

DIN EN 12252:2012-12 (E)

LPG equipment and accessories - Equipping of LPG road tankers

Contents		Page
Foreword		4
Introduction		5
1	Scope	6
2	Normative references	6
3	Terms and definitions	7
4	Requirements	9
4.1	General	9
4.2	Equipment	10
4.3	Valve access	10
5	Pressure vessel	10
5.1	Design and manufacture	10
5.2	Mounting of pressure vessel on road tanker	11
5.2.1	General	11
5.2.2	Mounting	11
6	Pressure vessel accessories	11
6.1	Required pressure vessel accessories	11
6.1.1	Contents gauge	11
6.1.2	Pressure gauge	11
6.1.3	Primary shut-off system	12
6.2	Optional pressure vessel accessories	13
7	Vehicle LPG equipment	13
7.1	Mandatory LPG equipment	13
7.1.1	General	13
7.1.2	Pipework	13
7.1.3	Connecting hoses	13
7.1.4	Accessories	13
7.1.5	Earth connection	14
7.2	Optional LPG equipment	14
8	Equipment specifications	14
8.1	Suitable materials	14
8.1.1	General	14
8.1.2	Steel pressure retaining parts	15
8.1.3	Non-pressure retaining parts	15
8.1.4	Welding consumables	15
8.1.5	Non-metallic materials	15
8.1.6	Pipework	15
8.1.7	Certification of materials	15
8.1.8	Control of materials	15
8.2	Contents gauge	16
8.3	Pressure gauge	16
8.4	Temperature gauge	16
8.5	Pump	16
8.6	Hoses	17

8.7	Hose reel	17
8.8	Earth reel	17
8.9	Metering system	17
8.10	Valves	17
8.11	Pressure relief valves (PRV)	18
9	Assembly	18
9.1	General	18
9.2	Welding	18
9.2.1	Welding of the pressure containing parts	18
9.2.2	Welding of the non pressure containing parts	19
9.3	Flanged connections	19
9.4	Screwed connections	19
9.5	External corrosion protection	19
10	Inspection and testing	19
10.1	General	19
10.2	Hydraulic pressure test	19
10.3	Leak test	20
11	Safety systems	20
11.1	General	20
11.2	Emergency Shut-Down system (ESD)	20
12	General safety requirements	21
Annex A (normative) Discharge rates for pressure relief valves -- Discharge capacity		22
Annex B (informative) Calculation of mountings of pressure vessel to the chassis		24
Annex C (informative) Environmental Checklist		31
Bibliography		32