### **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	Gas Cylinders — Compatibility of	December, 2024	-	Identical under single
	11114-1:2020	Cylinder and Valve Materials with			numbering
	ISO 11114-1:2020	Gas Contents Part 1 Metallic			
	Reviewed In: 2024	Materials (First Revision)			
	ISO 11114-1:2020				
3	IS/ISO	GAS CYLINDERS -		-	Identical under single
	11114-2:2021	COMPATIBILITY OF			numbering
	ISO 11114-2 : 2021	CYLINDER AND VALVE			
	ISO 11114-2:2021				
		CONTENTS: PART 2 NON-			
		METALLIC MATERIALS			
		(Second Revision)			
4	IS/ISO	Gas cylinders - Compatibility of	November, 2021	-	Identical under single
	11114-3:2010	cylinder and valve materials with			numbering
	ISO 11114-3 : 2010	ε			
	Reviewed In: 2021	ignition test for non - Mettalic			
	ISO 11114 : Part 3 :	materials in oxygen atmosphere			
	2010				
5	IS/ISO	Transportable Gas Cylinders —	April, 2025	-	Identical under single
	11114-4:2017	Compatibility of Cylinder and			numbering
	IS/ISO 11114-4 :	Valve Materials with Gas Contents			
	2017	Part 4 Test Methods for Selecting			
	Reviewed In: 2025	Steels Resistant to Hydrogen			
	ISO 11114 Part 4 : 2				
6	IS/ISO	GAS CYLINDERS - DESIGN		-	Identical under single
	11119-1:2020	CONSTRUCTION AND			numbering
	ISO 11119-1 : 2020				
	ISO 11119-1 : 2020	COMPOSITE GAS CYLINDERS			
		AND TUBES PART 1 HOOP			
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		WRAPPED FIBRE			
		REINFORCED COMPOSITE			
		GAS CYLINDERS AND TUBES			
<u> </u>	70.70	UP TO 450 LITRES			
7	IS/ISO	Gas Cylinders � Design,		-	Identical under single
	11119-2:2020	Construction and Testing of			numbering
	ISO 11119-2 : 2020	Refillable Composite Gas			
	ISO 11119-2 : 2020	Cylinders and Tubes Part 2 Fully			
		Wrapped Fibre Reinforced			
		Composite Gas Cylinders and			
		Tubes up to 450 Litres with Load-			
		Sharing Metal Liners			
8	IS/ISO	Gas Cylinders � Design,		-	Identical under single
	11119-3:2020	Construction and Testing of			numbering
	ISO 11119-3 : 2020	Refillable Composite Gas			
	ISO 11119-3 : 2020	Cylinders and Tubes 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			
9		GAS CYLINDERS REFILLABLE		-	Identical under single
	ISO 11120 : 2015	SEAMLESS STEEL TUBES OF			numbering
	ISO 11120 : 2015	WATER CAPACITY BETWEEN			
		150 L AND 3 000 L DESIGN			
		CONSTRUCTION AND			
		TESTING			
10	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			
11	IS 12300:2024	Gas Cylinder Valves for Small		1	Indigenous
		Refrigerant Cylinders			
		-Specification (First Revision)			
12	IS 12586:2021	Brazed low carbon steel gas		-	Indigenous
		cylinders not exceeding 13 litre			
		water capacity Specification			
13	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)			
14	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			
		cylinders (First Revision)			
15	IS 13497:2017	Fusible plug for dissolved	July, 2022	-	Indigenous
		acetylene gas cylinder -			
	Reviewed In: 2022	Specification (First Revision)			
16	IS/ISO 13985:2006	Liquid hydrogen - Land vehicle	November, 2021	-	Identical under single
	Reviewed In: 2021	fuel tanks			numbering
	ISO 13985 : 2006				
17	IS 14899:2014	Liquefied petroleum gas (LPG)	April, 2025	-	Not Equivalent
	Reviewed In: 2025	containers for automotive use -			
	ISO 20826 : 2006	Specification (First Revision)			
18	IS 15100:2018	Multi - Function valve assembly	March, 2023	-	Not Equivalent
	I I	ı l		I	ı

19	UN Regulation No. 67, AS/NZS 1425, IEC 68-2-52, ISO 1817 IS 15190 (Part	for permanently fixed liquefied petroleum gas (LPG) containers for automotive use - Specification (First Revision)  Acetylene pipelines - Code of	October, 2022	-	Not Equivalent
	1):2002 Reviewed In : 2022 IGC Document No. 9/78/E), CGA. 1.3	practice: Part 1 for pressures up to 155 kPa (G)			
20	IS 15190 (Part 2):2002 Reviewed In : 2022 IGC Document No. 9/78/E), CGA. 1.4	Acetylene pipelines - Code of practice: Part 2 for pressures from 155 kPa (G) to 2550 kPa (G)	October, 2022	-	Not Equivalent
21	IS 15490:2017  Reviewed In: 2022 ISO 11439: 2013, ISO 9809-1: 2010	Seamless steel cylinders for on - Board storage of compressed natural gas as a fuel for automotive vehicles - Specification (First Revision)	March, 2022	1	Not Equivalent
22	IS 15637:2006 Reviewed In : 2025 AS 2469, AS 2470, EN 14140	Welded stainless steel cylinders for liquefied petroleum gases (LPG) from 0.5 litre to 250 litre water capacity - Specification	May, 2025	1	Not Equivalent
23	IS 15660:2017  Reviewed In: 2022 ISO 7866: 2012	Refillable transportable seamless aluminium alloy gas cylinders - Specification (First Revision)	March, 2022	2	Not Equivalent
24	IS 15894:2018 Reviewed In : 2024	Inspection gauges for checking taper threads of gas cylinder valves and cylinder necks - Taper 1 in 16 on diameter - Specification (First Revision)	January, 2024	1	Indigenous
25	IS 15935:2021	Composite Cylinders for On-Board Storage of Compressed Natural Gas ( CNG ) as a Fuel for Automotive Vehicle - Specification ( First Revision )		-	Indigenous
26	IS 15966:2013 Reviewed In : 2022 ISO 10691 : 2004	Refillable welded steel cylinder for liquefied petroleum gas (LPG) - Procedure for checking before, during and after filling	October, 2022	-	Not Equivalent
27	IS 15975:2020 Reviewed In : 2024	Gas Cylinders — Conditions for Filling Gas Cylinders ( First Revision )	December, 2024	1	Indigenous
28	IS 16017:2024 ISO 18119 : 2018	Transportable Gas Cylinders â€" Periodic Inspection and Testing of Seamless Aluminium Alloy Gas Cylinders (First Revision)		-	Not Equivalent
29	IS 16050:2020 ISO 24431 : 2016 Reviewed In : 2025	Gas Cylinders — Seamless, Welded and Composite Cylinders for Compressed and Liquefied Gases ( Excluding Acetylene ) — Inspection at Time of Filling ( First Revision )	May, 2025	-	Indigenous
30	IS 16054:2013 Reviewed In : 2024 ISO 10464:2004	Periodic inspection and testing - Welded low carbon steel cylinders exceeding 5 - Litre water capacity	January, 2024	-	Not Equivalent

		for liquified petroleum gas (Lpg) -			
21	IC 16177 2014	Code of practice	1 2024		T 1'
31	IS 16175:2014	Periodic inspection and	January, 2024	-	Indigenous
	Reviewed In: 2024	requalification - Liquefied			
		petroleum gas (LPG) cylinders for			
22	IC 16107 2014	automotive use - Code of practice	I 2024		N.E. 1
32	IS 16185:2014	Periodic inspection and testing -	January, 2024	-	Not Equivalent
	Reviewed In : 2024	Welded carbon steel gas cylinders -			
L	ISO 10460 : 2005	Code of practice	I		Not Englished
33	IS 16271:2014	Dissolved acetylene gas cylinders -	January, 2024	-	Not Equivalent
	Reviewed In : 2024	Inspection at time of filling - Code			
24	ISO 11372 : 2011	of practice		+	T 1'
34	IS 16280:2021	High Pressure Regulators and		-	Indigenous
		Adaptors for Use with Liquefied			
		Petroleum Gases (LPG) —			
25	IC 16200-2014	Specification (First Revision)	I		T. 1'
35	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 hong blends and ong			
		cascade cylinders - Code of			
26	IC 16404-2017	practice	M1- 2022	1	Not Ford alone
36	IS 16484:2017	Liquid off - Take valve fitting to	March, 2022	1	Not Equivalent
	D 1 In . 2022	gas cylinders or tanks (Mobile Or			
	Reviewed In : 2022	Static) for liquid petroleum gas			
	ISO 15995:2006, EN	(LPG) - Specification			
	13175:2003, ANSI/CGA V-1				
37	IS 16485:2020	Flame Arresters — Performance	December, 2024		Indigenous
31	ISO 16852 : 2016	Requirements, Test Methods and	December, 2024		margenous
	Reviewed In : 2024	Limits for Use (First Revision)			
38	IS 16507:2017	Transportable gas cylinders	March, 2022	_	Indigenous
	15 10507.2017	cascade - Specification	March, 2022		margenous
	Reviewed In: 2022	caseade specification			
39	IS 16646:2017	Transportable refillable fully	March, 2022	_	Not Equivalent
	Reviewed In: 2022	wrapped composite cylinders for	1,1aron, 2022		Tiot Equivalent
	ISO 11119-3 : 2013	liquefied petroleum gas (LPG) -			
	3.2013	Specification			
40	IS 16735:2018	Cylinders for on - Board Storage of	February, 2024	-	Not Equivalent
		Compressed Gasesous Hydrogen	<b>,</b> ,		1
	Reviewed In: 2024	and Hydrogen Blends as a Fuel for			
	ISO/TS 15869:2009	Automative Vehicles -			
		Specification			
41	IS 16742:2018	Liquefied natural gas (LNG) -	December, 2023	-	Identical under dual
	ISO 12991 : 2012	Tanks for on - Board storage as a			numbering
	Reviewed In: 2023	fuel for automotive vehicles			
	ISO 12991:2012			<u> </u>	<u> </u>
42	IS 16988:2018	Compressed natural gas cylinder	March, 2024	2	Indigenous
		valve integrated with solenoid			
	Reviewed In: 2024	operation (Remotely Controlled)			
		for automotive use - Specification			
43	IS 17613:2021	GAS CYLINDERS REFILLABLE	April, 2025	-	Not Equivalent
	Reviewed In: 2025	WELDED ALUMINIUM ALLOY			
	ISO 20703:2006	CYLINDERS DESIGN			
		CONSTRUCTION AND			
		TESTING			
44	IS 18272:2023	Residual pressure valves and type		-	Indigenous
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		testing of cylinder valves			
		incorporating residual pressure			
		devices "¿½ Specification			
45	IS 18608:2024	CRYOGENIC VESSELS �		-	Indigenous
		VALVES FOR CRYOGENIC			
		VESSELS			
46	IS 18719 (Part	Cryogenic Vessels �		-	Identical under dual
	1):2024	Transportable Vacuum Insulated			numbering
	IS 18719 (Part 1):	Vessels of not More than 1 000			
	2024/ ISO 21029-1:	Litres Volume Part 1 Design,			
	2018	Fabrication, Inspection and Tests			
	IS 18719 (Part 1):				
	2024/ ISO 21029-1:				
	2018				
47	IS 18719 (Part	Cryogenic Vessels �		-	Not Equivalent
	2):2024	Transportable Vacuum Insulated			
	ISO 21029-2 : 2015	Vessels of not more than 1 000			
		Litres Part 2 Operational			
		Requirements			
48	IS 19060 (Part	CRYOGENIC VESSELS -		-	Modified/Technically
	1):2024	LARGE TRANSPORTABLE			Equivalent
	ISO 20421-1 : 2019				
		VESSELS PART 1 DESIGN			
		FABRICATION INSPECTION			
		AND TESTING (Modified			
		Adoption of ISO 20421-1)			
49	IS 19138:2025	Welded Low Carbon Steel		-	Indigenous
		Containers above 250 Litre and not			
		Exceeding 1 000 Litre Water			
		Capacity for the Transport of LPG			
-50	IG 2106 (D. )	ï¿⅓ Specification	N. 1. 2024	4	N.E. 1
50	IS 3196 (Part	Welded low carbon steel cylinders	March, 2024	4	Not Equivalent
	1):2013 Reviewed In : 2024	exceeding 5 litres water capacity for low pressure liquefiable gases:			
	ISO 22991 : 2004				
	130 22991 . 2004	Part 1 cylinders for liquefied			
		petroleum gases (Lpg) - Specification (Sixth Revision)			
51	IS 3196 (Part	Welded low carbon steel cylinders	May, 2025	3	Not Equivalent
] 31	2):2006	exceeding 5 litre water capacity for	May, 2023	3	Not Equivalent
	,	low pressure liquefiable gases: Part			
	ISO/CD 4706-1	2 cylinders for liquefiable non -			
	130/CD 4700-1	Toxic gases other than lpg -			
		Specification (First Revision)			
52	IS 3196 (Part	Welded low carbon steel cylinder	October, 2022	2	Not Equivalent
] 32	3):2012	exceeding 5 litre water capacity for	OCIO0E1, 2022	2	Not Equivalent
	,	low pressure liquefiable gases: Part			
	ISO 22991:2004	3 methods of test (Fifth Revision)			
53	IS 3196 (Part	Welded low carbon steel cylinders	November, 2021	2	Indigenous
	4):2001	exceeding 5 litre water capacity for	11010111001, 2021		margenous
	Reviewed In: 2021	low pressure liquefiable gases -			
	Reviewed III : 2021	Specification: Part 4 cylinders for			
		toxic and corrosive gases			
54	IS 3224:2002	Valve fittings for compressed gas	November, 2017	3	Not Equivalent
-	Reviewed In: 2017	cylinders excluding liquefied			-1
	10297:2014	petroleum gas (LPG) cylinders -			
		Specification (Third Revision)			
55	IS 3224:2021	Valve for compressed gas cylinders		2	Not Equivalent
	10297:2014	excluding liquefied petroleum gas			1
		(LPG) cylinders - Specification			
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		(fourth revision)			
56	IS 3710:1978	Filling ratios for low pressure	March, 2020	1	Not Equivalent
	Reviewed In: 2020	liquefiable gases contained in			
	BS 1736 AND BS	cylinders (First Revision)			
	5355				
57	IS 3745:2006	Yoke type valve connections for	October, 2021	-	Indigenous
	Reviewed In: 2021	small medical gas cylinders -			
		Specification (Second Revision)			
58	IS 3745:2024	Yoke Type Medical Cylinder Valve		-	Indigenous
		with Pin Index Connection (Third			
		Revision )			
59	IS 3933:2021	Colour Identification of Gas		-	Not Equivalent
	32:1977	Cylinders and Related Equipment			
		Intended for Medical Use (First			
		Revision)			
60	IS 4152:2011	Seamless carbon dioxide cylinders	November, 2021	-	Not Equivalent
	Reviewed In: 2021	for fire fighting purposes on			
	ISO 3500 : 2005	boardship - Specification (Third			
	** *** · · · · · · · · · · · · · · · ·	Revision)			
61	IS 5844:2014	Hydrostatic stretch testing of	January, 2024	-	Indigenous
	Reviewed In: 2024	compressed gas cylinders -			
- (2	IO #04# 2024	Recommendations (First Revision)			T 1'
62	IS 5845:2024	Inspection of Low Pressure		-	Indigenous
		Welded Steel Gas Cylinders Other			
		than LPG Cylinders in Use â€"			
	¥9,5000,0005	Code of Practice (Third Revision)			T 11
63	IS 5903:2025	Types of Safety Device for Gas		-	Indigenous
		Cylinders and Gas Cylinder Valves			
<i>C</i> 1	IC 5002 2014	( Second Revision )	M 1 2024	2	T 1'
64	IS 5903:2014	Recommendation for safety	March, 2024	3	Indigenous
	Reviewed In: 2024	devices for gas cylinders (First			
(5	IC (044 (D	Revision)	J 2024	1	T
65	IS 6044 (Part	Liquefied petroleum gas storage	January, 2024	1	Indigenous
	1):2018	installations - Code of practice: Part 1 residential, commercial and			
	Daviewed In , 2024				
	Reviewed In: 2024	industrial cylinder installations (Third Revision)			
66	IS 6044 (Part	LIQUEFIED PETROLEUM GAS			Indigenous
00	2):2021	STORAGE INSTALLATIONS		-	margenous
	2).2021	CODE OF PRACTICE PART 2			
		COMMERCIAL INDUSTRIAL			
		AND DOMESTIC BULK			
		STORAGE INSTALLATIONS			
67	IS 7142:2025	Welded Low Carbon Steel		_	Indigenous
07	10 /144,4043	Cylinders for Low Pressure		_	margenous
		Liquefiable Gases not exceeding 5			
		Litre Water Capacity -			
		Specification ( Second Revision )			
68	IS 7202:2017	Inspection gauges for checking	October, 2022	_	Indigenous
		type 4 (Size 1, 2, 3) taper threads	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		11112111040
	Reviewed In: 2022	of gas cylinder valves and cylinder			
	5.55.755 m . 2022	necks - Specification (First			
		Revision)			
69	IS 7241:2024	Gas Cylinder Technology â€"		_	Indigenous
		Glossary of Terms (Second			1111511040
		Revision)			
			Optobor 2022	1 2	To diagnoss
70	IS 7285 (Part	Refillable seamless steel gas	October, 2022	<u>L</u>	indigenous
70	IS 7285 (Part 1):2018	Refillable seamless steel gas cylinders - Specification: Part 1	October, 2022	2	Indigenous

	Reviewed In: 2022	Revision)			
71	IS 7285 (Part	Refillable seamless steel gas	October, 2022	1	Not Equivalent
	2):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 <sup>2</sup> )			
		(Fourth Revision)			
72	IS 7302:2018	Valve fittings for self contained	October, 2022	1	Not Equivalent
		breathing apparatus (SCBA) and			
	Reviewed In: 2022	self contained underwater			
	ISO 13341	breathing apparatus (SCUBA) -			
		Specification (First Revision)			
73	IS 7312:2018	Welded and seamless steel	March, 2024	1	Not Equivalent
		dissolved acetylene gas cylinders -			
	Reviewed In: 2024	Specification (Third Revision)			
	ISO 3807: 2013				
74	IS 8198:2004	Steel cylinders for compressed	March, 2024	-	Indigenous
	Reviewed In: 2024	gases (Atmospheric gases,			
	1	hydrogen, high pressure liquefiable			
	1	gases and dissolved acetylene			
	<u>                                      </u>	gases) - Code of practice			
75	IS 8198 (Part	CODE OF PRACTICE FOR		-	Indigenous
	5):2022	STEEL CYLINDERS FOR			
	1	COMPRESSED GASES PART 5:			
		LIQUEFIED PETROLEUM GAS			
		LPG			
76	IS 8198 (Part	STEEL CYLINDERS FOR		-	Indigenous
	6):2025	COMPRESSED GASES - CODE			8
	7,120	OF PRACTICE PART 6			
		LIQUEFIED CHLORINE GAS			
		(Second Revision)			
77	IS 8198 (Part	Code of practice for steel cylinders	October, 2022	_	Indigenous
, ,	6):1988	for compressed gases Part 6	0010001, 2022		margonous
	Reviewed In: 2022	Liquefied chlorine gas			
78	IS 8198 (Part	Steel Cylinders for Compressed		_	Indigenous
, 0	7):2024	Gases $\ddot{i}_{\zeta}$ Code of Practice Part 7			margeneas
	7).2021	Ammonia Gas (Second Revision)			
79	IS 8198 (Part	Steel Cylinders for Compressed		_	Indigenous
,,	8):2024	Gases � Code of Practice Part 8			margonous
	0).2021	Common Organic Refrigerant			
		Gases ( Second Revision )			
80	IS 8198 (Part	Steel Cylinders for Compressed		_	Indigenous
	9):2024	Gases $\ddot{i}_{\xi}$ Code of Practice Part 9			111015011000
	),.2027	Sulphur Dioxide Gas (Second			
	1	Revision )			
81	IS 8198 (Part	Steel Cylinders for Compressed		_	Indigenous
O1	10):2024	Gases i; ½ Code of Practice Part 10			marganous
	10).2027	Methyl Bromide Gas ( First			
	1	Revision )			
82	IS 8198 (Part	Steel Cylinders for Compressed		_	Indigenous
02	11):2024	Gases â€" Code of Practice Part			muigenous
	11).2024	11 Methyl Chloride Gas (Second			
	1	Revision)			
83	IS 8198 (Part	Steel Cylinders for Compressed			Indigenous
03				_	mulgenous
	12):2024	Gases i; ½ Code of Practice Part 12			
	1	Gases for Medical Use (First			
0.4	IC 0422-2017	Revision )	November 2001		Not David -1
84	IS 8433:2017	Periodic inspection and	November, 2021	_	Not Equivalent
	Ī	maintenance of dissolved acetylene		1	I

1	Reviewed In: 2021	gas cylinders - Code of practice		1	
	CGA - C6	(Second Revision)			
85	IS 8451:2018	Periodic inspection and testing of	January, 2024	=	Not Equivalent
		seamless steel gas cylinders - Code			
	Reviewed In: 2024	of practice (Third Revision)			
	ISO 6406 : 2005				
86	IS 8452:1977	Glossary of terms used in acetylene	November, 2021	-	Indigenous
	Reviewed In: 2021	generators			
87	IS 8471:2003	Acetylene generators -	March, 2024	1	Indigenous
	Reviewed In: 2024	Requirements (First Revision)			
88	IS 8737:2017	Valve Fittings for Use with	October, 2022	3	Not Equivalent
	NONE	Liquefied Petroleum Gas (LPG) of			
	Reviewed In: 2022	upto 250 litre Water Capacity -			
	ISO 14245 : 2006	Specification (Second Revision)			
89	IS 8775:1978	Filling pressure and corresponding	October, 2022	-	Not Equivalent
	Reviewed In: 2022	developed pressure for permanent			
	BS 5355 : 1976	gases contained in cylinders			
90	IS 8776:2024	Valve Fittings for Use With		-	Indigenous
		Liquefied Petroleum Gas (LPG)			
		Cylinders up to and Including 13			
		Litre Water Capacity -			
		Specification (Second Revision)			
91	SP 9:1973	Technical data sheet for gases	March, 2020	2	Indigenous
	Reviewed In: 2020	conveyed in cylinders			
92	IS 9122:2023	Inspection 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)			
93	IS 9200:2021	METHODS OF DISPOSAL OF		-	Indigenous
		UNSERVICEABLE			
		COMPRESSED GAS			
		CYLINDERS CODE OF			
		PRACTICE			
94	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)			
95	IS 9798:2013	Low pressure regulators for use	November, 2023	3	Not Equivalent
	Reviewed In: 2023	with liquefied petroleum gas			
	EN 12864 : 2001	(LPG) - Specification (Second			
		Revision)			
96	IS/ISO 9809-2:2019	GAS CYLINDERS DESIGN		-	Identical under single
	ISO 9809-2 : 2019	CONSTRUCTIION AND			numbering
	ISO 9809-2 : 2019	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			

## **Standards under Development**

	Projects Approved			
SI. No.	SI. No. Doc No. Title			
S1. No.	SI. No. Doc No. Title			

#### No Records Found

	Preliminary Draft Standards			
SI. No.	Doc No.	Title		
1	MED 16 (27636)	Seamless steel cylinders for on - Board storage of compressed natural gas as a fuel for automotive		
		vehicles - Specification First Revision Amendment - 2		

Drafts Standards in WC Stage				
SI. No.	SI. No. Doc No. Title			
No Records Found				

	Draft Standards Completed WC Stage			
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 (25978)	LIGHT GAUGE METAL CONTAINERS NON-REFILLABLE LPG CARTRIDGES GENERAL		
		REQUIREMENTS		
3	MED 16 (27703)	Gas Cylinders - Compatibility of Cylinder and Valve Materials with Gas Contents Part 1 Metallic		
		Materials First Revision Amendment - 1		
4	MED 16 (27705)	PRESSURE RELIEF VALVES FOR CYLINDER VALVES AND FOR TRANSPORTABLE		
		REFILLABLE CYLINDERS		
5	MED 16 (27872)	TRANSPORTABLE REFILLABLE FULLY WRAPPED COMPOSITE CYLINDERS FOR		
		LIQUEFIED PETROLEUM GAS LPG SPECIFICATION		
6	MED 16 (28257)	GAS CYLINDERS REFILLABLE WELDED ALUMINIUM ALLOY CYLINDERS DESIGN		
		CONSTRUCTION AND TESTING First Revision of IS 17613		

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 (27407)	Identification of the Contents of Industrial Gas Cylinders Second Revision Amendment - 1
2	MED 16 (28292)	Liquefied petroleum gas LPG containers for automotive use - Specification First Revision
		Amendment - 1

Total Published Standards:79 Total Standards Under development:9

### **Aspect Wise Report**

Product : 51 Code of Practices : 30

Methods of Test: 5 Terminology: 2

Dimensions: 0

System Standard : 1 Safety Standard : 0

Others: 1

Service Specification: 0

Process Specification: 1

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 Reviewed In : 2002	Non-refillable liquefied petroleum gas containers
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 :	
8	2005 IS 7285:1988	Seamless Steel Cylinders for Permanent and High Pressure Liquefiable Gases
0	Reviewed In : 2002	Seamless Steel Cymiders for Fermanent and Fight Fressure Elquerrable Gases
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
13	Reviewed In: 1991 IS 7682:1985	Welded Low Carbon Steel Gas Cylinders for Methyl Bromide Gas
13	Reviewed In : 1996	Wedded Low Carbon Steel Gas Cynnders for Methyl Bronnde Gas
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
17	Reviewed In : 2000	
17	IS 8198 (Part 4):1984 Reviewed In : 2000	Code of practice for steel cylinders for compressed gases Part 4 Dissolved acetylene gas
18	IS 8471 (Part 1):1977	Requirements for acetylene generators Part 1 Low pressure stationary of water to-carbide and
	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
	Reviewed In: 2008	
20	IS 8471 (Part 3):1977	Requirements for acetylene generators Part 3 Low pressure portable of carbide-to-water type
	Reviewed In: 2008	
21	IS 8471 (Part 4):1977 Reviewed In : 2008	Requirements for acetylene generators Part 4 Medium pressure stationary of water-to-carbide and 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
26	Reviewed In : 2007	Inspection Courses for Checking Type 1 Size 2 Taper Threads of Cos Cylinder Values Taper 1 in
26	IS 9121:2005	Inspection Gauges for Checking Type 1 Size 2 Taper Threads of Gas Cylinder Valves Taper 1 in

1		Reviewed In: 2010	16
ſ	27	IS 9199:1979	Inspection Gauges for Checking Type 3 Taper Threads of Gas Cylinder Valves Taper 6 Included
		Reviewed In: 2007	Angle
ſ	28	IS 9687:1980	Inspection Gauges for Checking Type 1 Size 1 Taper Threads of Gas Cylinder Valves Taper 1 in
1		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	
	Reviewed In: 2024 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 11120:2015	GAS CYLINDERS REFILLABLE SEAMLESS STEEL TUBES OF WATER CAPACITY	
	ISO 11120 : 2015	BETWEEN 150 L AND 3 000 L DESIGN CONSTRUCTION AND TESTING	
7	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	
8	IS 12300:2024	Gas Cylinder Valves for Small Refrigerant Cylinders -Specification First Revision	
9	IS 12586:2021	Brazed low carbon steel gas cylinders not exceeding 13 litre water capacity Specification	
	ISO 128-2:2022		
10	IS 13497:2017	Fusible plug for dissolved acetylene gas cylinder - Specification First Revision	
	Reviewed In: 2022		
11	IS/ISO 13985:2006	Liquid hydrogen - Land vehicle fuel tanks	
	Reviewed In: 2021 ISO		
	13985 : 2006		
12	IS 14899:2014	Liquefied petroleum gas LPG containers for automotive use - Specification First Revision	
	Reviewed In: 2025 ISO		
	20826 : 2006		
13	IS 15100:2018	Multi - Function valve assembly for permanently fixed liquefied petroleum gas LPG containers for	
	D : 11 0000 TH	automotive use - Specification First Revision	
	Reviewed In: 2023 UN		
	Regulation No. 67, AS/NZS		
	1425, IEC 68-2-52, ISO		
1.4	1817		
14	IS 15490:2017	Seamless steel cylinders for on - Board storage of compressed natural gas as a fuel for automotive	
	Davies 11 - 2022 ICC	vehicles - Specification First Revision	
	Reviewed In : 2022 ISO		
	11439 : 2013, ISO 9809-1 :		
1.5	2010	Walded stainless steel culinders for liquefied natural array and LDC from 0.5 literate 250 literate	
15	IS 15637:2006	Welded stainless steel cylinders for liquefied petroleum gases LPG from 0 5 litre to 250 litre water	
	Reviewed In: 2025 AS	capacity - Specification	
16	2469, AS 2470, EN 14140	Defillable transportable complete aluminium allere are rediction. Consideration Electron	
16	IS 15660:2017	Refillable transportable seamless aluminium alloy gas cylinders - Specification First Revision	
1	1		

	Reviewed In : 2022 ISO 7866 : 2012	
17	IS 15894:2018	Inspection gauges for checking taper threads of gas cylinder valves and cylinder necks - Taper 1 in 16 on diameter - Specification First Revision
	Reviewed In: 2024	1
18	IS 15935:2021	Composite Cylinders for On-Board Storage of Compressed Natural Gas CNG as a Fuel for Automotive Vehicle - Specification First Revision
19	IS 16280:2021 ISO/IEC/IEEE 42020 : 2019	High Pressure Regulators and Adaptors for Use with Liquefied Petroleum Gases LPG Specification First Revision
20	IS 16484:2017  Reviewed In : 2022 ISO 15995:2006, EN 13175:2003, ANSI/CGA	Liquid off - Take valve fitting to gas cylinders or tanks Mobile Or Static for liquid petroleum gas  LPG - Specification
21	V-1 IS 16485:2020 ISO 16852 : 2016 Reviewed In : 2024	Flame Arresters Performance Requirements Test Methods and Limits for Use First Revision
22	IS 16507:2017	Transportable gas cylinders cascade - Specification
23	Reviewed In : 2022  IS 16646:2017  Reviewed In : 2022 ISO	Transportable refillable fully wrapped composite cylinders for liquefied petroleum gas LPG - Specification
24	11119-3 : 2013 IS 16735:2018	Cylinders for on - Board Storage of Compressed Gasesous Hydrogen and Hydrogen Blends as a
	Reviewed In : 2024 ISO/TS 15869:2009	Fuel for Automative Vehicles - Specification
25	IS 16742:2018 ISO 12991 : 2012 Reviewed In : 2023 ISO 12991:2012	Liquefied natural gas LNG - Tanks for on - Board storage as a fuel for automotive vehicles
26	IS 16988:2018  Reviewed In: 2024	Compressed natural gas cylinder valve integrated with solenoid operation Remotely Controlled for automotive use - Specification
27	IS 17613:2021 Reviewed In : 2025 ISO 21503: 2022	GAS CYLINDERS REFILLABLE WELDED ALUMINIUM ALLOY CYLINDERS DESIGN CONSTRUCTION AND TESTING
28	IS 18272:2023	Residual pressure valves and type testing of cylinder valves incorporating residual pressure device Specification
29	IS 18608:2024	CRYOGENIC VESSELS VALVES FOR CRYOGENIC VESSELS
30	IS 18719 (Part 1):2024 IS 18719 (Part 1): 2024/ ISO 21029-1: 2018	Cryogenic Vessels Transportable Vacuum Insulated Vessels of not More than 1 000 Litres Volum Part 1 Design Fabrication Inspection and Tests
31	IS 19060 (Part 1):2024	CRYOGENIC VESSELS - LARGE TRANSPORTABLE VACUUM-INSULATED VESSELS PART 1 DESIGN FABRICATION INSPECTION AND TESTING Modified Adoption of ISO 20421-1
32	IS 19138:2025	Welded Low Carbon Steel Containers above 250 Litre and not Exceeding 1 000 Litre Water Capacity for the Transport of LPG Specification
33	IS 3196 (Part 1):2013 Reviewed In : 2024 ISO 22991 : 2004	Welded low carbon steel cylinders exceeding 5 litres water capacity for low pressure liquefiable gases Part 1 cylinders for liquefied petroleum gases Lpg - Specification Sixth Revision
34	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 Revisio

35	IS 3196 (Part 4):2001 Reviewed In : 2021	Welded low carbon steel cylinders exceeding 5 litre water capacity for low pressure liquefiable gases - Specification Part 4 cylinders for toxic and corrosive gases
36	IS 3224:2021	Valve for compressed gas cylinders excluding liquefied petroleum gas LPG cylinders -  Specification fourth revision
37	IS 3710:1978 Reviewed In : 2020 BS 1736 AND BS 5355	Filling ratios for low pressure liquefiable gases contained in cylinders First Revision
38	IS 3745:2024	Yoke Type Medical Cylinder Valve with Pin Index Connection Third Revision
39	IS 4152:2011 Reviewed In : 2021 ISO 3500 : 2005	Seamless carbon dioxide cylinders for fire fighting purposes on boardship - Specification Third Revision
40	IS 5903:2025	Types of Safety Device for Gas Cylinders and Gas Cylinder Valves Second Revision
41	IS 7142:2025	Welded Low Carbon Steel Cylinders for Low Pressure Liquefiable Gases not exceeding 5 Litre Water Capacity - Specification Second Revision
42	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
43	IS 7285 (Part 1):2018  Reviewed In : 2022	Refillable seamless steel gas cylinders - Specification Part 1 normalized steel cylinders Fourth Revision
44	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
45	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
46	IS 8471:2003 Reviewed In : 2024	Acetylene generators - Requirements First Revision
47	IS 8737:2017 NONE Reviewed In : 2022 ISO 14245 : 2006	Valve Fittings for Use with Liquefied Petroleum Gas LPG of upto 250 litre Water Capacity - Specification Second Revision
48	IS 8776:2024	Valve Fittings for Use With Liquefied Petroleum Gas LPG Cylinders up to and Including 13 Litre Water Capacity - Specification Second Revision
49	IS 9122:2023	Inspection Gauges for Checking Type 2 Taper Thread of Gas Cylinder Valves Taper 3 in 25  Specification Second Revision
50	IS 9798:2013 Reviewed In : 2023 EN 12864 : 2001	Low pressure regulators for use with liquefied petroleum gas LPG - Specification Second Revision
51	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 TEMPEREI STEEL CYLINDERS AND TUBES WITH TENSILE STRENGTH GREATER THAN OR EQUAL TO 1 100 MPA