

METRIC FORMULAE

HYDRAULIC AND ENGINEERING DATA

NOTE: These formulae are theoretical and an allowance for inefficiency in practice should be made. For example, for a 10% margin, multiply results by 1.1.

KILOWATTS	kW	=	BAR×L/M
RIEGWATTS			600
	kW	=	BAR x CC / REV x RPM 600 x 1000
	kW	=	Nm x RPM 9550
PRESSURE	BAR	=	kW x 600 L/M
	BAR	=	kW x 600 x 1000 CC / REV x RPM
PUMP DISPLACEMENT	CC/REV	=	kW x 600 x 1000 REV x RPM
FLOW RATE	L/M	=	kW x 600 BAR
TORQUE	Nm	=	kW x 9550 RPM
	Nm	=	BAR x CC / REV 62.8
SPEED	RPM	=	kW x 9550 RPM
MOTOR DISPLACEMENT	CC/REV	=	Nm x 20 x π BAR