

ICS 71.120.99;17.140.50
CCS G 98



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

GB/T 48116-2026

**Specialized instruments and meters for chemical industry -
Acoustic measuring instrument for the tightness of flange bolt
assembly**

化工专用仪器仪表 法兰螺栓副紧固度声学测量仪

(English Translation)

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Foreword

GB/T 48116-2026 is a recommended national standard (GB/T) of the People's Republic of China, issued on 28 August 2026 by the State Administration for Market Regulation and the Standardization Administration of China, with effect from 1 March 2027.

It is under the responsibility of the China Petroleum and Chemical Industry Federation.

Classification: ICS 71.120.99;17.140.50; CCS G 98.

1 Scope

This standard belongs to the family of specialized instruments and meters for the chemical industry and deals with an acoustic measuring instrument for the tightness of flange bolt assemblies. Bolted flange joints are common in pipework and pressure equipment, and the tightness of the bolts bears on joint integrity and leakage. An acoustic instrument offers a way of assessing that tightness without dismantling the joint.

The document is aimed at manufacturers of such measuring instruments, plants in the chemical and petrochemical sectors that inspect and maintain flanged piping, inspection and testing bodies, and engineers who specify or calibrate this kind of equipment. It is a recommended (voluntary) national standard taking effect on 1 March 2027, and the China Petroleum and Chemical Industry Federation is the responsible body.