

DIN EN 14071:2025-02 (E)

LPG equipment and accessories - Pressure relief valves for LPG pressure vessels - Ancillary equipment

| Contents | | Page |
|-------------------------|---|-------------|
| European foreword | | 4 |
| Introduction | | 5 |
| 1 | Scope | 6 |
| 2 | Normative references | 6 |
| 3 | Terms and definitions | 7 |
| 4 | Operating conditions | 9 |
| 5 | Materials | 9 |
| 5.1 | General | 9 |
| 5.2 | Metallic materials | 10 |
| 5.3 | Non-metallic components | 10 |
| 5.4 | Lubricants, sealants, and adhesives | 11 |
| 5.5 | Inspection Documents | 11 |
| 6 | Design | 11 |
| 6.1 | Introduction | 11 |
| 6.2 | PRV isolating devices | 11 |
| 6.2.1 | General | 11 |
| 6.2.2 | Actuation | 11 |
| 6.2.3 | Indication of closure | 11 |
| 6.2.4 | Guiding arrangements | 12 |
| 6.2.5 | Isolating mechanism security | 12 |
| 6.2.6 | Interchangeability | 12 |
| 6.3 | PRV manifold | 12 |
| 6.3.1 | General | 12 |
| 6.3.2 | Indication of port closure | 16 |
| 6.3.3 | Port closure | 16 |
| 6.4 | Vent pipe | 16 |
| 6.4.1 | Design | 16 |
| 6.4.2 | Materials | 16 |
| 6.4.3 | Effect from external conditions | 16 |
| 6.5 | Connections | 16 |
| 6.6 | Threads | 17 |
| 6.7 | Minimum requirements for springs | 17 |
| 7 | Testing of the design | 17 |
| 7.1 | General | 17 |
| 7.2 | Test requirements | 17 |
| 7.3 | Hydraulic proof test | 18 |
| 7.4 | Relief valve isolator test | 18 |
| 7.5 | Testing of audible signal of isolating devices and residual flow of isolating devices and PRV manifolds | 19 |
| 7.6 | Resistance of the isolating mechanism | 19 |
| 7.7 | Over-torque deformation test | 19 |
| 7.8 | Operation test | 19 |
| 7.8.1 | General | 19 |

| | | |
|--|---|----|
| 7.8.2 | System test | 19 |
| 7.9 | Stress cracking test | 20 |
| 7.9.1 | General | 20 |
| 7.9.2 | Moist ammonia air stress cracking test | 20 |
| 7.9.3 | Mercurous nitrate immersion test | 20 |
| 8 | Production testing of isolating devices and PRV manifolds | 20 |
| 9 | Marking and labelling | 21 |
| 9.1 | PRV isolating device | 21 |
| 9.2 | PRV manifolds | 21 |
| 10 | User instructions | 21 |
| 10.1 | PRV isolating devices | 21 |
| 10.2 | PRV manifolds | 22 |
| Annex A (normative) Dimensions of master test pieces for PRV and isolating devices | | 23 |
| Annex ZA (informative) Relationship between this European Standard and the essential requirements of Directive 2014/68/EU (Pressure Equipment Directive) aimed to be covered | | 25 |
| Bibliography | | 27 |