





ENGINEERING EXCELLENCE

Series 600 Pump

The Series 600 power assisted steering pump has been developed for today's automotive industry. Constructed in cast iron and aluminium, the Series 600 is robust and durable. Inherently flexible, extremely compact and lightweight, the pump optimises performance for all types of commercial vehicles,

from vans to heavy duty trucks, road trains, buses and coaches.

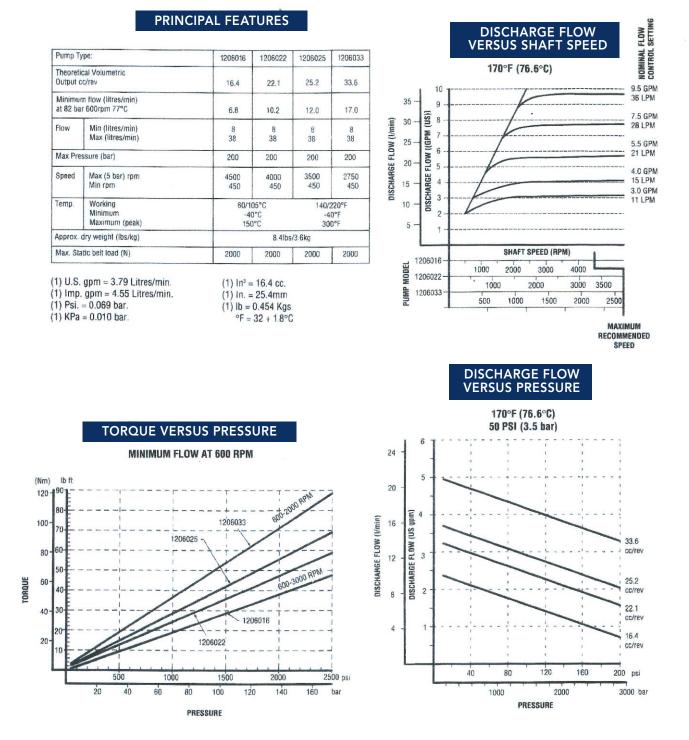
Modular in concept, the Series 600 is designed to meet the interface needs of both SAE and DIN specifications and can accommodate, with only minor modifications, non-standard mountings.

By innovative design, the rear cover of the pump can become an integral mounting bracket if required, ultimately reducing weight and saving on cost during the final installation. The Series 600 also has a unique feature. The drive shaft can be extended through the rear cover in order to drive further air, vacuum or hydraulic pumps – again minimising installation time and substantially reducing costs. Weighing only 3.6kg with SAE flange, the cam and roll carrier of this roll vane pump can be sintered to size, making it contamination resistant and highly durable. The pump can be rotated either clockwise or counter clockwise, with left or right hand discharge as standard. The Series 600 can accommodate any combination of these features to meet a particular engine design specification.

Pumps are also available in tandem configuration to provide a compact space saving and more economical package. Any combination of pump capacity can be used. PSS should be consulted for additional assistance of the application to ensure that the maximum shaft load is not exceeded. It is often possible to have a common centre inlet for both pumps. Separate inlet port configurations are possible and are a benefit if different fluids are being used for each circuit. The performance data for each pump in the tandem pair would be the same as for any single pump.

 High performance Exploded view of Compact and lightweight the S600 pump Rigid and durable Flexible in installation Flange options • Left or right hand discharge Optional rotation • Contaminant resistant Excellent reliability Multiple pump configurations Integral mounting bracket Clock or anticlockwise Left or right hand Multiway connection discharge rotation

Series 600 Pump Technical Data



RECOMMENDED OPERATING PARAMETERS

Intake Conditions The intake should be as short as possible with the maximum practical head. The pipe or hose should be supported to prevent excessive loading on the pump intake connection, but must allow for engine/chassis relative movement. The diameter of the tube should be sufficient to give a minimum pressure of 12psi (0.83 bar) absolute at the pump intake at 70°F (21°C).

- **Filtration** It is strongly recommended that a full flow oil filter be fitted in the oil return line. This should provide a filtration level of Beta 10 = 5 with a back pressure of less than 3psi (0.2 bar).
- **Oil Types** An oil with good anti-foaming and boundary lubrication property such as ATF/Dexron fluid is recommended. Some engine oils may also be suitable. See PSS representative for list of approved fluids.

Series 600 Specification Matrix

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DISPLACEMENT	SHAFT STYLE	RELIEF VALVE	INLET-COVER 1	INLET-COVER 2	INTEGRAL RESERVOIR	FLANGE ANGLE
in ³ CC CODE	11 Spline A	50 bar A	½"@0° A	3⁄4" x 16" A	1.5 Lit. Cap. 1	Set at 0° A
0.67 11 1	Nut & Key B	60 bar B	1/2" @ 45° B	34" x 18" B	no chi oup.	Set at 15° B
0.90 14 2	Tang(Din) C	70 bar C	½" @ 90° C	%5" x 18" C	DISCHARGE THREAD	Set at 30° C
1.00 17 3	Taper D	80 bar D	135° D	%" x 18" D	X" x 16 Female A	Set at 45° D
1.35 22 4	Bolt & Key E	90 bar E	¾°@0° E	¹¹ / ₁₆ "x18" E	3/" x 16 @ 0° Male B	Set at 60° E
1.54 25 5		100 bar F	¾" @ 45° F	‰" x 18" F	3/" x 16 @ 45° Male C	Set at 75° F
2.05 33 6	CONTROLLED FLOW	110 bar G	¾" @ 90° G	11/16"x12" G	3/° x 16 @ 90° Male D	Set at 90° G
	8 lit./min. A	120 bar H	¾"@135° H	1¾₅"x12" H	3/" x 18 Female E	Set at 105° H
processing of the second se	10 lit./min. B	130 bar J	‰@0° J	15%6"x12" J	%" x 18 Female F	Set at 120° J
PUMP ROTATION/DISCHARGE*	12 lit./min. C	140 bar K	‰ @ 45° K	1%"x12" K	%" x 18 Female G	Set at 135° K
ROTATION DISCHARGE CODE	14 lit./min. D	150 bar L	‰@90° L	1/2" NTPF L	M16-1.5 H	Set at 150° L
CW RH A	16 lit./min. E	160 bar M	%@135° M	¾" NTPF M	M18-1.5 J	Set at 165° M
CW LH B	18 lit./min. F	170 bar N	1"@0° N	1" NTPF N	M20-1.5 K	
CCW RH C	20 lit./min. G	180 bar P	1" @ 45° P	1¼"NTPF P	M26-1.5 L	MOUNTING STYLE
CCW LH D	22 lit./min. H	190 bar Q	1" @ 90° Q	M16-1.5 Q		SAE 'A'- 2 hole A
	24 lit./min. J	200 bar R	1"@135° R	M18-1.5 R	INLET- COVER 4	SAE 'B'- 2 hole B
	26 lit./min. K			M20-1.5 S	¾" x 16 ¾" x 16 A	SAE 'C'- 2 hole C
REAR COVER STYLE	28 lit./min. L		INLET-COVER 3	M26-1.5 T	¾" x 16 ½" NTPF B	Direct Drive Z
2 line tube inlet 1	30 lit./min. M		%"@0° A	M27-2 U	%" x 16 11/6" x 12 C	2-Bolt 'Din' Ø60 G
2 line thread inlet 2	32 lit./min. N		<u>%</u> "@90° В	Landra and a state of the state		2-Bolt 'Din' Ø80 H
Integral res'r 3	34 lit./min. P					3-Bolt 'Din' Ø80 J
3 line thread inlet 4	36 lit./min. Q					4-Bolt 'Din' Ø70 K
*When viewed from shaft end.						

Since 2003, we have been supplying Series 600 Power Steering Pumps to many worldwide Vehicle Manufacturers. Please contact us for any Power Steering Pump requirements you may have.



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