

Fitting new/reconditioned power steering pump to engine

It is advisable to check the system pressure upon installing the pump. See table 1

If alterations are required, the relief valve is located underneath the power steering pump and may only be adjusted by removing the pump from the engine.

Pump speed rev/min	Equivalent engine speed rev/min	Pressure			Minimum delivery per minute		
		Bar	KgF/ Cm ²	LbF/ In ²	Litres	Imp.gallons	US gallons
1000	600	55	56	800	3.3	0.74	0.89
1700	1000	55	56	800	6.7	1.48	1.78
3400	2000	55	56	800	14.3	3.15	3.78

Table 1

With the relief valve in place and when the steering is under no load/resting (wheel straight) the pressure within the pump should be 55 bar, and the relief valve should be fully closed.

As the wheel is turned the oil pressure increases until the relief valve starts to open at 86.2 bar.

Upon reaching full steering lock the pressure will have built up to 120 bar and it is at this point that the relief valve should be fully open and must be adjusted to open fully at this pressure.

120 bar is the maximum recommended pressure for this pump.

The pump performance is calibrated for when the oil has reached 55-60 degrees centigrade

CAUTION: The relief valve exists to prevent excessive oil pressure damaging the pump, which may result in burst pipes and loss of hot hydraulic oil.

N.B Too little pressure, i.e. relief valve opening too soon may prevent adequate pressure build up for assisted steering to take place.