

Seal Application Order / Enquiry Form (SAF)

SECTION 1: Customer Details

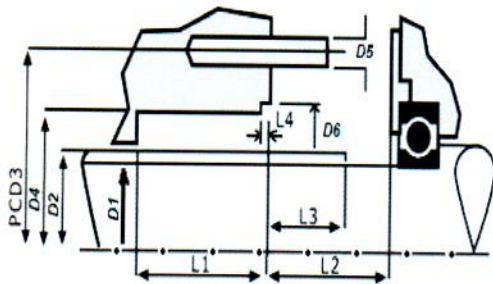
Pos:

310-P3

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	☒	Vertical
Area of Plant *	Continuous Catalyst Regeneration	Direction of rotation:	CCW	☒	CW
Pump Duty *	Recycle NaOH+H2O				
Company:	PETROTEL-LUKOIL S.A.	Phone no:	+40-766257243		
Engineer:	IORGOIU CIPRIAN	Email:	ciorgoiu@petrotel.lukoil.com		

SECTION 2: Seal Dimensional & Type Details

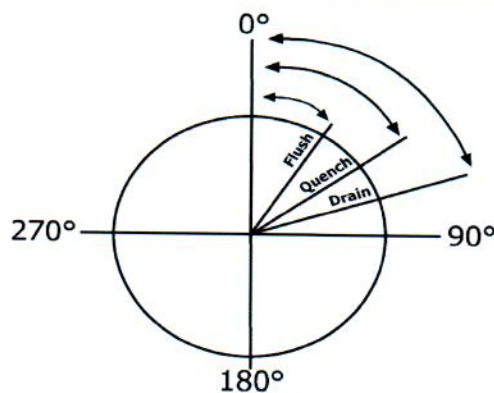
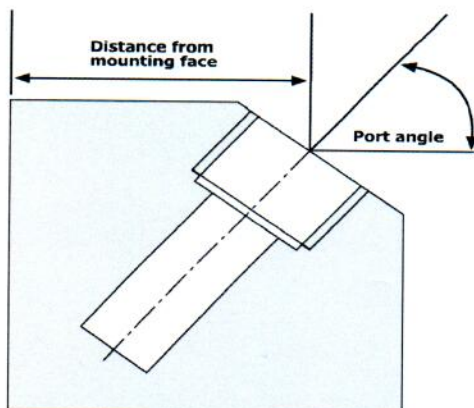


	Value	Units
D1 (Shaft OD):	35	mm
D2 (Sleeve OD):	45	mm
PCD3 (Bolt Circle Dia):	110	mm
D4 (Pilot Bore):	65	mm
D5 (Bolt Size):	M10	mm
D6 (Pilot Turn):	85	mm
L1 (Chamber Dept):	47	mm
L2 (Dist First Obstr.):	60	mm
L3 (Dist Sleeve Outside):	-	mm
L4 (Pilot Lip Length):	-	mm
Max. Gland O.D.	130	mm
Bolt No:	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		



Port Orientation (viewed from motor end)

	Port 1	Port 2	Port 3	Port 4	Port 5
Port Function*:	F				
Axial distance from mounting face:	20 mm				
Size and thread e.g. $\frac{1}{2}$ " NPT:	1/4"				
Angle/Ports angle:	270°/5°				

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

SECTION 3: Pump Details

Manufacturer:	Aversa	Size / Type:	PCN 50/200
Serial No:	2005	Shaft Speed (rpm):	3000
Tag Number:	310-P3	Axial Movement* (max):	0.1 mm
Radial Movement* (max):	0.03 mm	S'Box Recess Dia*:	65 mm
Discharge Pressure*:	7 barg	API Plan No:	32
Suction Pressure*:	2 barg		
API Pump Designation:	OH1		
Seal Type:	Plan 32		
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:	NaOH + H2O	Chemical Composition / Concentration:	2,65%
Hazardous: e.g. Flammable, Toxic, Explosive	Erosion	pH APT*:	8,5
Flush Fluid:	H2O	Specific Gravity APT*:	1,12 g/cm3
Temperature:	40°C	Polymerising:	No Yes or No
Vapour Pressure APT*:	0.01KPa	Dissolved Contaminant	Chlorine Yes or No
Viscosity APT*:	-	Abrasive Content:	Yes Yes or No
Pressure in S'Box:	-	Flush Available:	Yes Yes or No
Max. Particle Size:	-	Dry Running:	No Yes or No

*APT = At Pumping Temperature

Buffer/Barrier Liq. Type or Name:	-	Flush Liq. Type or Name:	H2O
Specific Gravity:	-	Specific Gravity:	0,98 g/cm3
Viscosity:	-	Viscosity:	-
Barrier/Buffer Pressure:	-	Barrier/Buffer Pressure:	1,6 barg
Temperature:	-	Temperature:	30°C

SECTION 5: Customer Seal Suggestions

Size:	
Type:	
Ports:	
O Ring Material(s):	
Seal Plans (API):	Plan 32
Other Specification (e.g. API, ATEX):	ATEX
Quantity:	1
Price:	
Delivery:	DDP Ploiesti

Remarks:	
----------	--

Head Mechanical Engineer

[Signature]
19.02.19

Senior Mechanical Specialist Engineer

[Signature]
Iorgoian C.
19-02-2019

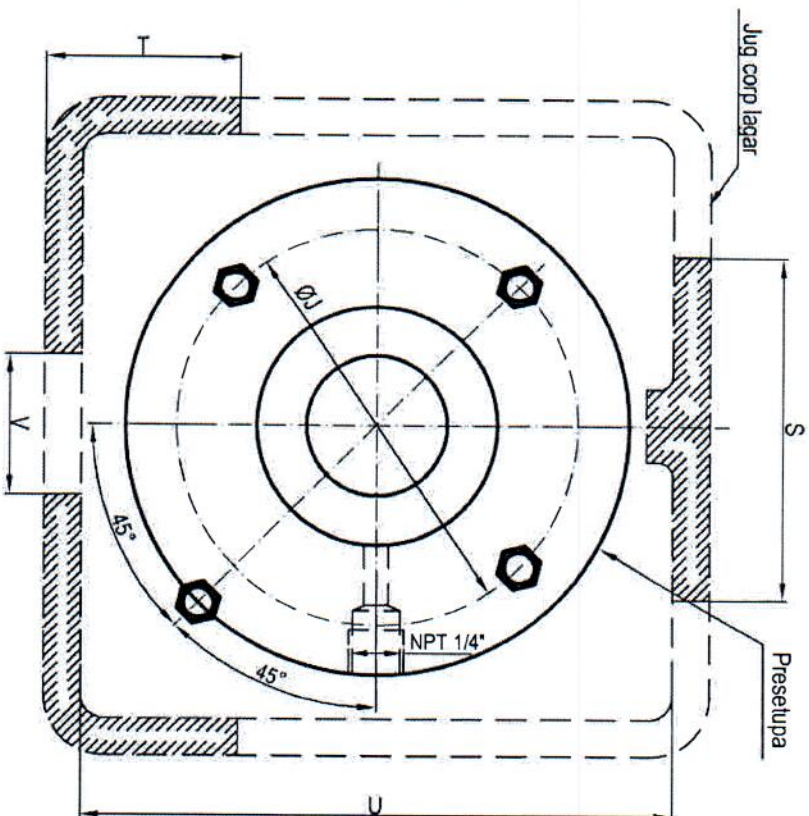
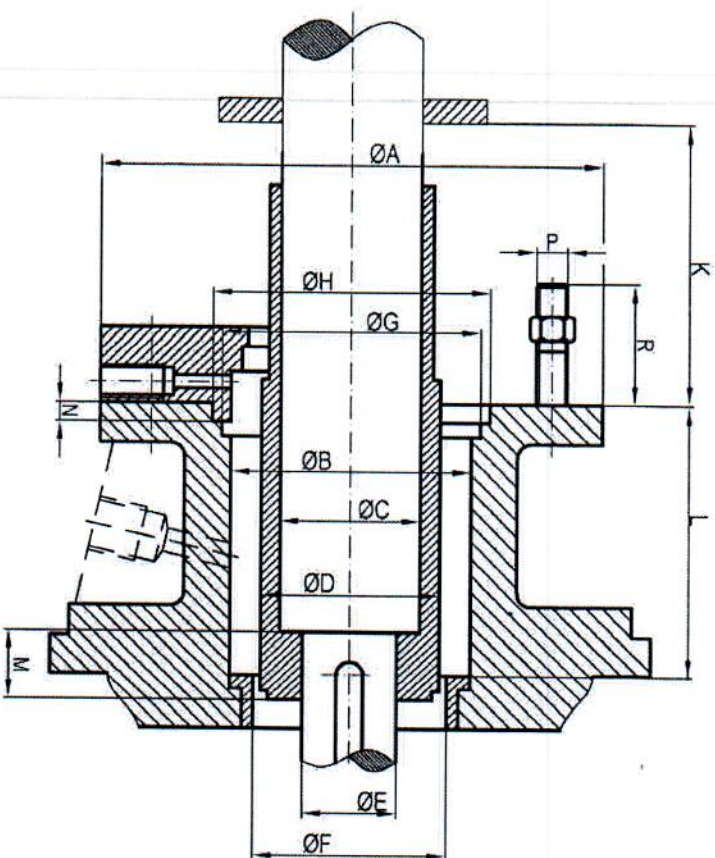
Repair Specialist in the Workshop

Chief Unit

[Signature]

Mechanical engineer

[Signature]
- 19.02.2019



ØA	Ø130
ØB	Ø65
ØC	Ø35
ØD	Ø45
ØE	Ø31
ØF	Ø46
ØG	Ø71
ØH	Ø85
ØI	Ø110

K	60
L	47
M	16
N	5
P	4xM10
R	45
S	150
T	80
U	Ø210
V	60

Pozitie montaj : Pompa nr. 3A/B
 Aria : 1
 Instalatiia : CCR

Intocmit (nume, semnatura)
 Ene Ion

Verificat (nume, semnatura)
 ing. G. Popescu

Aprobat (nume, semnatura)
 ing. M. Calin

Data :
 13.02.2017

TURBOCOM E. C.

FISA SELECTIE ETANSARI MECANICE - A

T/LPS 0147 - 00/BD