

Laboratory	LPG Equipment Research Centre, Dooravaninagar, Bangalore, Karnataka		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Testing	Issue Date	24.05.2014
Certificate Number	T-2189	Valid Until	23.05.2016
Last Amended on	-	Page	1 of 3

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I. PERFORMANCE TEST				
1.	LPG Cylinder (IS 3196 (Part-1): 2003)	Tensile Strength	IS 1608: 2005, (RA 2010)	0.1 to 100 kN/mm ²
		Yield Stress / Proof stress (0.2%)	IS 1608: 2005, (RA 2010)	0.1 to 100 kN/mm ²
		% Elongation	IS 1608: 2005, (RA 2010)	1% to 90 %
		Weld Tensile Strength	IS 3196 (Part 3): 2012	0.1 to 100 kN/mm ²
		Root & Face Bend tests	IS 3196 (Part 3): 2012	6 mm & 9 mm
		Hydrostatic Tests	IS 3196 (Part 3): 2012	0.01 kg/cm ² to 200 kg/cm ²
		Pneumatic leak Tests	IS 3196 (Part 3): 2012	0.5 kg/cm ² to 25 kg/cm ²
		Burst Tests	IS 3196 (Part 3): 2012	0.01 kg/cm ² to 200 kg/cm ²
		Water capacity	IS 3196 (Part 1): 2013	0.01 kg to 300 kg
		Volumetric Expansion	IS 3196 (Part 1): 2013	1% to 90%
		Minimum Thickness	IS 3196 (Part 3): 2012	0.01 mm to 25 mm
		Verticality	IS 3196 (Part 1): 2013	Qualitative
	Foot ring sheet thickness	IS 3196 (Part 1): 2013	0.01 mm to 50 mm	

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	LPG Cylinder (IS 3196 (Part-1): 2003)	Paint Thickness (By coating thickness gauge using FN Probe)	IS 3196 (Part 1): 2013	1 μ to 200 μ
		Ground Clearance	IS 3196 (Part 1): 2013	0.01 mm to 300 mm
2.	Pressure Regulators (IS 9798: 2013)	Soundness Tests	IS 9798:2013	Qualitative
		Performance Tests	IS 9798:2013	Qualitative
		Paint Adhesion	IS 9798:2013	Qualitative
3.	Valve (IS 8737: 1995)	Valve Inlet Thread	IS 8737:1995, (RA 2010)	
		LI		0.01 mm to 50 mm
		L8		0.01 mm to 50 mm
		Truncation		0.01 mm to 50 mm
		Valve Dimension Acceptance Test	IS 8737:1995, (RA 2010)	Qualitative
		Pneumatic Tests	IS 8737:1995, (RA 2010)	Qualitative
4.	Domestic LPG Stoves	Thermal efficiency for LPG stoves- Small burner	IS 4246: 2002, (RA 2013) LERC defined Procedure C-101 (Issue dt.21.02.2014)	60% to 90% 60% to 97%

