PROCHEM SERVICES LTD

Pinch Valve Size Selection for Pressure Relief and Loading

Theoretical Flow Rate at Velocities

Valve Size	1 Mtr/sec	2 Mtr/sec	3 Mtr/sec
20 / 3/4"	1.03	2.05	3.09
25 / 1"	1.82	3.65	5.46
32 / 1 1/4"	2.85	5.70	8.55
40 / 1 1/2"	4.10	8.20	12.30
50 / 2"	7.30	14.60	21.90
65 / 2 1/2"	11.40	22.80	34.20
80 / 3"	16.42	32.83	49.26
100 / 4"	29.20	58.40	87.60
125 / 5"	45.60	91.20	136.80
150 / 6"	65.70	131.30	197.10
200 / 8"	116.75	233.50	350.25

1. Flowrates are in cubic meters per hour.

2. When handling slurries or liquids with abrasive particles in suspension flow velocity should be kept to a minimum and valve sizing should reflect a line velocity of 1 - 1.5 Mtr/sec MAX.

3. Clean free flowing liquids can be handled at higher line velocities but higher pressure losses will be experienced during venting.

4. These figures are for guidance only and different liquids/slurries should be considered on their individual merits.

Prochem Services Ltd., Washford Mill, Mill Street, Congleton, Cheshire, CW12 2AD · Tel: 01260 299770 · Fax: 01260 299880