



DESIGN SPECIFICATION

DESIGN CODE	: ASME. SECT. VIII DIV.1, 1989 ED.		
DESIGN PRESSURE	: 17.6 kg/cm ² (g) AT -20 to 340 °C		
OPERATING PRESSURE	: - kg/cm ² (g) AT - °C		
HYDRO. TEST PRESSURE AT SHOP/SITE (HORR.)	: 26.4 kg/cm ² (g) AT AMBIENT TEMP.		
M.T.(P.T.)	: N/A	RADIOGRAPH : SHELL FULL / HEAD FULL	
CORROSION ALLOWANCE	: 1.0 mm.	POSTWELD HEAT TREATMENT(PWHT) : NO	
		INSULATION : N/A	
JOINT EFFICIENCY	: SHELL 1.00 HEAD 1.00	WEIGHT	: FABRICATED 20,651 kgs. OPERATING 60,705 kgs. TEST 105,511 kgs.

MATERIAL SPECIFICATION			
SHELL / HEAD	JIS G3115 SPV 36	GASKET	VALQUA V"-1500
FLANGE	JIS G3101,SS400	HEX. STUD BOLT/NUT	A193 B7/A194-2H
NOZZLE NECK	SPV-36 OR SA106 Gr.B	OTHERS	JIS G3101 SS400
COUPLING	A 105		

PAINTING SYSTEM			
EXTERNAL			
SAND BLASTING	: SA 2.5		
PRIMER COAT	: ZINCRICH EPOXY PRIMER	1x70 MICRONS	DFT.
INTERMEDIATE COAT	: POLY MIDE EPOXY MICACEOUS IRON OXIDE	1x70 MICRONS	DFT.
TOP COAT	: POLY URETHANE FINISH	2x60 MICRONS	DFT.

NOZZLE SCHEDULE

MARK	SERVICE	SIZE	Q'TY	NOZZLE NECK		FLANGE/COUPLING			REMARK
				SCH.	MATERIAL	TYPE	RATING	MATERIAL	
A1	LIQUID INLET	2"	1	80	SA106 Gr.B	SO.RF.	20K	JIS G3101	
A2	PUMP RETURN	1½"	1	80	SA106 Gr.B	SO.RF.	20K	JIS G3101	
B	LIQUID OUTLET	2"	1	80	SA106 Gr.B	SO.RF.	20K	JIS G3101	
D	DRAIN	1¼"	1	80	SA106 Gr.B	SO.RF.	20K	JIS G3101	W/BLIND
E	SPARE	1"	1	80	SA106 Gr.B	SO.RF.	20K	JIS G3101	W/BLIND
G1	LEVEL GAUGE	1"	1	-	-	HALF COUP.	3000#	A105	ROTO GAUGE
M	MANHOLE	18"	1	t12	JIS G3115 SPV 36	SO.RF.	20K	JIS G3101	W/BLIND
P	PRESSURE GAUGE	¼"	1	80	SA106 Gr.B	FULL COUP.	3000#	A105	
S	SAFETY RELIEF VALVE	3"	1	80	SA106 Gr.B	SO.RF.	300#	JIS G3101	SMALL TONGUE FACING
V1	VAPOR RETURN	1"	1	80	SA106 Gr.B	SO.RF.	20K	JIS G3101	
T	TEMPERATURE GAUGE	½"	1	80	SA106 Gr.B	FULL COUP.	3000#	A105	
G2	FIXED LIQUID AT 85%OF VOLUME	¼"	1	80	SA106 Gr.B	FULL COUP.	3000#	A105	
V2	VAPOR OUTLET	2"	1	80	SA106 Gr.B	SO.RF.	20K	JIS G3101	
LT	LEVEL INDICATOR/SWITCH	2"	1	80	SA106 Gr.B	SO.RF.	300#	A105	
LG1	LEVEL GAUGE/TRANSMITTER	2"	1	80	SA106 Gr.B	SO.RF.	300#	A105	
LG2	LEVEL GAUGE/TRANSMITTER	2"	1	80	SA106 Gr.B	SO.RF.	300#	A105	