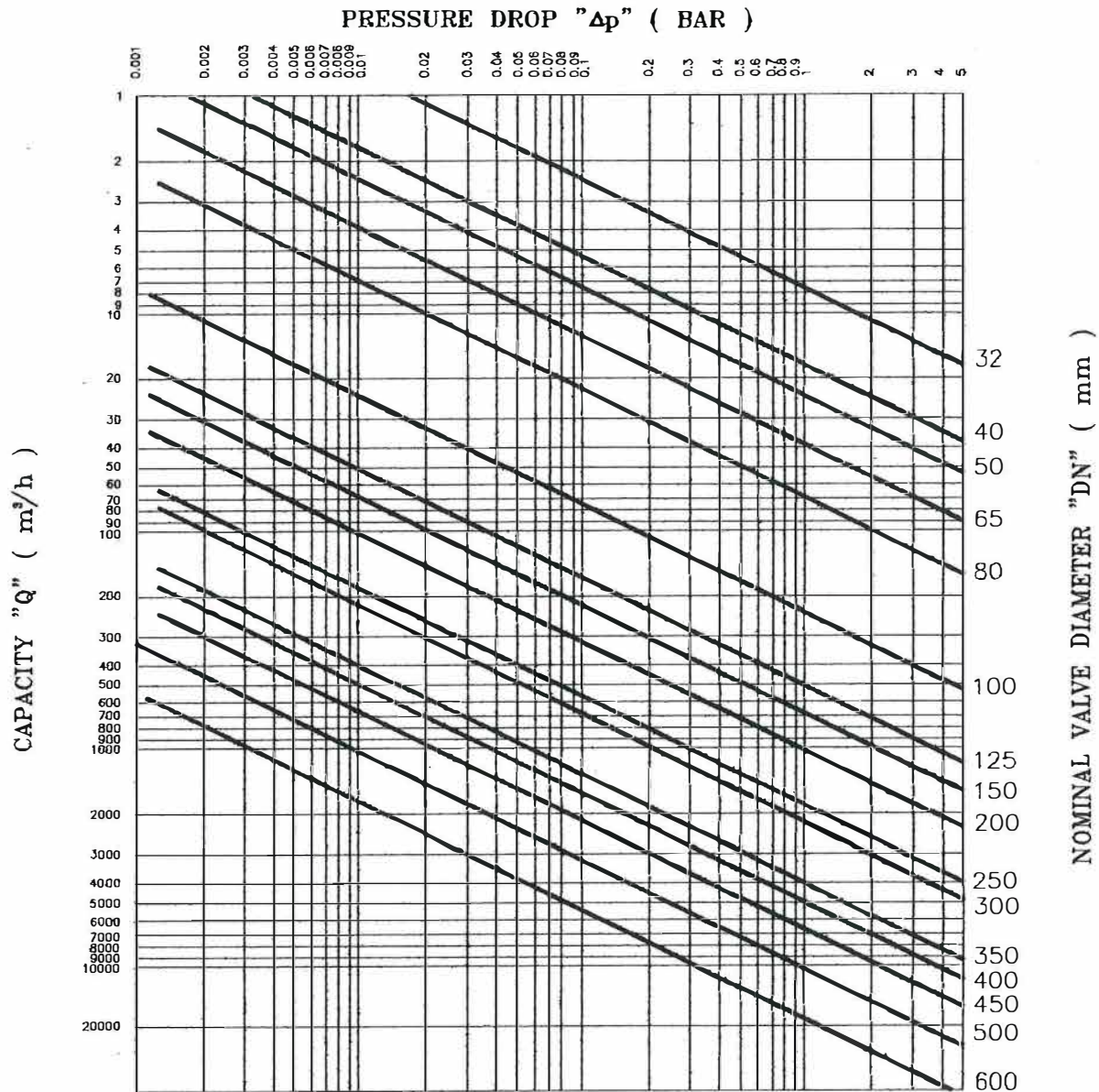


PRESSURE DROP DIAGRAM "ΔP"

TEST CONDITIONS: Water (H₂O)
Specific weight : 1 Kg/dm³
Temperature : 15°C



The curves shown on the diagram represent pressure drop related to water at 15°C. Pressure drop related to fluids other than water (air or gas) is obtained by calculating the equivalent related water flow (Q_e) and including this new value on the diagram.

To obtain the value of the equivalent water flow (Q_e) the following formula should be applied:

$$Q_e = \sqrt{\frac{\rho}{1000}} \times Q$$

Q_e = Equivalent water flow in m³/h
Q = Fluid flow (air or gas) at operating conditions in m³/h
ρ = Fluid density measured in operating conditions in Kg/m³

The pressure drops shown on the diagram and those obtained from the formula refer to valves fitted on horizontal pipelines. The valves indicated on the diagram are also applicable to valves fitted on vertical pipelines, only in case of partial valve opening.

The resulting differences are unimportant.

COEFFICIENT VALVES "CV"

DN	CV	DN	CV
32 1¼	8.7	200 8	1205
40 1½	20	250 10	2200
50 2	29.5	300 12	2560
65 2½	49	350 14	4820
80 3	78	400 16	6050
100 4	286	450 18	7740
125 5	635	500 20	11825
150 6	840	600 24	18800