

ISO 5167-3:2003-03 (E)

Measurement of fluid flow by means of pressure differential devices inserted in circular cross-section conduits running full - Part 3: Nozzles and Venturi nozzles

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	2
3	Terms and definitions	2
4	Principles of the method of measurement and computation	2
5	Nozzles and Venturi nozzles	3
5.1	ISA 1932 nozzle	3
5.2	Long radius nozzles	9
5.3	Venturi nozzles	13
6	Installation requirements	18
6.1	General	18
6.2	Minimum upstream and downstream straight lengths for installation between various fittings and the primary device	18
6.3	Flow conditioners	23
6.4	Circularity and cylindricity of the pipe	23
6.5	Location of primary device and carrier rings	24
6.6	Method of fixing and gaskets	25
Annex A (informative) Tables of discharge coefficients and expansibility [expansion] factors		26
Bibliography		30