

### Usual Pump Selection Symbols Notation

Symbol	Description	Dimensions
Cv	Concentration of solids in slurry by true volume	%
Cw	Concentration of solids in slurry, by weight	%
d <sub>50</sub>	Median diameter of a sample of dry solid particles. It is the particle size equal to the screen aperture, which would pass exactly 50% by weight of the sample. Note that d50 is not the mean, or average, particle size of the sample	m(also m, μm)
d <sub>80</sub>	For the same sample as above, it is the particle size equal to the screen aperture which would pass exactly 80% by weight of the sample	m(as above)
H	Total head required by a pumping system    so: Total head developed by a pump	m fluid
Hgd	Gauge head at pump discharge, referred to pump centerline- Positive if above atmospheric head and negative if below	m fluid
Hgs	Gauge head at pump suction, referred to pump centerline- Positive if above atmospheric head and negative if below	m fluid
Hm	Total head required by a slurry pumping system                      Also: Total head developed by a pump when handling slurry	m fluid
NPSH	Net positive suction head, at pump suction flange, at given flow Rate and temperature	m fluid
NPSHa	NPSH available at pump suction flange, at given flow	m fluid
NPSHr	NPSH required at pump suction flange, at given pump speed, Flow rate and temperature to prevent cavitations	m fluid
S	Specific gravity(SG) of dry solids= $\rho/\rho_w$	dimensionless