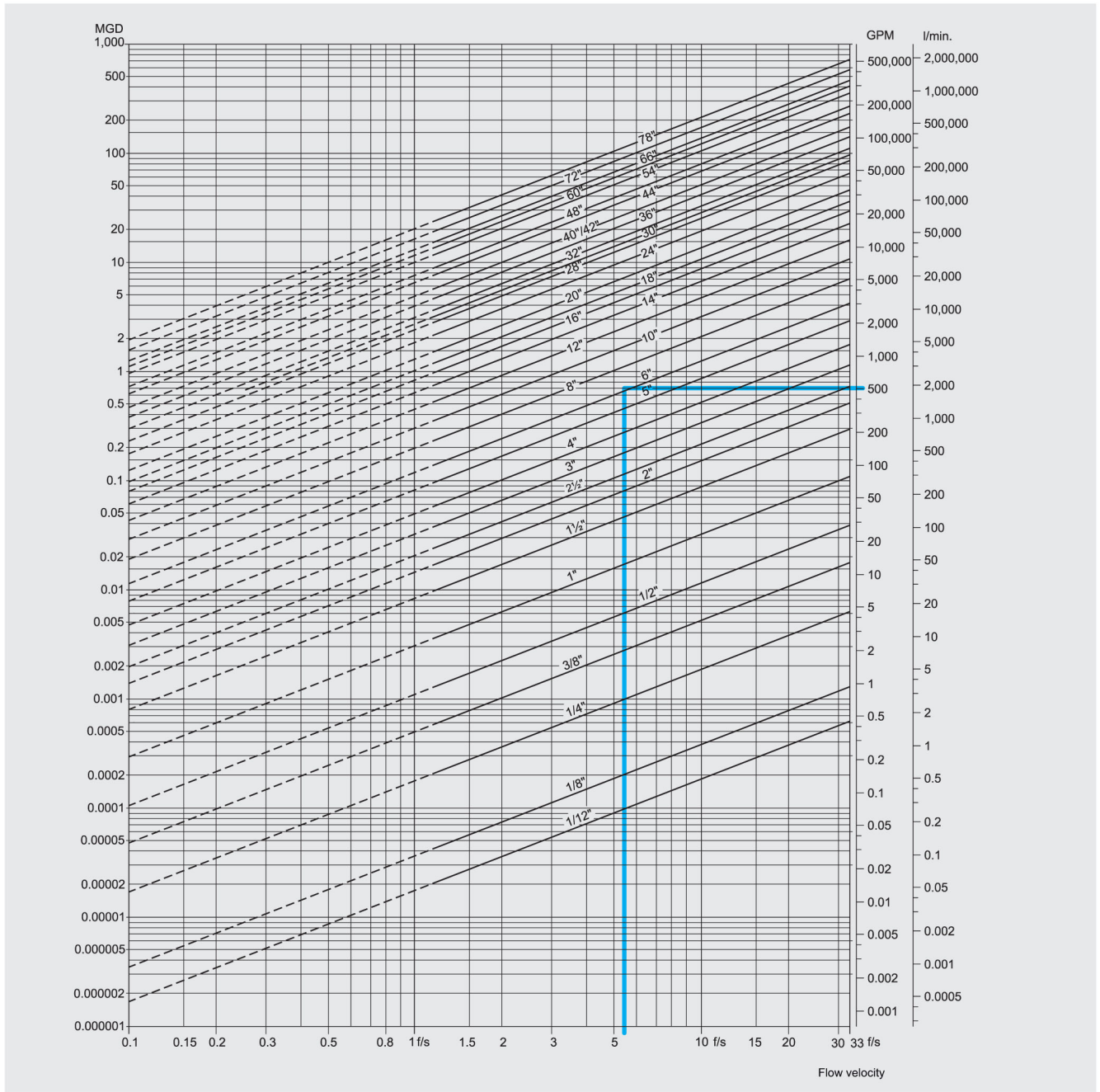


Flow Meter Sizing Table

Imperial



Sizing table ($1/12''$... 78")

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

Guidelines for selection of sensor

Min. measuring range: 0 to 0.8 ft/s

Max. measuring range: 0 to 33 ft/s

Normally the sensor size is selected so that the nominal flow velocity v lies within the measuring range 3 to 10 ft/s.

Example:

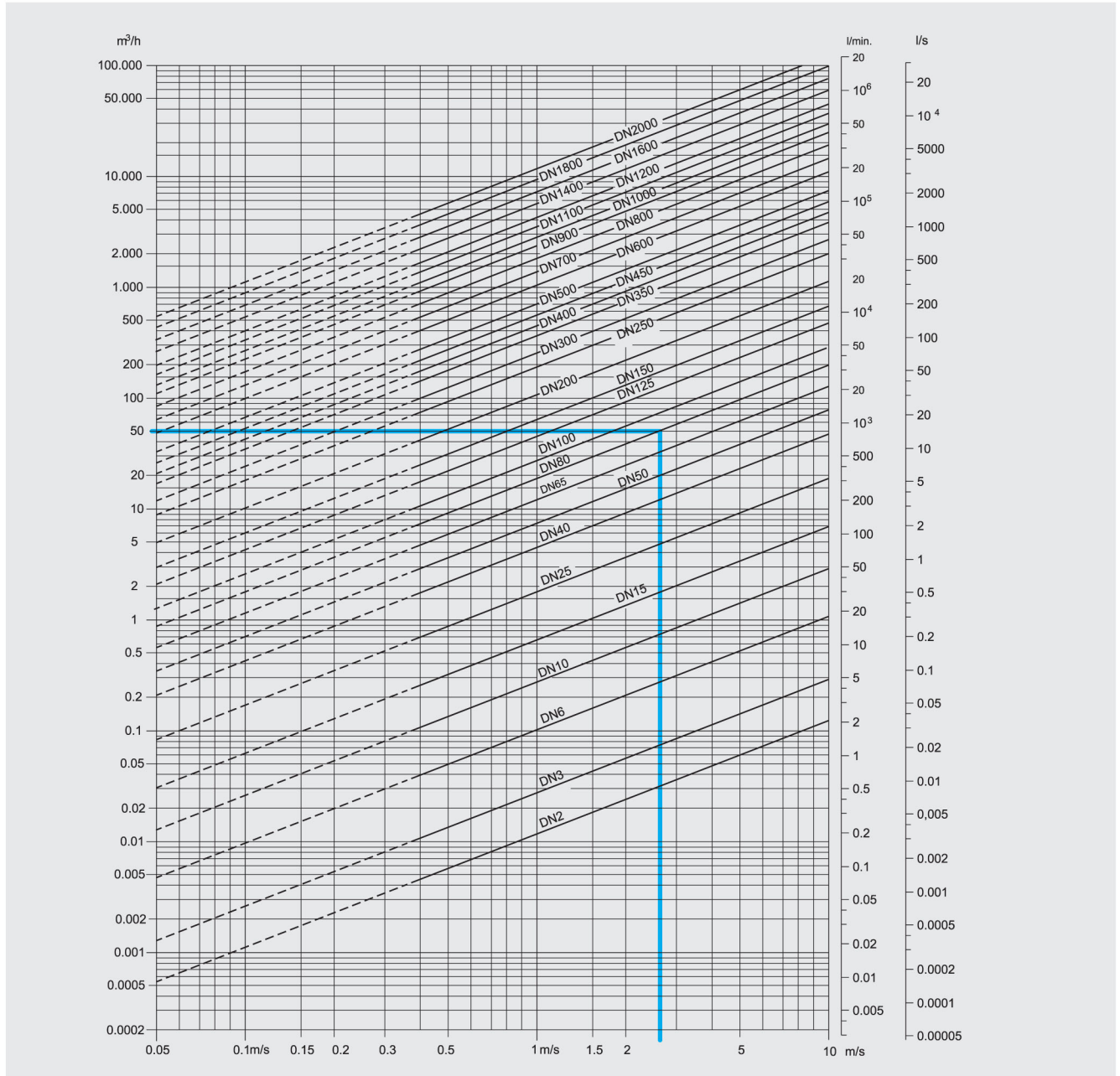
Flow quantity of 500 GPM and a sensor dimension of 6" gives a flow velocity of 5.6 ft/s, which is within the recommended measuring range of 3 to 10 ft/s.

| Flow velocity calculation formula | Units |
|---|---|
| $v = 0.408 \cdot Q / (\text{Pipe I.D.})^2$ or | v : [ft/s], Q : [GPM], Pipe I.D. : [inch] |
| $v = 283.67 \cdot Q / (\text{Pipe I.D.})^2$ | v : [ft/s], Q : [MGD], Pipe I.D. : [inch] |

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Flow Meter Sizing Table

Metric



Sizing table (DN 2 ... DN 2000)

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 0.25 m/s

Max. measuring range: 0 to 10 m/s

Normally the sensor size is selected so that the nominal flow velocity v lies within the measuring range 1 to 3 m/s.

Example:

Flow quantity of 50 m³/h and a sensor dimension of DN 80 gives a flow velocity of 2.7 m/s, which is within the recommended measuring range of 1 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 : [m³/h], DN : [mm] |

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