

DIN EN 13953:2015-05 (E)

LPG equipment and accessories - Pressure relief valves for transportable refillable cylinders for Liquefied Petroleum Gas (LPG)

Contents		Page
Foreword		3
Introduction		4
1	Scope	5
2	Normative references	5
3	Terms and definitions	5
4	Operating Conditions	7
5	Materials	7
5.1	General	7
5.2	Metallic materials	8
5.3	Non-metallic components	8
5.4	Lubricants, sealants and adhesives	8
6	Design	8
6.1	General	8
6.2	Threads	9
6.3	Springs	9
7	Type Testing and inspection of the design	9
7.1	General	9
7.2	Test requirements	10
7.3	Dimensional checks	11
7.4	Hydraulic pressure proof test	11
7.5	Leak tightness test before ageing	12
7.6	Start to discharge pressure test	12
7.7	Discharge capacity test	12
7.8	Leak tightness tests	13
7.9	Endurance test	13
7.10	Visual Inspection	13
8	Test records	13
9	Production testing	13
10	Marking	14
11	Documentation	14
Annex A (informative) Terms used with pressure relief valves		15
Annex B (normative) Special low temperature requirements for valves		16
Annex C (normative) Sizing of PRVs for LPG cylinders		17
Annex D (informative) Production testing		18

D.1	General	18
D.2	Setting and leak testing of PRVs	18
D.3	Batch samples	18
D.4	Rejection criteria	18
D.5	Documentation	18
Bibliography		19