


SERIES 7500

Interchangeable with
Parker Commercial
75 and 76 Series

ATEX^{Ex} assessed
Baseefa 10ATEX0002DRR 

DATA SHEET
R7500

Roller Bearing Gear Pumps Motors and Flow Dividers

- Single or multiple units available.
- Displacement 33 cc/rev to 199 cc/rev.
- Minimum operating speed 400 rpm.
- Maximum continuous speed 2000 rpm.
- Maximum continuous operating pressure 3000 psi (207 bar).
- Cast iron construction.
- Dowelled units available.

Mounting Flange Options:

SAE 'B' 4 bolt, SAE 'C' 2 bolt, SAE 'C' 4 bolt,
SAE 'D' 4 bolt.

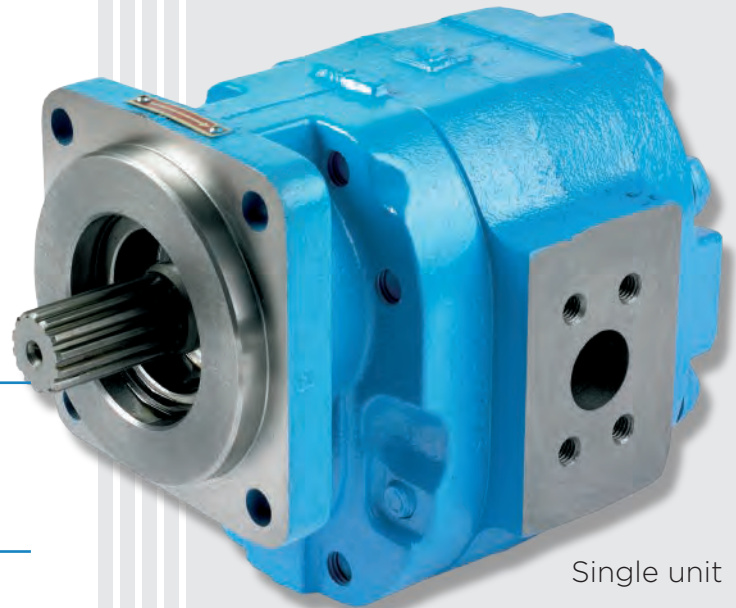
Drive Shaft Options:

SAE 'C' 14 tooth, SAE 'D' splined, SAE 'C' keyed.

Various Porting Options:

BSP, SAE, NPT, JIC (ODT).

Performance and Dimensions overleaf



Single unit



Tandem 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 7500 Pumps Motors and Flow Dividers

PERFORMANCE DATA

Pump Performance

				Input Speed - rpm									
				1000		1500		1800					
Output- L/min/igpm - Input-Kw/Horsepower ▶				Output	Input	Output	Input	Output	Input				
Gear widths - code	Gear widths - inches	Displacement - cc/rev	Maximum continuous working pressure-bar/psi	05	1/2	33	207/3000	28 / 6.2	10 / 13	43 / 9.5	14 / 19	52 / 11.5	17 / 23
				07	3/4	50	207/3000	41 / 9.0	14 / 19	64 / 14.1	22 / 29	78 / 17.2	26 / 34
				10	1	66	207/3000	55 / 12.1	20 / 26	85 / 18.7	29 / 38	104 / 22.9	34 / 45
				12	1.1/4	83	207/3000	71 / 15.6	24 / 32	107 / 23.6	35 / 47	132 / 29.1	42 / 56
				15	1.1/2	99	180/2610	86 / 18.9	28 / 37	130 / 28.6	42 / 56	158 / 34.8	50 / 67
				17	1.3/4	116	180/2610	102 / 22.5	32 / 42	155 / 34.1	49 / 65	189 / 41.6	58 / 77
				20	2	132	180/2610	118 / 26.0	36 / 48	179 / 39.4	55 / 73	215 / 47.4	66 / 88
				22	2.1/4	149	180/2610	134 / 29.5	41 / 54	199 / 43.8	61 / 82	241 / 53.1	74 / 98
				25	2.1/2	166	180/2610	148 / 32.6	45 / 60	222 / 48.9	68 / 90	268 / 59.0	81 / 109
				27	2.3/4	182	155/2250	167 / 36.8	50 / 66	248 / 54.6	75 / 100	298 / 65.6	92 / 122
30	3	199	155/2250	185 / 40.7	55 / 73	275 / 60.6	84 / 112	330 / 72.7	101 / 134				

• Flows quoted are at test pressures 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	Gear widths - inches	*Gear widths - inches	Input flow, Output hp & torque	Output Kw / hp	11.0 / 14.5	15.0 / 20.0	19.5 / 26.0	23.0 / 30.5
				Output Nm / in.lb	124.5 / 1100	123.0 / 1090	117.5 / 1040	109.5 / 970
				Input l.min / igpm	72.5 / 16.0	100.0 / 22.0	127.5 / 28.0	154.5 / 34.0
				Output Kw / hp	16.5 / 22.0	23.0 / 31.0	30.5 / 41.0	37.5 / 50.0
				Output Nm / in.lb	192.0 / 1700	190.0 / 1680	186.5 / 1650	181.5 / 1600
				Input l.min / igpm	104.0 / 23.0	143.0 / 31.5	186.5 / 41.0	225.0 / 49.5
				Output Kw / hp	22.0 / 29.0	32.0 / 42.5	41.5 / 55.5	51.0 / 68.0
				Output Nm / in.lb	256.5 / 2270	255.5 / 2260	251.0 / 2220	246.5 / 2180
				Input l.min / igpm	129.5 / 28.5	184.0 / 40.5	241.0 / 53.0	295.5 / 65.0
				Output Kw / hp	28.0 / 37.5	41.0 / 54.5	53.5 / 71.5	65.0 / 87.0
				Output Nm / in.lb	331.0 / 2930	328.0 / 2900	321.0 / 2840	312.0 / 2760
				Input l.min / igpm	159.0 / 35.0	227.0 / 50.0	293.0 / 65.0	363.5 / 80.0
Output Kw / hp	35.0 / 47.0	52 / 69.0	67.0 / 89.5	82.0 / 109.0				
Output Nm / in.lb	418.0 / 3700	416.0 / 3680	404.0 / 3570	388.0 / 3430				
Input l.min / igpm	186.0 / 41.0	272.5 / 60.0	354.5 / 78.0	434.0 / 95.5				

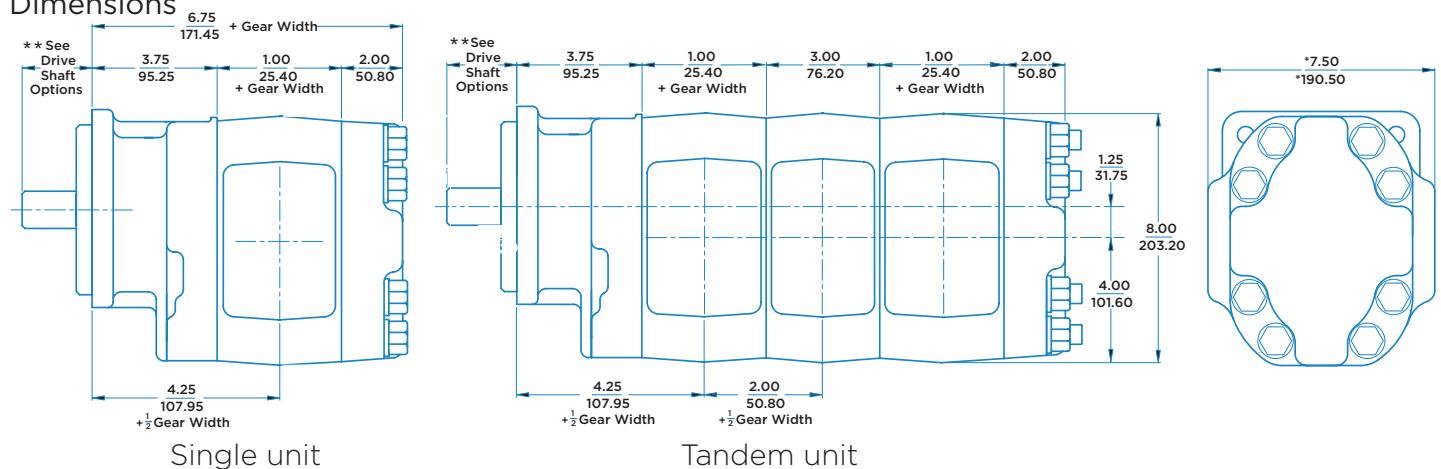
* These gear widths are the popular sizes for motor configurations but any of the gear widths listed in the Pump Data table can be supplied.

Weights (approximate)

Gear widths (ins)	1/2	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)	30.5	32.0	33.0	34.0	35.0	36.0	37.5	39.0	40.0	41.0	42.0

For multiple unit weights, please consult our sales department.

Dimensions



* 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

Unit 20 Silver Court, Intercity Way, Bramley, Leeds, West Yorkshire LS13 4LY. UK.

Trl: +44 (0) 113 2361367 Fax: +44 (0) 113 239 4207 email: sales@hydra-perm.co.uk web: www.hydra-perm.co.uk