

損失水頭の管継手類および弁類の相当管長(m)

| 呼び径(A) 種別 | 15 (1/2") | 20 (3/4") | 25 (1") | 32 (1-1/4") | 40 (1-1/2") | 50 (2") | 65 (1-1/2") | 80 (3") | 100 (4") | 125 (5") | 150 (6") | 200 (8") | 250 (10") |
|-----------------|--------------|--------------|------------|----------------|----------------|------------|----------------|------------|-------------|-------------|-------------|-------------|--------------|
| アングル弁 (フート弁) | 2.4 | 3.6 | 4.5 | 5.4 | 6.6 | 8.4 | 10.2 | 12.0 | 16.5 | 21.0 | 24.0 | 33.0 | 43.0 |
| 逆止弁 | 1.2 | 1.6 | 2.0 | 2.5 | 3.1 | 4.0 | 4.6 | 5.7 | 7.6 | 10.0 | 12.0 | 15.0 | 19.0 |
| 玉形弁 | 4.5 | 6.0 | 7.5 | 10.5 | 13.5 | 16.5 | 19.5 | 24.0 | 37.5 | 42.0 | 49.5 | 70.0 | 90.0 |
| 仕切弁 | 0.12 | 0.15 | 0.18 | 0.24 | 0.3 | 0.39 | 0.48 | 0.63 | 0.81 | 0.99 | 1.2 | 1.4 | 1.7 |
| 90度エルボ | 0.6 | 0.75 | 0.9 | 1.2 | 1.5 | 2.1 | 2.4 | 3.0 | 4.2 | 5.1 | 6.0 | 6.5 | 8.0 |
| 45度エルボ | 0.36 | 0.45 | 0.54 | 0.72 | 0.9 | 1.2 | 1.5 | 1.8 | 2.4 | 3.0 | 3.6 | 3.7 | 4.2 |
| 90度ティ (分流) | 0.9 | 1.2 | 1.5 | 1.8 | 2.1 | 3.0 | 3.6 | 4.5 | 6.3 | 7.5 | 9.0 | 14 | 20 |
| 90度ティ (直流) | 0.18 | 0.24 | 0.27 | 0.36 | 0.45 | 0.6 | 0.75 | .9 | 1.2 | 1.5 | 1.8 | 4.0 | 5.0 |

ガス管(GISG3452)の摩擦損失水頭(100あたり)

ここでは 一般的なフート弁の 圧力損失の計算方法を述べます。

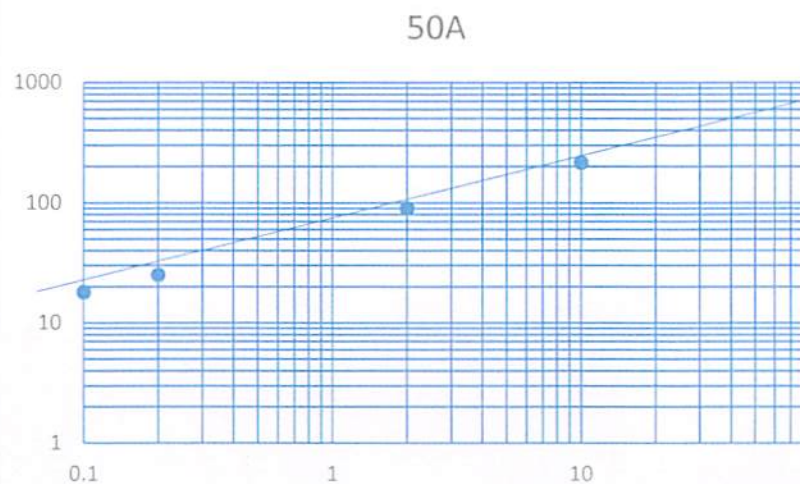
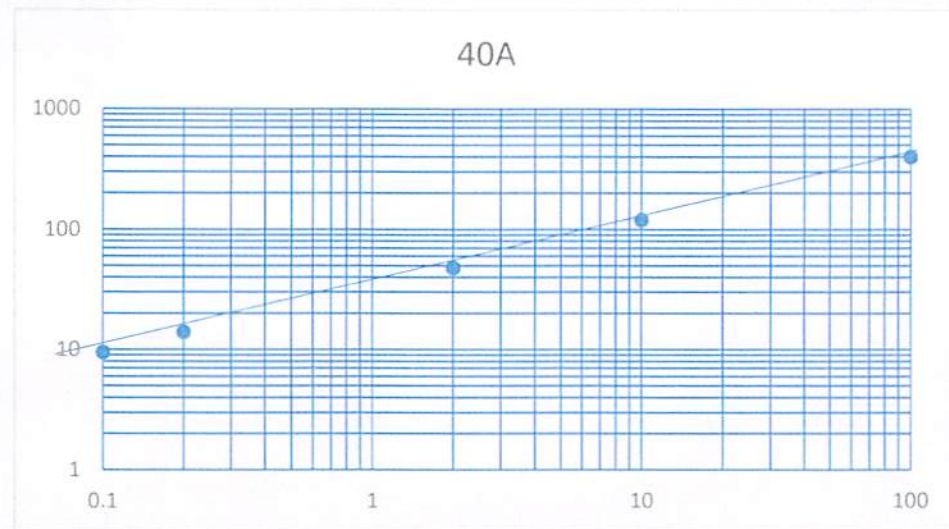
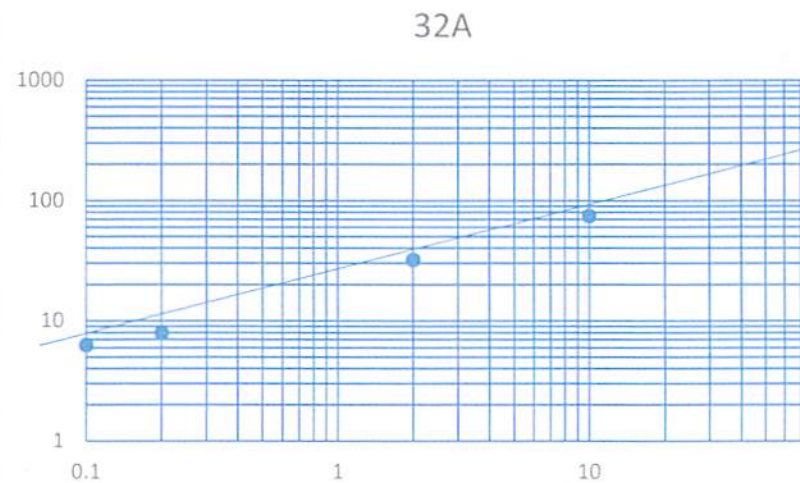
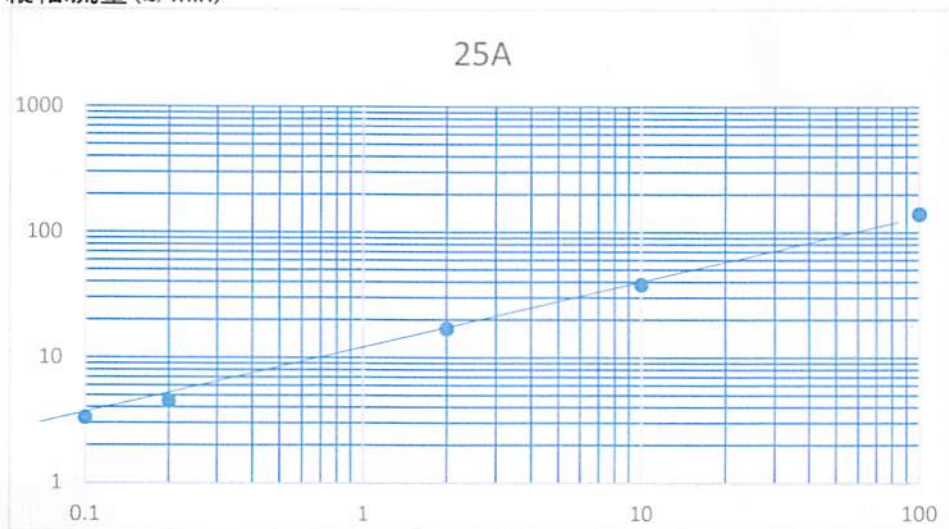
- ①上の表よりフート弁の圧力損失を直管長さに換算します。(x m)
- ②アングル弁が比較的フート弁に近いのでアングル弁をフート弁の相当直管長さとしてします。
- ③下のグラフよりサイズ(A)・流量(Q/分)から100m当たりの損失水頭を求めます。(y m)
- ④対象フート弁の損失水頭=100m当たりの損失水頭(y)×相当管長(x) /100m=y × x/100(m)

Here,we describe the calculation method of pressure loss of general foot valve.

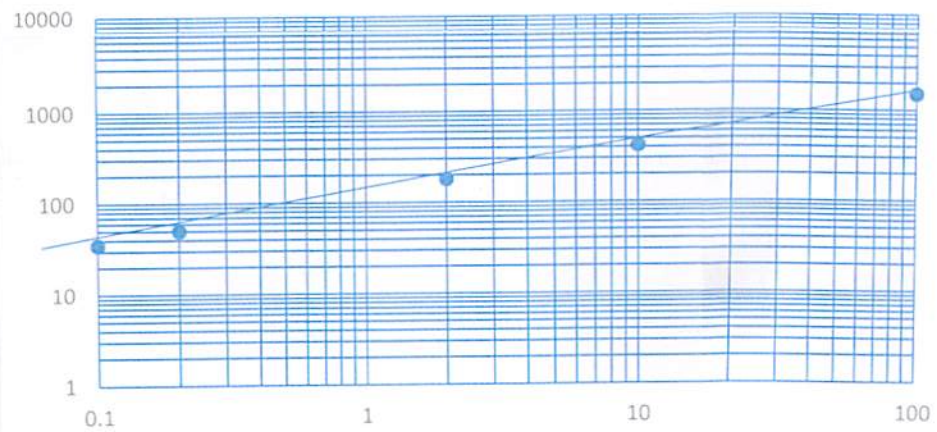
- ①From the table above,convert the pressure loss of the foot valve to the stright pipe length.
- ②Since the angle valve is relatively close to the foot valve,the angle valveis equivalent stright pipe length of the foot valve.
- ③Based on the graph below,A.Calculate the head loss per 100m from the flow rate.(l/min)
- ④Loss of foot valve Hydraulic head =loss equivqlent to 100 Head of water(y)*equivalent length(x)/100(m).

横軸: 損失水頭(m)
縦軸: 流量 (ℓ/min)

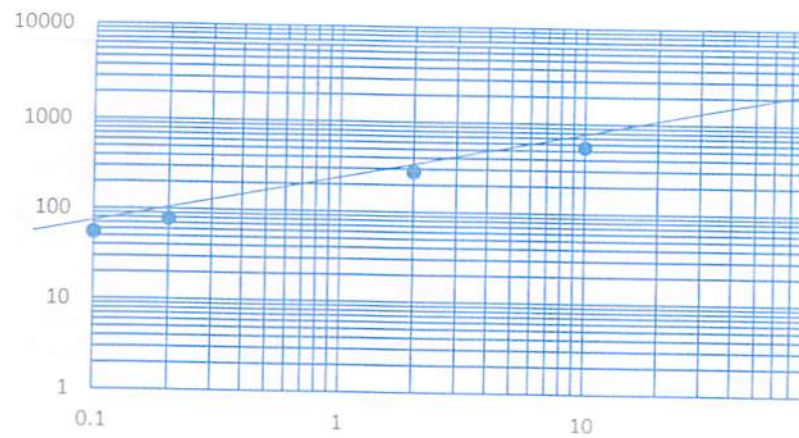
ガス管(GISG3452)の摩擦損失水頭(100mあたり)



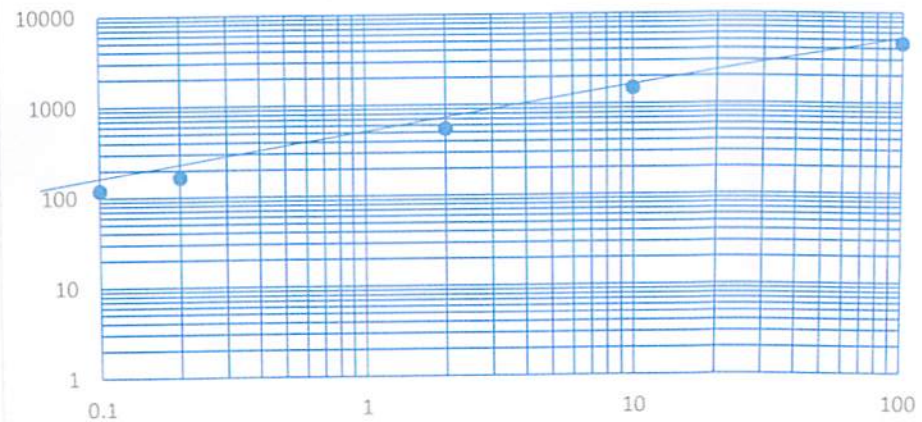
65A



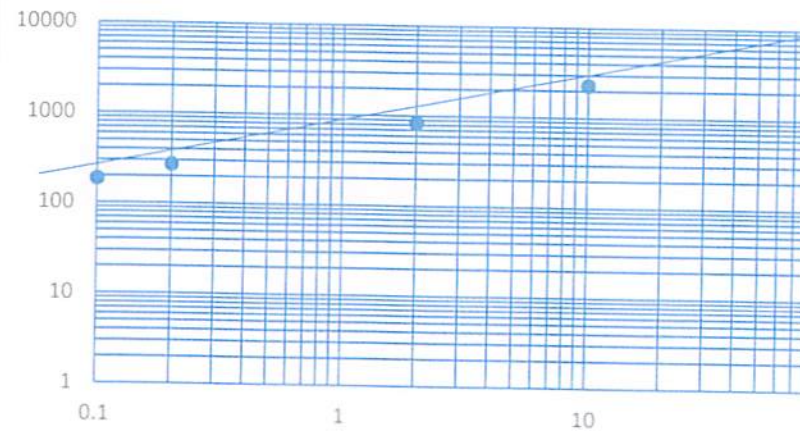
80A



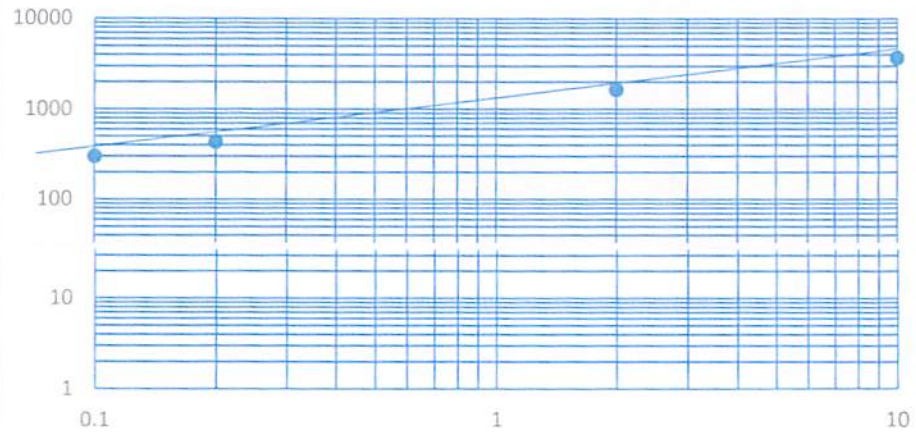
100A



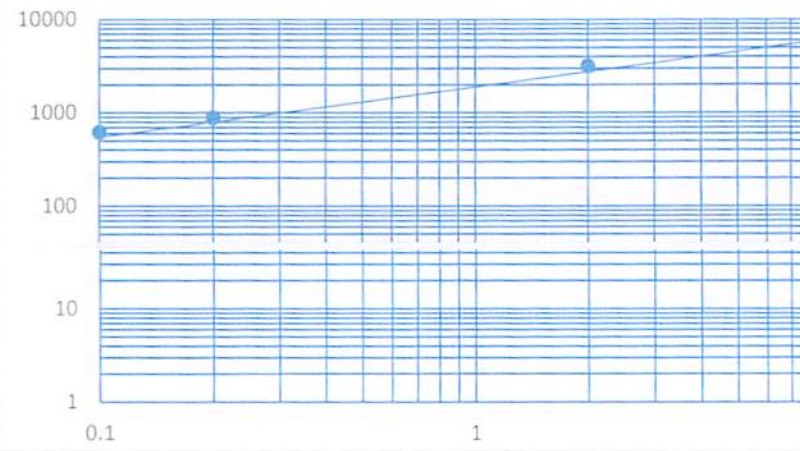
125A



150A



200A



250A

