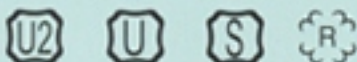


Model - B

ISGEC Ton Containers



Safety through Design. Safety through Quality.



Code Stamping For Specialized Equipment Only



An ISO 9001:2000 Company

ISGEC Ton Containers

Safety through Design. Safety through Quality.



- Australia
- Bangladesh
- Cambodia
- China
- Columbia
- Cyprus
- Ecuador
- India
- Indonesia
- Iran
- Iraq
- Jordan
- Kenya
- Kuwait
- Malaysia
- Malta
- Mauritius
- Nepal
- Nigeria
- Oman
- Peru
- Philippines
- Qatar
- Saudi Arabia
- Singapore
- Sri Lanka
- Syria
- Thailand
- Turkey
- UAE
- Uganda
- USA
- Vietnam
- Yemen
- Zambia
- Zimbabwe

ISGEC is an ISO 9001:2000 approved company having ASME 'U2', 'U' & 'S' certifications as well as the National Board of USA 'R' & 'NB' certifications. We have been manufacturing & supplying Ton Containers for Chlorine & other liquefiable gases and Pressure Vessels for **over 40 years**.

ISGEC has supplied around **70,000 Containers and 3000 Pressure Vessels to 36 countries**.

Proof of our performance internationally is the **repeat orders** we have received from the USA, China, Japan, Malaysia, Philippines, Oman, Qatar, Saudi Arabia, Kuwait and Thailand.

ISGEC offers alternate models of Containers to suit the requirement of different customers. However, one thing that is common to each model is our uncompromising focus on Safety.



Mercury Adsorber Vessel, 157 mm thick, weighing 130 MT and ASME 'U2' Stamped, supplied to Petroleum Development, Oman.

• Safety through 100% X-Ray:



At ISGEC, we use the Fusion Welding process for all joints. This method enables us to establish the quality of the welded joints by **100% X-Ray** of all main joints, including the **Head to Shell Joint**.

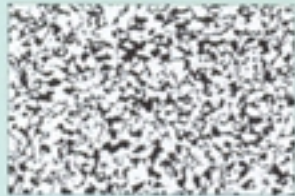


Such X-Rays further prove that all welds are sound

• Safety through Quality Material:

ISGEC Containers are made from **Boiler Quality Steel Plates** having the following material properties:

Ultimate Tensile Strength: 415-550 MPa
Yield Strength : 220 MPa



Microstructure



• Safety through Approval & Inspection:

The **design** of ISGEC Containers has been **approved by Lloyd's Register**.

ISGEC Containers are **inspected** at 15 stages of manufacture by **Lloyd's Register**.

Each ISGEC Container comes with a **Lloyd's test certificate** which is provided to the customer without any extra cost. Certification by other inspection agencies can also be provided.

		Certificate No: NMR0104662/10
		Page 1 of 1
Client: The Indian Register & General Engineering Corporation, Yamanagar, India	Order: New Order	
Certificate Number: Request Signed Date 04 March 2007	Issue: 06 October 2007	
Expiry Date: 03 May 2009	Issue: 06 October 2007	
This certificate is issued by The Indian Register & General Engineering Corporation, Yamanagar, India to certify that the undersigned firm has submitted their Yamanagar works to and before the above date for the purpose of inspection of the undermentioned item as per Indian Register YIGEC Corporation, Philippines, purchase order number 14377-07 dated 08 January 2007, in accordance with the Terms of Inspection attached hereto.		
Item Description: Single Cylinder (Cylinder Container)		
Serial Number: GC/286/08		
Drawing Number: P/01-008 Sheet 1 of 1 Revision 0		
Code of Construction: IS 1501-1988 Part 1, Class 2 with head to suit joint as per Indian Register Office Report 1984.		
Scope of Inspection <ol style="list-style-type: none"> 1. Approval of fabrication drawings to ensure that materials, materials and fabrication details meet the specification requirements for the stipulated design pressure and temperature conditions. 2. Examination of material of construction, identification with material test certificate and marking test certificate for compliance with the relevant specifications. 3. Ensuring that the relevant test procedures and similar performance qualifications are in accordance with the stipulated specification requirements. 4. Witness of test on grade test until complete as per specification requirements. 5. Inspection during fabrication of the pressure vessel to ensure compliance with specification requirements. 6. Examination of radiographs including radiography technique. 7. Review of post weld heat treatment procedures and charts. 8. Witness of hydrostatic test as per IS 1501-1988 Part 1, Class 2 with head to suit joint as per Indian Register Office Report 1984, using water as test medium. 9. Visual examination of complete container and verification of marking. 10. Review and endorsement of manufacturer's data report. 		
Identification For identification details refer manufacturer's data report attached herewith.		
In the basis of the above scope of inspection, the item has found to comply with the specification requirements.		
For use of Lloyd's Register and C. S. Nayak Partners to Lloyd's Register		
THIS DOCUMENT IS SUBJECT TO THE PROVISIONS OF THE AGREEMENT		

• Options:

ISGEC manufactures Containers that are tailor-made to Customer's requirements so as to make them compatible with existing filling and emptying stations, lifting arrangements and safety kits.

The modification includes:

- Removable Dip Pipes
- Rolling Hoops
- Additional Fusible Plugs
- Valves mounted on hand hole cover
- Zinc Coating on External Surface
- Variety of Paints

• Other ISGEC Container Models:



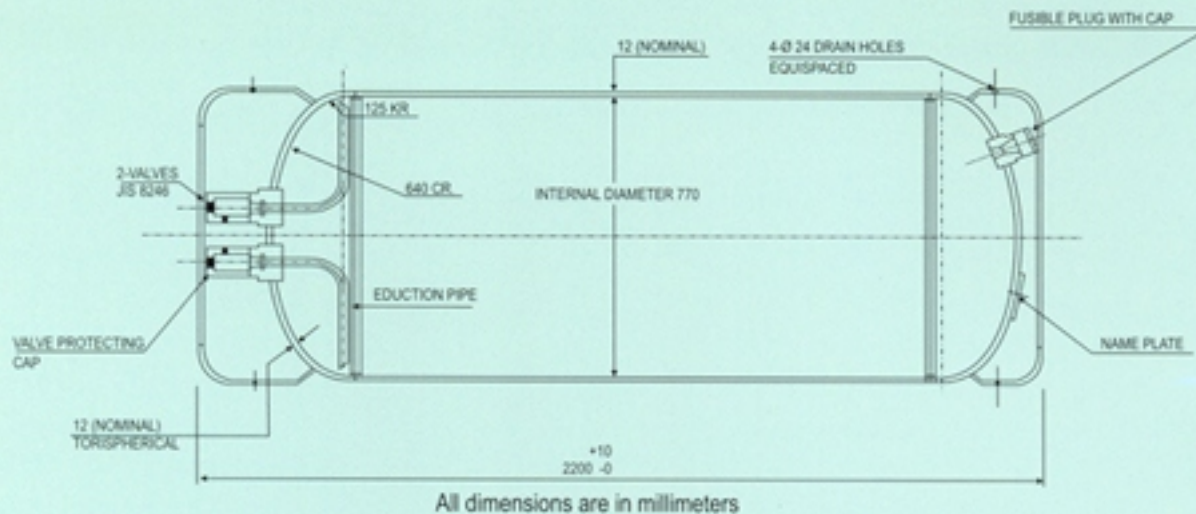
MODEL - A



MODEL - D



MODEL - E



Sketch of a 1000 Kg capacity Model 'B' ISGEC Chlorine Container

Specifications

Design Code	: BS -1500 Part 1 or ASME Sec.VIII Div.1
Design Pressure	: 19.9 Kgf/cm ² (g) (283 PSIG)
Design Temperature	: 65 deg. C (149 deg. F)
Material of Construction for Heads & Shells	: SA 516 Grade 60 or SA 285 Grade C or equivalent
Corrosion Allowance	: 1.5 mm (minimum)
Longitudinal Shell Joint & Head to Shell Joint	: Fusion Welded
Radiography	: 100% of all Butt Welded Joints
Post Weld Heat Treatment	: Yes
Hydraulic Test Pressure	: 38.8 Kgf/cm ² (g) for SA 516 Grade 60
Cleaning	: By Grit Blasting
Painting	: Golden Yellow
Design Approval	: (a) Lloyd's Register (b) Chief Controller of Explosives (India)
Inspection	: Lloyd's Register
Tare Weight	: 675 Kgs (Approx.) (1488 lbs)
Water Capacity	: 840 Kgs (Approx.) (1852 lbs)
Chlorine Capacity	: 1000 Kgs (Approx.) (2205 lbs)

Standard Accessories

- Two Brass Valves conforming to JIS-8246 specifications
- Two Valve Protection Caps of SA-106 Gr.B or equivalent material
- Three Brass Fusible Plugs conforming to JIS-8246 specifications
- Three Fusible Plug Protection Caps of SA-106 Gr.B or equivalent material

Optional Accessories

- Valves, Couplings and Fusible Plugs conforming to 3/4" NGT CL 1 of ANSI B-57.1 or BS 341 Part 1 (1 inch)

Containers for Liquefiable Gases

ISGEC manufactures Containers for the transportation and storage of the following liquefiable gases:

- Ammonia
- Chlorine
- Dimethylamine
- Ethyl Chloride
- Ethylene Oxide
- Freon
- Hydrogen Fluoride
- Methyl Bromide
- Methyl Chloride
- Monomethylamine
- Sulphur Dioxide
- Trimethylamine
- Vinyl Chloride



An ISO 9001:2000 Company

Sales Office & Works: ISGEC, Yamunanagar – 135 001 (Haryana), India
Tel.: +91-1732-237363, 237365 Fax : +91-1732-250250, 250991 E-mail : pvd@isgrec.com
Corporate Office: ISGEC, A-4, Sector 24, Noida – 201 301, India

www.isgrec.com

Specifications given in this brochure are subject to change, without any prior notice

PVD/CC/B0105/01/TP