

➤ D. A. Cylinder Specification



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Mass Porosity	: 90-92% 22-
Mass Compression Strength	: kgf/Cm ² minimum
Axial Gap max	: 3 mm
Radial Gap max	: 1.0 mm
Volume Density	: 268 ml Ltrs.
Safety Space Capacity of	: 11%
Once continuous discharging	: 70% illed capacity
melting Temp. of Fusible plug	: $100 + 4 C$ $- 2 C$

Technical Specifications for Dissolved Acetylene Gas Cylinder

Model	Unit	BTPS 17.2 Ltr	BTPS 41.0 Ltr	BTPS 41.0 Ltr
Type	---	Three Piece Welded	Three Piece Welded	Seamless
Specification	---	IS 7312	IS 7312	IS 7312
Water Capacity	Ltrs	17.2 + 3% - 0%	41 + 3% - 0%	41 + 3% - 0%
Hydrostatic Test Pressure	kgf/cm ²	53	53	250
Pneumatic Leakage Test Pressure	kgf/cm ²	40	40	150
Max. Working Pressure	kgf/cm ²	16	16	16
Gas Capacity	kg	3.1	7	7
Outer Diameter	mm	258	258	232
Inner Diameter	mm	250	250	221 (Approx)
Nominal Wall Thickness	mm	4	4	5.6
Overall Height without Valve & Cap (Approx)	mm	470	960	1220
POROUS MASS				
Type		Monolithic Calcium Silicate Mass	Monolithic Calcium Silicate Mass	Monolithic Calcium Silicate Mass
Porosity	%	90-92	90-92	90-92
Crushing Strength (Minimum)	kgf/cm ²	22	22	22
Solvent		Acetone - CH ₃ COCH ₃	Acetone - CH ₃ COCH ₃	Acetone - CH ₃ COCH ₃
Tare Weight	kg	27	53	65
Valve Conforms to		IS 3224	IS 3224	IS 3224
Steel Used		IS 6240	IS 6240	IS 6240
Fusible Plug		Two Fusible Plug	Two Fusible Plug	N.A.
Scope of Supply: Dissolved Acetylene Cylinders with Monolithic Porous Mass, filled with Acetone, Saturated with gas, fitted with valve, fusible plugs and valve guard, surface metalized with zinc & painted, Certified by BIS and Approved by CCOE				

Three Piece Welded Dissolved Acetylene Gas Cylinders

Volume water capacity (Ltrs)	Gas Capacity (Approx) kg.	Inside diameter of the shell (mm)	Nominal thickness (mm)	Overall Height without Valve and Cap (mm)	Working Pressure (kgf/cm ²)	Test Pressure (kgf/cm ²)
17.2	3.1	250	4	470	16	53
41.0	7.0	250	4	960	16	53

Seamless Cylinders

Volume water capacity (Ltrs)	Gas Capacity (Approx)	Inside diameter of the shell (mm)	Nominal thickness (mm)	Overall Height without Valve and Cap (mm)	Working Pressure (kgf/cm ²)	Test Pressure (kgf/cm ²)
41.0	7.0	221	5.6	1220	16	250

Technical Specification for Refrigerant Gas Cylinder

Model	Unit	BTPS 5.6 ltr	BTPS 11.2 ltr	BTPS 25 ltr	BTPS 68 ltr	BTPS 13.6 ltr HT	BTPS 55.4 ltr HT	BTPS 68 ltr HT
Type		Two Piece	Two Piece	Three Piece	Three Piece	Two Piece	Three Piece	Three Piece
Specification		IS 3196 (Part 2)	IS 3196 (Part 2)	IS 3196 (Part 2)	IS 3196 (Part 2)	IS 3196 (Part 2)	IS 3196 (Part 2)	IS 3196 (Part 2)
Water Capacity	ltrs	5.6 +5% -0%	11.2 +5% -0%	25 +3% -0%	68 +3% -0%	13.6 +0.65ltr	55.4 +3% -0%	68 +3% -0%
Hydrostatic Test Pressure	kgf/ cm ²	50	50	50	45	70	70	70
Pneumatic Leakage Test Pressure	kgf/ cm ²	12	12	12	12	12	12	12
Maximum Working Pressure	kgf/ cm ²	33.33	33.33	33.33	27.88	46.67	46.67	46.67
Outer Diameter	mm	201.3	250	250	292	250	270	270
Inner Diameter	mm	195	250	250	292	250	270	270
Nominal Wall	mm	3.15	4	4	4	4	4	4
Overall Height/ Overall Height Without Valve &	mm	355	445	637	1135	486	1095	1313
Valve Confirms To		IS 3224	IS 3224	IS 3224	IS 3224	IS 3224	IS 3224	IS 3224
Steel Used		IS 6240	IS 6240	IS 6240	IS 6240	IS 15914	IS 15914	IS 15914
Gas Capacity Details								
R – 410a	kg	---	---	17	---	11.05	45.04	55.28
R – 32	kg	---	---	---	---	10.47	42.66	52.36
R – 404a	kg	3.80	7.62	17	---	9.25	37.67	46.24
R – 407c	kg	4.76	9.52	21.25	57.80	11.83	48.19	59.16
R – 22	kg	5.04	10.00	22.50	61.20	12.24	49.86	61.20
R – 134a	kg	5.15	10.30	23	62.56	12.51	50.97	62.56
R – 152a	kg	5.15	---	---	62.58	10.50	42.76	52.50
R – 600a	Kg	---	5.26	---	31.96	6.76	27.53	33.80
Scope of supply : Empty refrigerant gas cylinders fitted with valve/valve guard, Certified by BIS and Approved								