PUMP MECHANICAL DATA SHEET													
PROJECT NAME 3NE PROJECT				PROJECT NO.									
CUSTOMI	ER	LG화학㈜				REQ. NO.	RQ-R-J-003	3					
LOCATIO	N	DAESAN, KO	REA			DATE	13-Jul-17						
SERVICE WATER CIRCULATION PUMP					PUMP CODE	API 610 OF	H2						
ITEM NO. S207-JA/JB QUANTITY 2 set(s)						MODEL	TSP	SIZE	3	X 2	- 9		
OPERATING CONDITIONS								PUMP	PERFORMA	NCE			
PUMPING I	LIQUID			WATE	R	MOTOR POWER 3.7 kW 4 P RPM 1750							
PUMPING TEMPERATURE(MAX./NORMAL/MIN - / 43 / - °C						IMPELLER DIA.(RAT	ED/MAX./MIN.)	216	/ 240	1	160	(mm)	
SPECIFIC (GRAVITY(MA	AX./NORMAL/N	1IN.) -	/ 0.992	1 -	IMPELLER TYPE			ENCLOS	SED			
VISCOSITY(MAX/NORMAL/MIN.) - / 0.62 / - cP						RATED POWER		2.18	KW EFFI	CIENCY		54	%
VAPOR PRESSURE(MAX./NORMAL) - / 0.088 (kg/cm²a)						MINIMUM CONTINU	OUS FLOW			8.5			m³/hr
CAPACITY(NORMAL/RATED) 21.2 / 25.4 m³/hr						PREFERRED OPERA	ATING REGION	l	19.46	/	33	.36	m³/hr
DISCHARGE PRESSURE(RATED/MAX.) 13.57 / - (kg/cm²g)						ALLOWABLE OPERA	ATING REGION		8.5	/	35	.0	m³/hr
SUCTION PRESSURE(RATED/MAX.) 11.86 / - (kg/crilg)						SHUT-OFF HEAD				20.8			m
DIFFERENTIAL PRESSURE 1.71 (kg/cm²)						MAX. POWER @ RA	TED IMPELLER	?		2.38			KW
DIFFERENTIAL HEAD 17.2 m						NPSHr AT RATED FLOW(WATER @ C.O.I) 1.25 m							
	ILABLE @ C			128.1	m	SUCTION SPECIFIC SPEED 7400 (m³/hr.m.rpm)							
INSTALLAT	TION	[□ INDOOR	■ OL	ITDOOR	MAX.SOUND PRESS	SURE LEVEL			85			dBA
CONSTRUCTIONS									MATERIAL			04::::	
	ZZLE CONN	-	B. T	F.0		CASING	A216 G		IMPELLER			. CA6NM	
NOZZI		SIZE	RATING	FACING	LOCATION	SHAFT	SCM440(AI		WEARING		A479 Tp.		
SUCTION		3 "	ASME #300	R.F	END	SHAFT SLEEVE		N/A	BEARING I	FRAME	A21	6 Gr. WCB	
DISCHAR		2 "	ASME #300	R.F	TOP	BASE PLATE	SS40	0(A36 EQ.)					
			CONNECTION NOZZLES		T DECORPORTION	TEOT		INSP	CTION & TE	-		TT-1500	
NOZZLE	Q'TY	SIZE	RATING	FACING	DESCRIPTION	TEST			NON-WITNESS	_	W	ITNESS	-
DRAIN	1	3/4"	ASME #300	R.F	VALVE WITH FLANGE	HYDROSTATIC PRE			•				
VENT		SELF	-	-	- ONE(4)	PERFORMANCE TE:						_	
PUMP MOI		TSP	3 X 2 - 9	NO. OF STAGE	ONE(1)	NPSHr TEST (IF REC						_	
CASING MOUNTING						MECHANICAL RUNN						-	
■ CENTERLINE ☐ FOOT ☐ OTHER PUMP TYPE						Sound Level Tes ⁻ Nde	I						
PUMP ITP	OH1	■ 0	H2 □ OH3	□ OH4 □	OH5	OTHER			-				
	□ BB1	_ BE			BB5	OTTER		ΗΕΔΤΙ	NG & COOL	ING			
	□ VS1	□ V:				□ COOLIN	G	IILAII	☐ JACH				
						COOLING WATER P				ERIALS			
		E WORKING P	•			□ PIPE		TUB		21111120	□ FITTI	NG	
		40.80	(kg/cm²g)	@ 43	°C	JACKET PIPING				ERIALS			
HYDROSTA	ATIC TEST F	RESSURE	62.10	(kg/cmg)		□ PIPE		☐ TUB			□ FITTI	NG	
LUBRICATI	ION	☐ GREASI	E ■ OIL (I:	SO VG#46)	OIL RING TYPE	_		SP	ARE PARTS				
BEARING ■ THRUST(TYPE/NO.) BALL / 7310B DB					■ SPARE PARTS	S FOR ERECTIO	ON & COMMISSI	ONING					
■ RADIAL(TYPE/NO.) BALL / 6210				CASING GASKET, CASING BOLT/NUTS									
OILER TRICO						☐ SPARE PARTS FOR 2 YEARS OPERATION							
BASEPLATE ☐ COMMON ☐ SOLE ■ DRAIN PAN													
TRANSMIS	SSION	■ DI	RECT	V-BELT	CLOSED COUPLED			V	/EIGHT(kg)				
		(COUPLING & SAFE	TY GUARD		PUMP		190	MOTOR		40		
MANUFAC	TURER		THOMAS OR EQ.	SERVICE	FACTOR MIN. 1.5	BASE PLATE		250	TOTAL		480		
TYPE	FLEXII	BLE DISK WITH	H SPACER COUPLING		ALUMINIUM			PUMP PA	CKAGE DIMI	ENSION			
			SHAFT SEA			4	(Dis.)		Dis.				
	_	HANICAL SEAL	=	☐ GLAND F	PACKING		Υ,		^	В	CD.	si.	
GLAND PA						4	7				7" -		7
SIZE		MATERI	AL	TURN	MAKER	1 .			\ TE	· 1			$\neg $
		-		-	-	-		Þ	Suo.				
MECHANIC		TUDED	ELOWCEDVE INTED	NATIONAL (VODEA	CEAL MACTED) OD EO			Ί		ليطل	4 1		ا ا لل
■ MANUFACTURER FLOWSERVE INTERNATIONAL (KOREA SEAL MASTER) OR EQ. ■ TYPE / MODEL SGL, CART							/\ _	/ \	Oroin				
■ PI CLASS CODE LATER						ے (ا	•		4	ł		+	
_		SHING PLAN N		#11/61		1	nit.						
-	JEAL 1 LOC	JIIIVO I LAIVIV	DRIVER			-	BW	-	-		BL		
DRIVER TY	/DE	■ INDUCT			F	PUMP DRAWING	DIMENSION TABL	LE (Unit : mm	1)				
	rpe .	DRIVER TYPE ■ INDUCTION MOTOR □ STEAM TURBINE □ GEAR □ OTHER				A B	D		F SP	G	BW	BL	М
DIVIVEI	TPE	GFAR								-			
		☐ GEAR	HYUNDALI		OR EQ.	183 601	370	260	143 127	150	760	1400	382
MANUFAC [*]	TURER			HEAVY INDUSTRIES P 1750	OR EQ.	183 601	370	260	143 127	150	760	1400	382
MANUFAC RATED OU	TURER ITPUT	3	3.7 kW 4	P 1750	RPM	183 601	370	260	143 127	150	760	1400	382
MANUFAC RATED OU ARRANGEI	TURER ITPUT MENT	3 ■ He	3.7 kW 4 DRIZONTAL	P 1750 VERTICA	RPM	183 601	370			150	760	1400	382
MANUFAC RATED OU ARRANGEI SERVICE F	TURER ITPUT MENT FACTOR	3 ■ He	2.7 kW 4 DRIZONTAL 00 STARTING	P 1750 VERTICA METHOD	RPM D.O.L / 60	183 601	370		143 127 REMARKS	150	760	1400	382
MANUFAC' RATED OU ARRANGEI SERVICE F VOLT/PHA: ENCLOSUI	TURER JIPUT MENT FACTOR SE/HERTZ	3 ■ H0	DRIZONTAL OO STARTING 460	P 1750 VERTICA	RPM LL D.O.L	183 601	370			150	760	1400	382
MANUFAC' RATED OU ARRANGEI SERVICE F VOLT/PHA:	TURER UTPUT MENT FACTOR SE/HERTZ RE	3 ■ H0	DRIZONTAL OO STARTING 460 X. PROOF GRADE	P 1750 VERTICA METHOD / 3	RPM D.O.L / 60	0	FOR PROPO				760 H.J.K	1400 Y.S.HA	382 S.G.NO

