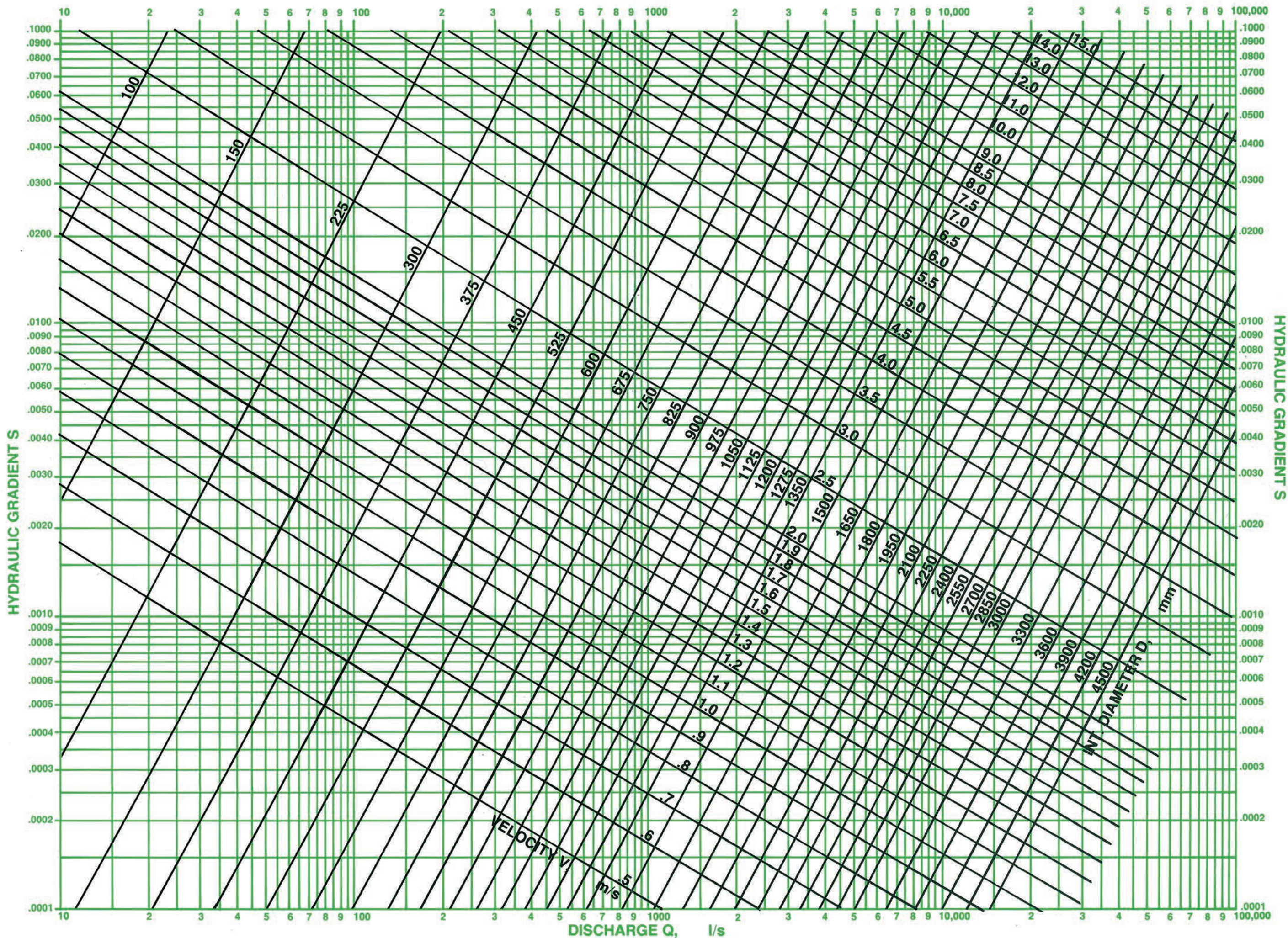
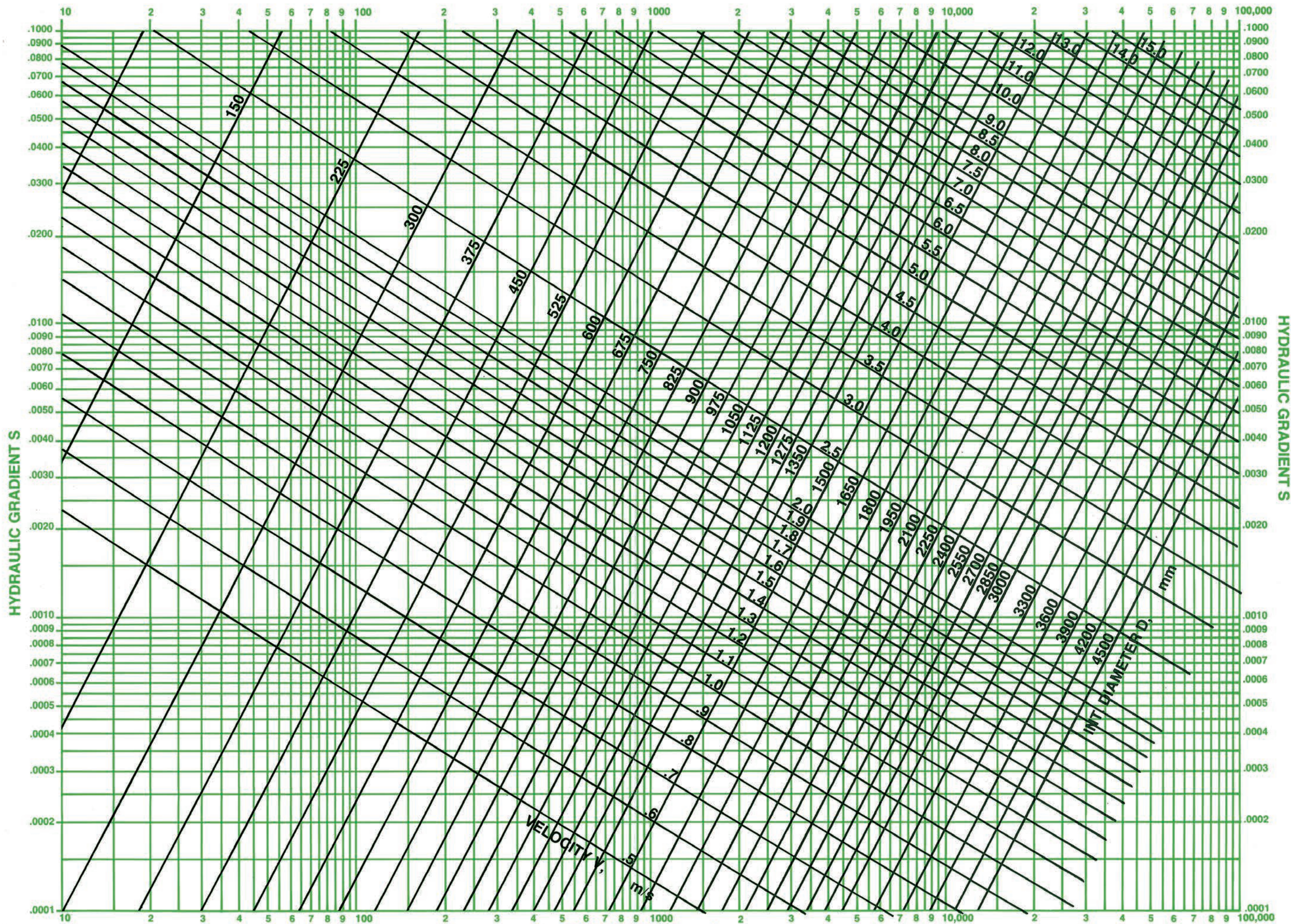


DISCHARGE Q , l/s
CIRCULAR PIPES FLOWING FULL
COLEBROOK-WHITE FORMULA $k = 0.06 \text{ mm}$



CIRCULAR PIPES FLOWING FULL
COLEBROOK-WHITE FORMULA $k = 0.15 \text{ mm}$



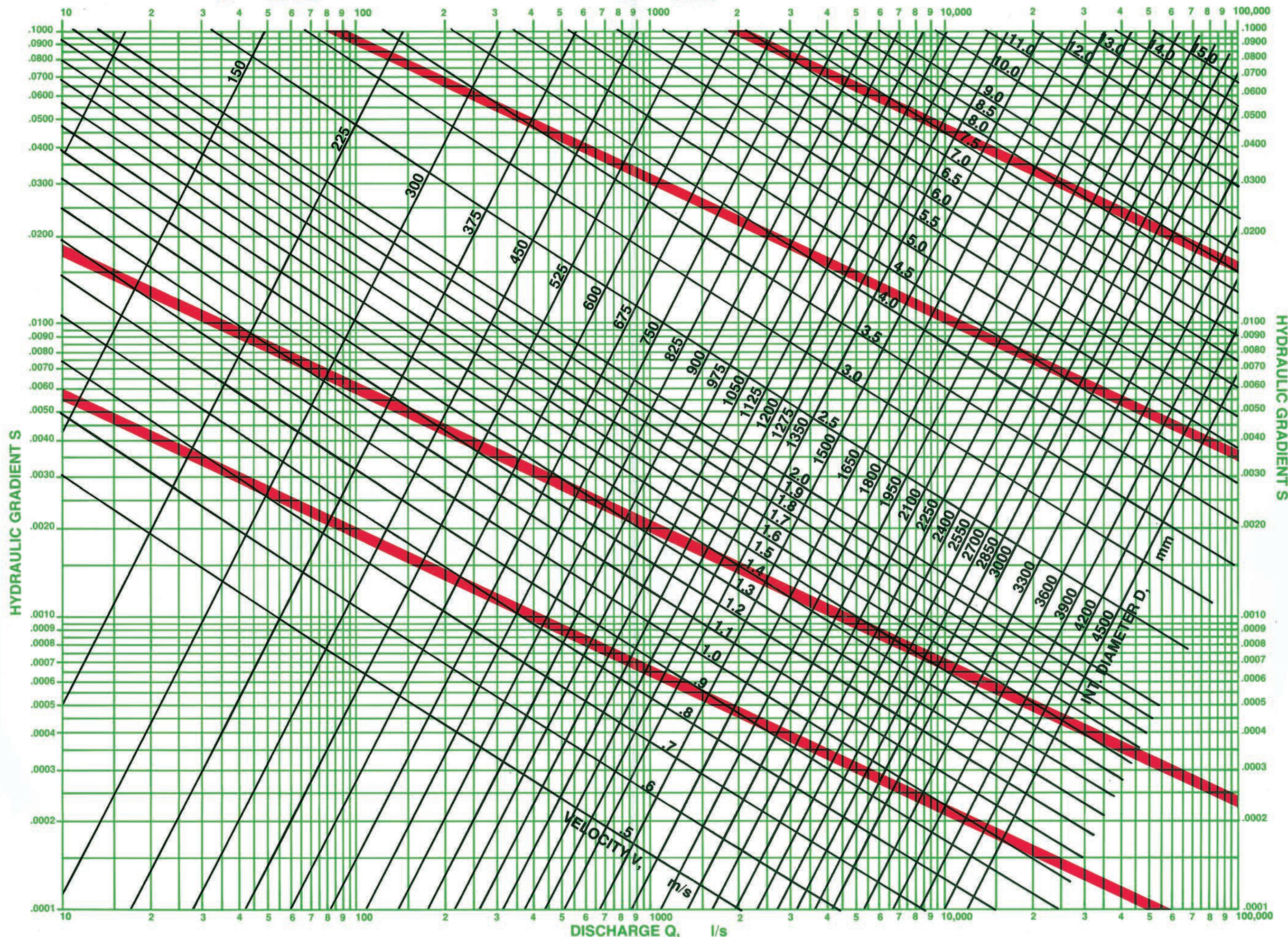
DISCHARGE Q , l/s
CIRCULAR PIPES FLOWING FULL
COLEBROOK-WHITE FORMULA $k = 0.60 \text{ mm}$

Vmin. SLIME CONTROL
sD = 0.002m

Vmin. SELF-CLEANSE
sD = 0.0008m

Vmax. PVC LINER
sD = 0.018m

Vmax. PLAIN CONCRETE
sD = 0.06m



COLEBROOK-WHITE FORMULA $k = 1.50\text{mm}$