



DESIGN SPECIFICATION

DESIGN CODE		ASME. SECT. VIII DIV.1, 1998 ED.	
DESIGN PRESSURE	17.6	kg/cm ² (g)	AT 50 °C
OPERATING PRESSURE	-	kg/cm ² (g)	AT - °C
HYDRO. TEST PRESSURE AT SHOP/SITE (VER)	-	kg/cm ² (g)	AT - °C
HYDRO. TEST PRESSURE AT SHOP/SITE (HARR.)	26.4	kg/cm ² (g)	AT AMBIENT TEMP.
MAX. ALLOWABLE WORKING PRESSURE (MAWP)	17.6	kg/cm ² (g)	AT 50 °C
MIN. DESIGN METAL TEMPERATURE (MDMT)	N/A	°C	
IMPACT TEST	NO	RADIOGRAPH	SHELL FULL / HEAD SPOT
CORROSION ALLOWANCE	1.0	mm.	POSTWELD HEAT TREATMENT(PWHT) : NO
WIND LOAD	N/A	mph.	SEISMIC ZONE : N/A
JOINT EFFICIENCY	SHELL 1.00 HEAD 0.85	WEIGHT	FABRICATED 11,850 kgs. OPERATING 32,874 kgs. TEST 56,415 kgs.
HEAD TYPE	HEMISPHERICAL	INSULATION	NONE
CONSTRUCTION CATEGORY	N/A	FIRE PROOF	NONE
MATERIAL SPECIFICATION			
SHELL / HEAD	JIS G3115 SPV 355	GASKET	SEE NOTE 4
FLANGE	A516 GR.70N/A105	HEX. STUD BOLT/NUT	A193 B7/A194-2H
NOZZLE NECK	API 5L GR.B	OTHERS	JIS G3101 SS400
COUPLING	A 105		
PAINTING SYSTEM			
EXTERNAL			
SAND BLASTING	SA 2.5		
PRIMER COAT	ZINC RICH PRIMER	1 x 60	µm.
INTERMEDIATE COAT	EPOXY UNDERCOAT	1 x 60	µm.
TOP COAT	POLYURETHANE	2 x 35	µm.

NOZZLE SCHEDULE

MARK	SERVICE	SIZE	Q'TY	NOZZLE NECK		FLANGE/COUPLING			REMARK
				SCH.	MATERIAL	TYPE	RATING	MATERIAL	
A	LIQUID INLET	2"	1	-	-	STUDDING FLG.	20K	A105	W/PIPE
B	LIQUID OUTLET	2"	1	-	-	STUDDING FLG.	20K	A105	
C	VAPOUR RETURN	2"	1	-	-	STUDDING FLG.	20K	A105	W/PIPE
D	DRAIN	1 1/4"	1	-	-	HALF COUP.	6000#	A105	W/PLUG
G1	ROTOR GAUGE	1"	1	-	-	HALF COUP.	6000#	A105	
G2	FIXED LIQUID	1/4"	1	-	-	FULL COUP.	6000#	A105	W/PIPE
P	PRESSURE GAUGE	1/4"	1	-	-	FULL COUP.	6000#	A105	W/PIPE
R1,2	SAFETY RELIEF VALVE	2 1/2"	2	-	-	FULL COUP.	6000#	A105	
T	THERMOMETER	1/2"	1	-	-	FULL COUP.	6000#	A105	W/PIPE
V1	VAPOUR OUTLET	2"	1	-	-	STUDDING FLG.	20K	A105	W/PIPE
V2	SPARE	2"	1	-	-	STUDDING FLG.	20K	A105	W/BLIND
M	MANHOLE	18"	1	40	API 5L Gr.B	SO.RF.	20K	A105	W/BLIND