IPLEX REDLINE™ FLOW CHART @ 12.8ºC

POISEUILLE FORMULA (R<2000)

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

$$V = 0.25276\, d^2 i$$

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

LAMONT FORMULA S3 (3000<R<300000)

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

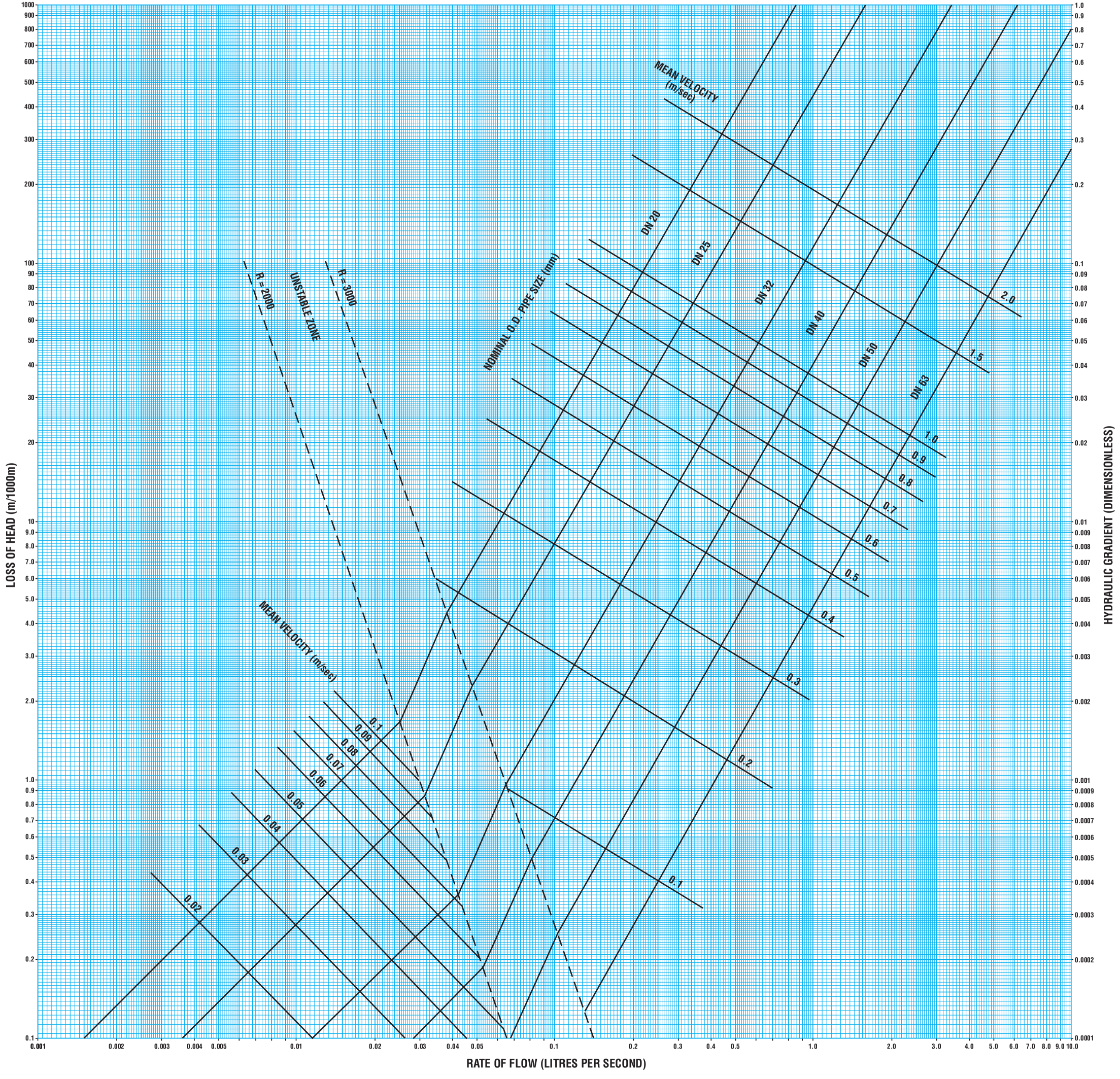
$$V = 0.55254\, d^{0.6935} i^{0.5645}$$

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

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.



REDLINE™ FLOW CHART

Iplex Pipelines NZ Limited
Rural Product Range

GREENLINE

REDLINE™

BLUELINE

BLACKLINE

RURAL BLACK

PLASSON®

ALKATHENE™

NOVATUBE

NEXUS™

NOVAFLO™

EFFLUENT PIPE

FARMTUFF™

NEXUS™CULVERT

Version 2
This version supersedes all previous versions or editions of this flow chart.

Iplex Pipelines NZ Limted.

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