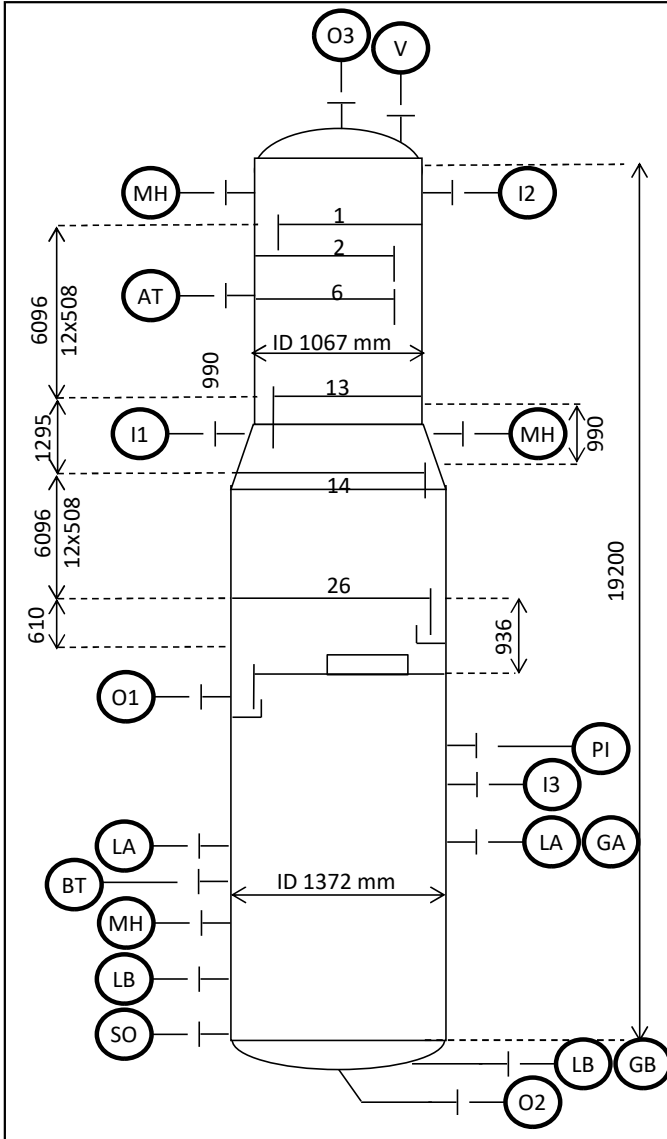


Design case IR 2018

Company:	Ancap
Unit:	R2R - Vapor recovery
Item:	403-E
Service:	Debutanizer

General Arrangement



Operating Conditions			Temperature	°C	182
			Pressure	kg/cm2 g	12.0
Design Conditions	(1)	Temperature	°C	250	
		Pressure	kg/cm2 g	15.5	
	(2)	Temperature	°C		
		Pressure	kg/cm2 g		
Number of trays			26		
Heads profile			Elliptical		
Insulation			Yes		
	Materials		Corrosion allowance		
Shell		Carbon steel	3.2 mm		
Internals					
Trays					
CONNECTIONS NOMENCLATURE					
Mark	Qty	Size	Elevation	Service	
I1	1	6"	11379	Feed Inlet	
I2	1	4"	18962	Reflux Inlet	
I3	1	14"	2586	Reboiler Return	
O1	1	10"	3067	Reboiler Inlet	
O2	1	6"	-687	Liquid Outlet	
O3	1	8"	19645	Vapor Outlet	
MH	3	20"		Manhole	
V	1	1 1/2"	19581	Vent	
SO	1	1 1/2"	153	Utility connection	
PI	1	1 1/2"	4270	Pressure Control	
AT	1	1 1/2"	15977	Thermowell	
BT	1	1 1/2"	153	Thermowell	
LA	1	1 1/2"	1625	Level Control (SM)	
LB	1	1 1/2"	178	Level Control (SM)	
GA	1	2"	2650	Level Gauge (5) (6)	
LA	1	3/4"	2650	Level Control (5) (6)	
GB	1	2"	-500	Level Gauge (5) (6)	
LB	1	3/4"	-500	Level Control (5) (6)	

Notes

(1) Engineering to confirm/modify
(2) Subject to steamout conditions
(3) Tray vendor to confirm/modify trays configuration. Refer to Tray loading datasheet
(4) Distributors by Tray Vendor
(5) Level Gauges and transmitters are connected to a single 2" nozzle in the vessel.
(6) 2" stand pipe to be connected to Level Gauges and Transmitters by valve.