

Series 350

Bushing Pumps, Motors and Flow Dividers

- Single or multiple units available.
- Piggy back options available.
- Type II mounting available.
- Displacement 21 cc/rev to 105 cc/rev.
- Gear widths 1/2" to 2.1/2".
- Minimum operating speed 600 rpm.
- Maximum continuous operating speed 2400 rpm.
- Maximum continuous operating pressure 3500 psi (241 bar).
- Drive shaft PL factor: Integral up to 19100, Continental up to 6000.
- Cast iron construction.
- Compatible with mineral oil, water glycol, invert emulsion and fire resistant fluid.

Mounting Flange Options:

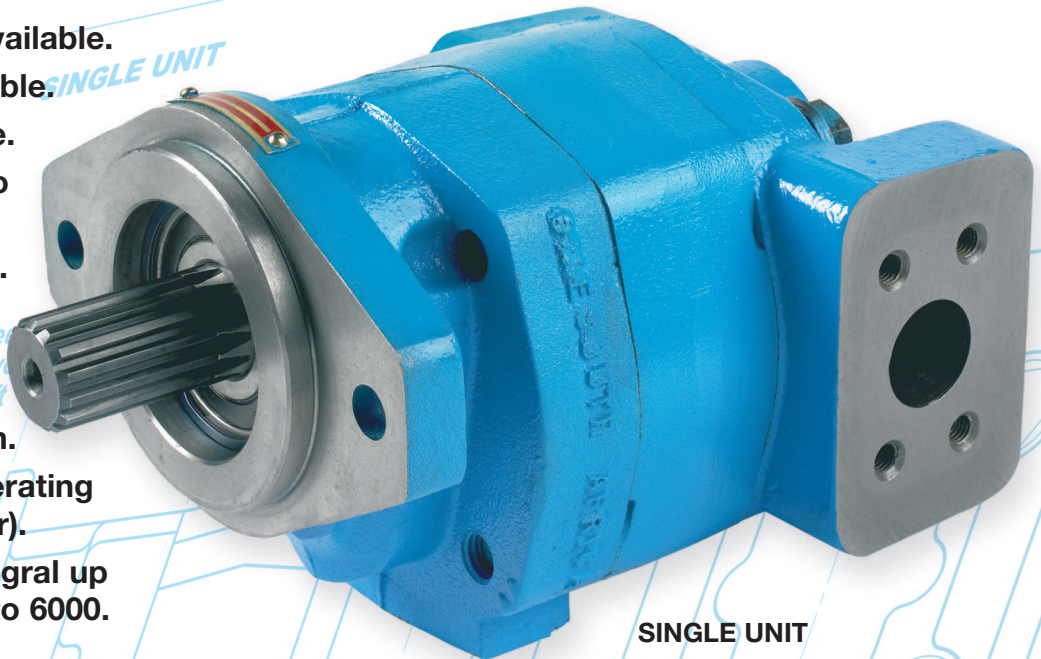
SAE 'B' 2 bolt, SAE 'B' 4 bolt, SAE 'C' 2 bolt, SAE 'C' 4 bolt.

Drive Shaft Options:

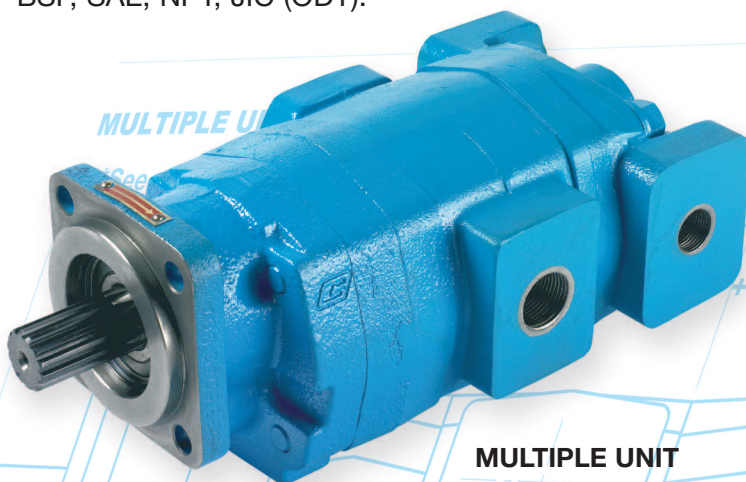
SAE 'B' 13 tooth, SAE 'C' 14 tooth, SAE 'C' keyed.

Various Porting Options:

BSP, SAE, NPT, JIC (ODT).



SINGLE UNIT



MULTIPLE UNIT

Recommended Operating Conditions:

Fluid viscosity, normal operating conditions 9 to 220 cst.
Fluid temperature should not exceed 82 deg. C for mineral oil or 57 deg. C for water glycol.
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) or with water glycol, minus 0.101 bar (3 in HG).

Performance and Dimensions overleaf

Please discuss your application with our sales engineers.

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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	21	241/3500	17 / 3.7	9 / 12	28 / 6.2	14 / 18	34 / 7.5	17 / 22
				07	3/4	32	241/3500	27 / 5.9	13 / 17	43 / 9.5	21 / 28	52 / 11.5	25 / 33
				10	1	42	241/3500	37 / 8.1	18 / 24	59 / 13.0	28 / 37	71 / 15.6	33 / 44
				12	1.1/4	52	241/3500	47 / 10.4	23 / 31	74 / 16.3	34 / 46	89 / 19.6	41 / 55
				15	1.1/2	63	241/3500	57 / 12.6	27 / 36	89 / 19.6	41 / 55	108 / 23.8	50 / 67
				17	1.3/4	74	224/3250	67 / 14.8	30 / 40	105 / 23.1	45 / 60	127 / 28.0	54 / 72
				20	2	84	207/3000	77 / 17.0	31 / 41	120 / 26.4	47 / 63	145 / 31.9	57 / 76
				22	2.1/4	95	190/2750	87 / 19.2	32 / 43	136 / 30.0	49 / 65	164 / 36.1	58 / 78
				25	2.1/2	105	172/2500	97 / 21.4	33 / 44	151 / 33.3	49 / 65	183 / 40.3	58 / 78

- Flows quoted are at test pressures equivalent to maximum continuous working pressures, using 32cSt oil at 65 deg C.
- When using water based fluids, the maximum continuous working pressure is reduced, please contact sales department.
- Intermittent gear widths 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.*

* 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.

Motor Performance

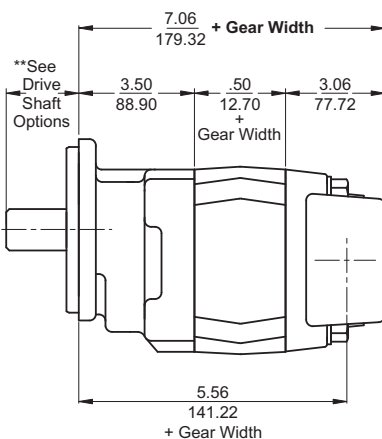
				Output Speed – rpm						
				900	1200	1500	1800			
Gear widths – code	*Gear widths – inches	Input flow. Output hp & torque	1	Output Kw / hp	14.1 / 18.8	18.8 / 25.0	23.2 / 30.9	27.7 / 37.0		
				Output Nm / in.lb	149.1 / 1320	148.6 / 1315	146.9 / 1300	146.3 / 1295		
				Input l.min / igpm	51.0 / 11.2	64.0 / 14.1	77.0 / 17.0	91.0 / 20.0		
				15	1.1/2	Output Kw / hp	21.7 / 28.9	28.8 / 38.4	35.5 / 47.4	42.4 / 56.5
						Output Nm / in.lb	228.8 / 2025	227.7 / 2015	224.8 / 1990	223.7 / 1980
						Input l.min / igpm	70.0 / 15.4	90.0 / 19.8	110.0 / 24.2	129.0 / 28.4
				20	2	Output Kw / hp	25.2 / 33.6	33.4 / 44.6	41.3 / 55.1	49.3 / 65.7
						Output Nm / in.lb	265.5 / 2350	264.4 / 2340	261.6 / 2315	259.9 / 2300
						Input l.min / igpm	90.0 / 19.8	116.0 / 25.6	142.0 / 31.3	167.0 / 36.8
				25	2.1/2	Output Kw / hp	26.2 / 35.0	34.8 / 46.4	43.0 / 57.4	51.3 / 68.4
						Output Nm / in.lb	276.8 / 2450	275.1 / 2435	272.3 / 2410	270.6 / 2395
						Input l.min / igpm	110.0 / 24.2	142.0 / 31.3	174.0 / 38.3	206.0 / 45.4

WEIGHTS (approximate)

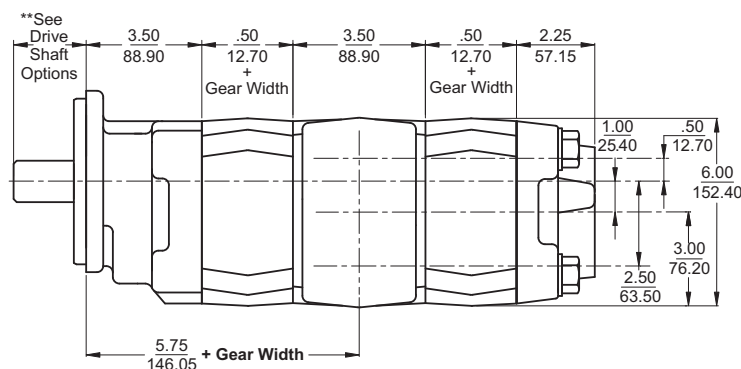
Gear widths (ins)	1/2	3/4	1	1.1/4	1.1/2	1.3/4	2	2.1/4	2.1/2
Single unit (kg)	19.8	20.4	20.9	21.7	22.3	22.9	23.5	24.1	24.7

For multiple unit weights, please consult our sales department.

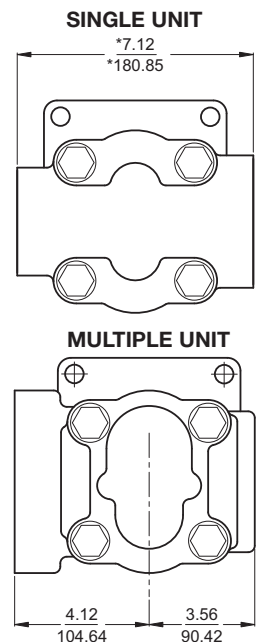
DIMENSIONS



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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