

ICS 17.120
CCS A 52

JJF

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

JJF 1510-2015

**Program Pattern Evaluation of Target Flowmeter
(English Translation)**

Issued on: January 30, 2015

Implemented on: April 30, 2015

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine**

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Introduction

This type of evaluation based on the outline JJF 1016 "Measuring Instruments type evaluation outline guidelines for the preparation", JJF 1015 "count the amount of equipment type and universal norms "and JJF 1001" common measurement terms and definitions of "compilation.

The outline of the type evaluation technical indicators reference JJG461-2010 "target flowmeter" and other technical regulations.

This type of evaluation outline for the first release.

The target type flowmeter type evaluation outline

1 Scope

This type of evaluation outline for categorical code 12182500 target type flowmeter (hereinafter referred to as meter) of Type evaluation.

2. References

This outline cited the following documents.

JJG461-2010 target type flowmeter GB/T 17626.2 Electromagnetic compatibility Testing and measurement techniques - Electrostatic discharge immunity test GB/T 17626.3 electromagnetic compatibility test and measurement technology RFEMS test GB/T 17626.8 Electromagnetic compatibility Testing and measurement techniques - Power frequency magnetic field immunity test for dated references, only the dated edition applies to this specification. For undated reference documents Member, the latest edition (including any amendments) applies to this specification.

3 Terms and Definitions 3.1 measuring tube metertube and some special processing techniques to meet specific requirements for the pipe section, wherein the mounting element or may be means for measuring the flow rate.

3.2 Target

Measuring tube mounted within the flow detection element.

3.3 Target Flowmeter A target plate placed in the measuring tube, through the measuring tube to force the target plate is determined by detecting the fluid flow fluid Volume flow meter.

4 Overview

Works 4.1

Setting a direction perpendicular to the stream of Target, Target surrounding fluid along a constant cross-section through a straight pipe segments, Target action by thrust, is proportional to the size of the area of the kinetic energy of the fluid and Target. In certain Reynolds number the range, proportional to the force flow through the flow meter and Target suffered. Target the force detected by the force sensor.

A circular target plate, for example, mass flow calculations see formula (1).

$q_m = 1.253 \alpha \gamma D^2 - d^2 d \rho F$ (1) Volume flow calculation see formula (2).

$q_V = q_m / \rho = 1.253 \alpha \gamma D^2 - d^2$ (2)