$$Force\ (N) = Pressure\ (MPa) \times Area(mm^2)$$

$$Pressure\ (MPa) = \frac{Force\ (N)}{Area(mm^{2)}}$$

$$Area(mm^2) = \frac{Force(N)}{Pressure(MPa)}$$

$$kW = \frac{MPa\ (PRV) \times Pump\ litres\ per\ minute \times 1{,}2}{60}$$

$$PRV = Pressure\ Relief\ Valve\ (Pressure\ setting\ of\ the\ relief\ valve)$$

$$Pump\ flow\ rate(Litres\ per\ min) = \frac{cm^3 per\ pump\ revolution \times Pump\ RPM}{1000}$$

$$cm^3\ per\ pump\ revolution = \frac{Pump\ flow\ rate \times 1000}{Pump\ RPM}$$