

## Flow Through Orifices, Pressure Manifolds

### A. Sch 40 taps.

Head (ft)	Holes Size					
	½ -inch (.622)	¾-inch (.824)	1-inch (1.049)	1-¼ inch (1.38)	1-½ inch (1.61)	2-inch (2.067)
1.5	6.16	10.8	17.5	30.3	41.3	68.0
2	7.11	12.5	20.2	35.0	47.7	78.5
2.5	7.95	14.0	22.6	39.1	53.3	87.8
3	8.71	15.3	24.8	42.9	58.4	96.2
3.5	9.41	16.5	26.8	46.3	63.0	104
4	10.1	17.7	28.6	49.5	67.4	111

### B. Sch 80 taps.

Head (ft)	Hole Size					
	½ -inch (.546)	¾-inch (.742)	1-inch (.957)	1-¼ inch (1.278)	1-½ inch (1.50)	2-inch (1.939)
1.5	4.75	8.77	14.6	26.0	35.8	59.9
2	5.48	10.1	16.8	30.0	41.4	69.1
2.5	6.13	11.3	18.8	33.6	46.2	77.3
3	6.71	12.4	20.6	36.8	50.7	84.7
3.5	7.25	13.4	22.3	39.7	54.7	91.4
4	7.75	14.3	23.8	42.5	58.5	97.8

$$Q=13 d^2 h^{1/2}$$

Where Q=flow per orifice (gpm)

d=diameter of orifice (inches)

h=pressure head (feet)