





INLOCUIRE GRUP DE POMPARE  
TITEI DEPOZIT SATCHINEZ,  
JUDETUL TIMIS



SPECIFICATIE TEHNICA  
INTRERUPATOR DE DEBIT

1	Emis pentru construire	12.04.2022	Trifan O.	Danilov B.	Dobleaga S.
0	Emis pentru comentarii	26.02.2021	Trifan O.	Corbu.O	Danilov B.
Rev/Rev.	Denumirea modificarii/Change description	Data/Date	Pr Spec / Consultant	Verificat/Checked	Aprobat / Approved
ROENGG CONSULTING RO 24611389 / 0344 806 979 / contact@roengg.com Ploiesti		DEPOZIT SATCHINEZ	Nr. proiect / Project no.	Nr. document / Document no.	Faza/Phase
		10202020	RNG-ST-16-004	NA	1
Denumire document /Document name					
SPECIFICATIE TEHNICA INTRERUPATOR DE DEBIT					
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		<b>INSTRUMENT DATA SHEET</b>				DATA SHEET NO.: RNG-ST-16-004		REV. 01	
		<b>VIBRATING FORK FLOW SWITCHES</b>				SHEET 2 OF 2 BY Trifan O.    CHK'D Corbu O.    APPR. Danilov B.			
PROJECT NO.: 10202020 OWNER: PLANT: DEPOZIT SATCHINEZ						REV	DATE	NAME	SIGNATURE
						00	02.11.2020	T.O.	
						01	12.04.2022	T.O.	
GENERALITIES	1	TAG NUMBER/Simbol:		FSL-001A(Note 6)		FSL-001B(Note 6)			
	2	P&ID NUMBER/Nr P&ID:		13-SP-001		13-SP-001			
	3	LINE NUMBER/ Simbol conducta:		Aspiratie P1A		Aspiratie line P1B			
	4	SERVICE/Serviciu:		Detectie prezenta lichid si declansare		Detectie prezenta lichid si declansare			
	5	MANUFACTURER/Producator:		VTA		VTA			
	6	MODEL/PART NO./Model nr.:		VTA		VTA			
	7	HAZARDOUS AREA CLASSIFICATION/Clasificare zona:		ZONE2 (IIA T3)		ZONE2 (IIA T3)			
PROCESS CONDITIONS	8	FLUID/Fluid:		Titei/Crude oil		Titei/Crude oil			
	9	CORROSIVE COMPOUNDS/Compusi corozivi:		Sulf total 0.08±0.02%gr		Sulf total 0.08±0.02%gr			
	10			MIN.	NORMAL	MAX.	MIN.	NORMAL	MAX.
	11	OPERATING PRESSURE/Presiune operare: barg		8	10	18	8	10	18
	12	OPERATING TEMPERATURE (T)/Temperatura ope °C		40	40	45	10	40	45
	13	UPPER FLUID/Fluid sus:	LOWER FLUID/Fluid jos:	N/A	N/A	N/A	N/A		
	14	UPPER SG @ T: T/SG fluid	LOWER SG @ T: T/SG fluid:	N/A	N/A	N/A	N/A		
15	AMBIENT TEMPERATURE/Temperatura ambiental °C		-30 - +50		-30 - +50				
ELEMENT	16	FORK LENGTH/Lungime furca: mm		(Nota5)		(Nota5)			
	17	SETPPOINT/Punct setare: mm		Detectie prezenta lichid		Detectie prezenta lichid			
	18	PROC. CONN. SIZE/DN	RATING/PN	DN50	PN 25	DN50	PN 25		
	19	PROC.CONN.TERMN. TYPE	STYLE	Flansa	B1	Flansa	B1		
	20	WETTED MATERIAL/Material in contact cu fluidul:		316 SST.		316 SST.			
	21	FLANGE MATERIAL/Material flansa:		316 SST.		316 SST.			
SWITCH	22	SEAL/ O RING MATERIAL/Material etansare:		EPDM		EPDM			
	23	POWER SUPPLY/Alimentare electrica:		Two wire loop powered @24 V dc		Two wire loop powered @24 V dc			
	24	DEADBAND/Zona insensibilitate:		Fixed		Fixed			
	25	CONTACTS QUANTITY/Contacte:		N/A		N/A			
	26	CONTACTS ARRANGEMENT/OUTPUT/Dispunere contacte:		Signal transmission 16 / 8 mA (high to low current)		Signal transmission 16 / 8 mA (high to low current)			
	27	CONTACTS AC RATING: Contacte AC		A at V		A at V			
	28	CONTACTS DC RATING/Contacte DC:		A at V		A at V			
	29	INTEGRAL INDICATOR/Indicator integrat:		N/A		N/A			
	30	BODY MATERIAL/Material corp:		316 SST		316 SST			
	31	SEAL / O RING MATERIAL/Material etansare:		Viton		Viton			
	32	ENCLOSURE MATERIAL/Material carcasa:		Aluminiu cu acoperire epoxidica		Aluminiu cu acoperire epoxidica			
	33	CABLE ENTRY/Presetupa:		ATEX M20 x 1.5		ATEX M20 x 1.5			
34	INGRESS PROTECTION/Protectie patrundere:		IP65		IP65				
35	ATEX CATEGORY / EPL:		II 2G		II 2G				
36	TYPE OF PROTECTION/Tip protectie ATEX:		EEx d IIC T6		EEx d IIC T6				
OTHERS	37	WINTERIZATION/Protectie intemperii:		Nota4		Nota4			
	38	SUNSHADE/Parasolar:		Nota4		Nota4			
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NOTES: VTA: vendor to advise/la recomandarea furnizorului

1. Supplier to provide Material Certification acc. to SR EN 10204-3.1, CE declaration of conformity, Instalation&maintenance manual and ATEX Certification. Furnizorul va asigura Certificat Material conform SR EN 10204-3.1, Declaratie de conformitate, Manual de instalare si operare, Certificare ATEX

2. Manufacturer to confirm that the electronic instrumentation is rated to withstand the environmental / Ambient conditions and direct sunlight; sunshade shall be provided if manufacturer recommend it/Furnizorul va confirma ca aparatul intruneste conditiile de functionare in mediul ambiant si va recomanda parasolarul daca este necesar.

3. Nominal pipe diameter ND=273mm+40mm insulation. Process piping connection height from flange face to pipe OD of the flow switch is 200 mm. Manufacturer to provide insertion length for optimal performance of the flow switch for stop pumps at no flow. Dimensiune exteriora conducta 273mm +40 mm izolat. Inaltime racord= 200mm. Furnizorul va prevedea lungimea de insertie potrivita serviciului de detectie a lipsei de lichid in aspiratie si oprirea pompelor.