



FOAIE DE DATE - REZERVOR COLECTARE SCURGERI INGROPAT

LOCATION: STATIE POMPARE TITEI SLOBOZIA
EQUIPMENT NUMBER: TK-001
EQUIPMENT SERVICE: REZERVOR INGROPAT
SERIAL NUMBER:
REQ / SPEC NO. :
PURCH ORDER NO. :







01	04.2022	Emis pentru construire	Dan M.	Nan J.C.	Stan C.	Nan J.C.
00	06.2021	Emis pentru comentarii	Dan M.	Nan J.C.	Stan C.	Nan J.C.
Rev.No. Rev.Nr.	Date Data	Description Descriere	Prepared Intocmit	Checked Verificat	PM Sef Proiect	Approved Aprobat
		FOAIE DE DATE - REZERVOR COLECTARE SCURGERI INGROPAT				Faza: Detail
		Doc. No.: Doc.nr.:	PR1193-ME26-01			Rev.: 01
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		MODERNIZAREA STATIEI DE POMPARE A TITEIULUI SLOBOZIA JUD. PRAHOVA		1193/2019		1 of 6



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		Page no. :	2 of 6

Revision No. Revizia Nr.	Description Descriere	Date Data
00	Emis pentru comentarii	06.2021
01	Emis pentru construire	04.2022



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40	Length between tangent lines [mm]	3000	Pulsation load :	<input type="checkbox"/> yes	<input type="checkbox"/> no																																																																																																																																																																																																																																				
41	Height of skirt / legs / saddle to TL/CL [mm]	n/a	- number of cycles																																																																																																																																																																																																																																						
42	Cone angle / length [°] / [mm]	n/a	- fatigue analysis	<input type="checkbox"/> ASME	<input type="checkbox"/> Techn. Spec.																																																																																																																																																																																																																																				
43	Type of head	Flat Ends																																																																																																																																																																																																																																							
44	Corrosion allowance / cladding [mm]	3 / n/a	Nozzle loads																																																																																																																																																																																																																																						
45	Wall thickness of shell (incl. c. a.) I & II [mm]	6 / 4	- calculation acc. to	<input checked="" type="checkbox"/> W.R.C.	<input type="checkbox"/> BS 5500	<input checked="" type="checkbox"/> EN 13445																																																																																																																																																																																																																																			
46	- head / cone (incl. c. a.) I & II [mm]	8 / 6 / n/a	- min. nozzle loads acc. to	<input type="checkbox"/> Techn. Spec.	<input type="checkbox"/> mfr's. std.																																																																																																																																																																																																																																				
47	- skirt / legs (without c. a.) [mm]	n/a / n/a																																																																																																																																																																																																																																							
48	Diam. of sump / dom <input type="checkbox"/> OD <input type="checkbox"/> ID [mm]	n/a																																																																																																																																																																																																																																							
49	- corrosion allowance / cladding [mm]	n/a /	Wind design	<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no																																																																																																																																																																																																																																				
50	- wall thickn. (incl. c.a.) shell / head [mm]	n/a /		<input type="checkbox"/> DIN 1055	<input type="checkbox"/> EUROCODE 1&3																																																																																																																																																																																																																																				
51				<input type="checkbox"/> other																																																																																																																																																																																																																																					
SURFACE TREATMENT																																																																																																																																																																																																																																									
52	Shoot blasting :		Earthquake design	<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no																																																																																																																																																																																																																																				
53	- press. parts <input checked="" type="checkbox"/> internal <input type="checkbox"/> external : SA 2 ¹ / ₂			<input type="checkbox"/> EUROCODE 8 & P100																																																																																																																																																																																																																																					
54	- skirt / legs <input type="checkbox"/> inside : SA 2 ¹ / ₂ <input type="checkbox"/> outside : SA 2 ¹ / ₂			<input type="checkbox"/> other																																																																																																																																																																																																																																					
55	Painting acc. to:	Paint. spec.	- ag																																																																																																																																																																																																																																						
56	- pressure parts <input checked="" type="checkbox"/> external		- Tc																																																																																																																																																																																																																																						
57	- skirt / legs <input type="checkbox"/> inside <input type="checkbox"/> outside		- building category																																																																																																																																																																																																																																						
58	Special coating <input checked="" type="checkbox"/> internal epoxi (3)		- building ground factor																																																																																																																																																																																																																																						
59	- coating type (4)																																																																																																																																																																																																																																								
60	Pickling and passivating (SS) <input type="checkbox"/> internal <input type="checkbox"/> external		Fully dressed design	<input type="checkbox"/> yes	<input type="checkbox"/> no																																																																																																																																																																																																																																				
61	<input checked="" type="checkbox"/> glass beads blast. <input type="checkbox"/> brushing <input type="checkbox"/> internal <input checked="" type="checkbox"/> external																																																																																																																																																																																																																																								

 		FOAIE DATE MECANICA		PR1193-ME26-01		Rev.: 01		
		REZERVOR INGROPAT		SHEET PAG.: 4 OF 6				
PROJECT NO / PROIECT NR.:		1193/2019		REV	DATE	NAME	SIGNATURE	
PROJECT TITLE / TITLU PROIECT:		MODERNIZAREA STATIEI DE POMPARE A TITEIULUI SLOBOZIA JUD. PRAHOVA		00	06.2021			
MANUFACTURER/FABRICANT:				01	04.2022			
1	Item No.	TK-001		Equipment name REZERVOR COLECTARE SCURGERI				
2	MATERIAL SPECIFICATION							
3	Shell / cladding	S355JR	/	n/a	Gaskets :			
4	Heads / cladding	S355JR	/	n/a	- vessel flanges			
5	Skirt / Legs / saddle	S355JR	/	n/a	- blinded nozzles			
6					- internal flanges			
7	Nozzle pipes / cladding	P275NL1	/	n/a				
8	Nozzle flanges / cladding	P285NH	/	n/a	Internals			
9	Vessel flanges / cladding	n/a	/	n/a	- heating coil			
10	Type of cladding			n/a	- demister / trays			
11					Nameplate / bracket			
12	Bolts / nuts:				Earthing lug			
13	- vessel flanges	42CrMo4QT	/	42CrMo4QT				
14	- blinded nozzles	42CrMo4QT	/	42CrMo4QT	Foundation bolts / nuts			
15	- internals (SS)	n/a	/					
16	HEAT TREATMENT				ACCESSORIES			
17	Stress relieving required :				Demister see sheet			
18	- process requirement	<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no		Trays see sheet			
19	- by code required	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no		Baffle plate at nozzle			
20	- partial stress relieving required	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no		Vortex breaker at nozzle			
21					Level indicator			
22	INSULATION AND HEATING				Support for vessel			
23	Insulation required	<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no	<input type="checkbox"/> by others	Foundation bolts			
24	-shell / head thckn. [mm]		/		Foundation bolts number req. x size			
25	- insulation type	<input type="checkbox"/> HC	<input type="checkbox"/> CC	<input type="checkbox"/> PP	Templates (2 sets)			
26	- insulation clips	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/>	Sliding plates			
27					Fire proofing			
28	Vessel heating req.	<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no	<input type="checkbox"/> by others :	- thickness [mm]			
29	- type of heating	<input type="checkbox"/> electrical			Name plate :			
30		<input type="checkbox"/> heat transfer fluid			- engraved by: vendor			
31	- construction type	<input type="checkbox"/> coil outside	<input type="checkbox"/> coil inside		Earthing lugs			
32		<input type="checkbox"/> jacket	<input type="checkbox"/> mfr.type		Trunnions / lifting lugs for erection			
33		<input type="checkbox"/> halfpipe						
34	Electrical heater :				Clips for platforms, lac 02			
35	- voltage / frequency [V]/[Hz]		/		- total weight to be delivered [kg]			
36	- power [KW]				Top davit			
37					Spare gaskets [sets]			
38	Heat transfer fluid :				Spare bolts / nuts (min.1 of each) [%]			
39	- medium	<input type="checkbox"/> LP-steam	<input type="checkbox"/> MP-steam	<input type="checkbox"/> hot oil				
40	Fluid group	<input type="checkbox"/> I	<input type="checkbox"/> II	<input type="checkbox"/> III	Gas blanketing req. for transportation:			
41	Category	<input type="checkbox"/> I	<input type="checkbox"/> II	<input type="checkbox"/> III	- blanketing gas			
42	Module	<input type="checkbox"/> G	<input type="checkbox"/> H	<input type="checkbox"/> H1	- blanketing pressure [bar ga]			
43	Operating data [°C]		/		- incl. bottle, press. gauge & connect.			
44	- operating temp. min. / max. [°C]		/		Desiccant bags			
45	- operat. press. min. / max. [bara]		/					
46	- hydrostatic test pressure [barg]		n/a		Special tools required			
47	Total surface required [m²]				Hydraulic bolt tensioning device for bolts > M 36			
48	O. dia. of tube / wallthickness [mm]		/		Torque & forces to be indicated in drwg.			
49	- total length of tube [mm]				Oil buckets			
50	INSPECTION				Weirs			
51	Inspection class				Equalizing pipe			
52	Inspection authority				Inlet distributor			
53					Distribution baffle			
54	Fabrication supervision by	MFR						
55					CERTIFICATION & TESTING			
56	Final Inspection	SC Conpet SA			Test certificates			
57	WEIGHTS & SHIPPING INFORMATION				<input checked="" type="checkbox"/> acc. to Code <input type="checkbox"/> Techn. Spec. Yes			
58	Shipping weight • (1) [kg] appr.				Radiography (RT)			
59	Internals [kg] appr.		n/a		test			
60	Operating weight [kg] appr.		(*)		Ultra sonic test (UT)			
61	Hydrotest weight at site • [kg] appr.				Impact test			
62					<input checked="" type="checkbox"/> acc. to Code <input type="checkbox"/> Techn. Spec.			
63	Fully dressed • (2) [kg] appr.		(**)					
64					Max. hardness of base material [HV]			
65	Max. shipping dim. (L x B x H) [m]	3000 x 1500 x 2700			Max. chloride content of test water [ppm]			
66					Other tests			

 		FOAIE DATE MECANICA		PR1193-ME26-01		Rev.: 01	
		REZERVOR INGROPAT		SHEET PAG.: 5 OF 6			
				BY		CHK'D	
				D.M.		N.J.C.	
				APPR.		S.C.	
PROJECT NO / PROIECT NR.:		1193/2019		REV	DATE	NAME	SIGNATURE
PROJECT TITLE / TITLU PROIECT:		MODERNIZAREA STATIEI DE POMPARE A TITEIULUI SLOBOZIA JUD. PRAHOVA		00	06.2021		
MANUFACTURER/FABRICANT:				01	04.2022		
1	Item No.	TK-001		Equipment name	REZERVOR COLECTARE SCURGERI		
2	BOLTING						
3	Nozzle flange	<input checked="" type="checkbox"/> ISO metric Yes <input type="checkbox"/> inch (UNC/UN) <input checked="" type="checkbox"/> stud bolts Yes		Vessel flange	<input checked="" type="checkbox"/> ISO metric Yes <input type="checkbox"/> inch (UNC/UN) <input checked="" type="checkbox"/> stud bolts Yes		
4	bolting			bolting			
5							
6	NOZZLE DATA LIST						
7	Code requirement for flange standard		<input checked="" type="checkbox"/> EN 1092 <input type="checkbox"/> ASME B16.5 (ANSI) <input type="checkbox"/> ASME B16.47 Series A <input type="checkbox"/> OTHER				
8	MARK	NO. REQ.	NOZZLE SIZE [DN]	FLANGE RATING [PN]	FLANGE FACING	FLANGE TYPE [WN/LWN]	GASKET
9							DESCRIPTION
10							REMARKS
11	R1	1	200	16	RF	WN	Input Connection Drain
12	R2a	1	50	16	RF	WN	Nitrogen Pressure Gauge Connection
13	R2b	1	50	16	RF	WN	Nitrogen Fill Connection
14	R3	1	50	16	RF	WN	Safety Valve Connection
15	R4	1	50	16	RF	WN	Vent Connection
16	R5	1	50	16	RF	WN	Pump Level Switch Connection
17	R6	1	100	16	RF	WN	Truck Suction Connection
18	R7	1					Pump Suction Connection
19	R8	1	50	16	RF	WN	Level Gauge Connection
20	MH	1	1000	16			Manhole
21							
22							
23							
24							
25							
26							
27							
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30							
31							
32							
33							
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35							
36							
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41	REMARKS						
42	<input checked="" type="checkbox"/> Applicable. Vendor shall design / provide / supply accordingly <input checked="" type="checkbox"/> Data / information must be completed by the bidder with the bid.						
43	Abbreviations : HC = Heat Conservation CC = Cold Conservation PP = Personnel Protection WN = Welding Neck LWN = Long Welding Neck c.a. = corrosion allowance n/a not applicable TBC = To be confirmed						
44	NOTES: - Material certification will be acc. SR EN 10204 : - type 3.1 for all elements. - Tank will be double shell and will be provided with a pressure monitoring system in the space between shells. - FOR THE DATA SHEET SEE DOCUMENT PR1193_ME32						
45							
46							
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55	(1) Without internals.						
56	(2) Fully dressed means shipping weight plus weight of piping, insulation, platforms and ladders.						
57							
58	(3) Internal epoxy coating and fiber glass epoxy coating/lining have to be resistant to given design and operating conditions and shall have appropriate chemical resistance. Coating/lining material type have to be approved by TECH Center&Lab ETTL-M.						
59							
60							
61							
62							
63	(4) The external insulation shall comply with the standard ISO 12944, corrosivity category Im3, with durability range H (high) for 15-25 years.						
64							
65							
66	(*) For 80% filling degree.						
67	(**) Shall be specified by Manufacturer.						

