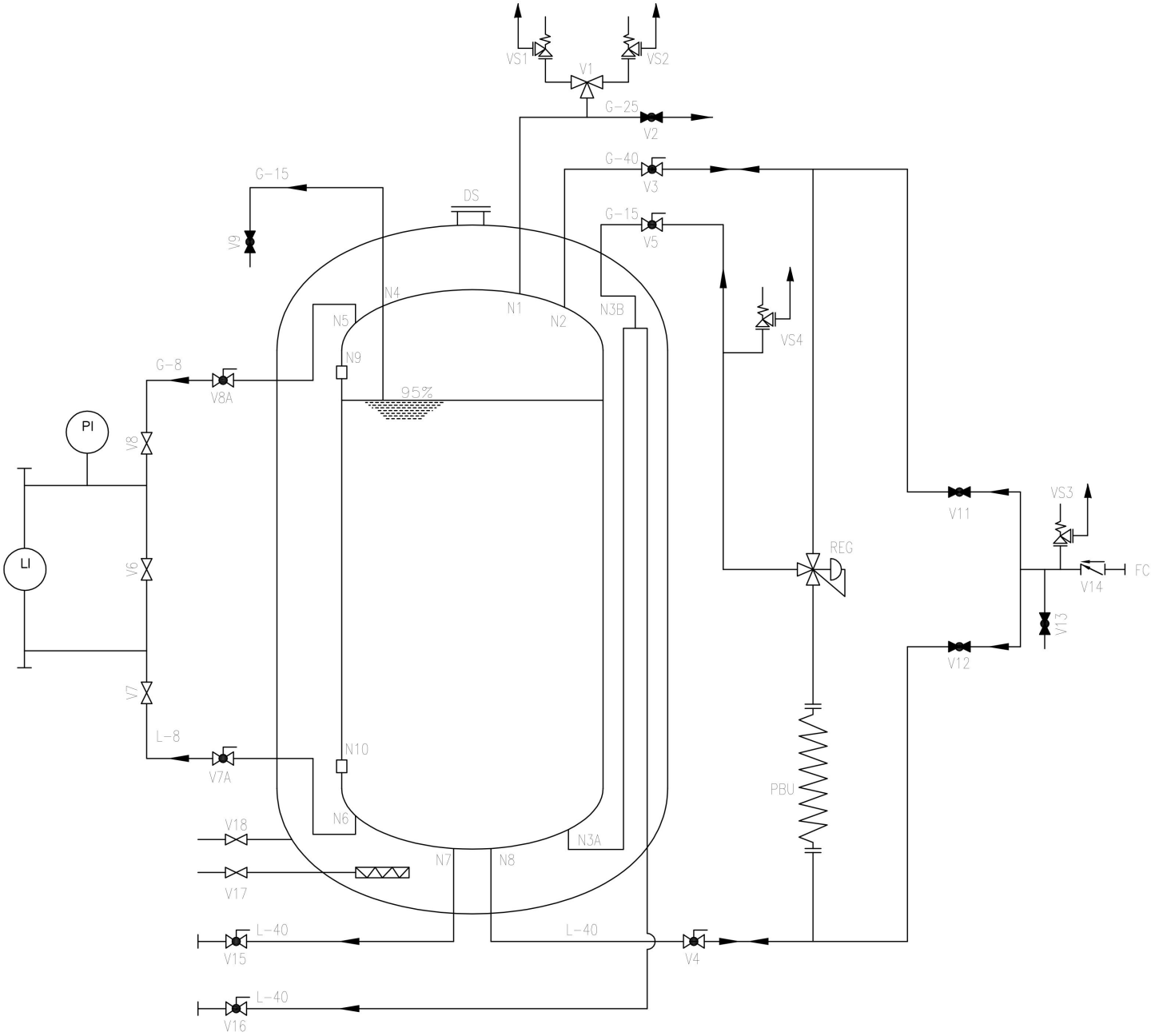


## NOZZLE DATA

| MARK | SERVICE | SIZE (DN) |
|---|---|---|
| N1 | SAFETY LINE | 25 |
| N2 | TOP FILLING LINE / VAPOUR LINE | 40 |
| N3A | LIQUID WITHDRAWAL LINE | 40 |
| N3B | ECONOMIZER LINE | 15 |
| N4 | TRY COCK LINE | 15 |
| N5 | LEVEL GAUGE LINE | 8 |
| N6 | LEVEL GAUGE LINE | 8 |
| N7 | LIQUID WITHDRAWAL LINE | 40 |
| N8 | BOTTOM FILLING LINE / LIQUID LINE | 40 |
| N9 | VENT | 40 |
| N10 | DRAIN | 40 |

## VALVE DATA

| TAG MARK | DESCRIPTION | SIZE (DN) |
|---|---|---|
| V1 | DIVERTER VALVE | 20 |
| VS1, VS2 | SAFETY RELIEF VALVE | 1/2"x1" |
| VS3, VS4 | LINE SAFETY VALVE | 1/2" |
| V2 | VENT VALVE | 25 |
| V3, V11 | FILLING VALVE GAS PHASE | 40 |
| V4, V12 | FILLING VALVE LIQUID PHASE | 40 |
| V5 | PBU RETURN VALVE | 15 |
| V6 | LEVEL GAUGE ISOLATION VALVE | 8 |
| V7 | LEVEL GAUGE LIQUID PHASE VALVE | 8 |
| V8 | LEVEL GAUGE GAS PHASE VALVE | 8 |
| V7A, V8A | LEVEL GAUGE GAS, LIQUID PHASE ISOLATION VALVE | 8 |
| V9 | TRYCOCK VALVE | 15 |
| V13 | PURGE VALVE | 10 |
| V14 | FILLING LINE NON RETURN VALVE | 25 |
| V15 | AUXILIARY LIQUID WITHDRAWAL VALVE | 40 |
| V16 | LIQUID WITHDRAWAL VALVE | 40 |
| V17 | VACUUM PUMP VALVE | 40 |
| V18 | VACUUM GAUGE VALVE | KF10 |
| REG | REGULATOR | 1/2" |
| PBU | PRESSURE BUILD UP COIL | – |
| LI | LEVEL GAUGE | – |
| PI | PRESSURE GAUGE | – |
| DS | VACUUM JACKET SAFETY DISC | 150 |
| FC | FILLING CONNECTION | 40 |

| REV. NO. | DATE | REVISED BY | REVISION | SR. NO. | REFERENCE DRAWING | REV. NO. |
|---|---|---|---|---|---|---|

TITLE:
P & I DIAGRAM FOR CRYOGENIC VESSEL
COLD GAS CONVERTER FOR LIN\LOX\LAR\LCO2

FOR APPROVAL DATE : 22/07/2020
FOR MANUFACTURE DATE :
AS BUILT DATE :

OPTECH ENGINEERING PVT. LTD.
B–615, Lodha Supremus II, Road No.22
Next to New Passport Office, Wagle Estate,
Thane 400 604, Maharashtra, India.
Phone: +91– 8291856261,
Website:www.optechengineering.com
E–mail : tnb@optechengineering.com

CAD FILE NAME: OPTECH–CRYOGENIC–05–20–1181

| | | |
|---|---|---|
| DRAWN BY : | PRATIKSHA | 22/07/2020 |
| CHECKED BY : | TRISIT | 22/07/2020 |
| APPROVED BY : | SIDDHARTHA | 22/07/2020 |

PROJECT : –
–
INSTALLER : OPTECH ENGINEERING PVT.LTD.
CLIENT : –
–
P.O.NO. : –
JOB NO. : –
SCALE : NTS
DWG. NO. OPTECH/CRYOGENIC/05/20/1181 –
REV. 0

OPTECH ISO 9001