

ISO/TR 15377:2007-02 (E)

Measurement of fluid flow by means of pressure-differential devices - Guidelines for the specification of orifice plates, nozzles and V enturi tubes beyond the scope of ISO 5167

Contents		Page
Foreword		iv
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Symbols	1
5	Square-edged orifice plates and nozzles: With drain holes, in pipes below 50 mm diameter, and as inlet and outlet devices	3
5.1	Drain holes through the upstream face of the square-edged orifice plate or nozzle	3
5.2	Square-edged orifice plates installed in pipes of diameter 25 mm $\leq D < 50$ mm	4
5.3	No upstream or downstream pipeline	5
6	Orifice plates (except square-edged)	8
6.1	Conical entrance orifice plates	8
6.2	Quarter-circle orifice plates	12
6.3	Eccentric orifice plates	18
7	Venturi tubes with machined convergent of angle 10,5°	23
7.1	General	23
7.2	Description	23
7.3	Limits of use	23
7.4	Discharge coefficient	24
7.5	Expansibility [expansion] factor	24
7.6	Pressure loss	24
7.7	Installation requirements	24
Bibliography		26