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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 26801-2011

**Fluid flow in closed conduits -- Connections for pressure signal
transmissions between primary and secondary elements**

封闭管道中流体流量的测量 一次装置和二次装置之间压力信号传送的连接法
(English Translation)

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

This standard uses the translation method identical with ISO 2186:2007 "Measurement of fluid flow in closed conduits primary device and the secondary device Pressure between the transmitted signal connection method. " this standard made the following editorial changes.

a) a reference to the original standard 5.1 and 5.2, the slope of the "8%" into a unified representation of the original reference standard Figure D.3, namely "1.12.5";

b) by deleting references to the original standard table A.1 title in parentheses, brackets put the contents of a table showing the top right of the unit taken, and deleted

Table A.1 "pressure signal is transmitted from the" bottom "mm" error representation;

c) a reference to the original standard table C.1, the values listed in the table by the lack of specific volume density values shown in the table, this is due to the specific volume given Value due to insufficient number of significant digits. Contrast this standard capacitance values did Correction. In 0.001001969m³/kg instead of 0.001002m³/kg; in 0.001004466m³/kg instead of 0.001004m³/kg.

The standard proposed by China Machinery Industry Federation.

This standard by the national industrial process measurement and control Standardization Technical Committee (SAC/TC124) centralized.

This standard was drafted. Shanghai Industrial Automation Instrument Research Institute, Shanghai Automation Instrumentation System Inspection and Testing Institute, Yuyao silver circulation Instrument Co., Ltd., Naval Aviation devices metering station.

1 Scope

This standard specifies the means between the primary and the secondary device pressure signal transmission system design, layout and installation. By pressure signal transmission Delivery system, using known techniques of fluid flow measuring a pressure signal from the device safely transferred to a secondary device, and the signal will not Distorted or changed.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 2624.1-2006 with the differential pressure measuring device mounted to round pipe

full pipe fluid flow - Part 1. General Principles and requirements (ISO 5167-1:2003, IDT) GB/T 2624.2-2006 with the differential pressure measuring device mounted to round pipe
full pipe fluid flow - Part 2. Orifice (ISO 5167-2:2003, IDT) GB/T 2624.3-2006 with the differential pressure measuring device mounted to round pipe
full pipe fluid flow - Part 3. Nozzle Venturi nozzles (ISO 5167-3:2003, IDT) GB/T 2624.4-2006 with the differential pressure measuring device mounted to round pipe
full pipe fluid flow - Part 4. Venturi Tubes (ISO 5167-4:2003, IDT) GB/T 17611 in closed conduits measuring fluid flow terms and symbols (GB/T 17611-1998, ISO 4006:1991, IDT)

3 Terms and Definitions

GB/T 17611 and GB/T 2624.1 and define the following terms and definitions apply to this document.

Secondary means secondary device Receiving a pressure signal from the device, and can display the differential pressure signal into a different form, such as a digital signal or an analog signal Number, and then transferred to the differential pressure device according to another place.

4.1 Safety seal

Differential pressure signal to be transmitted through a pipe or hose securely to the secondary device. This requires a secure seal between the primary and the secondary device means Fluid. Safety sealing fluid required to meet the applicable standards and regulations, the need to use a suitable structural materials, production methods, washers and password