

INSTRUMENT DATA SHEET

DIFFERENTIAL PRESSURE GAUGES

			<i>Voicu</i>	<i>Teodorescu</i>	<i>Saru</i>	
01	15.02.2018	Emis pentru Ofertare	V. Voicu	P. Teodorescu	B. Sarluceanu	
REV	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED	APPROVED COMPANY
			ORIGINATOR			
		PROJECT NAME:				
		MODERNIZARE SI RECONSTRUCTIE RAMPA DE INCARCARE PRODUSE PETROLIERE IN CISTERNE AUTO				
		PROJECT NUMBER:				
		ROT00052-01				
 		PROJECT PHASE:			REVISION	
		TENDER			01	
		DOCUMENT NUMBER:			SHEET	
		ROT00052-01-4392003			1 OF 4	

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 		INSTRUMENT DATA SHEET				DATA SHEET NO.:		REV.				
						ROT00052-01-4392003		01				
		DIFFERENTIAL PRESSURE GAUGES				SHEET 2 OF 4		BY		CHK'D		APPR.
V. Voicu						P. Teodorescu		B. Sarluceanu				
PROJECT NO.: ROT00052-01				REV	DATE	NAME	SIGNATURE	REV	DATE	NAME	SIGNATURE	
OWNER: S.C. Petrotel Lukoil S.A.				01	15.02.2018	V. Voicu						
PLANT: Rampa incarcare auto												
GENERALITIES	1	TAG NUMBER:		PDI-006			PDI-010					
	2	P&ID NUMBER:		ROT00052-01-3143001			ROT00052-01-3143002					
	3	LINE/EQUIPMENT NUMBER:		PM-03-300-25C1			PM-11-300-25C1					
	4	SERVICE:		Differential Pressure Indication			Differential Pressure Indication					
	5	MANUFACTURER:										
	6	MODEL/PART NO.:										
	7	HAZARDOUS AREA CLASSIFICATION:		Zone 2			Zone 2					
PROCESS CONDITIONS	8	FLUID:		Gas Oil			Gas Oil					
	9	CORROSIVE COMPOUNDS:		N/A			N/A					
	10			MIN	NORMAL	MAX	MIN	NORMAL	MAX	MIN	NORMAL	MAX
	11	OPERATING PRESSURE: barg		0,01	0,3	0,75	0,01	0,3	0,75			
GAUGE DETAILS	12	OPERATING TEMPERATURE: °C		-15	35	60	-15	35	60			
	13	AMBIENT TEMPERATURE: °C		-29.6 + 40.6			-29.6 + 40.6					
	14	TYPE:		Direct reading			Direct reading					
	15	RANGE: mbar		0 ÷ 160			0 ÷ 160					
	16	MOUNTING:		Local on 2" Pipe			Local on 2" Pipe					
	17	DIAL DIAMETER:		160 mm			160 mm					
	18	DIAL COLOR	MARKING COLOR	White	Black	White	Black					
	19	WINDOW MATERIAL:		Safety glass			Safety glass					
	20	CASE MATERIAL:		Stainless Steel			Stainless Steel					
	21	BLOWOUT PROTECTION:		Back			Back					
	22	ELEMENT TYPE:		Bourdon			Bourdon					
	23	ELEMENT MATERIAL:		AISI 316L SS			AISI 316L SS					
	24	SOCKET MATERIAL:		AISI 316L SS			AISI 316L SS					
	25	MOVEMENT MATERIAL:		Stainless Steel			Stainless Steel					
	26	PROCESS CONNECTION	LOCATION	1/2" NPT-M	Bottom	1/2" NPT-M	Bottom					
	27	MOVEMENT DAMPING:		Yes			Yes					
	28	FILL FLUID:		Silicone			Silicone					
	29	ACCURACY:		± 1%			± 1%					
	30	ATEX CATEGORY / EPL:		II 3G / Gc			II 3G / Gc					
	31	TYPE OF PROTECTION:		VTA			VTA			VTA		
32	INGRESS PROTECTION:		IP65			IP65						
MANIFOLD	33	MANUFACTURER:		(2)			(2)					
	34	MODEL/PART NO.:		(2)			(2)					
	35	TYPE:		5 valve			5 valve					
	36	BODY MATERIAL:		AISI 316L SS			AISI 316L SS					
	37	PROCESS CONN. AND SIZE:		1/2" NPT (F)			1/2" NPT (F)					
	38	VENT CONNECTION AND SIZE:		1/4" NPT(F)			1/4" NPT(F)					
	39	MANIFOLD MOUNTING:		Directly to pressure gauge			Directly to pressure gauge					
ACCESSORIES	40	SNUBBER:		No			No					
	41	SNUBBER MATERIAL:		N/A			N/A					
	42	SNUBBER CONNECTION:		N/A			N/A					
	43	SYPHON:		No			No					
	44	SYPHON MATERIAL:		N/A			N/A					
	45	SYPHON CONNECTION:		N/A			N/A					
	46	OVER RANGE PROTECTOR:		No			No					
	47	OVER RANGE PROTECTOR MATERIAL:		N/A			N/A					
	48	OVER RANGE PROTECTOR CONN.:		N/A			N/A					
	49	OVER RANGE PROTECTOR SETTING:		N/A			N/A					
	50	SUNSHADE:		No			No					
	51	WINTERIZATION:		Not required			Not required					
	52	CONTACTS:		No			No					
	53	TYPE OF CONTACTS:		N/A			N/A					
	54	NUMBER OF CONTACTS:		N/A			N/A					

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		DIFFERENTIAL PRESSURE GAUGES				SHEET 2 OF 4		BY: V Voicu CHK'D: P. Teodorescu APPR: B. Sarluceanu		
PROJECT NO.: ROT00052-01		REV	DATE	NAME	SIGNATURE	REV	DATE	NAME	SIGNATURE	
OWNER: S.C. Petrotel Lukoil S.A.		01	15.02.2018	V. Voicu						
PLANT: Rampa incarcare auto										
GENERALITIES	1	TAG NUMBER:		PDI-014		PDI-018				
	2	P&ID NUMBER:		ROT00052 01-3143003		ROT00052 01-3143004				
	3	LINE/EQUIPMENT NUMBER:		PB-01-300-25C1		PB-11-300-25C1				
	4	SERVICE:		Differential Pressure Indication		Differential Pressure Indication				
	5	MANUFACTURER:								
	6	MODEL/PART NO.:								
PROCESS CONDITIONS	7	HAZARDOUS AREA CLASSIFICATION:		Zone 2		Zone 2				
	8	FLUID:		Gasoline		Gasoline				
	9	CORROSIVE COMPOUNDS:		N/A		N/A				
	10		MIN	NORMAL	MAX	MIN	NORMAL	MAX		
	11	OPERATING PRESSURE:	barg	0,01	0,3	0,7	0,01	0,3	0,7	
	12	OPERATING TEMPERATURE:	°C	-15	35	40	-15	35	40	
GAUGE DETAILS	13	AMBIENT TEMPERATURE:	°C	-29.6 + 40.6		-29.6 + 40.6				
	14	TYPE:		Direct reading		Direct reading				
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	26	PROCESS CONNECTION	LOCATION	1/2" NPT-M	Bottom	1/2" NPT-M	Bottom			
	27	MOVEMENT DAMPING:		Yes		Yes				
	28	FILL FLUID:		Silicone		Silicone				
	29	ACCURACY:		± 1%		± 1%				
	MANIFOLD	30	ATEX CATEGORY / EPL:		II 3G / Gc		II 3G / Gc			
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34		MODEL/PART NO.:		(2)		(2)				
35		TYPE:		5 valve		5 valve				
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	42	SNUBBER CONNECTION:		N/A		N/A				
	43	SYPHON:		No		No				
	44	SYPHON MATERIAL:		N/A		N/A				
	45	SYPHON CONNECTION:		N/A		N/A				
	46	OVER RANGE PROTECTOR:		No		No				
	47	OVER RANGE PROTECTOR MATERIAL:		N/A		N/A				
	48	OVER RANGE PROTECTOR CONN.:		N/A		N/A				
	49	OVER RANGE PROTECTOR SETTING:		N/A		N/A				
	50	SUNSHADE:		No		No				
	51	WINTERIZATION:		Not required		Not required				
	52	CONTACTS:		No		No				
	53	TYPE OF CONTACTS:		N/A		N/A				
54	NUMBER OF CONTACTS:		N/A		N/A					

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	DIFFERENTIAL PRESSURE GAUGES				SHEET 2 OF 4				
					BY V. Voicu	CHK'D P. Teodorescu	APPR. B. Sarluceanu		
PROJECT NO.: ROT00052-01		REV	DATE	NAME	SIGNATURE	REV	DATE	NAME	SIGNATURE
OWNER: S.C. Petrotel Lukoil S.A.		01	15.02.2016	V. Voicu					
PLANT: Rampa incarcare auto									
 FIG 1 SURFACE MOUNTING  FIG 2 FLUSH MOUNTING									
NOTES: 1. LIST OF CORROSIVE COMPOUNDS: N/A 2. DATA TO BE PROVIDED / CONFIRMED BY VENDOR. 3. FOR ALL PRESSURE GAUGES ARE REQUIRED INSPECTION CERTIFICATE SR EN 10204. 4. ALL INSTRUMENTS SHALL BE DELIVERED WITH CONFORMITY CERTIFICATION AND CE MARKED ACCORDING TO THE APPLICABLE DIRECTIVES 5. EACH DIFFERENTIAL PRESSURE GAUGE SHALL BE PROPERLY IDENTIFIED WITH A STAINLESS STEEL PLATE FASTENED TO THE INSTRUMENT SHOWING THE TAG NUMBER. 6. COMPLIANCE TO SR EN 837.1 IS REQUIRED. 7. DIFFERENTIAL PRESSURE GAUGES SHALL BE SUITABLE FOR PRESSURES OF 1.3 x MAXIMUM STATED DESIGN PRESSURE. 8. DIFFERENTIAL PRESSURE GAUGES WILL BE INSTALLED ON 2" PIPE SUPPORTS. MOUNTING BRACKETS AND ACCESSORIES SHALL BE INCLUDED									


