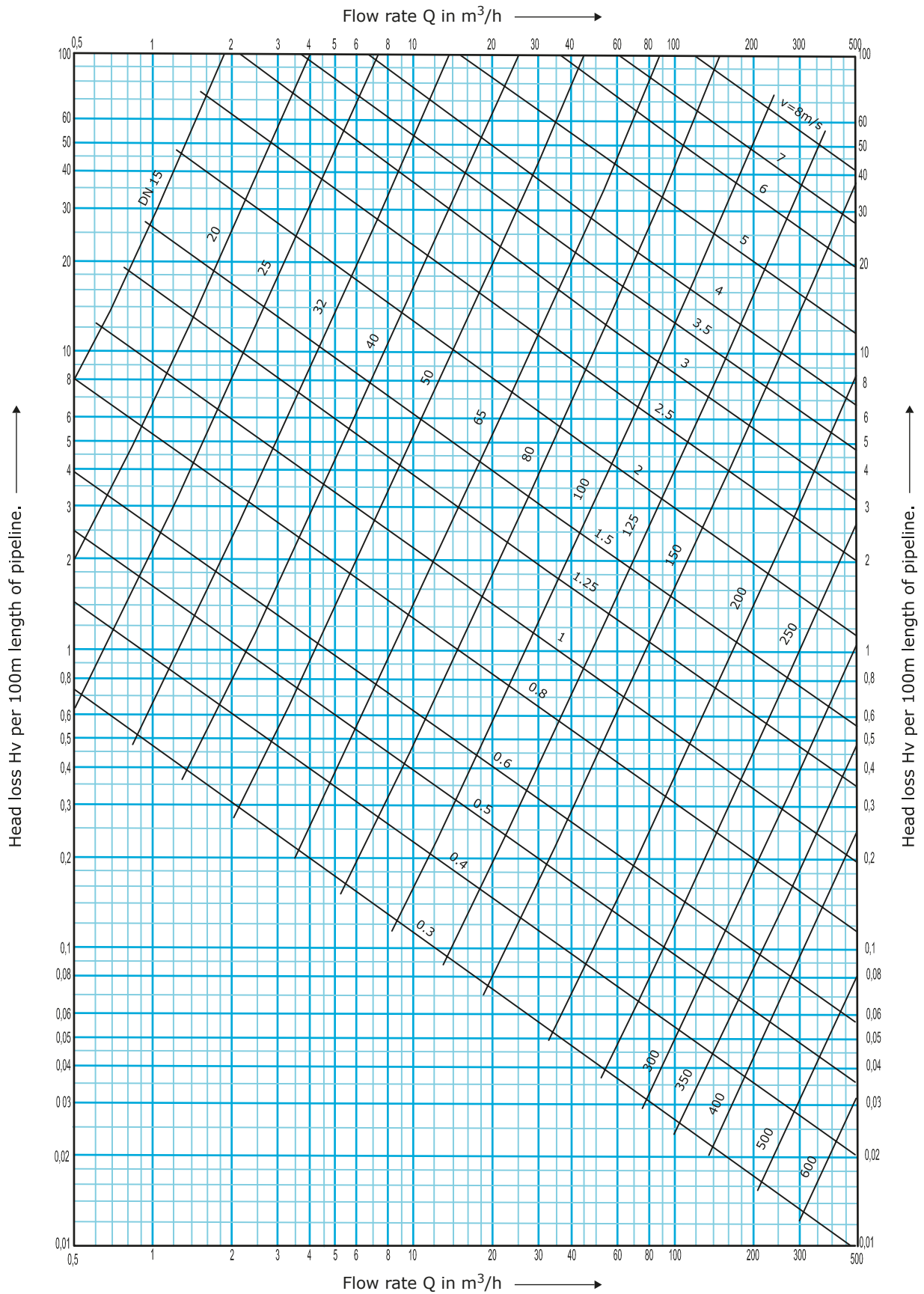


FRICITION LOSS CHART



The loss of pressure given by the chart is applicable to new cast iron pipes made by rolling and welding steel plate. For new solid and rolled steel tubes the resistance to flow is about 0.80 times that given by chart. For fairly old rusted C.I. pipes the actual pressure drop may be as much as 1.25 times the figure calculated from the chart. For tubes with light incrustation, the flow resistance increases to about 1.7 times the value shown on the above chart and should be calculated for the actual (not the nominal) diameter of the incrustated pipes, for heavily incrustated pipes the pressure loss can only be determined by tests. Deviations from the nominal diameter have a considerable effect on the result. For example a decrease in the required diameter by about 1.3 times for the same degree of roughness.