacement - cc/rev	Maximum continuous working pressure-bar/psi	Output	Input	Output	Input	Output	Input				
				05	1/2	12	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 pressure of 138 bar/2000 psi, using 32cSt oil at 65° 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

				Output Speed - rpm				
				800	1200	1600	2000	
Gear widths - code	10	Gear widths - inches	1	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	

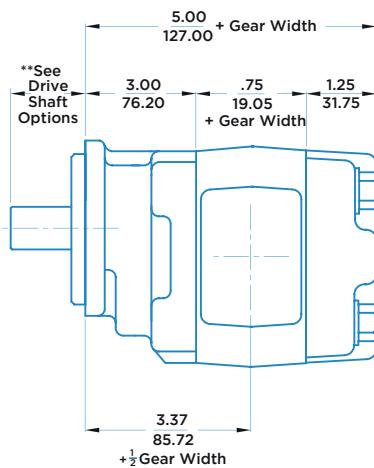
* These gear widths are the popular sizes for motor configurations but any of the gear widths listed in the Pump Data table can be supplied.

Weights (approximate)

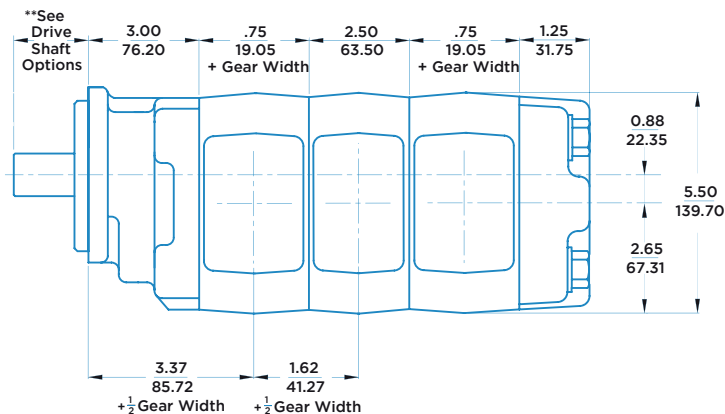
Gear widths (ins)	1/4	1/2	3/4	1	1.1/4	1.1/2	1.3/4	2
Single unit (kg)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0

For multiple unit weights, please consult our sales department

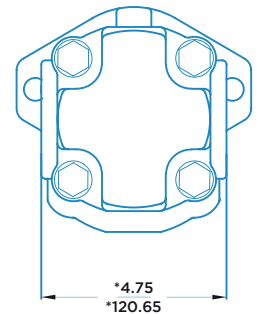
Dimensions



Single unit



Tandem unit



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

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



HYDRAULIC ENGINEERS