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: (Cavitations)

$$NPSHR \leq NPSHA$$

$$\text{Net Positive Suction Head Required} = NPSHR$$

$$NPSHR = \sigma H$$

N_s

$$= \sigma$$

$$= H$$

$$\text{Net Positive Suction Head Available ()} = NPSHA$$

$$NPSHA = P_{\text{atmos}} - Z_s - hf_s - P_v$$

$$= P_{\text{atmos}}$$

()

$$P_{\text{atmos}} = 10.33 - 0.00108E$$

$$= E$$

(HSs)

$$= Z_s$$

$$= hf_s$$

$$= P_v$$

()

$(Z_s)_{\text{max}}$

$$NPSHR = NPSHA$$