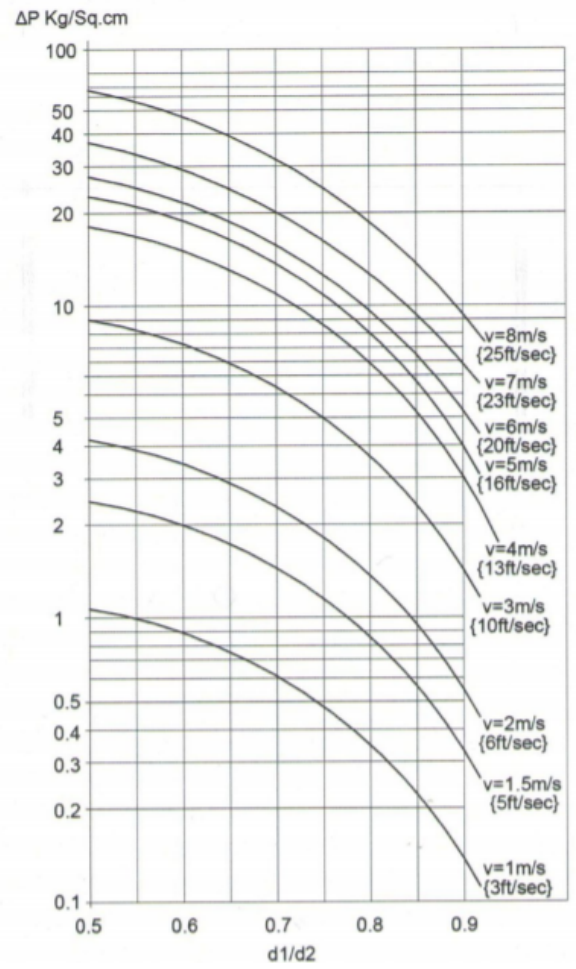
**FLOMETRIQ FILTRATION AND INSTRUMENTATION (P) LTD**

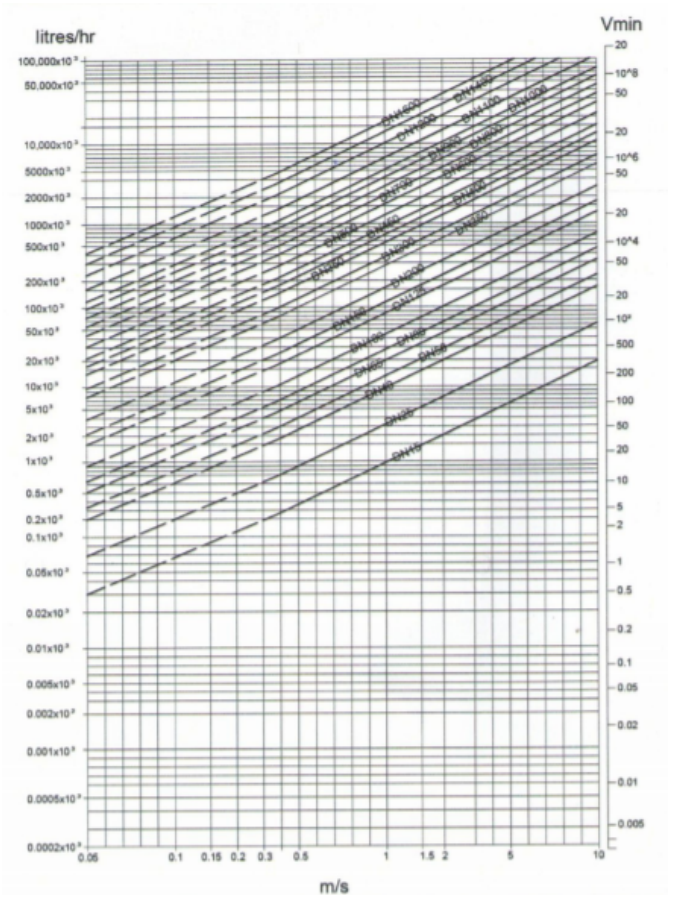
*Engineering Flow...*

# EMF ACCUFLOW SERIES

## Pressure Drop Characteristics




## Sensor Selection




The table shows the relationship between flow velocity v, flow quantity Q and sensor dimension DN

**Guidelines for selection of sensor**
Min. measuring range: 0 to 0.3 m/s
Max. measuring range: 0 to 10 m/s
Normally the sensor is selected, that the nominal flow velocity v lies within the measuring range 0.5 to 3 m/s

| Flow velocity calculation formula | Units |
|---|---|
| $v = 1273.24 \cdot Q / DN^2$ or | v : [m/s], Q : [l/s], DN : [mm] |
| $v = 353.68 \cdot Q / DN^2$ | v : [m/s], Q : [$m^3$/h], DN : [mm] |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## Sizing Chart

| Pipe Size | | Max. Flow | Nominal Flow | Min. Flow | Creep (Cut-Off) |
|---|---|---|---|---|---|
| | | 10m/s | 5m/s | 0.3m/s | 0.04m/s |
| 1 | 25 | 5.09 | 2.50 | 0.15 | 0.016 |
| 1 1/4 | 32 | 8.00 | 4.0 | 0.25 | 0.03 |
| 1 1/2 | 40 | 12.00 | 6.0 | 0.41 | 0.05 |
| 2 | 50 | 19.80 | 10.0 | 0.58 | 0.08 |
| 2 1/2 | 65 | 33.18 | 16.0 | 1.00 | 0.13 |
| 3 | 80 | 43.61 | 22.0 | 1.50 | 0.20 |
| 4 | 100 | 75.10 | 38.0 | 2.41 | 0.33 |
| 6 | 150 | 170.43 | 85.0 | 5.50 | 0.69 |
| 8 | 200 | 295.11 | 147.0 | 9.70 | 1.38 |
| 10 | 250 | 465.18 | 232.0 | 15.20 | 2.08 |
| 12 | 300 | 667.18 | 333.0 | 22.0 | 2.77 |
| 14 | 350 | 798.18 | 399.0 | 23.95 | 3.20 |
| 16 | 400 | 1166 | 583 | 38.0 | 5.55 |
| 18 | 450 | 1500 | 750 | 50.0 | 7.0 |

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