



**GAS APPLIANCES**  
**TECHNICAL GUIDANCE BULLETIN**

**Bulletin Number:** 17  
**Bulletin Date:** 18 May 2021  
**Product Type:** LPG Regulators  
**Relevant Standard(s):** AS 4621:2019 *Regulators for use with liquefied petroleum – vapour phase*  
**Relevant Clause(s)** Clause 2.1  
**Subject:** Requirements for LPG regulators with zinc alloy materials

**Guidance to be provided:**

**Requirements of AS4621:2019 are to be modified as follows:**

**Clause 2.1.4 Melting point of metallic materials**

The regulator and valve body castings and vent limiters shall be made of metallic materials with a melting point not less than 430 °C. **Except zinc alloy parts conforming to Clause 2.1.5.**

Conformance shall be assessed by testing in accordance with the method in Clause B.4.

**Clause 2.1.5 Zinc alloys**

Components made of Zinc alloys shall be in accordance with AS1881, **ISO 15201** or equivalent.

**Clause 2.1.6 Copper containing alloys**

Components made of copper containing alloys shall be resistant to stress corrosion cracking when tested in accordance with ISO 6957 or AS 2136.

**Zinc alloys conforming to Clause 2.1.5 are exempt from this clause.**

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**Reason:** AS4621-2019 revision included the removal of previous exemptions that permitted the use of zinc based alloys that comply with AS1881. A review has identified that the removal was not necessary and the removal means the standard is inconsistent with equivalent international standard. The AG-013 committee has confirmed that the use of zinc based alloys complying with AS1881 or ISO 15201 is acceptable.

**Action:** Conformity assessment bodies are to note the above additional modifications when assessing LPG regulators for certification.

**Transition:** For all new applications for certification made after the date of this bulletin, this bulletin must be adhered to immediately.

**Result:** Certification of regulators that rely on the exemption can continue.

**Proposed Revision to Standard:** AS4621:2019 is currently under revision to address the above issue in the next update, at which time the requirements of the standard will apply and will supersede this bulletin.

This bulletin provides technical guidance from the Gas Technical Regulators to Conformity Assessment Bodies that are JASANZ accredited for the certification of gas appliances required to comply with AS3645. This technical guidance is provided where the technical requirements or test methodologies from current technical standards are inadequate or can be misinterpreted. This bulletin is valid until such time as the relevant technical standard is revised or amended accordingly.