ADVISABLE SPEED (M/sc) TABLE FOR MISCELLANEOUS LIQUIDS, GASES AND AIR THAT PASS THROUGH PIPES

TYPE OF FLOWING MATERIAL	ADVISABLE SPEED M / sn
WATER	
• City Sustaining Network	• 0,60 – 1,50
• General Sustaining Lines	• 1,50 – 3,00
• Vessel Sustaining	• 2,00 – 3,00
• Suction and Force Pump and Pipe Sustaining Line	• 0,75 – 1,50
• Hydraulic Liquids	• Up to 12 M/sc.
OIL (HYDRAULIC LIQUIDS)	
• Pipe-line flow	• 3,00 – 7,50
• Suction and Force Pump Line	• 0,75 – 1,25
STEAM	
• To be used in heating	• 20,0 – 30,0
• For general use	• 30,0 – 50,0
• High Temperature	• 50,0 – 70,0
AIR AND GAS	
• General Sustainment	• 20,0 – 75,0

Example;

The pipe is adjusted to accord the speed of the liquid flows that go through it, and to fit to the requirements in the horizontal and the vertical pipes, the flow speed has been taken as 3,5 m/sc.

The diameter of the pipe where the flow is conducted is taken to be 125 mm.

In order to find the amount conducted Q= m^3 according to this data , V= 3,5 m^3 / h is marked on the vertical axis, as it is done with the graph. Moving horizontally, it is intersection with DN 125 is found and going down towards the arrow, a flow rate of Q=175 m^3/h, is found.