BUREAU OF INDIAN STANDARDS

Program of Work

MED 16: Gas Cylinders

Scope: Formulation of standards on gas cylinders for permanent, high pressure liquefiable low

pressure liquefiable and dissolved gases; fittings of gas cylinder, namely valve fittings, pressure

regulators; pipelines conveying gases; identification colours of gas cylinders; acetylene

generators; filling ratios and developed pressures for different gases.

Liaison: TC-185 (O): Safety devices for protection against excessive pressure TC-220 (O): Cryogenic

vessels TC-4 (P): Rolling bearings TC-58 (P): Gas cylinders TC-58 SC-2 (P): Cylinder

fittings TC-58 SC-3 (P): Cylinder design TC-58 SC-4 (P): Operational requirements for gas

cylinders ISO TC-58 (P): Vocabulary

Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 11006 : 2011	Flash back arrestor (Flame	November, 2021	1	Indigenous
	Reviewed In: 2021	Arrestor) - Specification (First			
		Revision)			
2	IS/ISO 11114-1:	Gas Cylinders — Compatibility of		-	Identical under single
	2020	Cylinder and Valve Materials with			numbering
	ISO 11114-1:2020	Gas Contents Part 1 Metallic			
	ISO 11114-1:2020	Materials (First Revision)			
3	IS/ISO 11114-2:	Transportable Gas Cylinders -	March, 2019	-	Identical under single
	2013	Compatibility of Cylinder and			numbering
		Valve Materials with Gas Contents			
	Reviewed In: 2019	Part 2 Non-Metallic Materials			
	ISO 11114 : PART 2				
	: 2013				
4	IS/ISO 11114-3:	Gas cylinders - Compatibility of	November, 2021	-	Identical under single
	2010	cylinder and valve materials with			numbering
	ISO 11114-3 : 2010	S			
	Reviewed In: 2021	ignition test for non - Mettalic			
	ISO 11114 : Part 3 :	materials in oxygen atmosphere			
	2010				
5	IS/ISO 11114-4:	Transportable Gas Cylinders —	-	-	Identical under single
	2017	Compatibility of Cylinder and			numbering
	IS/ISO 11114-4:	Valve Materials with Gas Contents			
	2017	Part 4 Test Methods for Selecting			
	Reviewed In: 2017	Steels Resistant to Hydrogen			
	ISO 11114 Part 4 : 2	` ′			
6	IS/ISO 11119-1:	GAS CYLINDERS - DESIGN		-	Identical under single
	2020	CONSTRUCTION AND			numbering
	ISO 11119-1 : 2020	TESTING OF REFILLABLE			
	ISO 11119-1 : 2020	COMPOSITE GAS CYLINDERS			
		AND TUBES PART 1 HOOP			
		WRAPPED FIBRE			
		REINFORCED COMPOSITE			

ı	1	GAS CYLINDERS AND TUBES		I	1
		UP TO 450 LITRES			
7	IS/ISO 11119-2 :	Gas Cylinders � Design,		 -	Identical under single
′	2020	Construction and Testing of			numbering
	ISO 11119-2 : 2020	Refillable Composite Gas			nambering
	ISO 11119-2 : 2020	-			
	150 1111) 2.2020	Wrapped Fibre Reinforced			
		Composite Gas Cylinders and			
		Tubes up to 450 Litres with Load-			
		Sharing Metal Liners			
8	IS/ISO 11119-3:	Gas Cylinders � Design,		_	Identical under single
	2020	Construction and Testing of			numbering
	ISO 11119-3 : 2020	Refillable Composite Gas			in i
	ISO 11119-3 : 2020	Cylinders and Tubes Part 3 Fully			
	150 11117 0 . 2020	Wrapped Fibre Reinforced			
		Composite Gas Cylinders and			
		Tubes up to 450 Litres with Non-			
		load-sharing Metallic or Non-			
		metallic Liners or without Liners			
9	IS/ISO 11515 : 2022	GAS CYLINDERS REFILLABLE		-	Identical under single
	ISO 11515 : 2022	COMPOSITE REINFORCED			numbering
	ISO 11515 : 2022	TUBES OF WATER CAPACITY			
		BETWEEN 450 L AND 3 000 L			
		DESIGN CONSTRUCTION AND			
		TESTING			
10	IS 12300 : 1988	Valve fittings for refrigerant	October, 2022	5	Not Equivalent
	Reviewed In: 2022	cylinders - Specification			
	ANSI B-57.1-1977				
11	IS 12586 : 2021	Brazed low carbon steel gas		-	Indigenous
		cylinders not exceeding 13 litre			
		water capacity Specification			
12	IS 12936 : 2017	Basic requirements for delivery	July, 2022	-	Indigenous
		persons engaged in the delivery of			
	Reviewed In: 2022	LPG cylinders - Code of practice			
		(First Revision)			
13	IS 13258 : 2014	Welded low carbon steel cylinders	March, 2024	1	Indigenous
	Reviewed In: 2024	exceeding 5 litre water capacity for			
		low pressure liquefiable gas -			
		Requirements for inspection and			
		reconditioning of used lpg			
L		cylinders (First Revision)			
14	IS 13497 : 2017	Fusible plug for dissolved	July, 2022	-	Indigenous
	D. 1. 11 2022	acetylene gas cylinder -			
1.5	Reviewed In: 2022	Specification (First Revision)	November 2021		Identical under single
15	IS/ISO 13985 : 2006	Liquid hydrogen - Land vehicle	November, 2021	-	Identical under single
	Reviewed In: 2021	fuel tanks			numbering
16	ISO 13985 : 2006 IS 14899 : 2014	Liquefied petroleum gas (LPG)	March, 2019	1	Not Equivalent
10	Reviewed In : 2019	containers for automotive use -	iviaicii, 2019]	riot Equivalent
	ISO 20826 : 2006	Specification (First Revision)			
17	IS 15100 : 2018	Multi - Function valve assembly	March, 2023	_	Not Equivalent
''	15 15 100 . 2010	for permanently fixed liquefied	1.141011, 2023		Tiot Equivalent
1	Reviewed In: 2023	petroleum gas (LPG) containers for			
	UN Regulation No.	automotive use - Specification			
	67, AS/NZS 1425,	(First Revision)			
	IEC 68-2-52, ISO	(121 222 1220)			
	1817				
18	IS 15190 (Part 1):	Acetylene pipelines - Code of	October, 2022	-	Not Equivalent
	2002	practice: Part 1 for pressures up to			
I	I	·		1	1

1	In. :	1551P: (C)		ı	1
	Reviewed In: 2022 IGC Document No.	155 kPa (G)			
	9/78/E), CGA. 1.3				
19	IS 15190 (Part 2):	Acetylene pipelines - Code of	October, 2022	_	Not Equivalent
17	2002	practice: Part 2 for pressures from	000001, 2022		Tvot Equivalent
	Reviewed In: 2022	155 kPa (G) to 2550 kPa (G)			
	IGC Document No.				
	9/78/E), CGA. 1.4				
20	IS 15490 : 2017	Seamless steel cylinders for on -	March, 2022	1	Not Equivalent
	Board storage of compressed				1
	Reviewed In: 2022	natural gas as a fuel for automotive			
	ISO 11439 : 2013,	vehicles - Specification (First			
	ISO 9809-1 : 2010	Revision)			
21	IS 15637 : 2006	Welded stainless steel cylinders for	March, 2020	1	Not Equivalent
	Reviewed In: 2020	liquefied petroleum gases (LPG)			
	AS 2469, AS 2470,	from 0.5 litre to 250 litre water			
	EN 14140	capacity - Specification			
22	IS 15660 : 2017	Refillable transportable seamless	March, 2022	2	Not Equivalent
	D	aluminium alloy gas cylinders -			
	Reviewed In: 2022	Specification (First Revision)			
	ISO 7866 : 2012	Instruction of Control of Control	I 2024	1	T 11
23	IS 15894 : 2018	Inspection gauges for checking	January, 2024	1	Indigenous
	Reviewed In: 2024	taper threads of gas cylinder valves			
	Reviewed in : 2024	and cylinder necks - Taper 1 in 16 on diameter - Specification (First			
		Revision)			
24	15935 : 2021	Composite Cylinders for On-Board			Indigenous
24	13933 . 2021	Storage of Compressed Natural		_	margenous
		Gas (CNG) as a Fuel for			
		Automotive Vehicle - Specification			
		(First Revision)			
25	IS 15966 : 2013	Refillable welded steel cylinder for	October, 2022	-	Not Equivalent
	Reviewed In: 2022	liquefied petroleum gas (LPG) -	,		1
	ISO 10691 : 2004	Procedure for checking before,			
		during and after filling			
26	IS 15975 : 2020	Gas Cylinders — Conditions for	=	-	Indigenous
		Filling Gas Cylinders (First			
		Revision)			
27	IS 16017 : 2013	Transportable gas cylinders -	March, 2019	-	Not Equivalent
	Reviewed In: 2019	Periodic inspection and testing of			
	EN 1802 : 2002	seamless aluminium alloy gas			
20	TO 16050 2020	cylinders		-	T "
28	IS 16050 : 2020	Gas Cylinders — Seamless,		-	Indigenous
	ISO 24431 : 2016	Welded and Composite Cylinders			
		for Compressed and Liquefied			
		Gases (Excluding Acetylene) — Inspection at Time of Filling (First			
		Revision)			
29	IS 16054 : 2013	Periodic inspection and testing -	January, 2024	 _	Not Equivalent
	Reviewed In : 2024	Welded low carbon steel cylinders	January, 2024	_	Two Equivalent
	ISO 10464:2004	exceeding 5 - Litre water capacity			
	100 1010112001	for liquified petroleum gas (Lpg) -			
		Code of practice			
30	IS 16175 : 2014	Periodic inspection and	January, 2024	-	Indigenous
	Reviewed In: 2024	requalification - Liquefied	3 / ·		
		petroleum gas (LPG) cylinders for			
		automotive use - Code of practice			
31	IS 16185 : 2014	Periodic inspection and testing -	January, 2024	-	Not Equivalent
	Reviewed In: 2024	Welded carbon steel gas cylinders -			
I	I	ı L		I	I

	ISO 10460 : 2005	Code of practice		1	
32	IS 16271 : 2014	Dissolved acetylene gas cylinders -	January, 2024	-	Not Equivalent
		Inspection at time of filling - Code			
	ISO 11372 : 2011	of practice			
33	IS 16280 : 2021	High Pressure Regulators and		- Indi	
		Adaptors for Use with Liquefied			
		Petroleum Gases (LPG) —			
2.4	TG 1 (200 2014	Specification (First Revision)	7 2024	1	T 1'
34	IS 16299 : 2014	Periodic inspection and	January, 2024	-	Indigenous
	Reviewed In: 2024	requalification - High pressure			
		steel cylinders for the on - Board			
		storage of compressed natural gas			
		as a fuel for automotive vehicles,			
		cylinders for hcng blends and cng cascade cylinders - Code of			
		practice			
35	IS 16484 : 2017	Liquid off - Take valve fitting to	March, 2022	1	Not Equivalent
33	13 10404 . 2017	gas cylinders or tanks (Mobile Or	March, 2022	1	Not Equivalent
	Reviewed In: 2022	Static) for liquid petroleum gas			
	ISO 15995:2006, EN				
	13175:2003,	(21 c) Specification			
	ANSI/CGA V-1				
36	IS 16485 : 2020	Flame Arresters — Performance		-	Indigenous
	ISO 16852 : 2016	Requirements, Test Methods and			
		Limits for Use (First Revision)			
37	IS 16507 : 2017	Transportable gas cylinders	March, 2022	-	Indigenous
		cascade - Specification			
	Reviewed In: 2022				
38	IS 16646 : 2017	Transportable refillable fully	March, 2022	-	Not Equivalent
	Reviewed In: 2022	wrapped composite cylinders for			
	ISO 11119-3 : 2013	liquefied petroleum gas (LPG) -			
		Specification			
39	IS 16735 : 2018	Cylinders for on - Board Storage of		-	Not Equivalent
	IGO /FG 1 70 (0 2000	Compressed Gasesous Hydrogen			
	180/18 15869:2009	and Hydrogen Blends as a Fuel for			
		Automative Vehicles -			
40	IS 16742 : 2018	Specification Liquefied natural gas (LNG) -	December, 2023	1	Identical under dual
4∪	ISO 12991 : 2012	Tanks for on - Board storage as a	December, 2025	_	numbering
	Reviewed In : 2023	fuel for automotive vehicles			numbering
	ISO 12991:2012	ruer for automotive venicles			
41	IS 16988 : 2018	Compressed natural gas cylinder	March, 2024	1	Indigenous
' -	10 10 00 1 2010	valve integrated with solenoid	1.131011, 2021		Indigenous
	Reviewed In: 2024	operation (Remotely Controlled)			
		for automotive use - Specification			
42	IS 17613 : 2021	GAS CYLINDERS REFILLABLE		-	Not Equivalent
	ISO 20703:2006	WELDED ALUMINIUM ALLOY			
		CYLINDERS DESIGN			
		CONSTRUCTION AND			
		TESTING			
43	IS 18272 : 2023	Residual pressure valves and type		-	Indigenous
		testing of cylinder valves			
		incorporating residual pressure			
	TG 10710 (P	devices "¿½ Specification		1	T1 // 1 / 1 / 1
44	IS 18719 (Part 1):	Cryogenic Vessels �		-	Identical under dual
	2024	Transportable Vacuum Insulated			numbering
	IS 18719 (Part 1):	Vessels of not More than 1 000			
	2024/ ISO 21029-1: 2018	Litres Volume Part 1 Design,			
	2010	Fabrication, Inspection and Tests			

1	L 10710 (D . 1)	1		1	I
	IS 18719 (Part 1):				
	2024/ ISO 21029-1:				
1.5	2018	G : W 1 "1/			N. E. I.
45	IS 18719 (Part 2):	Cryogenic Vessels �		-	Not Equivalent
	2024	Transportable Vacuum Insulated			
	ISO 21029-2 : 2015	Vessels of not more than 1 000			
		Litres Part 2 Operational			
1.5	70.010 (/D 1)	Requirements	1. 1. 2024	ļ	N 7
46	IS 3196 (Part 1):	Welded low carbon steel cylinders	March, 2024	4	Not Equivalent
	2013	exceeding 5 litres water capacity			
	Reviewed In: 2024	for low pressure liquefiable gases:			
	ISO 22991 : 2004	Part 1 cylinders for liquefied			
		petroleum gases (Lpg) -			
L		Specification (Sixth Revision)			
47	IS 3196 (Part 2):	Welded low carbon steel cylinders	March, 2020	3	Not Equivalent
	2006	exceeding 5 litre water capacity for			
		low pressure liquefiable gases: Part			
	ISO/CD 4706-1	2 cylinders for liquefiable non -			
		Toxic gases other than lpg -			
<u></u>		Specification (First Revision)			
48	IS 3196 (Part 3):	Welded low carbon steel cylinder	October, 2022	2	Not Equivalent
	2012	exceeding 5 litre water capacity for			
		low pressure liquefiable gases: Part			
10	ISO 22991:2004	3 methods of test (First Revision)			7 11
49	IS 3196 (Part 4):	Welded low carbon steel cylinders	November, 2021	2	Indigenous
		exceeding 5 litre water capacity for			
	Reviewed In: 2021	low pressure liquefiable gases -			
		Specification: Part 4 cylinders for			
50	IC 2224 - 2002	toxic and corrosive gases	N	2	Not Englished
50	IS 3224 : 2002	Valve fittings for compressed gas	November, 2017	3	Not Equivalent
	Reviewed In: 2017	cylinders excluding liquefied			
	10297:2014	petroleum gas (LPG) cylinders -			
51	IS 3224 : 2021	Specification (Third Revision) Valve for compressed gas cylinders			Not Favioralant
] 31	10297:2014	excluding liquefied petroleum gas		-	Not Equivalent
	10297.2014	(LPG) cylinders - Specification			
		(fourth revision)			
52	IS 3710 : 1978	Filling ratios for low pressure	March, 2020	1	Not Equivalent
] 32	Reviewed In : 2020	liquefiable gases contained in	March, 2020	1	Not Equivalent
	BS 1736 AND BS	cylinders (First Revision)			
	5355	cylinders (Prist Revision)			
53	IS 3745 : 2006	Yoke type valve connections for	October, 2021	_	Indigenous
	Reviewed In: 2021	small medical gas cylinders -	000001, 2021		margenous
	110 110 110 111 1 2021	Specification (Second Revision)			
54	IS 3933 : 2021	Colour Identification of Gas		-	Not Equivalent
	32:1977	Cylinders and Related Equipment			Trot Equitations
	0211777	Intended for Medical Use (First			
		Revision)			
55	IS 4152 : 2011	Seamless carbon dioxide cylinders	November, 2021	-	Not Equivalent
	Reviewed In: 2021	for fire fighting purposes on	,		1
	ISO 3500 : 2005	boardship - Specification (Third			
		Revision)			
56	IS 4379 : 2021	Identification of the Contents of		-	Indigenous
		Industrial Gas Cylinders (Second			
		Revision)			
57	IS 5844 : 2014	Hydrostatic stretch testing of	January, 2024	-	Indigenous
	Reviewed In: 2024	compressed gas cylinders -	, , -		
		Recommendations (First Revision)			
58	IS 5845 : 1993	Code of practice for inspection of	October, 2022	-	Not Equivalent
I		1 - I		I	I -

l	Reviewed In: 2022	low pressure welded steel gas		1	I
		cylinders other than LPG cylinders			
	CB 22 : 1969	in use (Second Revision)			
59	IS 5903 : 2014	Recommendation for safety	March, 2024	3	Not Equivalent
	Reviewed In: 2024	devices for gas cylinders (First	141dren, 2021		Tvot Equivalent
	EN 13953 : 2003,	Revision)			
	CGAS-1.1 : 2007,	Revision)			
	A.S. 2613 : 2005				
60			January, 2024		Indigenous
00	2018	installations - Code of practice:	January, 2024	_	margenous
	2016	Part 1 residential, commercial and			
	Reviewed In: 2024				
	Reviewed III: 2024	industrial cylinder installations			
61	IS 6044 : 2021	(Third Revision)			Indiagnous
61	15 0044 : 2021	LIQUEFIED PETROLEUM GAS		-	Indigenous
		STORAGE INSTALLATIONS			
		CODE OF PRACTICE PART 2			
		COMMERCIAL INDUSTRIAL			
		AND DOMESTIC BULK			
	70.71.12.100.7	STORAGE INSTALLATIONS			
62	IS 7142 : 1995	Welded low carbon steel cylinders	March, 2020	1	Indigenous
	Reviewed In: 2020	for low pressure liquifiable gases			
		not exceeding 5 litre water capacity			
		- Specification (First Revision)			
63	IS 7202 : 2017	Inspection gauges for checking	October, 2022	-	Indigenous
		type 4 (Size 1, 2, 3) taper threads			
	Reviewed In: 2022				
		necks - Specification (First			
		Revision)			
64	IS 7241 : 1981	Glossary of terms used in gas	October, 2022	-	Indigenous
	Reviewed In: 2022	cylinder technology (First			
		Revision)			
65	IS 7285 (Part 1):	Refillable seamless steel gas	October, 2022	2	Indigenous
	2018	cylinders - Specification: Part 1			
		normalized steel cylinders (Fourth			
	Reviewed In: 2022	Revision)			
66	IS 7285 (Part 2):	Refillable seamless steel gas	October, 2022	1	Not Equivalent
	2017	cylinders - Specification: Part 2			_
		quenched and tempered steel			
	Reviewed In: 2022	cylinders with tensile strength less			
	ISO 9809-1	than 1 100 mpa (112 Kgf/mm ²)			
		(Fourth Revision)			
67	IS 7302 : 2018	Valve fittings for self contained	October, 2022	1	Not Equivalent
		breathing apparatus (SCBA) and	,		1
	Reviewed In: 2022	self contained underwater			
	ISO 13341	breathing apparatus (SCUBA) -			
	155 155 11	Specification (First Revision)			
68	IS 7312 : 2018	Welded and seamless steel	March, 2024	1	Not Equivalent
	15 ,512 . 2010	dissolved acetylene gas cylinders -	1,141011, 2027		1 tot Equivalent
	Reviewed In: 2024	Specification (Third Revision)			
	ISO 3807 : 2013				
69	IS 8198 : 2004	Steel cylinders for compressed	March, 2024	_	Indigenous
	Reviewed In : 2024	gases (Atmospheric gases,	17141CII, 2027		marganous
		hydrogen, high pressure liquefiable			
		gases and dissolved acetylene			
70	IS 8198 (Part 5):	gases) - Code of practice CODE OF PRACTICE FOR		+	Indiagnous
′	2022			_	Indigenous
	2022	STEEL CYLINDERS FOR			
		COMPRESSED GASES PART 5:			
		LIQUEFIED PETROLEUM GAS			

		LPG			1
71	IS 8198 (Part 6):	Code of practice for steel cylinders	October, 2022	-	Indigenous
	1988	for compressed gases Part 6			
	Reviewed In: 2022	Liquefied chlorine gas			
72	IS 8198 (Part 7):	Steel Cylinders for Compressed		-	Indigenous
	2024	Gases � Code of Practice Part 7			
		Ammonia Gas (Second Revision)			
73	` ′	Code of practice for steel cylinders	September, 2022	-	Indigenous
	1993	for compressed gases: Part 8			
	Reviewed In: 2022	common organic refrigerant gases			
		(First Revision)			
74	IS 8198 (Part 8):	Steel Cylinders for Compressed		-	Indigenous
	2024	Gases � Code of Practice Part 8			
		Common Organic Refrigerant			
7.5	IG 0100 (D + 0)	Gases (Second Revision)			T 1'
75	IS 8198 (Part 9):	Steel Cylinders for Compressed		-	Indigenous
	2024	Gases i; ½ Code of Practice Part 9			
		Sulphur Dioxide Gas (Second			
76	IS \$108 (Dart 10) .	Revision) Code of practice for steel cylinders	October, 2022	_	Indigenous
′0	18 8198 (Part 10) : 1980	fori compressed gases: Part 10	OCIUUCI, 2022	_	murgenous
	Reviewed In: 2022	methyl bromide gas			
77	IS 8198 (Part 10):	Steel Cylinders for Compressed		_	Indigenous
''	` '	Gases i; ½ Code of Practice Part 10			indigenous
	2021	Methyl Bromide Gas (First			
		Revision)			
78	IS 8198 (Part 11):	Steel Cylinders for Compressed		-	Indigenous
'	2024	Gases â€" Code of Practice Part			
	-	11 Methyl Chloride Gas (Second			
		Revision)			
79	IS 8198 (Part 12):	Steel Cylinders for Compressed		-	Indigenous
	2024	Gases � Code of Practice Part 12			
		Gases for Medical Use (First			
		Revision)			
80	IS 8433 : 2017	Periodic inspection and	November, 2021	-	Not Equivalent
		maintenance of dissolved acetylene			
	Reviewed In: 2021	gas cylinders - Code of practice			
	CGA - C6	(Second Revision)			
81	IS 8451 : 2018	Periodic inspection and testing of	January, 2024	-	Not Equivalent
		seamless steel gas cylinders - Code			
	Reviewed In: 2024	of practice (Third Revision)			
0.2	ISO 6406 : 2005		NI 1 2024		T **
82	IS 8452 : 1977	Glossary of terms used in acetylene	November, 2021	-	Indigenous
02	Reviewed In : 2021	generators	March 2024	1	To dia
83	IS 8471 : 2003	Acetylene generators -	March, 2024	1	Indigenous
84	Reviewed In: 2024 IS 8737: 2017	Requirements (First Revision) Valve fittings for use with	October, 2022	1	Not Equivalent
04	1S 8/3/: 201/ NONE	liquefied petroleum gas (LPG)	October, 2022	1	riot Equivalent
	Reviewed In: 2022	cylinders for more than 5 litre			
	ISO 14245 : 2006	water capacity - Specification			
	150 14245 . 2000	(Second Revision)			
85	IS 8775 : 1978	Filling pressure and corresponding	October, 2022	_	Not Equivalent
	Reviewed In : 2022	developed pressure for permanent	000001, 2022		1100 Equivalent
	BS 5355 : 1976	gases contained in cylinders			
86	IS 8776 : 1988	Specification for valve fittings for	June, 2021	1	Not Equivalent
	Reviewed In: 2021	use with liquefied petroleum gas	, -		1
	SMS 2237 : 1968,	(LPG) cylinders up to and			
	SMS 2262 : 1968	including 5 - Litre water capacity			
		(First Revision)			
		· · · · · · · · · · · · · · · · · · ·		1	

87	SP 9: 1973	Technical data sheet for gases	March, 2020	2	Indigenous
	Reviewed In: 2020	conveyed in cylinders			
88	IS 9122 : 2023	Inspection Gauges for Checking	Gauges for Checking -		Not Equivalent
	ISO 11363-1:2018	Type 2 Taper Thread of Gas			
	and	Cylinder Valves, Taper 3 in 25 —	_		
		Specification (Second Revision)			
89	IS 9200 : 2021	METHODS OF DISPOSAL OF		=	Indigenous
		UNSERVICEABLE			
		COMPRESSED GAS			
		CYLINDERS CODE OF			
		PRACTICE			
90	IS 9639 : 2017	Visual inspection of low pressure	October, 2022	-	Indigenous
		welded steel gas cylinders during			
	Reviewed In: 2022	manufacture - Code of practice			
		(First Revision)			
91	IS 9798 : 2013	Low pressure regulators for use	March, 2019	3	Not Equivalent
	Reviewed In: 2019	with liquefied petroleum gas			
	EN 12864 : 2001	(LPG) - Specification (Second			
		Revision)			
92	IS/ISO 9809-2 :	GAS CYLINDERS DESIGN		-	Identical under single
	2019	CONSTRUCTIION AND			numbering
	ISO 9809-2 : 2019	TESTING OF REFILLABLE			
	ISO 9809-2 : 2019	SEAMLESS STEEL GAS			
		CYLINDERS AND TUBES PART			
		2 QUENCHED AND			
		TEMPERED STEEL			
		CYLINDERS AND TUBES WITH			
		TENSILE STRENGTH			
		GREATER THAN OR EQUAL			
		TO 1 100 MPA			

Standards under Development

	Projects Approved			
SI. No.	Doc No.	Title		
	No Records Found			

	Preliminary Draft Standards				
	SI. No.	SI. No. Doc No. Title			
	1	MED 16 (22407)	Gas Cylinders Conditions for Filling Gas Cylinders First Revision Amendment - 1		
Γ	2	MED 16 (25978)	LIGHT GAUGE METAL CONTAINERS NON-REFILLABLE LPG CARTRIDGES GENERAL		
			REQUIREMENTS		

	Drafts Standards in WC Stage			
SI. No.	SI. No. Doc No. Title			
1	MED 16 (25227)	COMPRESSED GASEOUS HYDROGEN CGH2 AND HYDROGENNATURAL GAS BLENDS		
		VALVE INTEGRATED WITH SOLENOID OPERATION REMOTELY CONTROLLED FOR		
		AUTOMOTIVE USE SPECIFICATION		
2	MED 16 (25994)	COMPRESSED NATURAL GAS CYLINDER VALVE INTEGRATED WITH SOLENOID		
		OPERATION REMOTELY CONTROLLED FOR AUTOMOTIVE USE - SPECIFICATION		

	Draft Standards Completed WC Stage				
SI. No.	Doc No.	Title			
1	MED 16 (15992)	Draft Indian Standard GAS CYLINDERS WELDED LOW CARBON STEEL CONTAINERS			

		EXCEEDING 250 LITRES AND UP TO 1000 LITRES WATER CAPACITY FOR THE
		TRANSPORT OF LPG DESIGN AND CONSTRUCTION
2	MED 16 (15993)	Draft Indian Standard LPG EQUIPMENT AND ACCESSORIES DESIGN SPECIFICATION
		AND TESTING FOR LIQUEFIED PETROLEUM GAS LPG COMBO VALVES AND
		FITTINGS TO BE USED IN CYLINDERS WITH WATER CAPACITY MORE THAN 150 L
3	MED 16 (16990)	Liquefied petroleum gas storage installations - Code of practice Part 1 residential commercial
		and industrial cylinder installations Third Revision Amendment - 1
4	MED 16 (17305)	Refillable seamless steel gas cylinders - Specification Part 1 normalized steel cylinders Fourth
		Revision Amendment - 2
5	MED 16 (23088)	LOW PRESSURE REGULATORS FOR USE WITH LIQUEFIED PETROLEUM GAS LPG
		SPECIFICATION Third Revision of IS 9798
6	MED 16 (23485)	WELDED LOW CARBON STEEL CYLINDERS FOR LOW PRESSURE LIQUEFIABLE
		GASES NOT EXCEEDING 5 LITRE WATER CAPACITY SPECIFICATION Second Revision
		of IS 7142
7	MED 16 (24459)	GAS CYLINDERS REFILLABLE WELDED ALUMINIUM ALLOY CYLINDERS DESIGN
		CONSTRUCTION AND TESTING Amendment - 1
8	MED 16 (24593)	CYLINDERS FOR ON-BOARD STORAGE OF COMPRESSED GASEOUS HYDROGEN
		AND HYDROGEN BLENDS AS A FUEL FOR AUTOMOTIVE VEHICLES SPECIFICATION
		First revision of IS 16735
9	MED 16 (24646)	GAS CYLINDERS COMPATIBILITY OF CYLINDERAND VALVE MATERIALS WITH GAS
		CONTENTS PART 2 NON-METALLIC MATERIALS Second Revision Adoption of ISO
		11114-2
10	MED 16 (25087)	Valve for compressed gas cylinders excluding liquefied petroleum gas LPG cylinders -
		Specification fourth revision Amendment - 1
11	MED 16 (25890)	CRYOGENIC VESSELS LARGE TRANSPORTABLE VACUUM-INSULATED VESSELS
		PART 1 DESIGN FABRICATION INSPECTION AND TESTING Modified Adoption of ISO
		20421-1

Finalized Draft Indian Standard		
SI. No.	Doc No.	Title
No Records Found		

Finalized Draft Indian Standards under Print		
SI. No.	Doc No.	Title
1	MED 16 (16579) Revision	Yoke Type Medical Cylinder Valve with Pin Index Connection
	of: IS 3745:2006	
2	MED 16 (17247)	Valve fittings for use with liquefied petroleum gas LPG cylinders for more than 5 litre water
		capacity - Specification Second Revision Amendment - 2
3	MED 16 (18618) Revision	Valve Fittings for Use With Liquefied Petroleum Gas LPG Cylinders up to and Including 13 Litre
	of: IS 8776:1988	Water Capacity Specification
4	MED 16 (20154) Revision	Transportable Gas Cylinders Periodic Inspection and Testing of Seamless Aluminium Alloy Gas
	of: IS 16017:2013	Cylinders First Revision
5	MED 16 (20189) Revision	GAS CYLINDER VALVES FOR SMALL REFRIGERANT CYLINDERS SPECIFICATION
	of: IS 12300:1988	
6	MED 16 (20199) Revision	INSPECTION OF LOW PRESSURE WELDED STEEL GAS CYLINDERS OTHER THAN
	of: IS 5845:1993	LPG CYLINDERS IN USE CODE OF PRACTICE THIRD REVISION
7	MED 16 (22706)	CRYOGENIC VESSELS VALVES FOR CRYOGENIC VESSELS
8	MED 16 (23111)	GAS CYLINDERS REFILLABLE SEAMLESS STEEL TUBES OF WATER CAPACITY
		BETWEEN 150 L AND 3 000 L DESIGN CONSTRUCTION AND TESTING
9	MED 16 (23565) Revision	Gas Cylinder Technology Glossary of Terms Second Revision
	of: IS 7241:1981	

Total Published Standards:80 Total Standards Under development:24

Aspect Wise Report
Product: 47

Code of Practices: 30
Methods of Test: 6
Terminology: 2
Dimensions: 0
System Standard: 1
Safety Standard: 0
Others: 2

Service Specification : 0 Process Specification : 0 Unclassified : 0

Annexure-I :List of Indian Standards Withdrawn/Superseded

SI. No.	IS No. & Year	Title
1	IS 15737 : 2006	Cylinders for permanent gases - inspection at time of filling
	ISO 10463	
	Reviewed In: 2016 ISO	
	10463:1993	
2	IS 2872 : 1967	Low carbon steel cylinders for the storage and transportation of liquefiable gases
3	IS 3870 : 1966	Code of practice for handling gas cylinders and related equipment intended for medical use
4	IS 4093 : 1981	Non-refillable liquefied petroleum gas containers
	Reviewed In: 2002	
5	IS 4784 : 1968	Low Pressure Regulators for Use with Butane Gas
6	IS 4785 : 1968	Low Pressure Regulators for Use with Propane gas
7	IS 4786 : 2014	Variable high pressure regulators VHPR for use with liquefied petroleum gases - Specification
	Reviewed In: 2019 EN	First Revision
	12864 : 2001, EN 13785 :	
	2005	
8	IS 7285 : 1988	Seamless Steel Cylinders for Permanent and High Pressure Liquefiable Gases
	Reviewed In: 2002	
9	IS 7311 : 1974	Seamless high carbon steel cylinders for permanent and high pressure liquefiable gases
10	IS 7312 : 1993	Welded and seamless steel dissolved acetylene gas cylinders
	Reviewed In: 2013 ISO	
	18079-2	
11	IS 7680 : 1985	Welded Low Carbon Steel Gas Cylinders for Ammonia Anhydrous Gas
	Reviewed In: 1991	
12	IS 7681 : 1985	Welded Low Carbon Steel Gas Cylinders for Chlorine Gas
	Reviewed In: 1991	
13	IS 7682 : 1985	Welded Low Carbon Steel Gas Cylinders for Methyl Bromide Gas
	Reviewed In: 1996	
14	IS 8198 (Part 1): 1984	Code of practice for steel cylinders for compressed gases Part 1 Atmospheric gases
	Reviewed In: 2000	
15	IS 8198 (Part 2): 1984	Code of practice for steel cylinders for compressed gases Part 2 Hydrogen gas
	Reviewed In: 2000	
16	IS 8198 (Part 3): 1984	Code of practice for steel cylinders for compressed gases Part 3 High pressure liquefiable gases
1.7	Reviewed In: 2000	
17	IS 8198 (Part 4): 1984	Code of practice for steel cylinders for compressed gases Part 4 Dissolved acetylene gas
10	Reviewed In : 2000	Declinate Control Income Declar
18	IS 8471 (Part 1): 1977	Requirements for acetylene generators Part 1 Low pressure stationary of water to-carbide and
10	Reviewed In : 2008	carbide to water type
19	IS 8471 (Part 2): 1977	Requirements for acetylene generators Part 2 Low pressure portable of water-to-carbide type
20	Reviewed In : 2008 IS 8471 (Part 3) : 1977	Requirements for acetylene generators Part 3 Low pressure portable of carbide-to-water type
20	Reviewed In : 2008	Requirements for acetylene generators Part 5 Low pressure portable of carbide-to-water type
	Keviewed in : 2008	

21	IS 8471 (Part 4): 1977	Requirements for acetylene generators Part 4 Medium pressure stationary of water-to-carbide and
	Reviewed In: 2008	carbide-to-water type
22	IS 8471 (Part 5): 1977	Requirements for acetylene generators Part 5 Medium pressure portable of water-to-carbide and
	Reviewed In: 2008	carbide-to-water type
23	IS 8866 : 1978	Filling ratios and corresponding developed pressure for high pressure liquefiable gases contained
	Reviewed In: 2007	in gas cylinder
24	IS 8867 : 1978	Saturated vapour pressure and test pressure for low pressure liquefiable gases contained in gas
	Reviewed In: 2007	cylinders
25	IS 8868 : 1988	Periodical inspection interval of gas cylinders in use
	Reviewed In: 2007	
26	IS 9121 : 2005	Inspection Gauges for Checking Type 1 Size 2 Taper Threads of Gas Cylinder Valves Taper 1 in
	Reviewed In: 2010	16
27	IS 9199 : 1979	Inspection Gauges for Checking Type 3 Taper Threads of Gas Cylinder Valves Taper 6 Included
	Reviewed In: 2007	Angle
28	IS 9687 : 1980	Inspection Gauges for Checking Type 1 Size 1 Taper Threads of Gas Cylinder Valves Taper 1 in
	Reviewed In: 2010	16

Annexure-II :List of Indian Product Standards

SI. No.	IS No. & Year	Title
1	IS 11006 : 2011	Flash back arrestor Flame Arrestor - Specification First Revision
	Reviewed In: 2021	•
2	IS/ISO 11114-1 : 2020	Gas Cylinders Compatibility of Cylinder and Valve Materials with Gas Contents Part 1 Metallic
	ISO 11114-1:2020	Materials First Revision
	ISO 20813 : 2019	
3	IS/ISO 11119-1 : 2020	GAS CYLINDERS - DESIGN CONSTRUCTION AND TESTING OF REFILLABLE
	ISO 11119-1 : 2020	COMPOSITE GAS CYLINDERS AND TUBES PART 1 HOOP WRAPPED FIBRE
		REINFORCED COMPOSITE GAS CYLINDERS AND TUBES UP TO 450 LITRES
4	IS/ISO 11119-2 : 2020	Gas Cylinders Design Construction and Testing of Refillable Composite Gas Cylinders and Tubes
	ISO 11119-2 : 2020	Part 2 Fully Wrapped Fibre Reinforced Composite Gas Cylinders and Tubes up to 450 Litres with
		Load-Sharing Metal Liners
5	IS/ISO 11119-3 : 2020	Gas Cylinders Design Construction and Testing of Refillable Composite Gas Cylinders and Tubes
	ISO 11119-3 : 2020	Part 3 Fully Wrapped Fibre Reinforced Composite Gas Cylinders and Tubes up to 450 Litres with
		Non-load-sharing Metallic or Non-metallic Liners or without Liners
6	IS/ISO 11515 : 2022	GAS CYLINDERS REFILLABLE COMPOSITE REINFORCED TUBES OF WATER
	ISO 11515 : 2022	CAPACITY BETWEEN 450 L AND 3 000 L DESIGN CONSTRUCTION AND TESTING
7	IS 12300 : 1988	Valve fittings for refrigerant cylinders - Specification
	Reviewed In: 2022 ANSI	
	B-57.1-1977	
8	IS 12586 : 2021	Brazed low carbon steel gas cylinders not exceeding 13 litre water capacity Specification
	ISO 128-2:2022	
9	IS 13497 : 2017	Fusible plug for dissolved acetylene gas cylinder - Specification First Revision
	Reviewed In: 2022	
10	IS/ISO 13985 : 2006	Liquid hydrogen - Land vehicle fuel tanks
	Reviewed In: 2021 ISO	
	13985 : 2006	
11	IS 14899 : 2014	Liquefied petroleum gas LPG containers for automotive use - Specification First Revision
	Reviewed In: 2019 ISO	
	20826 : 2006	NATURE AND ADDRESS OF THE PROPERTY OF THE PROP
12	IS 15100 : 2018	Multi - Function valve assembly for permanently fixed liquefied petroleum gas LPG containers for
	D	automotive use - Specification First Revision
	Reviewed In: 2023 UN	
	Regulation No. 67, AS/NZS	
	1425, IEC 68-2-52, ISO	
1.2	1817	
13	IS 15490 : 2017	Seamless steel cylinders for on - Board storage of compressed natural gas as a fuel for automotive
		vehicles - Specification First Revision

I	Reviewed In: 2022 ISO	
	11439 : 2013, ISO 9809-1 : 2010	
14	IS 15637 : 2006	Welded stainless steel cylinders for liquefied petroleum gases LPG from 0 5 litre to 250 litre water
	Reviewed In: 2020 AS 2469, AS 2470, EN 14140	capacity - Specification
15	IS 15660 : 2017	Refillable transportable seamless aluminium alloy gas cylinders - Specification First Revision
	Reviewed In : 2022 ISO 7866 : 2012	
16	IS 15894 : 2018	Inspection gauges for checking taper threads of gas cylinder valves and cylinder necks - Taper 1 in
	D : 17 2024	16 on diameter - Specification First Revision
17	Reviewed In : 2024 15935 : 2021	Composite Cylinders for On-Board Storage of Compressed Natural Gas CNG as a Fuel for
17	13733 . 2021	Automotive Vehicle - Specification First Revision
10	IG 1 (200 2021	
18	IS 16280 : 2021 ISO/IEC/IEEE 42020 :	High Pressure Regulators and Adaptors for Use with Liquefied Petroleum Gases LPG Specification First Revision
	2019	Specification 1 list Revision
19	IS 16484 : 2017	Liquid off - Take valve fitting to gas cylinders or tanks Mobile Or Static for liquid petroleum gas
	Reviewed In: 2022 ISO	LPG - Specification
	15995:2006, EN	
	13175:2003, ANSI/CGA	
20	V-1 IS 16485 : 2020	Flame Arresters Performance Requirements Test Methods and Limits for Use First Revision
20	ISO 16852 : 2016	Traine Arresters refrormance Requirements Test Methods and Limits for Ose Prist Revision
	75.16505.0015	
21	IS 16507 : 2017	Transportable gas cylinders cascade - Specification
	Reviewed In: 2022	
22	IS 16646 : 2017 Reviewed In : 2022 ISO	Transportable refillable fully wrapped composite cylinders for liquefied petroleum gas LPG - Specification
	11119-3 : 2013	Specification
23	IS 16735 : 2018	Cylinders for on - Board Storage of Compressed Gasesous Hydrogen and Hydrogen Blends as a
	TGO /FG 150 (0.2000	Fuel for Automative Vehicles - Specification
24	ISO/TS 15869:2009 IS 16742 : 2018	Liquefied natural gas LNG - Tanks for on - Board storage as a fuel for automotive vehicles
	ISO 12991 : 2012	Enqueried natural gas Ervo Tanks for on Board storage as a ruer for automotive venicles
	Reviewed In: 2023 ISO	
25	12991:2012	Commessed noticed associated as which interested with colonid angustion Demotals Controlled for
23	IS 16988 : 2018	Compressed natural gas cylinder valve integrated with solenoid operation Remotely Controlled for automotive use - Specification
	Reviewed In: 2024	-
26	IS 17613 : 2021 ISO 21503 : 2022	GAS CYLINDERS REFILLABLE WELDED ALUMINIUM ALLOY CYLINDERS DESIGN
27	IS 18272 : 2023	CONSTRUCTION AND TESTING Residual pressure valves and type testing of cylinder valves incorporating residual pressure devices
		Specification
28	IS 18719 (Part 1): 2024	Cryogenic Vessels Transportable Vacuum Insulated Vessels of not More than 1 000 Litres Volume
	IS 18719 (Part 1): 2024/ ISO 21029-1: 2018	Part 1 Design Fabrication Inspection and Tests
	150 21027-1. 2010	
29	IS 3196 (Part 1): 2013	Welded low carbon steel cylinders exceeding 5 litres water capacity for low pressure liquefiable
	Reviewed In : 2024 ISO	gases Part 1 cylinders for liquefied petroleum gases Lpg - Specification Sixth Revision
30	22991 : 2004 IS 3196 (Part 2) : 2006	Welded low carbon steel cylinders exceeding 5 litre water capacity for low pressure liquefiable
	• · · · · · · · · · · · · · · · · · · ·	gases Part 2 cylinders for liquefiable non - Toxic gases other than lpg - Specification First Revision
	4706-1	
31	IS 3196 (Part 4): 2001	Welded low carbon steel cylinders exceeding 5 litre water capacity for low pressure liquefiable

	Reviewed In: 2021	gases - Specification Part 4 cylinders for toxic and corrosive gases
32	IS 3224 : 2021	Valve for compressed gas cylinders excluding liquefied petroleum gas LPG cylinders - Specification fourth revision
33	IS 3710 : 1978 Reviewed In : 2020 BS 1736 AND BS 5355	Filling ratios for low pressure liquefiable gases contained in cylinders First Revision
34	IS 3745 : 2006 Reviewed In : 2021	Yoke type valve connections for small medical gas cylinders - Specification Second Revision
35	IS 4152 : 2011 Reviewed In : 2021 ISO 3500 : 2005	Seamless carbon dioxide cylinders for fire fighting purposes on boardship - Specification Third Revision
36	IS 5903 : 2014 Reviewed In : 2024 EN 13953 : 2003, CGAS-1.1 : 2007, A.S. 2613 : 2005	Recommendation for safety devices for gas cylinders First Revision
37	IS 7142 : 1995 Reviewed In : 2020	Welded low carbon steel cylinders for low pressure liquifiable gases not exceeding 5 litre water capacity - Specification First Revision
38	IS 7202 : 2017 Reviewed In : 2022	Inspection gauges for checking type 4 Size 1 2 3 taper threads of gas cylinder valves and cylinder necks - Specification First Revision
39	IS 7285 (Part 1): 2018 Reviewed In: 2022	Refillable seamless steel gas cylinders - Specification Part 1 normalized steel cylinders Fourth Revision
40	IS 7285 (Part 2) : 2017 Reviewed In : 2022 ISO 9809-1	Refillable seamless steel gas cylinders - Specification Part 2 quenched and tempered steel cylinders with tensile strength less than 1 100 mpa 112 Kgf mm sup2 Fourth Revision
41	IS 7302 : 2018 Reviewed In : 2022 ISO 13341	Valve fittings for self contained breathing apparatus SCBA and self contained underwater breathing apparatus SCUBA - Specification First Revision
42	IS 8471 : 2003 Reviewed In : 2024	Acetylene generators - Requirements First Revision
43	IS 8737 : 2017 NONE Reviewed In : 2022 ISO 14245 : 2006	Valve fittings for use with liquefied petroleum gas LPG cylinders for more than 5 litre water capacity - Specification Second Revision
44	IS 8776 : 1988 Reviewed In : 2021 SMS 2237 : 1968, SMS 2262 : 1968	Specification for valve fittings for use with liquefied petroleum gas LPG cylinders up to and including 5 - Litre water capacity First Revision
45	IS 9122 : 2023	Inspection Gauges for Checking Type 2 Taper Thread of Gas Cylinder Valves Taper 3 in 25 Specification Second Revision
46	IS 9798 : 2013 Reviewed In : 2019 EN 12864 : 2001	Low pressure regulators for use with liquefied petroleum gas LPG - Specification Second Revision
47	IS/ISO 9809-2 : 2019 ISO 9809-2 : 2019	GAS CYLINDERS DESIGN CONSTRUCTIION AND TESTING OF REFILLABLE SEAMLESS STEEL GAS CYLINDERS AND TUBES PART 2 QUENCHED AND TEMPERED STEEL CYLINDERS AND TUBES WITH TENSILE STRENGTH GREATER THAN OR EQUAL TO 1 100 MPA