

BTP STRUCTURAL
INDIA PRIVATE LIMITED

**FUELLING THE REVOLUTION
TRANSFORMING YOUR
ENERGY NEEDS**

Product Catalogue



B.T.P. STRUCTURAL (I) PVT. LTD.

www.btpstructural.in

About us

Established in 1982 BTP Structural Pvt. Ltd. (BTPS) today is an ISO 9001:2015 company and one of the largest cylinder manufacturer in India, having an annual production capacity of around one million cylinders with manufacturing unit located in Belgaum (Karnataka). BTPS is a part of PATSON GROUP of companies which is a diversified group engaged in Infrastructure and IT.

BTPS is a leading supplier to leading public sector LPG marketing companies in India like Indian Oil Corporation Limited, Bharat Petroleum Corporation Limited and Hindustan Petroleum Corporation Limited and have so far supplied more than 5 million LPG cylinders to these companies. BTPS is also a leading manufacturer of Dissolved Acetylene (DA) and Refrigerant gas cylinders (RG).

BTPS has been manufacturing Welded & Seamless DA Cylinders since 1987 and today manufactures the widest range of Industrial cylinders for Refrigerant & Dissolved Acetylene gas.

Our cylinders are inspected/certified by Bureau of Indian Standards (BIS) and are approved by Chief Controller of Explosives, (CCOE) Govt of India.



Quality Policy

BTP Structural(I) Pvt. Ltd. is committed to emerge as a market leader in manufacturing and supply of safe and reliable gas cylinders for use with LPG, refrigerant gas and dissolved acetylene gas that meets the customers requirement with focus on total quality in all our activities.

We are also committed to comply ISO-9001 & all other applicable requirement and continually improve by enhancing competency of all personnel through training and adopting latest technology.

Certification & Standards



Bureau of Indian Standards



Department of Explosives



ISO 9001:2015

Our Product Range

- LPG Cylinders
- Dissolved Acetylene Cylinders
- Refrigerant Cylinders



> D. A. Cylinder Specification



D. A. Cylinder Specification

<i>Mass Porosity</i>	: 90-92%
<i>Mass Compression Strength</i>	: 22 kgf/Cm2 minimum
<i>Axial Gap max</i>	: 3 mm
<i>Radial Gap max</i>	: 1.0 mm
<i>Volume Density</i>	: 268 ml Ltrs.
<i>Safety Space Capacity of</i>	: 11%
<i>Once continuous discharging</i>	: 70% filled capacity
<i>melting Temp. of Fusible plug</i>	: 100°C + 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 Welded	Two Piece Welded	Three Piece Welded	Three Piece Welded	Two Piece Welded	Three Piece Welded	Three Piece Welded
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 -0	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	258	258	300	258	278	278
Inner Diameter	mm	195	250	250	292	250	270	270
Nominal Wall Thickness	mm	3.15	4	4	4	4	4	4
Overall Height/ Overall Height Without Valve & Cap (Approx)	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 by CCOE								

BTP STRUCTURAL

INDIA PRIVATE LIMITED

Registered Office

326/5, Poona Bangalore Road,
Belgaum 590 003.
Ph. : (0831) 4219300, 4219344
Email : btpsbelgaum@gmail.com

Factory

138-B, 140 to 143, Machhe Industrial Estate,
Jamboti Road Machhe, Belgaum 590 014.
Karnataka, INDIA.
Ph. : (0831) 2411018, 2405154
Email : btpsbelgaum@gmail.com

For Details Contact:

+91 9901789222 / 9008209555

www.btpstructural.in

