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725.1A300

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SEAL CHAMBER AND STUFFING BOX PRESSURE

Approximate Pressure at stuffing box or seal chamber (PSB) in pounds per square inch gauge

Nomenclature:

C =Pressure Coefficient

DMAX =Maximum Diameter of Impeller in inches

DR =Diameter of Impeller in Inches Required for Rating

HD = Discharge Head in Feet of Liquid = $H_T - H_s$

Hs =Suction Lift in Feet of Liquid

Hs =Total Dynamic Head in Feet of Liquid

Ps =Suction Pressure in Pounds per Square in Gauge SG =Specific Gravity of Liquid at Pumping Temperature

When suction pressure exceeds zero pounds per square inch gauge:

Ps8 = Ps + C(0.433 HT SG)

When suction pressure is less than zero pounds per square inch gauge:

 $PsB = C(0.433 H_D SG)$

