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DEFINITION OF TERMS AND UNITS

Unless otherwise denoted in the text, the following notation has been used:

A	area	square millimetre
C*	concentration	milligram per litre or kilogram per cubic metre
C_v	ratio or concentration of solids to slurry by true volume	percent
C_w	ratio of concentration of solids to slurry by weight	percent
d	diameter normal to flow	millimetre
d_{50}	sieve size that retains **50%** of solids by weight	micron
em	motor efficiency	decimal
ep	pump efficiency	decimal
epm*	pump efficiency when pumping slurry	decimal
epw*	pump efficiency when pumping clean cold water	decimal
E	line voltage	volts
ER*	ratio of pump efficiency for slurry to efficiency for water	
F	force	newton
H	head of liquid	metre
H_t	pump total dynamic head	metre
H_{tm}*	pump total dynamic head for slurry	metre
H_{tw}*	pump total dynamic head for clean cold water	metre
H_v	velocity head	metre
HR*	ratio of pump total dynamic head developed for slurry to head developed for clean cold water	

I	line current	ampere
K_{md}	meter disc constant	rev. per kilowatt hour
K_{mr}	meter ratio constant	
M_s	mass of solids pumped	tonnes per hour
N	speed of rotation	rev. per minute
Ns**	specific speed	
Nss**	suction specific speed	
p	pressure	kilopascal
P	pump input power	kilowatt
Q_m	mass flow rate	kilogram per second
Q	volumetric flow rate	litre per second
r	revolutions	
SG	specific gravity of liquid	
SG_m*	specific gravity of slurry	
SG_s*	specific gravity of solids in suspension	
t	time	second
T	torque	newton metre