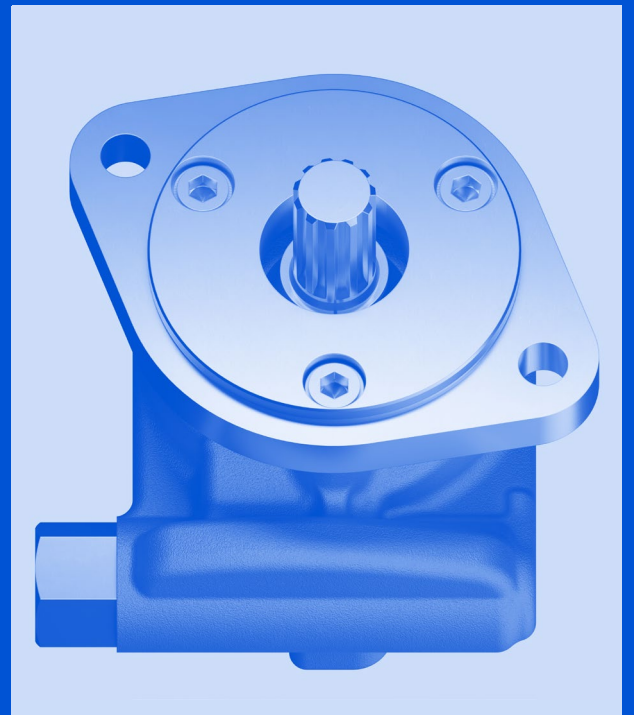


Series 600 Pump



Series 600 Pump

The **PSS Series 600 power-assisted steering pump** has been engineered to meet the demands of today's automotive and commercial vehicle industries. Constructed from cast iron and aluminium, it delivers a robust, durable solution while remaining inherently flexible, compact, and lightweight. Designed to optimise performance across a wide range of applications, the Series 600 is ideally suited to vehicles from light vans through to heavy-duty trucks, buses, coaches, and road trains.

Modular in concept, the Series 600 is compatible with both SAE and DIN interface standards and can be adapted to non-standard mountings with minimal modification. Its innovative design allows the rear cover to function as an integral mounting bracket where required, reducing overall weight and lowering installation costs. A key differentiator of the Series 600 is its unique ability for the drive shaft to extend through the rear cover, enabling additional air, vacuum, or hydraulic pumps to be driven directly – minimising installation complexity and delivering significant cost efficiencies.

Exploded view of the S600 pump



Clock or anticlockwise rotation

Left or right hand discharge

Multiway connection

Weighing just 3.6 kg with an SAE flange, the pump features a precision roll vane design with a sintered cam and roll carrier, providing excellent resistance to contamination and ensuring long-term durability. The Series 600 supports both clockwise and counter-clockwise rotation, with left- or right-hand discharge available as standard, allowing full flexibility to meet specific engine and system requirements.

To support more complex applications, the Series 600 is also available in tandem configurations, offering a compact, space-saving and cost-effective solution. A wide range of capacity combinations can be specified, with options for common centre inlet or separate inlet ports where different fluids are required. Each pump within a tandem arrangement delivers the same proven performance as a standalone unit. PSS engineers are available to support application design and ensure optimal performance, including guidance on maximum shaft load requirements.

Key features

- High performance
- Compact, lightweight design
- Robust construction
- Flexible installation
- SAE & DIN flange options
- Left or right-hand discharge
- Bi-directional rotation
- Contamination resistant
- Proven reliability
- Multiple configurations available
- Optional integral mounting bracket

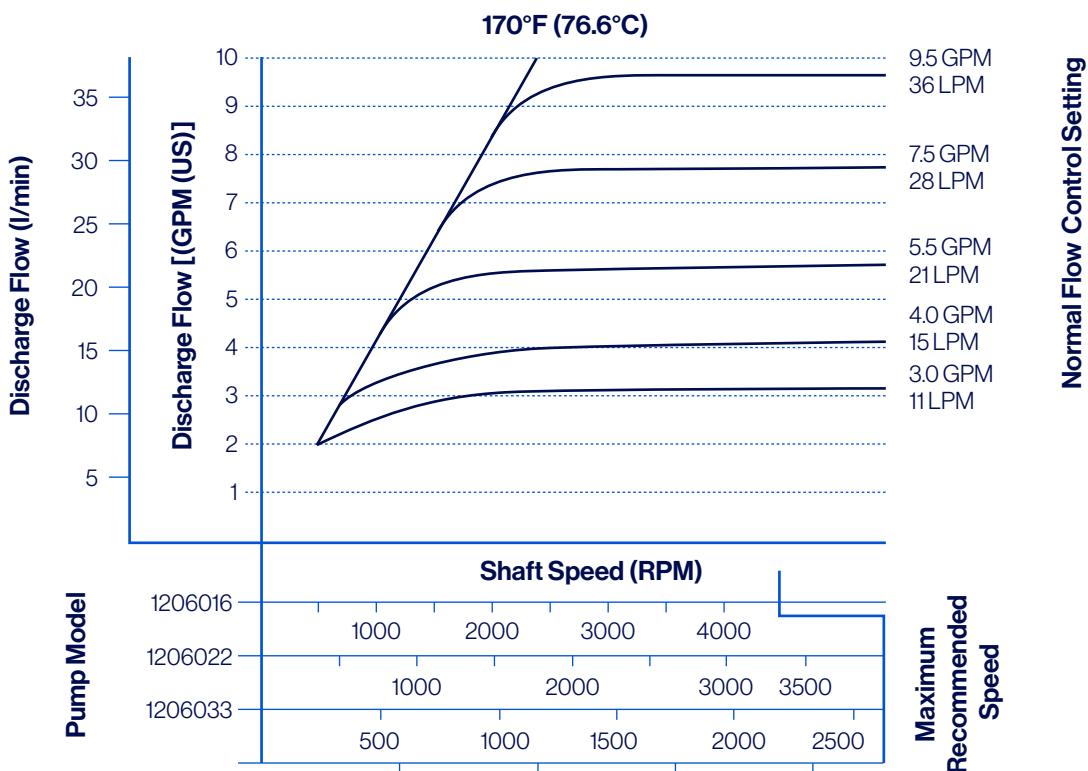
Technical Data

Principal Features

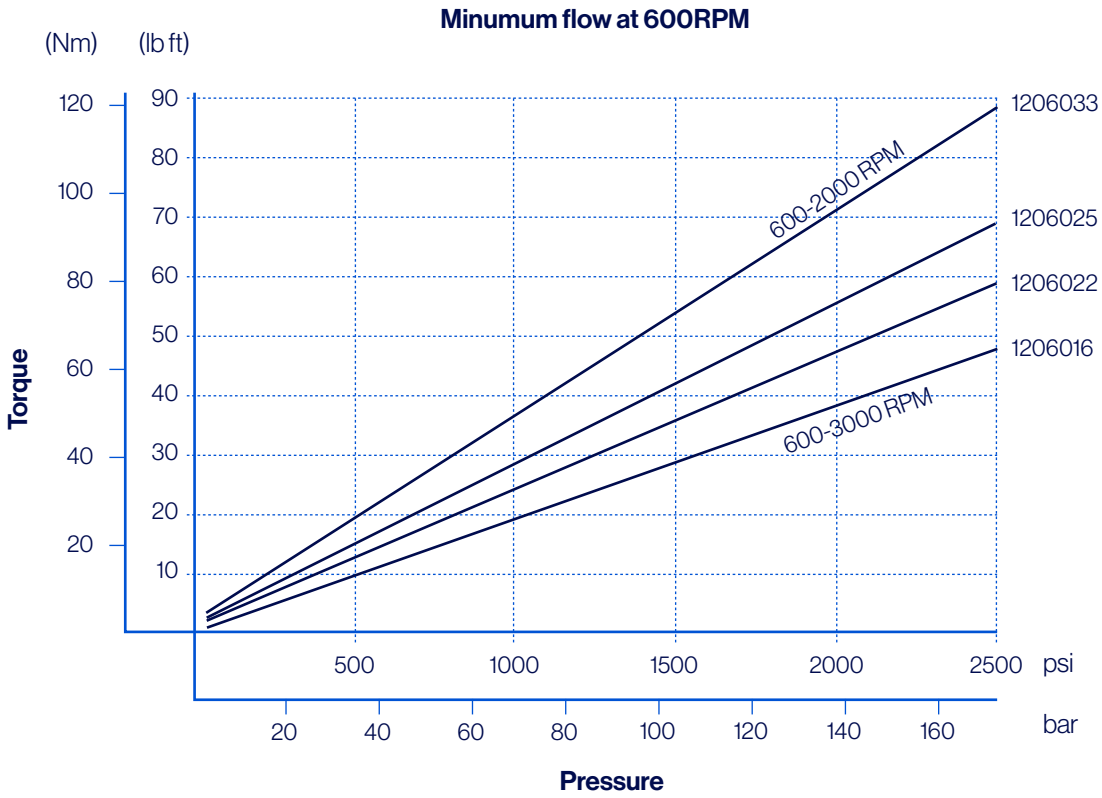
Pump Type		1206016	1206022	1206025	1206033
Theoretical Volumetric Output cc/rev		16.4	22.1	25.2	33.5
Minimum flow (litres/min) at 82 bar 6000rpm 77°C		6.8	10.2	12.0	17.0
Flow	Min (litres/min)	8	8	8	8
	Max (litres/min)	38	38	38	38
Max Pressure (bar)		200	200	200	200
Speed	Max (5bar) rpm	4500	4000	3500	2750
	Min rpm	450	450	450	450
Temp	Working	60/105°C		140/220°F	
	Minimum	-40°C		-40°F	
	Maximum (peak)	150°C		300°F	
Approx dry weight (lbs/kg)		8.4lbs/3.6kg			
Max Static belt load (N)		2000	2000	2000	2000

- (l) U.S. gpm = 3.79 Litres/min. (l) In³ = 16.4 cc.
- (l) Imp. gpm = 4.55 Litres/min. (l) In. - 25.4mm
- (l) Psi. = 0.069 bar. (l) lb = 0.454Kgs
- (l) Kpa = 0.010 bar. °F = 32 + 1.8°C

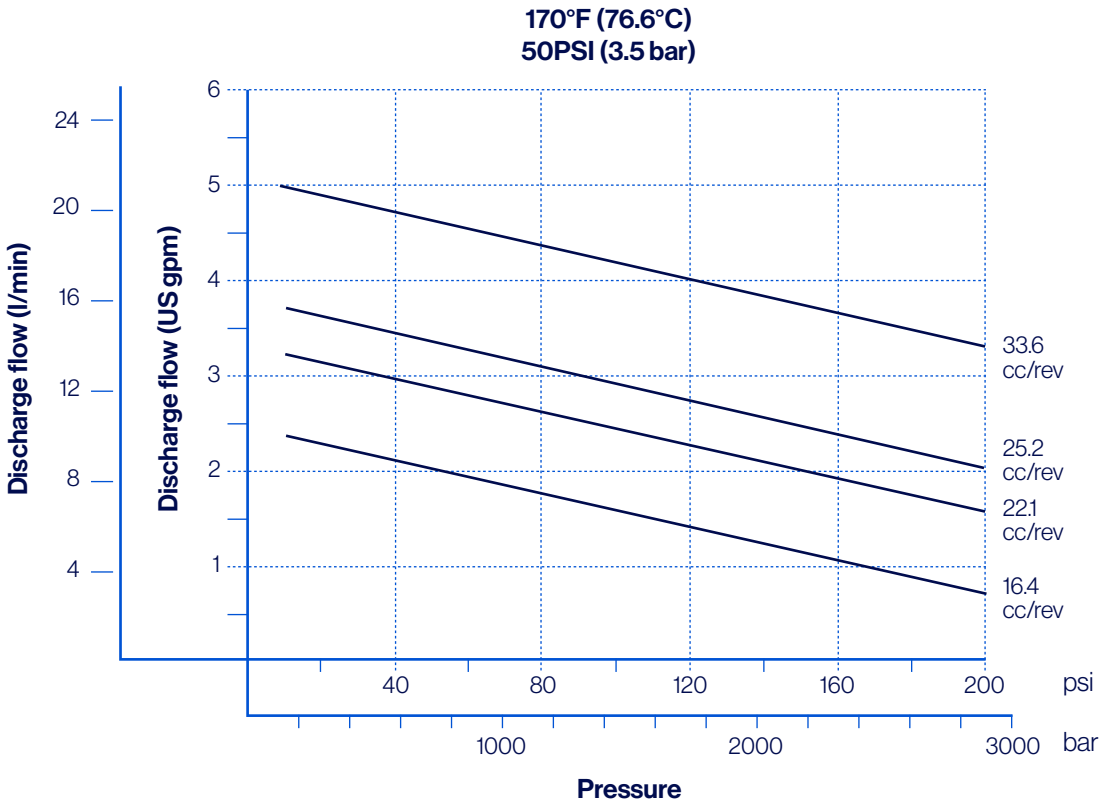
Discharge flow versus shaft speed



Torque versus pressure



Discharge flow versus pressure



Recommended Operating Parameters

Intake conditions

For optimal performance, the intake line should be kept as short as possible, with the maximum practical head. Pipe or hosework must be adequately supported to prevent excessive loading on the pump inlet connection, while still allowing for relative movement between the engine and chassis. The tube diameter should be sized to maintain a minimum pressure of **12 psi (0.83 bar) absolute at 70°F (21°C)** at the pump intake.

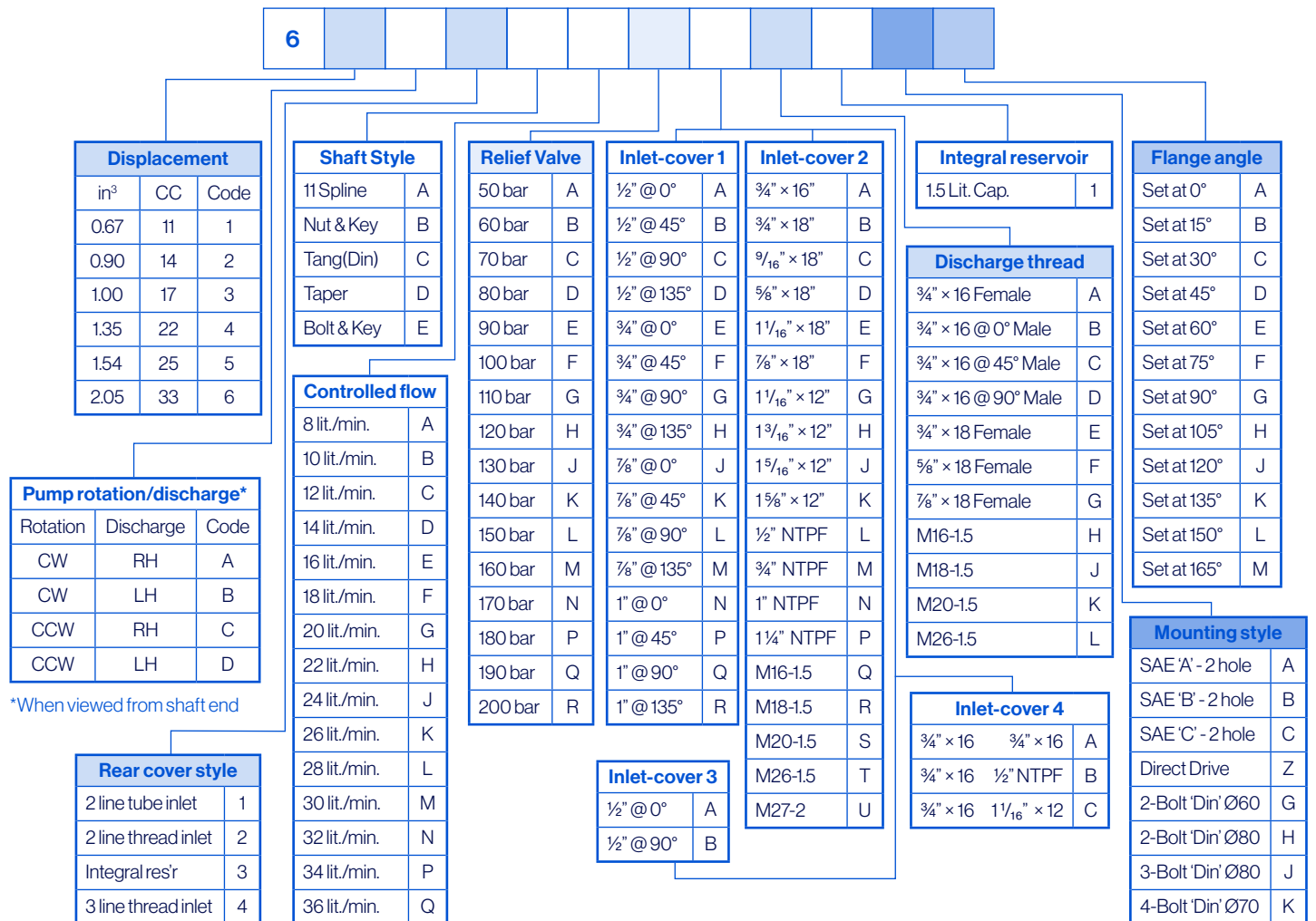
Filtration

To ensure long-term reliability, a full-flow oil filter is strongly recommended in the return line. The filter should provide a minimum filtration level of **Beta 10 = 5**, with a back pressure not exceeding **3 psi (0.2 bar)**.

Oil Types

A high-quality fluid with effective anti-foaming and boundary lubrication properties, such as **ATF/Dexron**, is recommended. Certain engine oils may also be suitable. Please consult your PSS representative for a full list of approved fluids.

Series 600 Specification Matrix





Manufactured
Steering
Products

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