



BEM 172
$$\frac{3v^{2}}{2g} + 3z + \frac{\Delta P}{Rg} + \Delta h_{F} = H_{5st}$$

$$\frac{v^{3}}{2g} + (z_{2} - 2n) + F(L_{5} + L_{D}) \frac{v^{3}}{2g} = H_{5st}$$

$$(z_{2} - 2n) + (F \frac{55}{8,0525} + 1) \frac{Q^{2} [n^{3}/h]}{1185} = H_{5st}$$

$$\Delta z_{min}(z_{1} max) = 3,5m$$

$$\Delta z_{max}(z_{1} min) = 7m$$

Detarminação PO sup Q ____ o Re Moody F BEN HSET 5.56

$$452 = 3.5 \text{ m}$$
 Q = $14^{3}/h$ <>3,9 $1/s$ F = 0,022

dentro de rango de cavolal deseado V

Cartacion

NPSH_d =
$$\frac{P_s}{l_g} + \frac{v^2}{l_g} - \frac{P_{vap}}{l_g}$$

- BEM Sup y Succion bba.

$$\frac{U^2}{2}$$
 + $\frac{2}{5}$ - $\frac{2}{1}$ + $\frac{1}{5}$ - $\frac{1}{5}$ -

$$Q = 916 \frac{m^3}{h} \rightarrow u = 1,2 \frac{m}{s}$$

 $NPSH_8 = 912 m$
 $NPSH_1 = 214 m$

Snampre NPSHol > NPSHr V - la bomba \$170 cumple el servicio