

Engineer in Responsible Charge

Sign: Huang Qianqiang Date: 2023.9.12
(Name)



HUANG Qianqiang NB1080 AI
APAVE SA

NO	DESCRIPTIONS
DELETE	

PART	BOLT SIZE	TORQUE
CHANNEL BLIND	1-1/8" B7M	558.2
SHELL FLANGE	1-1/8" B7M	559.6

FOUNDATION WEIGHT DATA (STACKED CONDITION)		
	SLIDING	FIXED
EMPTY WEIGHT (Lb)	5882	2448
OPERATING WEIGHT (Lb)	6723	3437
TEST WEIGHT (Field) (Lb)	7373	3787
TEST WEIGHT (Shop) (Lb)	7373	3787

MAXIMUM FOUNDATION LOADING DATA (STACKED CONDITION)					
		FIXED SADDLE		SLIDING SADDLE	
		ERECTION	OPERATING	ERECTION	OPERATING
D	TRANSVERSE SHEAR (Lb)	800	800	800	800
	TRANSVERSE BENDING (Lb-ft)	17600	17600	17600	17600
	LONGITUDINAL SHEAR (Lb)	4039	4039	4039	4039
	LONGITUDINAL BENDING (Lb-ft)	886	886	886	886
	TRANSVERSE SHEAR (Lb)	-	2015	-	3911
E	TRANSVERSE BENDING (Lb-ft)	-	59545	-	165463
	LONGITUDINAL SHEAR (Lb)	-	5956	-	5956
	LONGITUDINAL BENDING (Lb-ft)	-	256163	-	256168

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NOTE: TOTAL SEISMIC BASE SHEAR = 5956 Lb

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NO	DOC NO	DESCRIPTIONS	REV
1	ANK-PP-000-001-01	Part Data Sheet	1.0
2	ANK-PP-000-001-02	Structural Data for Mechanical Equipment	1.0
3	ANK-PP-000-001-03	Design of Lifting Components	1.0
4	ANK-PP-000-001-04	Material Selection	1.0
5	ANK-PP-000-001-05	Particular Material Specification	1.0
6	ANK-PP-000-001-06	Particular Material Specification	1.0
7	ANK-PP-000-001-07	Material Selection	1.0
8	ANK-PP-000-001-08	Material Selection	1.0
9	ANK-PP-000-001-09	Material Selection	1.0
10	ANK-PP-000-001-10	Material Selection	1.0
11	ANK-PP-000-001-11	Material Selection	1.0
12	ANK-PP-000-001-12	Material Selection	1.0
13	ANK-PP-000-001-13	Material Selection	1.0
14	ANK-PP-000-001-14	Material Selection	1.0
15	ANK-PP-000-001-15	Material Selection	1.0
16	ANK-PP-000-001-16	Material Selection	1.0
17	ANK-PP-000-001-17	Material Selection	1.0
18	ANK-PP-000-001-18	Material Selection	1.0
19	ANK-PP-000-001-19	Material Selection	1.0
20	ANK-PP-000-001-20	Material Selection	1.0

CHANNEL		
CHANNEL COVER	SA-266 Gr 70N	SA-479 S32205
CHANNEL SHELL	SA-516 Gr 70N	SA-299 S32205
CHANNEL FLANGE	SA-266 Gr 70N	SA-299 S32205
NOZZLE NECK	SA-105N	SA-193 Gr 87SA-194 Gr 7M
NOZZLE FLANGE	SA-105N	SA-193 Gr 87SA-194 Gr 7M
PASS PARTITION	SA-516 Gr 70N	SA-479 S32205
SHELL		
SHELL AND SHELL COVER	SA-240 S32205	SA-516 Gr 70
SHELL FLANGE	SA-182 F60	SA-193 Gr 87SA-194 Gr 7M
NOZZLE NECK	SA-182 F60	SA-193 Gr 87SA-194 Gr 7M
NOZZLE FLANGE	SA-182 F60	SA-193 Gr 87SA-194 Gr 7M
TUBE BUNDLE		
TUBES	SA-789 S32205 (Seamless)	SA-299 S32205
TUBESHEETS	SA-182 F60 1/8" TCA	SA-193 Gr 87M
BAFFLES	SA-240 S32205	SA-479 S32205
TIE/SEAL RODS	SA-479 S32205	SA-479 S32205

PAINTING REQUIREMENT			
PAINT NAME	THICKNESS (mil)	PAINT NAME	THICKNESS (mil)
PRIMER	1.0-1.5	PRIMER	1.0-1.5
INTERMEDIATE	1.0-1.5	INTERMEDIATE	1.0-1.5
FINISH	1.0-1.5	FINISH	1.0-1.5

NOZZLE LOADS LIST			
NOZZLE	NPS	FORCES (UNIT Lb)	MOMENTS (UNIT Lb-ft)
T1	4"	1360	1700
T2	4"	1360	1700
T3	4"	1360	1700
T4	4"	1360	1700
T5	4"	1360	1700
T6	4"	1360	1700
T7	4"	1360	1700
T8	4"	1360	1700
T9	4"	1360	1700
T10	4"	1360	1700

NONDESTRUCTIVE EXAMINATION			
ITEM	REQUIREMENT	REMARKS	DATE
1	UT	100%	100%
2	RT	100%	100%
3	MT	100%	100%
4	PT	100%	100%

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1. ASME SECTION VIII DIV 1	1.001/20	2023.9.12	1.0
2. TEMA Class 2500			
3. API 650			
4. ASME VIII			

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