

May 18, 2009

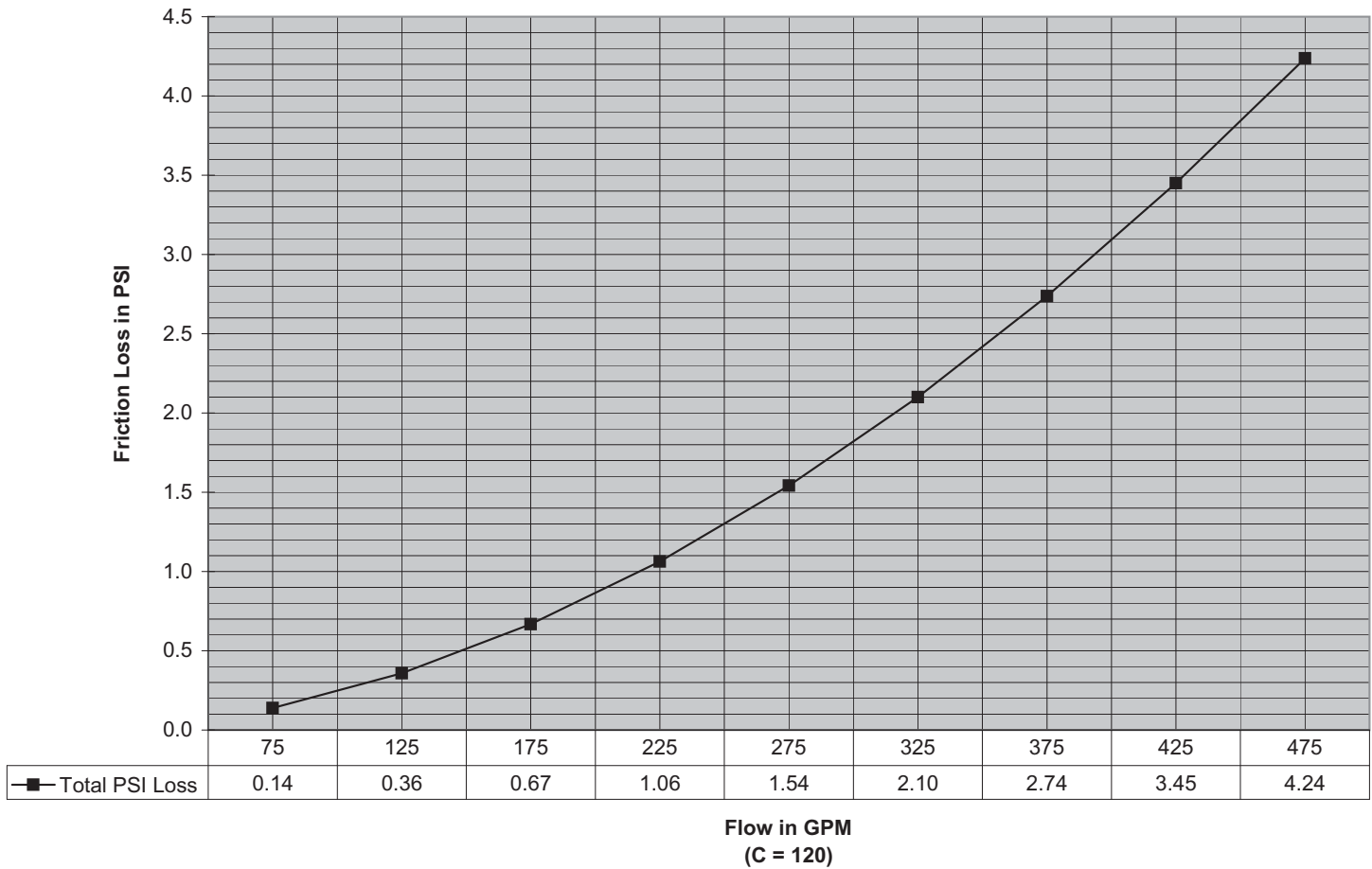
	TECHNICAL DATA	2-1/2" MODEL E-1 SWING CHECK VALVE FRICTION LOSS CHART
---	-----------------------	---

The Viking Corporation, 210 N Industrial Park Drive, Hastings MI 49058
 Telephone: 269-945-9501 Technical Services 877-384-5464 Fax: 269-818-1680 Email: techsvcs@vikingcorp.com

FOR USE WITH ENGLISH PRACTICAL SYSTEM
 Where Flow is Measured in GPM and Pressure is Measured in PSI

Graph is for reference purposes.

Total PSI Loss



Friction Loss for the 2-1/2" Viking Model E-1 Swing Check Valve is equivalent to 6 feet of 2-1/2" Schedule 40 (id = 2.469") Pipe (C = 120).

To calculate friction loss for the 2-1/2" (id = 2.469") Viking Model E-1 Swing Check Valve at a specific flow, use the following formula:

$$P_{\text{PSI}} = \left(\frac{4.52 \times Q^{1.85}}{C^{1.85} \times 2.469^{4.87}} \right) \times 6$$

Where P = Friction Loss (PSI)
 Q = Flow in GPM
 C = Constant (=120)