

# IPLEX BLUELINE FLOW CHART @ 12.8°C

## POISEUILLE FORMULA (R<2000)

$$Q = \frac{d^4}{5037}$$

$$V = 0.25276 \frac{d^2}{i}$$

$$i = \frac{5037 Q}{d^4}$$

## LAMONT FORMULA S3 (3000<R<300000)

$$Q = \frac{2304}{d^{2.6935} i^{0.5645}}$$

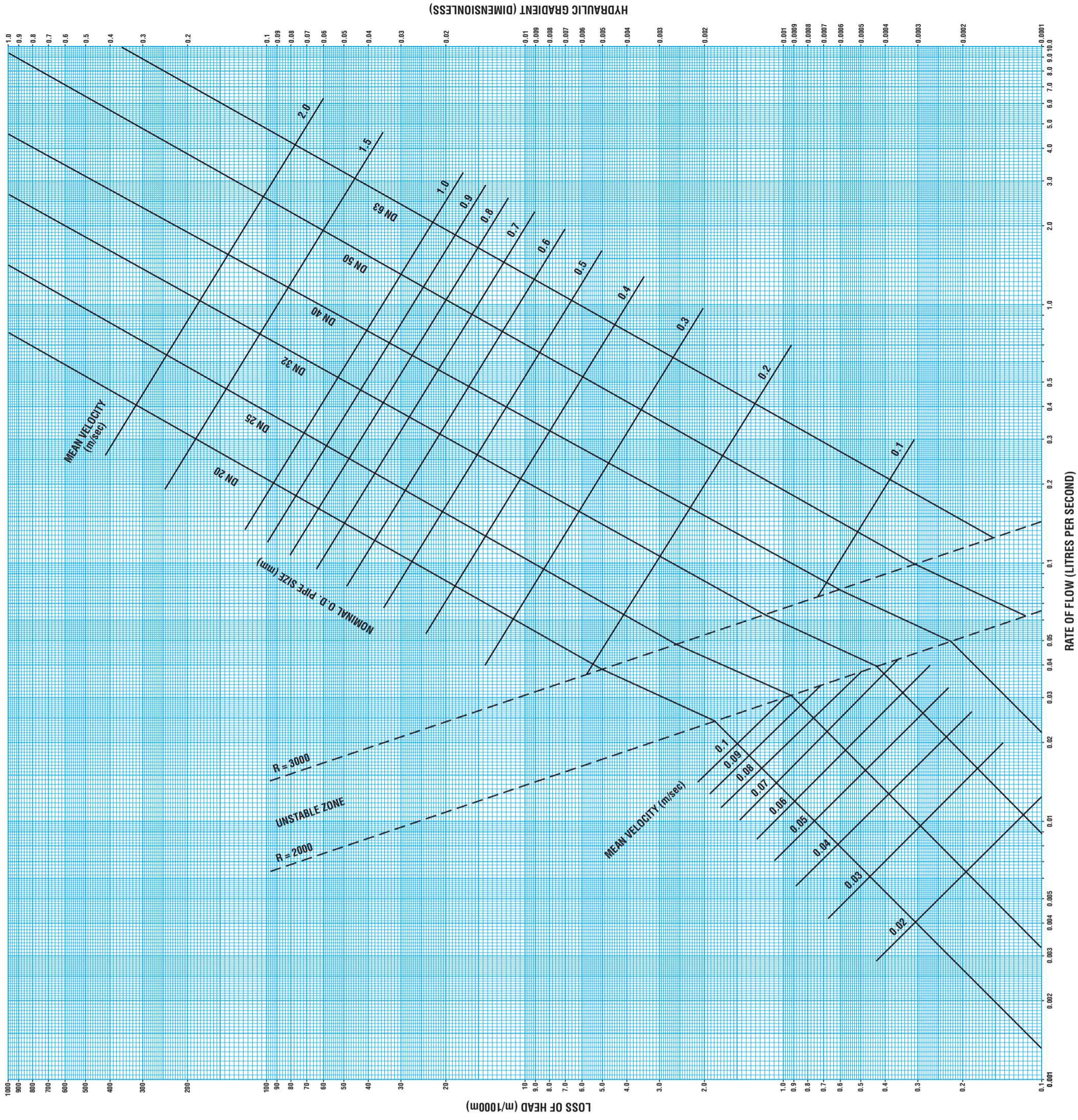
$$V = 0.55254 \frac{d^{0.6935}}{i^{0.5645}}$$

$$i = \frac{905032 Q^{1.772}}{d^{4.772}}$$

## Explanation of Units

- R = Reynolds No.
- Q = Flow rate (Litres per second)
- i = Hydraulic Gradient
- V = Flow Velocity (metres per second)
- d = Mean Pipe Internal Diameter (mm)

NOTE: This chart should be used as a guide only. All designs should be checked from first principles, based upon the above equations.





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# BLUELINE PN12.5 FLOW CHART

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**Version 2**

This version supersedes all previous versions or editions of this flow chart.

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