DAIS-0884-16.10.14

INSTITUTUL DE PROIECTARE INSTALATII PETROLIERE PLOIESTI-ROMANIA

SPECIFICATIE DE PROIECT

SUPAPE DE SIGURANTA SI DE DESCARCARE

NR.	1127.00-34-3036.SP.R	REV 0
PAG. 1	DIN 1	

REV.	DATA	INTOCMIT	VERIFICAT	APROBAT
0	10.2014	DMS	PIG	BCM
1				
2				
3				
4				

COMANDA: 14 - IPIP - 001 (1127/2014)

BENEFICIAR: BURGASNEFTEPROEKT EOOD - ROMANIA

INSTALATIA: INSTALATIA COCSARE INTARZIATA - S.C. PETROTEL LUKOIL S.A.

1	SIMBOL			BUC.	02-SS200 (8)		1						
2	PRODUCATOR												
3	SIMBOL ECHIPAM. SAU AL LINIEI TEHN.				PR-02-551 a/ b-200								
4	DESTINATIA				protectie filtru 02-F200A,R								
5	SIGURANTA-DESC.	SIGURANTA	DESCARCARE		X								
6	RACORD INTRARE	COMPLET	SEMI			X							
7	CAPAC:	DESCHIS	INCHIS				X						
8	CONVENTIONALA	ECHILIB. CU BURDUF	PILOTATA			X							
	CORP												
9	MATERIAL				GX15CrMo5								
10	RACORD INTRARE				DN40 PN 25 B1								
	(VEZI COD 3)												
11	RACORD IESIRE				DN80 PN 25 B1								
	(VEZI COD 3)												
12	INTERIOARE-MATERIAL												
	SCAUN SI SUPAPA				SS Stellitat								
13	BUCSE SI INELE				SS								
14	ARC				OTEL TUNGSTEN								
15	BURDUF				SS								
16	BAZA DE CALCUL												
	PRESCRIPTIE			FOC			X						
17				SAU									
18	ACCESORII		DISP.BLOCARE										
	LEVIER,DESCHIS	LEVIER,ETANS	LA PROBE				X						
19	TEST NACE												
20	CONDITII DE LUCRU				Reziduu de vid+Reciclu+particule de cocs		V						
	FLUID	STARE (VEZI COD 4)											
21	DEBITUL NECESAR	UNIT. DE MASURA			1100 (6)		kg/h						
22	GREUT. SPECIF. LA T.L.	GREUTATEA MOLECUL.			-		80						
23	PRES.: DE LUCRU (P.L.)	DE SETARE		BAR G	2 (7)		4.5 (7)						
24	TEMP.: DE LUCRU (T.L.)	DE DESCARCARE		°C	377		470						
25	VISCOZITATEA @ T.L.			cSt									
26	EXPONENT ADIABATIC (K)				1,013								
27	FACTOR DE COMPRESIBILITATE (Z)				0,8615								
28	CONTRAPRES.: CONSTANTA	DEZVOLTATA		BAR G	0.35 (4)		0.65 (5)						
29	SUPRAPRESIUNEA ADMISIBILA			%	21								
30	SUPRAF.: CALCULATA	ALEASA		cm^2	2,04		3,245						
31	SIMBOLUL ORIFICIULUI	MODELUL PRODUCATOR.			G								
32													

S.C. PETROTEL - LUKOIL S.A. PLOIESTI SERV. INSPECTIA ECHIPAMENTELOR

1.SUPAPELE TREBUIE SA CORESPUNDA SPEC. STD. IPIP-S.A. NR. SAU

2. SUPAPELE CORESPUND SCHEMEI DE CONDUCTE SI AUTOMATIZARE NR. fila 30-0393.03-6A/10 SAU

COD. 3. DE EXPL.: DN, PN, ETANSARE "B" DUPA SR; NW, ND,FORM "D" DUPA DIN; 300RF, etc. DUPA ANSI SAU ALTELE

COD. 4. L=LICHID; G=GAZ; V=VAPORI

NOTE:
1. Presiunea de setare=Presiunea de declansare.
2. Supapa trebuie sa poarte marcajul "CE", sub modulul "H1" de certificare.
3. Livrarea va fi insotita de certificatul de conformitate.
4. Contrapresiunea minima din colectorul existent de golire rapida care exista in mod normal la iesirea din supapa, inainte de deschidere.
5. Aceasta valoare reprezinta contrapresiunea variabila + contrapresiunea dezvoltata.
6. Debitul de descarcare s-a calculat pe baza dimensiunilor estimative ale filtrului (D = 600 mm, T/T = 1500 mm).
7. Elevatia care s-a luat in calcul este de 8 m.
8. Supapa de siguranta este verificata si in cazul unor evenimente neprevazute in timpul operatiei de evacuare a motorinei. Cazul pentru care s-a dimensionat supapa de siguranta este la foc deschis.

PROCESS ENG. INM

COD: 34.769-99-7
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ROMANIAN ENGINEERING AND DESIGN INSTITUTE FOR OIL REFINERIES PLOIESTI – ROMANIA

PROJECT SPECIFICATION

PRESSURE SAFETY (RELIEF) VALVES

NO.	1127.00-34-3036.SP.E	REV 0
SHEET	1 OF 1	

REV.	DATE	BY	CH'D	APP'D
0	10.2014	DMS	PIG	BCM
1				
2				
3				
4				

JOB: 14 - IPIP - 001 (1127/2014)

CUSTOMER: BURGASNEFTEPROEKT EOOD - ROMANIA

UNIT: INSTALATIA COCSARE INTARZIATA - S.C. PETROTEL LUKOIL S.A.

1	TAG No.			Q'TY	02-SS200 (8)	1						
2	MANUFACTURER											
3	VESSEL TAG No. OR LINE SYMBOL				PR-02-551 a/ b-200							
4	SERVICE				protection of filter 02-F200 A,R							
5	SAFETY-RELIEF	SAFETY	RELIEF		X							
6	FULL NOZZLE	SEMI-NOZZLE				X						
7	BONNET TYPE:	OPEN	CLOSED				X					
8	CONVENTIONAL	BALANCE BELLOWS	PILOT OPERATED			X						
	BODY											
9	MATERIAL				GX15CrMo5							
10	INLET CONNECTION (SEE CODE 3)				DN40 PN 25 B1							
11	OUTLET CONNECTION (SEE CODE 3)				DN80 PN 25 B1							
12	TRIM MATERIAL											
	SEAT AND DISC				SS Stellited							
13	GUIDE AND RINGS				SS							
14	SPRING				TUNGSTEN STEEL							
15	BELLOWS				SS							
16	BASIS CODE			FIRE		X						
17				OTHER								
18	ACCESSORIES LEVER PLAIN	LEVER PACKED	TEST GAG				X					
19	NACE TEST											
20	OPERATING CONDITIONS FLUID	STATE (SEE CODE 4)			Vacuum Residue+Recycle+coke particles	V						
21	REQUIRED CAPACITY AND UNITS				1100 (6)	kg/h						
22	SPEC. GRAVITY @ O.T.	MOLECULAR WEIGHT			-	80						
23	PRESS.: OPERATING (O.P.)	SET		BAR G	2 (7)	4.5,(7)						
24	TEMP.: OPERATING (O.T.)	RELIEF		°C	377	470						
25	VISCOSITY @ O.T.			cSt								
26	RATIO OF SPECIFIC HEATS (K)				1,013							
27	COMPRESIBILITY FACTOR (Z)				0,8615							
28	BACK PRESS.: CONSTANT	DEVELOPED		BAR G	0.35 (4)	0.65 (5)						
29	% ALLOWABLE OVERPRESSURE				21							
30	CALCULATED AREA	SELECTED AREA		cm^2	2,04	3,245						
31	ORIFICE DESIGNATION	MFR'S MODEL No.			G							
32												

1. PRESSURE SAFETY (RELIEF) VALVES SHALL COMPLY WITH IPIP-S.A. STD. SPEC. No. OR
2. PRESSURE SAFETY (RELIEF) VALVES ARE ACCORDING TO P&ID DIAGRAM No. sheet 30-0393.03-6A/10 OR

CODE 3. FOR INSTANCE: DN, PN, FORM "B" AS PER SR; NW, ND, FORM "D" AS PER DIN; 300 RF, etc. AS PER ANSI OR OTHER.

CODE 4. L=LIQUID; G=GAS; V=VAPOR

NOTES:
1. Set Pressure = Release Pressure
2. Safety valve should be "CE" marked, under the "H1" module.
3. Delivery shall be accompanied by a certificate of conformity.
4. Minimum superimposed back pressure from existing blow-down header that normally exists at the valve outlet, before opening.
5. This value represents the variable superimposed back pressure + built-up back pressure.
6. Relief flowrate is based on estimated filter dimensions (D = 600 mm, T/T = 1500 mm).
7. Based on elevation of 8 m above grade.
8. PSV checked even for misoperation (blocked outlet) contingency during gas oil flushing operation. Controlling case for both PSV sizing and line sizing is External Fire.

PROCESS ENG. INM

S.C. PETROTEL - LUKOIL S.A. PLOIESTI SERV. INGINERIA ECHIPAMENTE

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