

Seal Application Order / Enquiry Form (SAF)

SECTION 1: Customer Details

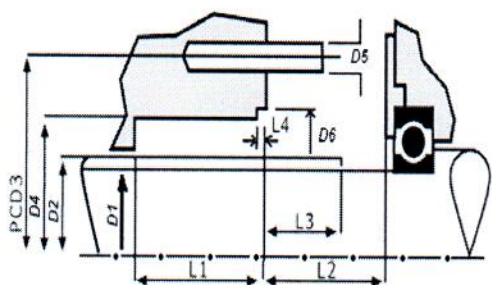
Pos:

P4R CP4B

API information required (Mandatory)

End User	Petrotel-Lukoil S.A.	Location:	Onshore-outdoor		
Industry sector	Refinery	Ambient temperature:	min -35°C		max +45°C
Location	Ploiesti, Prahova-Romania	Position:	Horizontal		
Area of Plant *	<i>Storage Park</i>	Direction of rotation:			CW
Pump Duty *	<i>vacuum distillate/oil residues</i>				
Company:	PETROTEL-LUKOIL S.A.	Phone no:	+40-766257243		
Engineer:	IORGOIU CIPRIAN	Email:	ciorgoiu@petrotel.lukoil.com		

SECTION 2: Seal Dimensional & Type Details

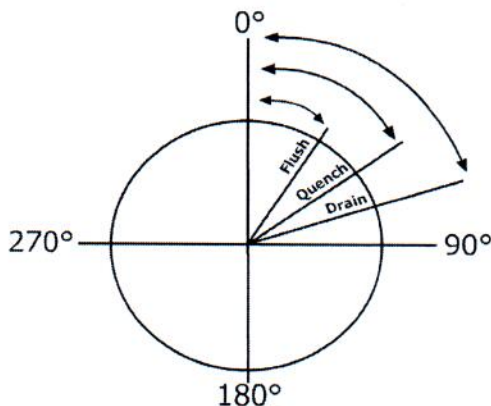
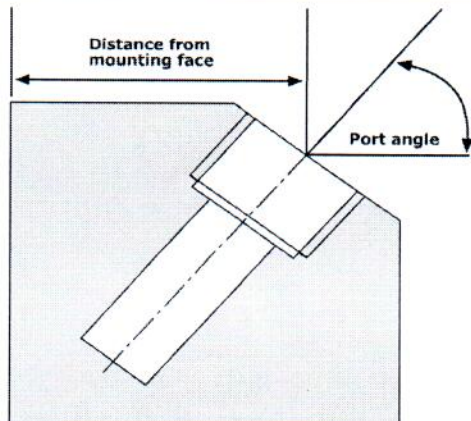


	Value	Units
D1 (Shaft OD):	48	mm
D2 (Sleeve OD):	55h6	mm
PCD3 (Bolt Circle Dia):	118	mm
D4 (Pilot Bore):	80	mm
D5 (Bolt Size):	M14	mm
D6 (Pilot Turn):	NA	mm
L1 (Chamber Dept):	90	mm
L2 (Dist First Obstr.):	85	mm
L3 (Dist Sleeve Outside):	24	mm
L4 (Pilot Lip Length):	7	mm
	NA	mm
Bolt No:	4	buc
Bolt Pattern:	Threaded whole length	

Is the shaft harder than AISI 316L (160 HB)?:

If yes state value or material spec:

Seal type	component seal	☒	dual seal face to face		semi cartridge
	single seal	☒	dual seal tandem		throttle bushing
	dual seal back to back		cartridge		



In. DAIS-0136-03.02.20

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Port Orientation (viewed from motor end)

	Port 1	Port 2	Port 3	Port 4	Port 5
Port Function*:	-	-	-	-	-
Axial distance from mounting face:					
Size and thread <i>e.g. 1/2" NPT</i> :					
Angle/Ports angle:					

* F = Flush, BI = Barrier In, BO = Barrier Out, QI = Quench In, QO = Quench Out, V = Vent

SECTION 3: Pump Details

Manufacturer:	Aversa Bucuresti	Size / Type:	Terma
Serial No:	34394-L	Shaft Speed (rpm):	2980
Tag Number:	P4R CP4B	Axial Movement* (max):	0,1 mm
Radial Movement* (max):	0,03 mm	S'Box Recess Dia*:	80 mm
Discharge Pressure*:	9 bar	API Plan No:	11
Suction Pressure*:	0,2 bar		
API Pump Designation:	OH1		
Seal Type:	Singlr mechanical seal		
Pump Design Type:	API		
Pump Modifications:	No		

e.g. BB3

e.g. Top, Bottom, Side

e.g. ISO, DIN, ANSI, API, Other

Yes or No, if Yes give details

* Please state units, e.g. psia, psig, barg, inches, mm

SECTION 4: Product Details

Product:	vacuum distillate/oil residues	Chemical Composition / Concentration:	0,1 ppm Ni, 1,7 ppm V, 0,53 ppm Na, 1723,78 ppm N (for vacuum distillate) , Unknown for oil residues
Hazardous: <i>e.g. Flammable, Toxic, Explosive</i>	flamable, toxic	pH APT*:	NA
Flush Fluid:	NA	Specific Gravity APT*:	900/1200 Kg/m ³
Temperature:	20/60 Celsius degrees	Polymerising:	No <i>Yes or No</i>
Vapour Pressure APT*:	NA	Dissolved Contaminant	No <i>Yes or No</i>
Viscosity APT*:	1,2 mm ² /s for vacuum distillate 8 mm ² /s for oil residues	Abrasive Content:	Yes <i>Yes or No</i>
Pressure in S'Box:	2,5 bar	Flush Available:	No <i>Yes or No</i>
Max. Particle Size:	1...1,5 mm	Dry Running:	No <i>Yes or No</i>

*APT = At Pumping Temperature

Buffer/Barrier Liq. Type or Name: NA

Flush Liq. Type or Name: NA



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SECTION 5: Customer Seal Suggestions

Size:	—
Type:	—
Ports:	—
O Ring Material(s):	—
Seal Plans (API):	API 11
Other Specification (e.g. API, ATEX):	API, ATEX
Quantity:	—
Price:	—
Delivery:	DDP PLOIESTI

Remarks:

Product may containe soil and sand

Head Mechanical Engineer

MAKUSHEV D.

29 JAN 2020

Senior Mechanical Specialist Engineer

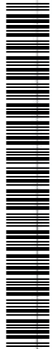
Repair Specialist in the Workshop

Chief Unit

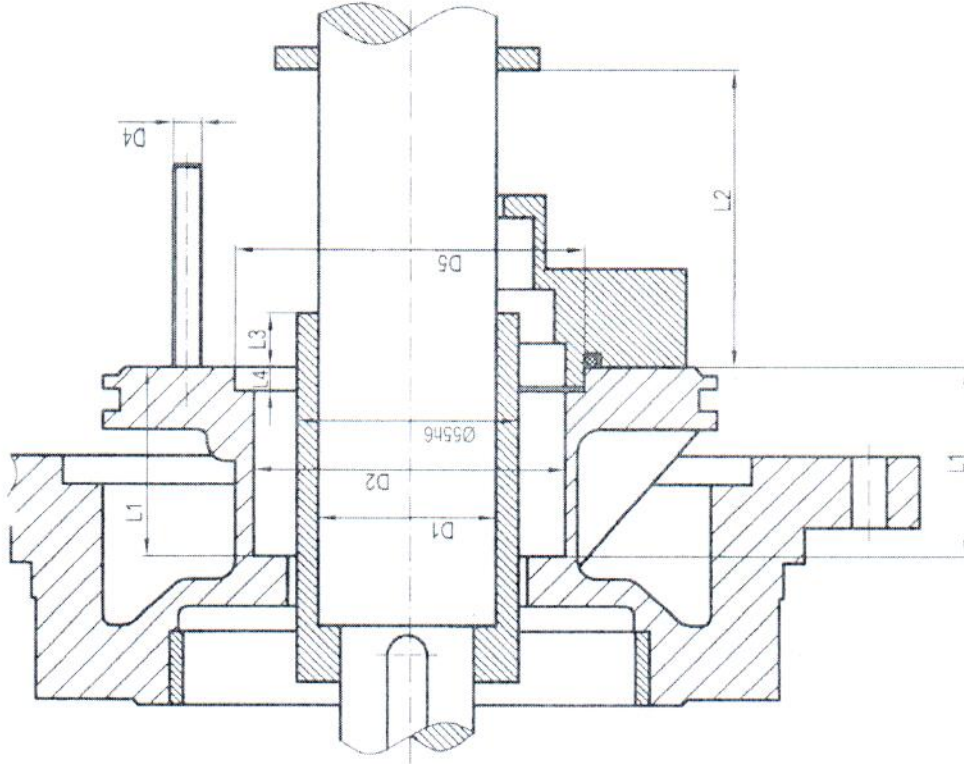
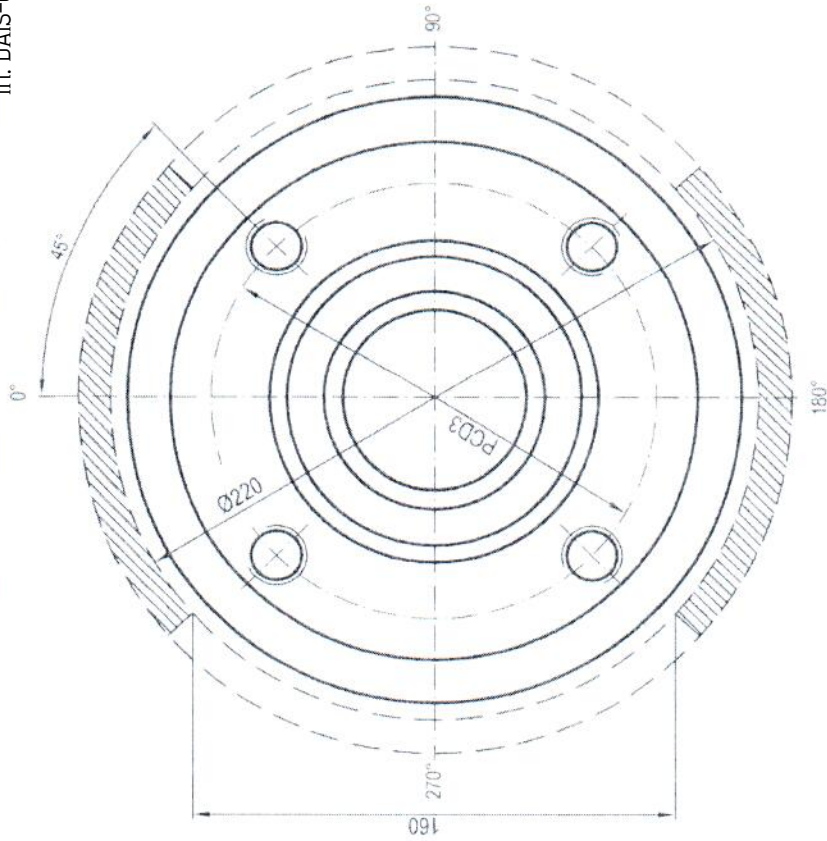
Mechanical engineer



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Value	Units
D1	mm
D2	mm
PCD3	mm
D4	mm
D5	mm
L1	mm
L2	mm
L3	mm
L4	mm
Marimea maxima O.D.	buc.
Nr. bolturi:	4
Forma boltului:	fielat pe toata lungimea
Duritatea arborelui din AISI 316L (150 HB)	Yes or No
Data de specificat valoarea sau materialul	42CrMo4

Pozitie montaj : P4R CP4B

Arta : 4

Instalatia : Parc Rezervoare

Intocmit (nume, semnatura) Ion Ene	Vizat (nume, semnatura) ing. G. Popescu	Aprobat (nume, semnatura) ing. C. Iorgu	Data : 16.10.2018
TURBOCOM E. C.			FISA SELECTIEI ETANSARI MECANICE - A
			T 0100 - 01 - 00/BD