



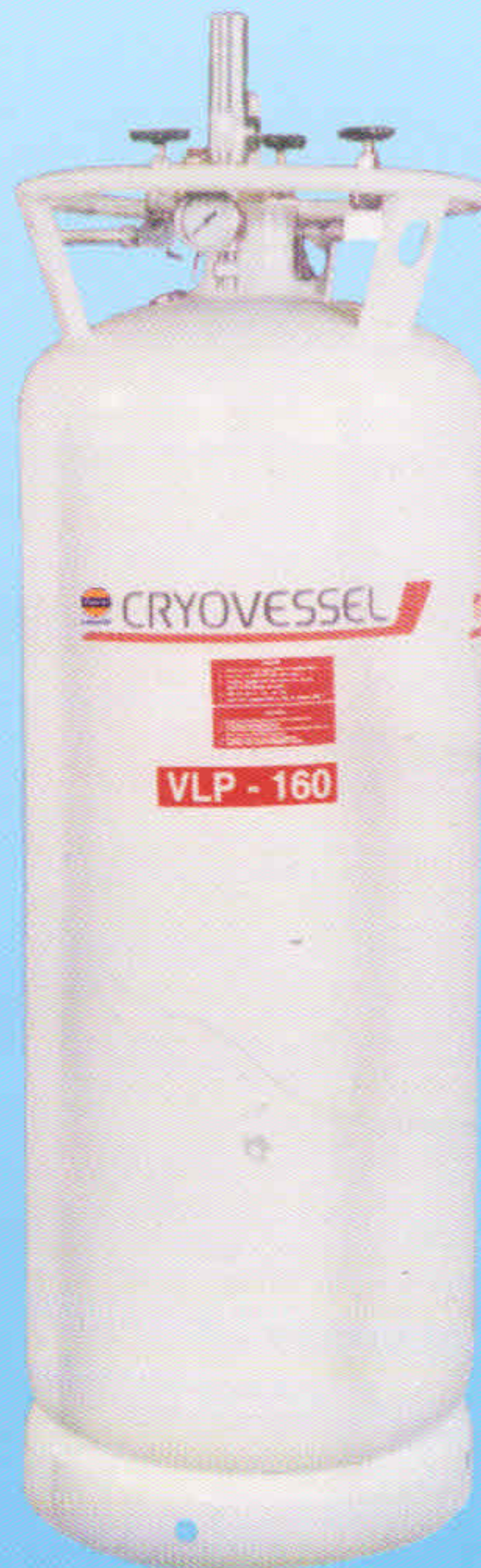
**IndianOil**

**Indian Oil Corporation Limited**

**IBP Division**

Business Group (Cryogenics)

**RELIABLE AND ECONOMICAL**



**SUPER INSULATED  
CRYOVESSEL**

## CRYOVESSEL - VERTICAL SERIES - SPECIFICATIONS

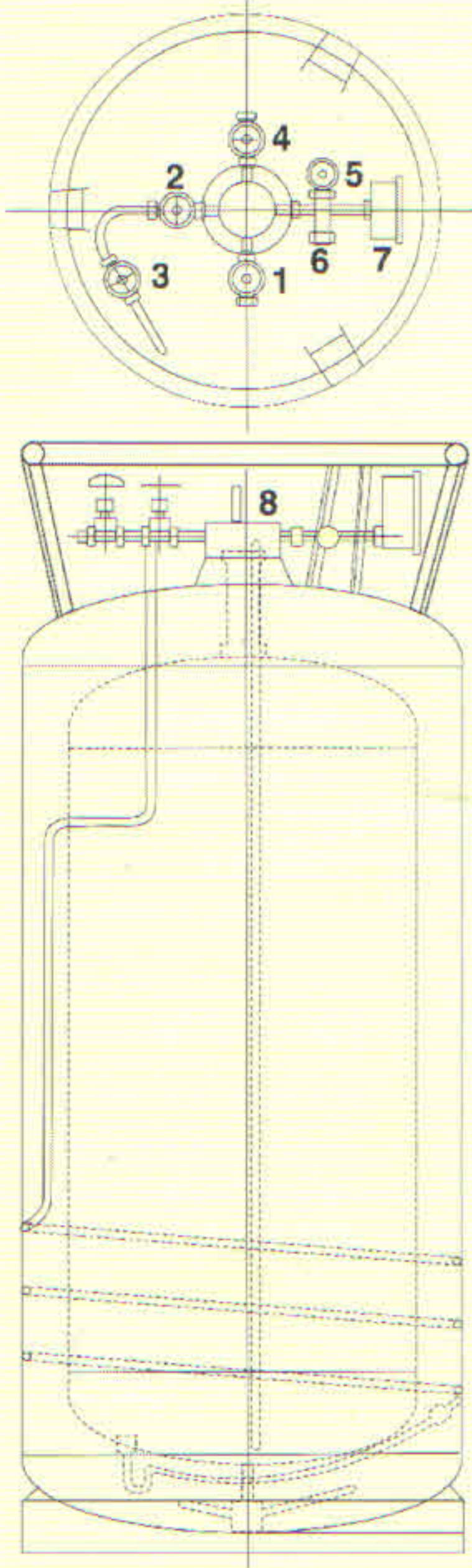
**Indian Oil Corporation Limited (IOCL)**, IBP Division's Cryovessel is India's most efficient cryogenic vessel as it has the lowest evaporation loss rate due to super insulation and high vacuum. Our considerable experience in this field ensures trouble free service.

**Applications :** The self-pressurizing Cryovessel is ideally suited for storage and distribution of cryogenic gases like liquid Nitrogen/Argon and form an important accessory in several industrial, research and biological applications like cryosurgery, shrink fitting, high vacuum systems and environmental test chambers.

CRYOVESSEL				
Sr.No	Model	VLP 110	VLP 160	VLP 220
1.	Net capacity in litres	110	160	220
2.	Gross capacity in litres	121	180	230
3.	Overall length in mm	1375	1675	1725
4.	Outer diameter in mm	516	516	650
5.	Empty weight in kgs.	100	125	180
6.	Full weight in kgs. for LN <sub>2</sub>	189	254	358
7.	Pressure (MAWP) Kg./cm <sup>2</sup> (g)	3	3	3
8.	Static evaporation loss rate per day for LN <sub>2</sub> as %	3.2	2.2	1.8
9.	Material of construction for Inner and Outer	SS304	SS304	SS304

**Notes :** 1. Specifications subject to change without notice in view of continuous improvement in design. 2. Static evaporation loss rate may vary according to atmospheric conditions. 3. Higher operating pressure of 7.5kg/cm<sup>2</sup> for VLP110/VLP160 and operating pressure of 6 kg/cm<sup>2</sup> for VLP220 available on request

### SCHEMATIC LINE DIAGRAM



**Features :** ● Pressure building regulator for automatic pressure regulation at preset level. ● Dual pressure relief valves / burst disc fitted for extra protection. ● Easy to read level gauge. ● Trolley available as an option. ● For Oxygen service, containers available on request.

#### VLP - 110 / 160 / 220

1. Liquid in/out valve.
2. Pressure building valve.
3. Pressure building regulator.
4. Vent valve.
5. Safety valve.
6. Rupture disc.
7. Pressure gauge.
8. Level gauge.



### Indian Oil Corporation Limited

IBP Division, Business Group (Cryogenics)

A-4, MIDC Industrial Area, Ambad, Nashik 422 010.

Phone : (0253) 2381333, 2382032, 2382132, 2382096 Fax : (0253) 2382362

E-mail : cryoinfo@indianoil.in