

Errata

Hydraulics and Pneumatics

Technical Publications

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Page 4-11 Line no. 3 :

$$h_f = \frac{4 f L V^2}{D \times 2g}$$

Page 4-11 Line no. 10 :

$$f = \frac{0.0791}{(R_e)^{1/4}}; R_e \text{ varying from } 4000 \text{ to } 10^6$$

Page 4-11 Line no. 11 :

$$f = \frac{16}{(R_e)}; R_e < 2000, \text{ which is a case of Laminar flow.}$$

Page 4-11 Line no. 16 :

$$C = \text{Chezy's constant} = \sqrt{\frac{w}{f}} \rightarrow \text{Weight density} \\ \rightarrow \text{Constant}$$

Page 4-11 Line no. 18 :

$$= \frac{A}{P} \rightarrow \text{Area of flow} \\ \rightarrow \text{Perimeter}$$

Page 4-11 Line no. 20 :

$$= \frac{h_f}{L} \rightarrow \text{Loss of head due to friction} \\ \rightarrow \text{Length of pipe}$$

Page 4-13 Line no. 1 :

$$h_c = \frac{(V_1 - V_2)^2}{2g}$$

$$h_c = \frac{V_2^2}{2g}$$

Page 4-13 Line no. 14 :

$$h_i = 0.5 \frac{V^2}{2g}$$

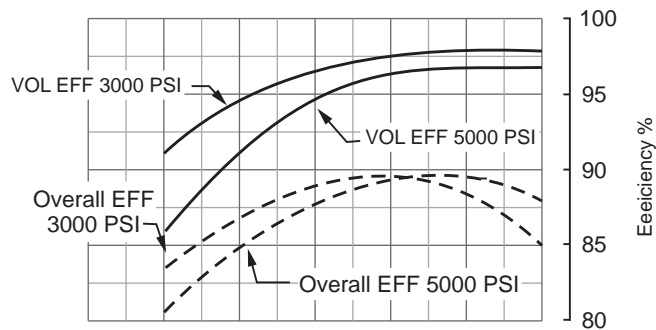
$$h_o = \frac{V^2}{2g}$$

Page 4-14 Line no. 1 :

$$h_b = k \frac{V^2}{2g}$$

$$h_{\text{fittings}} = k \frac{V^2}{2g}$$

Page 6-14 Line no. 1 :



These curves include losses from integral SERVO / CHARGE pump and transmission valve package

Fig. 6.2 (a) : Performance curves for variable displacement piston pumps

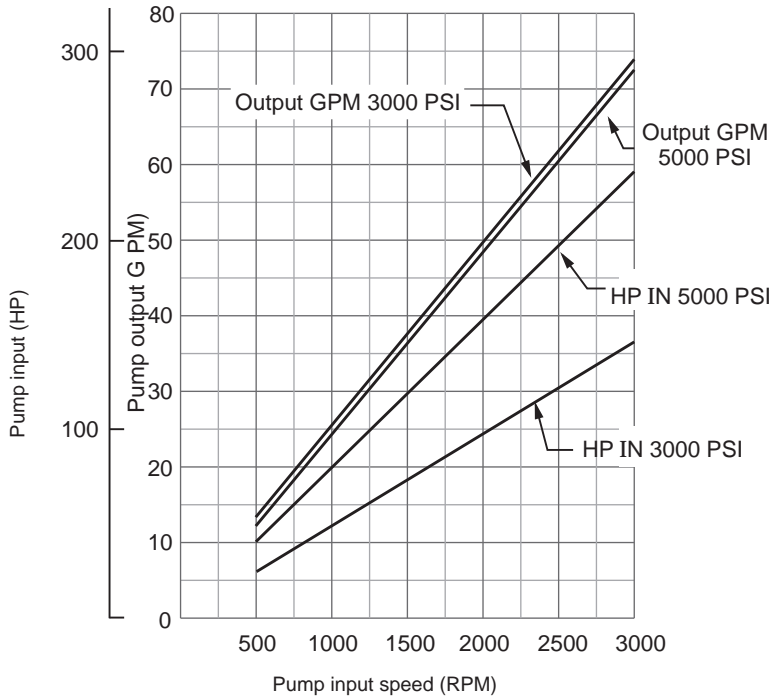


Fig. 6.2 (b) : Performance curves for variables displacement piston pumps³

Page 6-15 Line no. 1 :

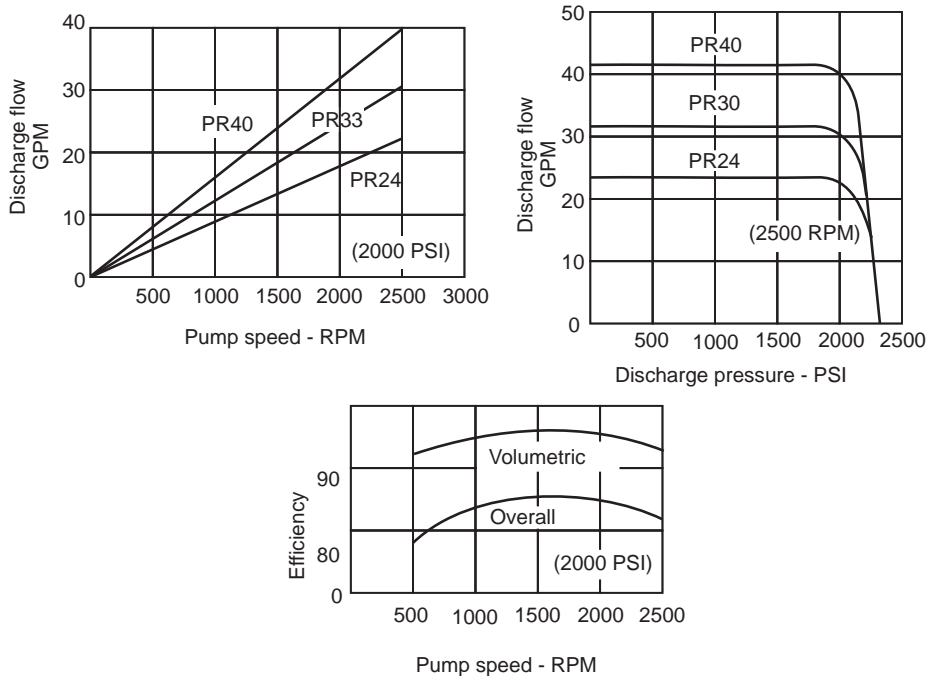


Fig. 6.3 : Performance curves for radial piston pumps

Page 7-14 Line no. 5 :

$$\text{Beta ratio}_{(x)} = \frac{\text{Particles count in upstream oil}}{\text{Particles count in downstream oil}}$$

Page 13-17 Line no. 2 :

⇒ Ports/Positions DCV

Page 14-19 Line no. 3 :

In case of double acting cylinder for direct control, a 5/2 direction control valve is

