



GENERAL NOTES

- A. THIS TYPICAL P&ID SHOULD BE READ IN CONJUNCTION WITH
LEGEND: VOPA STANDARD P&ID SYMBOLS
- B. ALL UTILITY HOSE COUPLING CONNECTIONS SHALL BE WITH CAP
ALL PRODUCT HOSE COUPLING CONNECTIONS SHALL BE FLANGED
- C. TAG NUMBERING OF EQUIPMENT,
INSTRUMENTS AND LINES IS SPECIFIC FOR TANK TK-101-01

B	05/02/11	IMU	HG	RJA	TAG
A	01/28/11	IMU	HG	RJA	TAG
Rev.	Date	Design	Chkrt	PE/PA	Dept.
JACOBS			QA/QC APPROVAL		

NOTES

2. S3, Side suction nozzle, used for normal suction and filling at full flow rate when level in tank is 100mm above side suction pipe.
2. S4, Centre suction, used for first filling tank to minimise splash filling, and for stripping.
3. No foam nozzle to be installed.
4. Thermal relief valve to relieve tank lines to tank, handvalves to isolate Double isolation valve between tank and TRV for testing. TRV is set between max. operating pressure and design pressure of pipe line pipe line/take into account cascading systems.
5. S6. Venting line, used to vent air from tankline to ensure tankline product full.
6. Blowing point to blow product/water from tank side to pump room
8. Removable elbows for flushing and positive isolation
9. Mixer nozzles installed as low as possible (S1C/D/E).
10. Air Sparging (S20).
12. Pushing ESD button will stop all pumps and mixers, and close all valves in the same area.
15. S2, Water draw-off.
16. Wear plate.
17. Dip plate.
18. Tank leak detection sump is a 10" GRP pipe fitted with bottom cover plus removable top cover.
21. Valve pit

B	05/02/11	BMU	HG	FOR APPROVAL
A	01/28/11	BMU	HG	FOR REVIEW
ISSUE	DATE	DRAWN	CHECKED	DESCRIPTION

Piping and Instrumentation Diagram
Typical Tank-unit 101 Fuel Oil Tank with Goodrich Dome Roof

Typical Tankris 10' Fuel Oil Tank with Geodesic Dome Roof					
SCALE	-/-	DATE	FORMAT	ARCH.NR.	HEET
BRAUN BMU	11/30/10		A1	DRAWINGNR LB9115/P.01/1001	OF 1
CHECKED MG					ISSUE B