

STRENGTH CALCULATION SHEET	Document No.	Rev.	Page
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1. DESIGN CONDITION

1-1 Data sheet

No.	DESCRIPTION	DESIGN DATA		참고사항	
1	APPLICATION CODE(적용규격 코드)	KS B 6750 & ISHL			
2	VESSEL TYPE(압력용기 타입)	VERTICAL			
3	FLUID(사용유체)	AIR or N ₂			
4	DESIGN PRESSURE(설계압력)	INTERNAL	0.98	Mpa	10.0 kgf/cm ²
		EXTERNAL	0	Mpa	
5	OPER. PRESSURE(사용압력)	0.88	Mpa	9.0 kgf/cm ²	
6	DESIGN TEMPERATURE(설계온도)	INTERNAL	60	°C	
		EXTERNAL	-	°C	
7	OPER. TEMPERATURE(사용온도)	INTERNAL	40	°C	
8	HYDRO. TEST PRESSURE(수압시험 압력)	1.30	Mpa	13.3 kgf/cm ²	
9	PNEU. TEST PRESSURE(공기압시험 압력)	N.A	Mpa		
10	HEAD TYPE (경판형상)	2 : 1 ELLIPSOIDAL HEAD			
11	RADIOGRAPHIC EXAMINATION(S/H) 비파괴 검사	SPOT	N.A / N.A		
		FULL	N.A / N.A		
12	JOINT EFFICIENCY (S/H) (용접효율)	0.7	/		0.85
13	PWHT(후열처리)	N.A			
	IMPACT & THERMAL LOAD, ETC	N/A			
14	CORROSION ALLOWANCE(부식여유)	0.0	mm		
15	SHELL INSIDE DIAMETER(동체내경)	710	mm		
16	M. A. W. P.	NEW & COLD	-		-
		HOT & CORR.	-		-
17	LOCATION	INDOOR			
18	WEIGHT(무게)	ERECTION	155		Kg
		OPERTING(사용)	155	Kg	
		FULL WATER(수압)	750	Kg	
19	METERIAL (재질)				
	- SHELL & HEAD	STS304	127 / 127	N/mm ²	
	- NOZZLE PIPE	STS304TP	110	N/mm ²	
	- NOZZLE FLANGE	STS304	110	N/mm ²	
	- SUPPORT(SKIRT)	SS400	100	N/mm ²	
	- EXT. BOLT /NUT	STS304	110 / 110	N/mm ²	
	- LIFTING LUG	SS400	100	N/mm ²	
- GASKET	NON-ASBESTOS				

HYDRO. TEST PRESSURE: $P \times 1.3 \times \frac{130}{127} = 1.30 \text{ Mpa}$

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1-2. Layout Drawing

