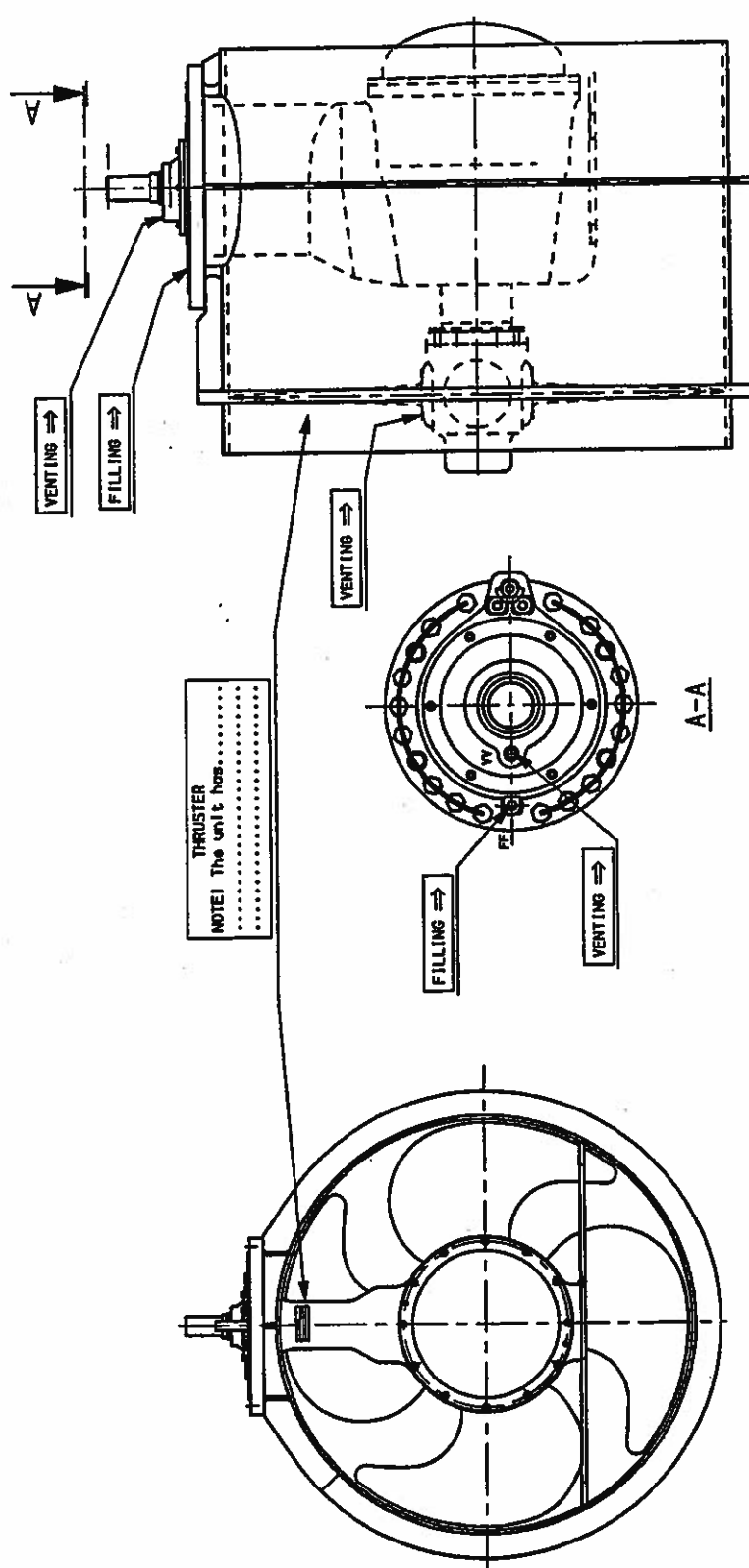


216253 OLJETANK
67701.216253 OIL TANK

Rev. Vgr.
A X99I

Posnr. Item	Art.nr. Art.no.	Betegnelse Description	Antall Quantity	Enh. Unit
1	992389	OLJETANK OIL TANK	1	STK
2	992392	LUFTE FILTER AIR BREATHER	1	STK
3	992388	NIVÅBRYTER LEVEL SWITCH	1	STK
5	83181	EO-PLUGG VSTI EO-PLUG VSTI	4	STK
6	991310	EO-PLUGG VSTI EO-PLUG VSTI	1	STK
7	413247	SKILT "PRODUKTSKILT" SIGN "PRODUCT SIGN"	1	STK
8	90006	EO-KROPP GE EO-BODY GE	1	STK
9	93767	EO-KROPP EGE EO-BODY EGE	1	STK
10	84144	KULEVENTIL KULEKIKKRANER R	1	STK



A3

NOTE!
IMMEDIATELY UPON ARRIVAL THE PROPELLER UNIT SHALL BE
FILLED WITH OIL. OIL TYPE AND QUALITY ACC. TO ROLLS-ROYCE
INSTRUCTION 11866 OR 11867. SEE ALSO OUR INSTALLATION
DESCRIPTION.

THRUSTER
NOTE! The unit has.....
.....
.....

FILLING ⇒ = 1 OFF
VENTING ⇒ = 1 OFF

= 2 OFF

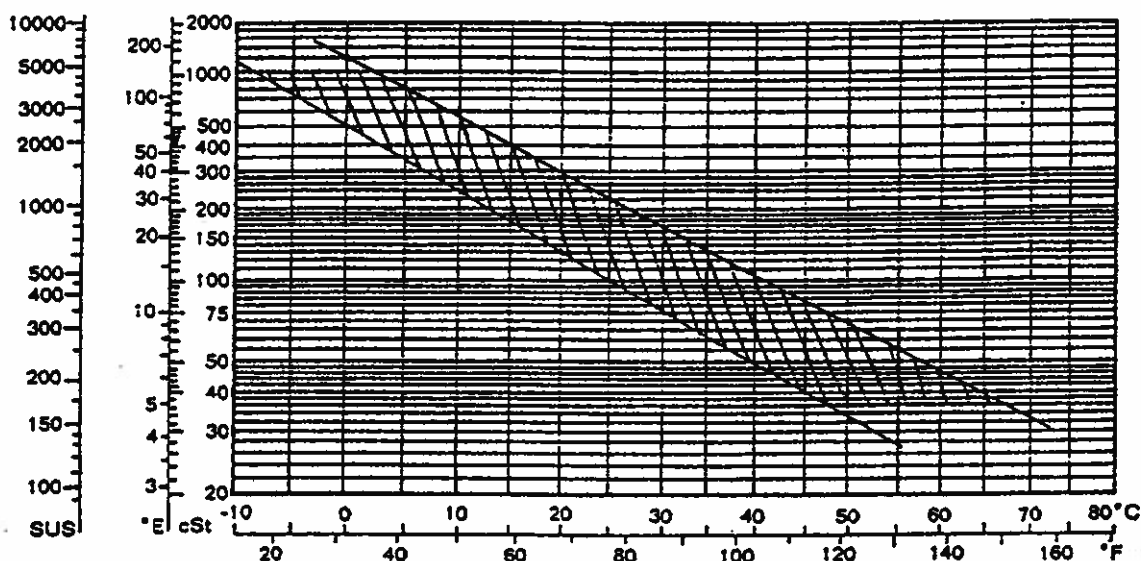
Item No.	Description	Reference	Material	Remark
Plant		Order No./Prod. No.		Weight kg
Drawn	BEK	Checked	DB	Approved
Oil Filling Instruction		Surface texture ISO/R 1302 Ra µm	✓	✓
Placing of Signs - TT		Scale	1:1	A3
		Sheet of	1	1
		Date	20010330	Previous dng.
		Class code	60001	311130
		Rolls-Royce		

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REQUIREMENTS FOR HYDRAULIC OIL

A solvent refined mineral oil of good quality, containing additives against foaming shall be used. The viscosity shall be within the limits in the diagram below. For work in tropical waters only, choose viscosity on the upper limit and for arctic conditions, on the lower limit. The viscosity of the oil shall be within the limits also after a long time in service.



Shearing stability (for oils containing VI improvers) decrease of viscosity at 98.9°C after shearing 250 cycles

max. 20%

DIN 51382

Density (20°C)

max 910 kg/m³

Flash point (COC)

min 180°C

ASTM D 92

Emulsion test

30 min / 3 ml

ASTM D 1401

Air release (50°C)

10 min

DIN 51381

Corrosion test on copper (3 h 100°C)

degree 2

DIN 51759

Rust test (24 h)

0

ASTM D 665 B



Oxidation stability increase of
neutralising number after
1000 h max

2.0 mg KOH/g oil

ASTM D 943

Influence on packing material
(mat 70 NBR/769 Messrs Carl
Freudenberg GmbH) after 100 h
And 80°C

Change in volume

-1 to +4 %

DIN 53521

Change in hardness

± 4 shore

DIN 53505

For steering propellers and thrusters, the oil must also fulfil the following requirement:

Load carrying property (FZG gear test)

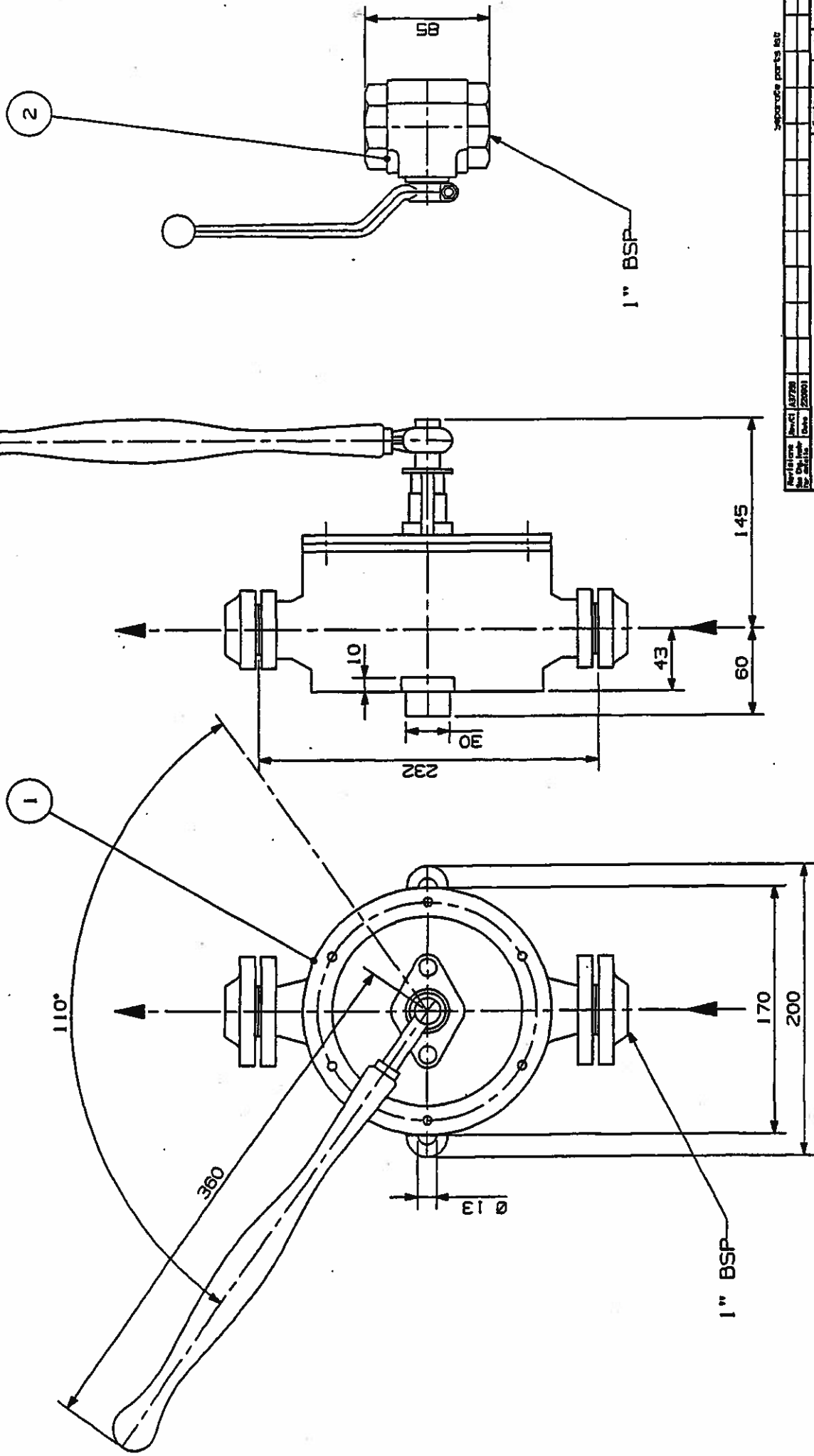
Load step 12

DIN 51354

Do not mix motor oil with other types of oil, even if they fulfil the requirements in this specification. Very small amounts of motor oil in e.g. turbine or hydraulic oils mean that the quality of these oils is considerably lowered.

The oil is changed when laboratory tests show that something of the following has happened:

1. Too high neutralising number
2. Too low remaining amount of EP-additives
3. Too high amounts of insoluble particles in the oil
4. The viscosity is not within the limits in the diagram above.



CAPACITY = 22.5 L/Min
 DOUBLE STROKES = 55 per min.
 MAX. DELIVERY HEAD = 25 M
 WEIGHT = 8 KG
 MATERIAL = CAST IRON/BRONZE

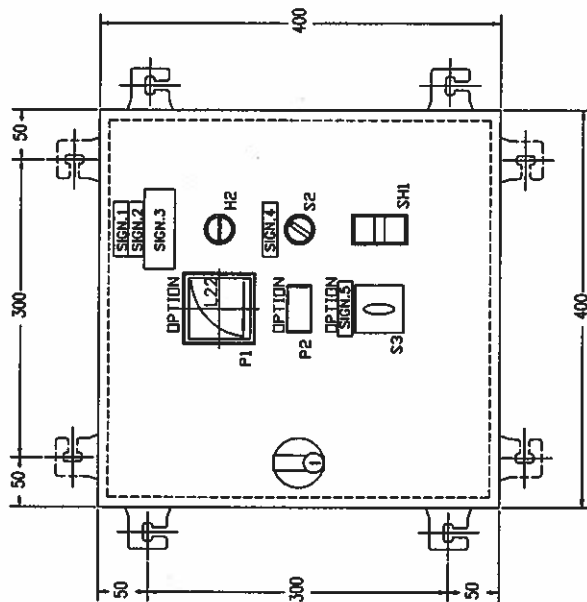
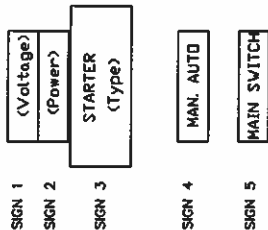
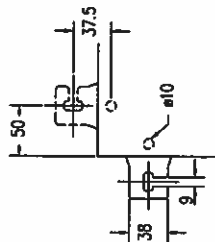
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Title: ARR-HANDPUMP FOR DRAINING AV THRUSTER		Drawing number: 85700		Drawing number: 311126		Drawing number: A	
Part name: ARR-HAND PUMP FOR DRAIN OF THRUSTER		Part number: TT 1100-2400		Part number: 311126		Part number: A	
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311126
65700.311126

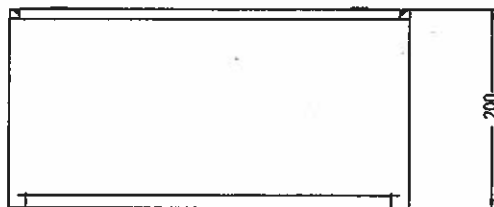
ARR.HANDP.DREN.THR.TT1100-2400
ARR.HANDP.DRAIN

Rev. Vgr.
A T99P

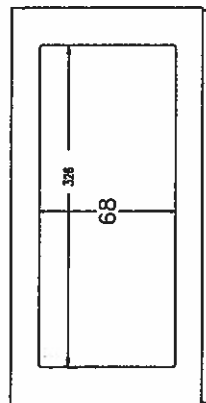
Posnr. Item	Art.nr. Art.no.	Betegnelse Description	Antall Quantity	Enh. Unit
1	84311	HANDPUMPE DESIGN A SIZE HAND PUMP DESIGN A SIZE	1	STK
2	84146	KULEVENTIL BALL VALVE R	3	STK

DETAIL
MOUNTING BRACKET

FRONT VIEW



SIDE VIEW



BOTTOM VIEW

OPTIONS:
ACC. TO CLASS/ CUSTOMER REQUIREMENT, SEE PARTS LIST

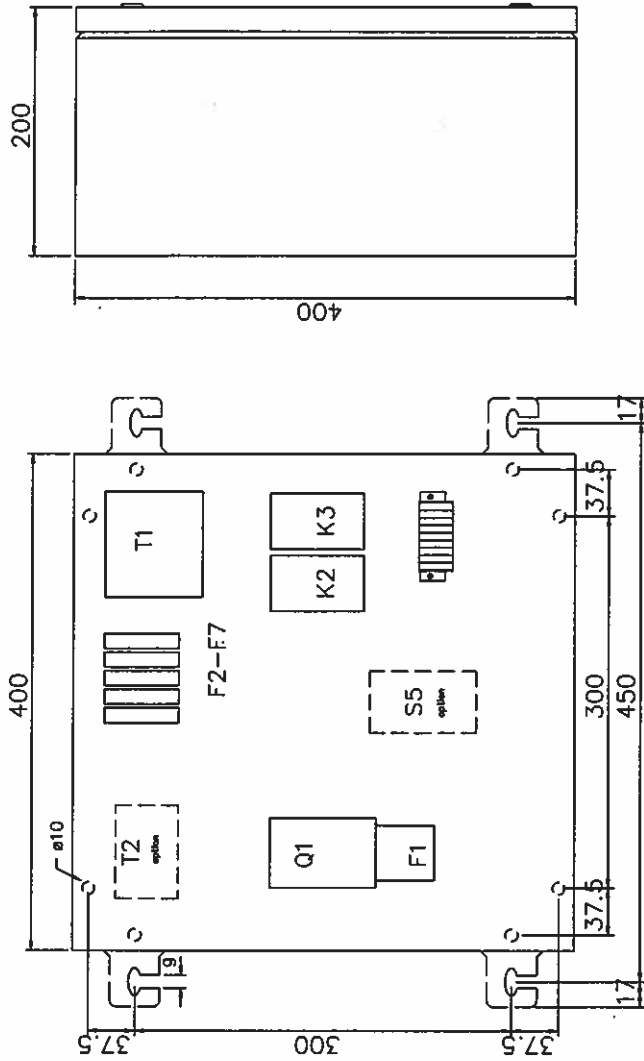
ENCLOSURE SAREL E3019 (400X400X200) LAY OUT		Original:
Draw. no.		Repl. for:
Rev.		Repl. by:
Yard. Hull:		Page:
PS30216		


Rolls-Royce
Rolls-Royce Marine AS
dep.: Propulsion - Uistain

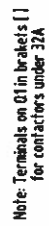
P.O.Box 158, H-6087 USTENIK, NORWAY Tel.: +47-700-14000 Fax: +47-700-14014

Rev.	Date	Description	Draw.	Appr.	Reference:
					Draw. A4U/21.08.97
					Contr. LK9/21.08.97
					Appr. LK9/21.08.97

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Rev.		Date	Description	Reference:		Original:	
						STARTER DOL 0-32a	
						SAREL E3019	
						ASSEMBLY DRAWING	
Rev.		Draw.	Appr.	Draw. no.		Yard. Hull:	
-				PS30472			
 Rolls-Royce Rolls-Royce Marine AS dep.: Propulsion - Ulstein				P.O.Box 158 N-6087 ALSTEDT, NORWAY Tel: +47-700-14000 Fax: +47-700-14014			
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Rev.	Date	Description	Draw.	Appr.	TR/10.08.01
A	25.02.01	Added item K130.31: Control signal V99	low	low	Draw. TR/10.08.01
B	22.04.02	Changed cone term 30.31, Added term 32.33	low	low	Draw. TR/10.08.01

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