

Acceptance criteria for Fuze 447 (Empty Assy)

1. All the raw material for all the components procurement detail along with NABL test reports has to be submitted at OFK before commencement of production
2. Based on the documents at (1) supplier has to submit 181 Nos of Fuze for inspection. The subject store shall be inspected by OFK rep. as per criteria attached.
3. The same 181 Nos has to be supplied to OFK for Type testing based on the satisfactory performance in dynamic proof bulk lot(1036 Nos) clearance will be accorded.
4. Lot No 1, 3 and 5 shall be subjected in type testing
5. All the lots of subject store shall be sentenced on basis of critical inspection and dynamic proof.
6. In case of any failure in dynamic proof, empty/filled due to reason attributed to fuze, the firm has to replace full quantity free of cost.

-; Annexure :-

Sub Assembly :- Copy of format for each of the sub assy. for parameters to be checked as per Drg. /Specn. & Assigned AQL is enclosed for reference and guidance.

A. CLOCK WORK MECHANISM

Sl No.	Dimensional /test	Critical	Major	Minor
1.	OD of plate '4' \varnothing 39.78-0.13 mm		v	
2.	Protrusion of striker when resting on Plate '4' 3.8 minimum		v	
3	Distance between lower face of bottom plate and top face of bridge 25.72 max			
4	Protrusion of striker when resting on CSD 1.9 max			
5	Projection of lever from face of top plate with striker hooked up 2.3 min			
6	Spin test (1300-3500 rpm)			
7	Running time band 7.71 +/- 0.02 secs			
8	Trigger load test 1.5 to 2.7 kgf (to withstand tensile force longitudinal directional of 500 gm)			
9	Pallet Assy load test			
10	Escape Wheel Assy load test (To withstand an axial load \geq 80N)			
11	Ist Wheel Assy load test (To withstand an axial load \geq 300N)			
12	IIInd Wheel Assy load test (To withstand an axial load \geq 300N)			
13	Centre Wheel Assy load test (To withstand an axial load \geq 300N)			

B. CENTRIFUGAL SAFETY DEVICE

Sl No.	Dimensional /test	Critical	Major	Minor
1.	Spinning Test 1300-3500 rpm		v	

C DETONATION SAFETY DEVICE

Sl No.	Dimensional /test	Critical	Major	Minor
1.	Function in spin apparatus (1300-3500 rpm) (i) The safety device must not arm at a spin of 1300 rpm duration 5 seconds minimum) (ii) The safety device shall be armed at a spin of 3500 rpm.		v	
2	Function in centrifugal acceleration (1400 gm to 4000 m/s ²) i. The safety device must not be released at an acceleration of 14000 m/s (1400g) ii. The safety device must not be released at an acceleration of 40000 m/s (4000 gm)			
3	Arming Delay time test (0.100-0.200 sec) at 5000 r.p.m.			

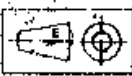
D FUZE BODY SUB ASSEMBLY

Sl No.	Dimensional /test	Critical	Major	Minor
1.	Dimension from plane of the fuze body for nose (with slide washer inserted to the sliding surface of the hand against the nose (22.36 mm min)		√	
2.	Dimension from plane of the Fuze Body for Nose (With Slide washer inserted) to the gap plane of Bridge (23.62 mm Max)		√	

E FFV BODY ASSEMBLY

Sl No.	Dimensional /test	Critical	Major	Minor
1.	Torque for fuze (1-4 Nm)		√	
2.	Air tightening of Fuze to be tested at an over pressure of 35 Kpa for 30 sec		√	

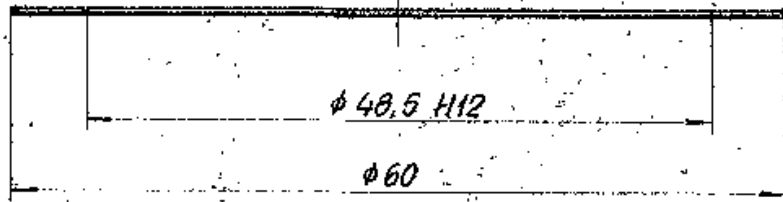
Marking :- to be checked visually (Where ever required) AQL 2.5%



D.C.I. 33487-A

Utgåva	Andr nr	Plats på ritning/Beskrivning	Datum	Utförd	Gransk/Godk
-	-	Translated from Swedish	80-09-17	LA	RP
B	1-2	C2, B2	80-10-29	LA	RP
		DRG. SEALED	D.C.I. 33487-A	7.9.83	
		INDIGENOUS MATERIAL ADDED.	DC 35041-A	5-3-91	

Allt obehörigt utryckande av denna handling beivras enligt lag



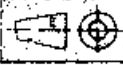
INDIGENOUS MATERIAL :-
 IS 6911:72 GR 07 C-18 NR 9
 COLD ROLLED.

External and internal diameter
 punched in the same direction

Mass ≈ 2g
 Free from burrs

Del	Antal	Benämning/Beteckning	Ritning/Referans	SIS steel 2331-19	
Om ej annat anges gäller Tolerans		Ytfinish	Gräddning	Form- och måtttoleranser enl SMS 1920	Skala
SMS 715 medium				Måttol Nårigg yta/Tapp yta	2:1
Konstr/Bilag	LA	Ritningsgränshet	Konstruktionsgränshet	Registrerad	
Datum	80-06-10	Kontrollerbeteckn	Produktionsgränshet	Datum	
		Benämning			
		Slide Washer			
FFV				Ritningsnummer	
				F1301-122850 B	

01-112401
 Inga svar



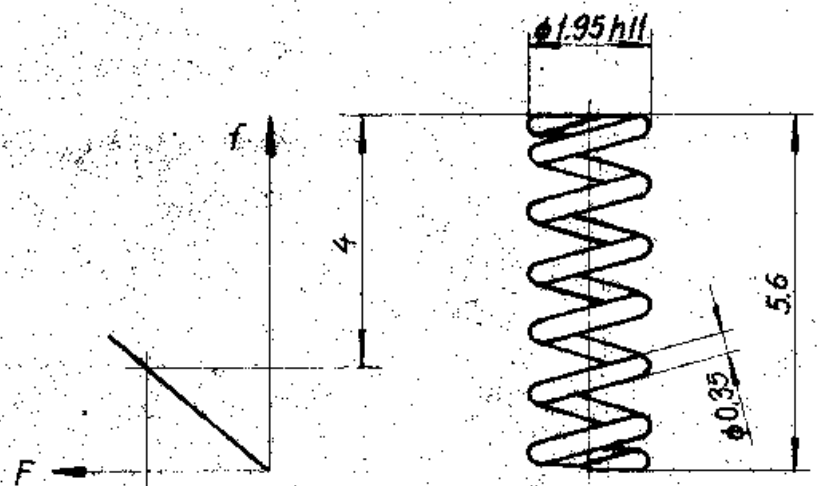
D.C.I. 33179-A
33363-A

Utgåva	Andr nr	Plats på ritning/Beskrivning	Datum	Utförd	Gransk/Godk
-	-	Translated from Swedish	80-06-02	LA	MSO
		DRG. SEALED PROVISIONALLY	P.E.I. 33179-A	19.6.81	
		DRG. SEALED	D.C.I. 33363-A	7-10-82	
		INDIGENOUS MATL. ADDED.	D.C.35041-A	5-3-91	

Scale 1:1

102

Allt obehörigt utrymmande av denna handling beivras enligt lag.



8.8N/mm

$n_u = 7.5$ coils
 $n_v = 6$ coils

Ends squared

INDIGENOUS MATERIALS:-
154954 Pt. II GR. I

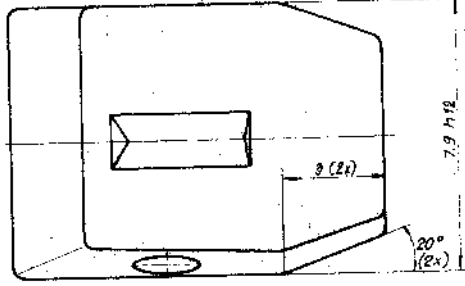
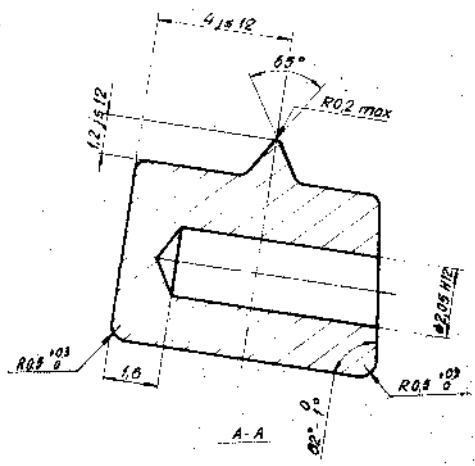
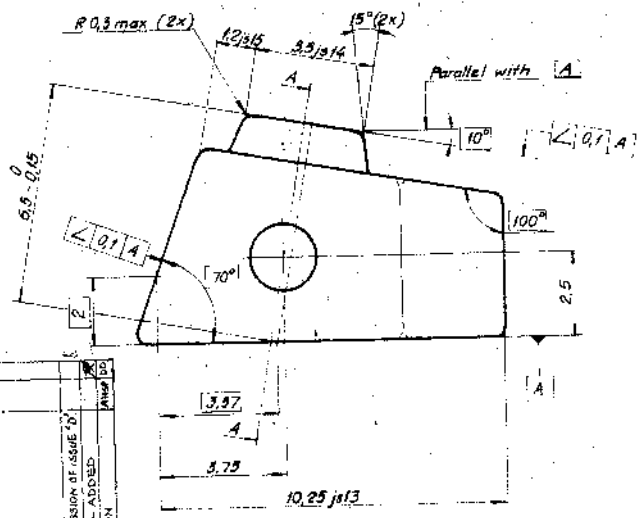
Dir		Antal		Benämning/Beskrivning		Störning/Referens		SIS Steel 2331-06	
Märk och serienr. Angiv påse		Tillstånd		Skadans		Märk		Material/Övrigt	
10 55 2300				Typ		Märk		Form och specifikation enligt SÄS 1920	
Kännetecken		Mått		Konstruktionsgränsvärde		Godkänd		Måttavvikelse	
80-04-22		Kalkyleringsgränsvärde		Förskrivningsgränsvärde		Datum		Måttavvikelse	
		Mått		Förskrivningsgränsvärde		Datum		Måttavvikelse	
01-112401				Spring				Måttavvikelse	
FFV								F1301-122560A	

DRG. AVAIL. ART. F. ON CD

(161)

D.C. 36073-A

Scale 1:1



INDIGENOUS MATERIAL
 BS 578: Pt 1: Cl. 420
 S 37 FR CONDITION

Mass 2.7g
 Spec. F1301-912670

65 Steel E303-06

Del. Amt.	Examining	Specimen	Ring	Reference	Material	Comp.
7	15	16	2	5	0.5	0.5
00-04-06						

Key

FFV

F1301-122540

DATE	AUTHORITY	REVISION
3-4-31	D.C. 36073-A	DRG. SEALED IN SUPERSESSION OF ISSUE '0
24-3-31	SA 1185/1-X	INDIGENOUS MATERIAL ADDED

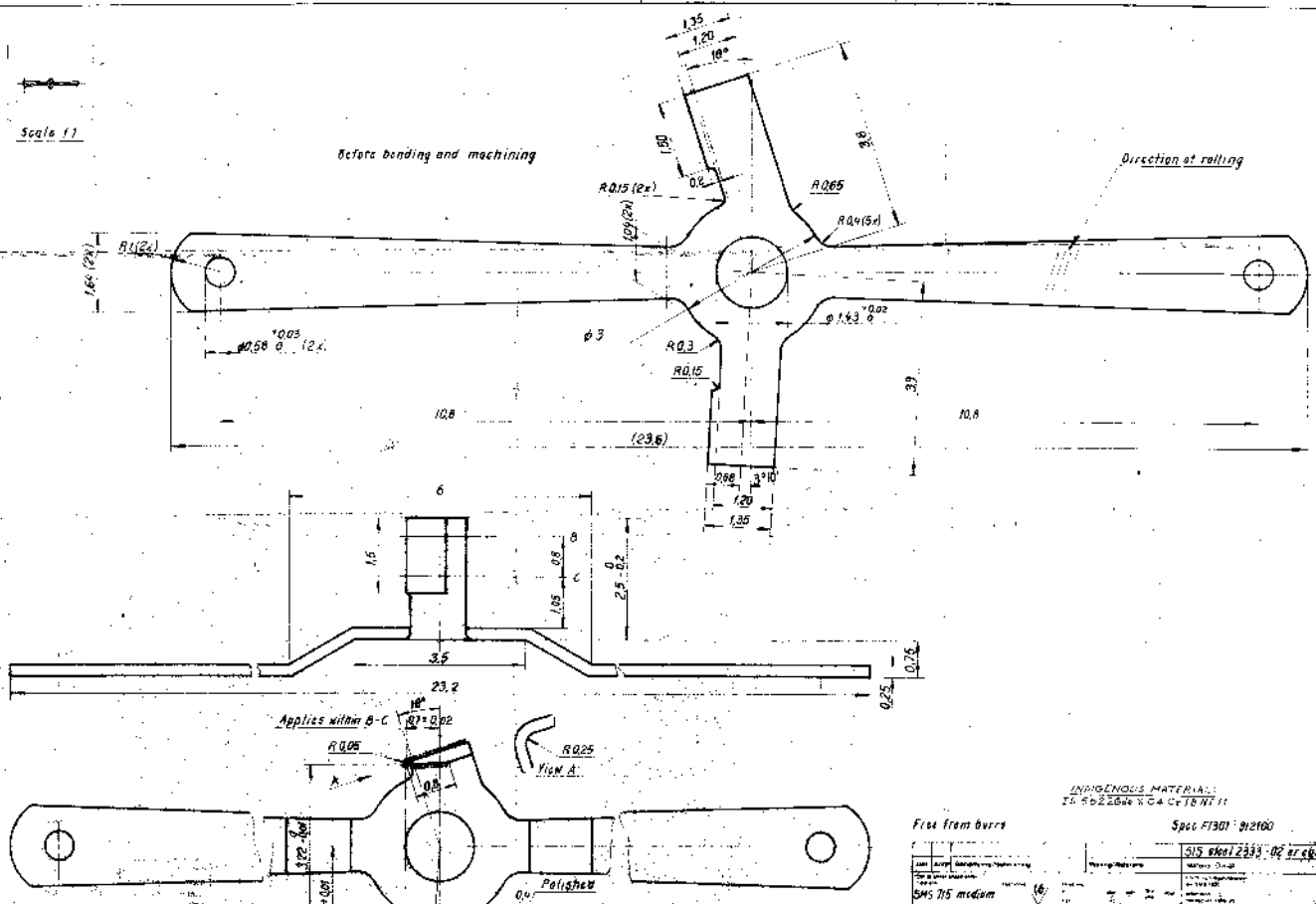
Rev.	Date	Description
E 1-3	30-01-16	FF 66, 64, C1, B5 Drawing amended
D 1	86-04-03	LA
C 1-3	00-10-31	FF 122, Df. C3, C1, 3 B2, 06
B -	00-08-23	Redrawn, see F1301-122540 A

All dimensions are in millimeters unless otherwise stated.

Scale 1:1

Before bending and machining

Direction of rolling



INDIGENOUS MATERIAL
IN 9522804 954 078 WT 11

Free from burrs

Spec F1301 012100

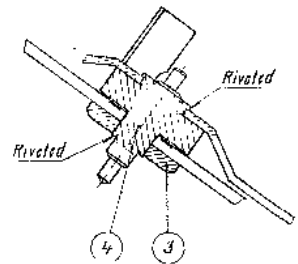
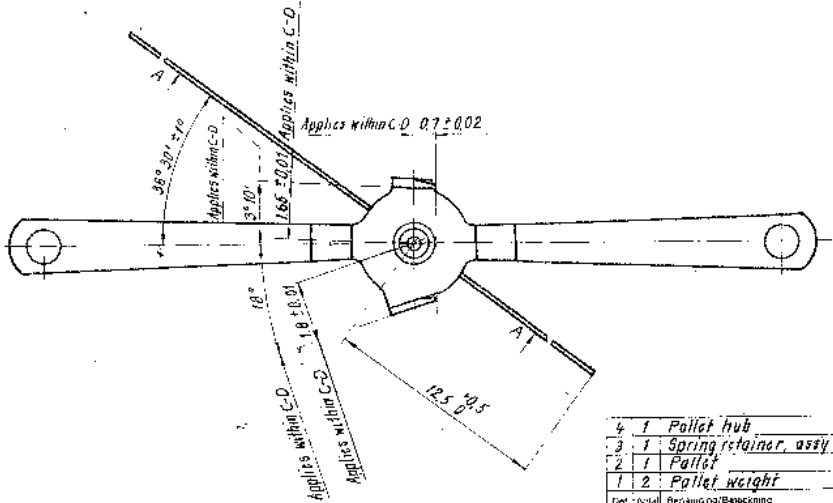
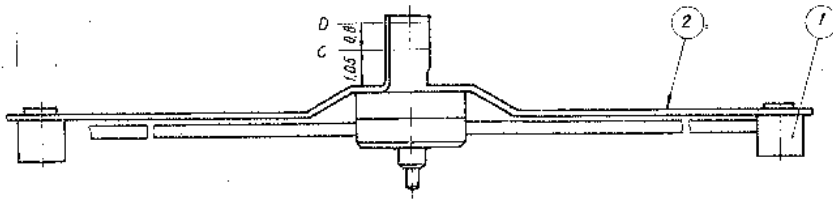
Part Name	515 0001 2373 02 er equal
Material	SMS 715 medium
Quantity	1
Date	19-11-02
Drawn	19-11-02
Checked	
Approved	
Part No.	F1301-121100

Pallet

FFV

85

Scale 1:1



A-A

Mass: ~0,2 g

Spec F1301-912090

4	1	Pallet hub	F1301-123810
3	1	Spring restraint, assy	F1301-123770
2	1	Pallet	F1301-121160
1	2	Pallet weight	F1301-119100

1	127-6600153870-A	DRG. SEALED	93
DRG DATA AUTHORITY	KEYISMIN	ZONE	AHEP D.O.
DRG SEALED	12-7-80		

Material	Designation	Quantity	Unit	Remarks
IL	5/10			
79-11-07				79-11-08
Pallet Arms, assy				F1301-121151 B

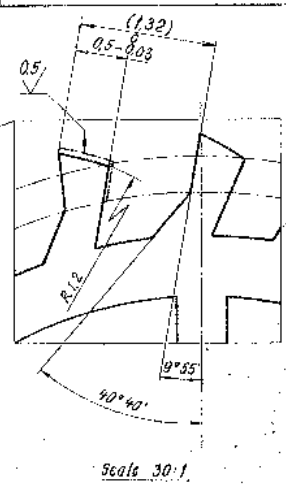
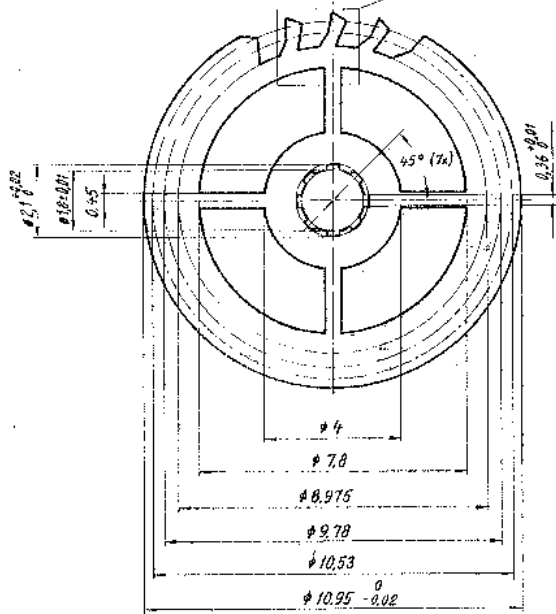
01-116673

10 - Translated from Swedish
 84-02-13
 FFV
 F1301-121151 B

DRG AVAILABLE ON CD

Scale 1:1

Number of teeth = 25



0.3±0.01

INDIGENOUS MATERIAL -
BS:2870 GRADE CB 101 CONDITION W.P

Hardened to 360-410 HV
Free from burrs

Spec F1301-912080
Beryllium copper 3/4 hard

Det	Ampl	Bar/Ampl/Bar/Ampl	Ring/Retains	Machine/Comp
SMS 715 time		19-11-01	79-11-07	10-1
Escape wheel				
FFV				
F.1301-121130 E				

27-3-31	D.C 35065-A	INDIGENOUS MATERIAL ADDED.
21-9-27	DCI.34235-A	DRG SEALED IN SUPERSESSION OF ISSUE 'D'
01-121140	E 1-4	08-07-04-83
D	Translated from Swedish	
08-01-19	AF	16
84-02-13	AF	16

DRG AVAILABLE ON C.D.

D.C.I. 33513-A		UIC/4 1A	And 1	Plats de (re)ing/Beskriving	Datum	Joro	Granta/Doth
				Redrawing Drawing amended By 82-03-12	3.3.5.13.A	21.03	
				REASON: RECALCULATED			
				REASON: BY CIPM-109906			

8.9 max

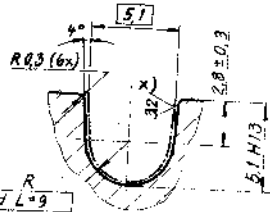
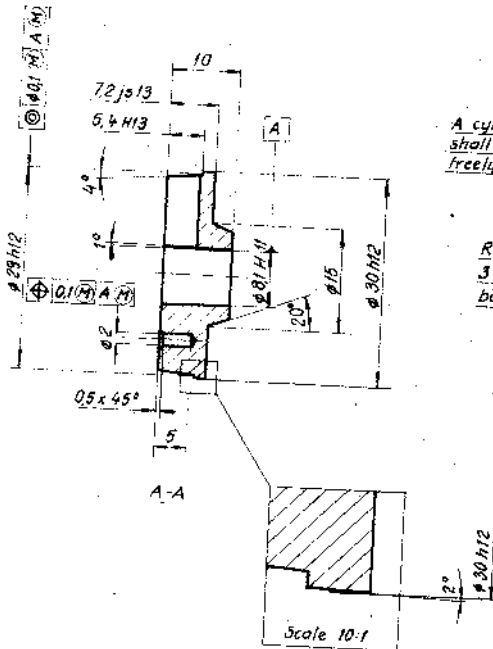
ø 15.6 max

2 req RDX 98-1-1		Mass = 2.9 g	
1 Cup		Spec KATF 53268	
F1301-119901		Density = 1.6 ± 0.05 g/cm ³	
Det. Artil. Beskriving/Beskriving		Reining/Rote-ans	
Materia. Orsig.		Skala	
5:1			
RD/LA	RD/LA	RD/LA	RD/LA
79-04-23	79-04-23	79-05-09	79-05-09
FFV		Fuze Magazine	
01-112521		F1301-119911.A	

INDIGENOUS MATERIALS: SS. 1490 LM 24 M.

17

All dimensions are in millimeters unless otherwise indicated.

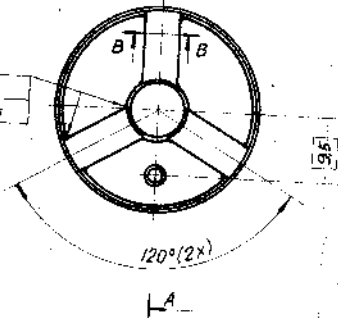


Scale 5:1
B-B

A cylinder $\phi 5$ and $L=9$ shall be able to run freely in the grooves

Surface defects in the form of protrusions

R0.3
3 grooves both ends



Spec. F1301-911270

Mass ≈ 11.8 g

SIS AT 4252-10 or Granges Aluminium L172 special

Det	Ändr	Beskrivning/Beskrivning	Ändring/Revision	Material/Ändring
5	17-14		6.3	
16	78-12-15		8.7	

Casing

F1301-118706 D

Ändr	Ändr	Ändring	Ändring	Ändring
D	1-2	INDIGENOUS MATERIALS ADDED.	358 E1-A	5.3.91
E	3	DRG SEALED IN SUPERSESION OF ISSUE B	DRG 1.83419-A	5.4.83
C	1-2	Drawing amended. F4, E1, E2, D5, C6, B6, B5	82-03-11	A1
B	-	Translated from Swedish	81-09-15	A1
E	-	Check på ritning/Beskrivning	79-10-18	A1

4-110680

DRG AVAILABLE ON ZED

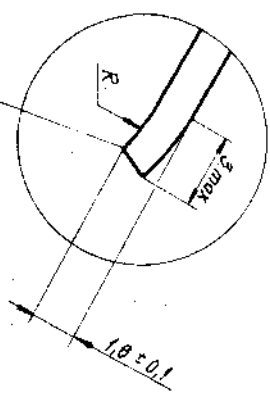
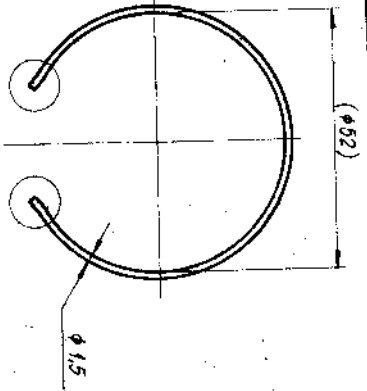


S-4-83 DC.1.33419-A
S-3-91 DC.35041-A

DRG SEALED IN SUPERSESSION OF ISSUE FB01-072150E
INDIGENOUS MATERIAL ADDED.

Utgåve: 11 KR
Transkribed from Swedish 81-12-07

Allt utnyttjande av denna handteckning enligt lag



Scale 5:1

INDIGENOUS MATERIAL:-
IS 4454 PT. IV GR I

After being inserted into a 1,6 mm groove with external diameter 53,4 mm in a sleeve with internal diameter 48mm, the entire spring ring shall be below the internal surface of the sleeve

Mass: ≈ 2,0g
Free from lubricant

Material/Öring: S15 steel 2331-06 polished

Drift / Använd	Beställning/Beställning	Reparering/Reparering	Material/Öring
3 IT 14/2			S15 steel 2331-06 polished
LA			
81-03-16			

Spring Ring

RFV

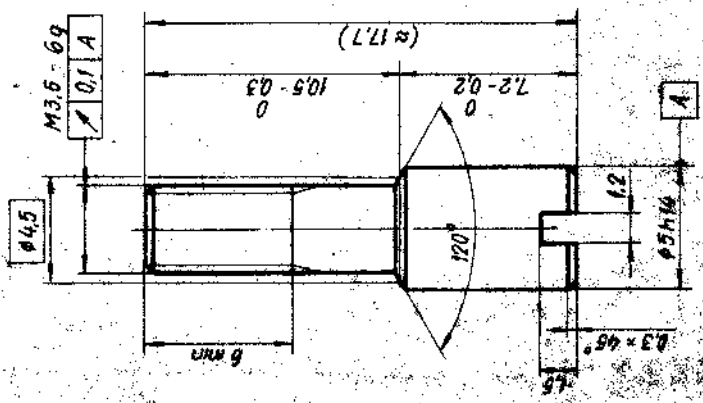
FB01-125540 B

DRG AVALLIARUS ON CRI

Ugates	Andr nr	Prise på innlegg/Bestyring	Datum	Utstedt	Grunnlag
		Translated from Swedish	01.12.07	IL	M
5-4-83	D.C.T.	D.R.S. BEA/F.D. IN SUPERSESSION OF ISSUE F 1301-075 +90 B			
5-3-81	D.C. 35041-A	INDIGENOUS MATERIAL ADDED.			



Scale 1:1



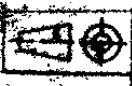
INDIGENOUS MATERIAL -
 15-1564-81-00 3035
 COL'S DRAWN

Free from burrs

55 Steel 2346-02 or 23101

5M5 715 medium

F1301-125240



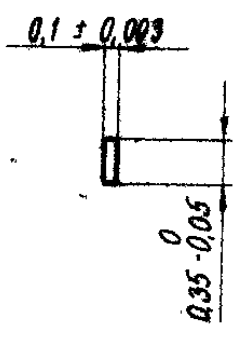
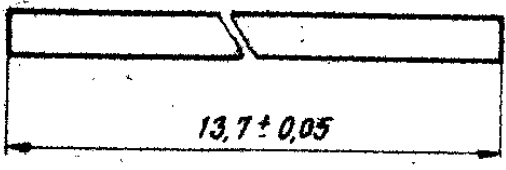
Scale 1:1

Utgåva	Ändr nr	Plats på ritning/Beskrivning	Datum	Utförd	Gransk/Godk
C	-	Translated from Swedish	84-02-10	<i>[Signature]</i>	<i>[Signature]</i>

90

All dimensioner anges i millimeter
undantag såvida inte annat anges

127-86	DCI 33970-A	DRG. SEALED
DATE	AUTHORITY	REVISION
DRG. SEALED: - 12.7.86		ZONE I AHSR DO

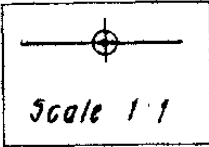
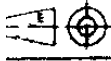


Free from burrs

Spec F1301-913950

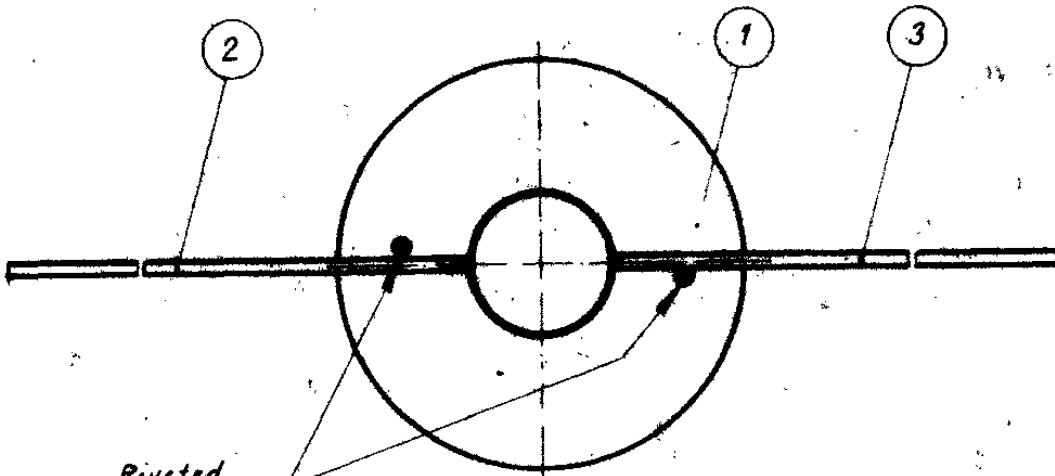
Det	Antal	Beskrivning/Beteckning	Ritning/Referens	Material/Övrigt	
				Nivaflex 630-660 HV	
Särskilda anmärkningar till Tolerans		Ytbehandling	Gradering	Form- och tillverknings av 2002 1000	Stuk
/		1.6	R Fol	Material Nivaflex HV/Tung HV	20:1
Kunde/Best	Plats/Plats	Konstruktionsgranskad	Granskad	Registrerad	
80-09-19					
Datum		Produktionsgranskad	Datum	Datum	
80-09-19			80-09-19		
Beskrivning					
Hair Spring 1					
FFV		F1301-123800 C			

127-120370
Made in USA



Utgåva	Andr nr	Plats på ritning/Beskrivning	Datum	Utförd	Gransk/Godk
G	-	Translated from Swedish	84-02-13	FFV	G. K.
12-7-86	D.C.133970-A	DRG SEALED.			9.2
DATE	AUTHORITY	REVISION	ZONE	AHSP	DO.
DRG SEALED:-12-7-86				SIG 88	

Allt obehörigt utnyttjande av denna handling beträffas enligt lag



Riveted

The riveting to withstand tensile force in longitudinal direction of 500g. See spec F1301-912090 Pallet assy

Mass ≈ 0,047g

3	1	Hair spring 2	F1301-123720
2	1	Hair spring 1	F1301-123800
1	1	Spring retainer	F1301-123730

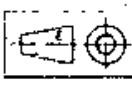
Det	Antal	Beskrivning/Beskrivning	Ritning/Referens	Material/Gvngt

Kontroll	År	Kontrollör	Datum
80-09-12			80-09-19

Spring Retainer, assy

FFV F1301-123770C

1-121151



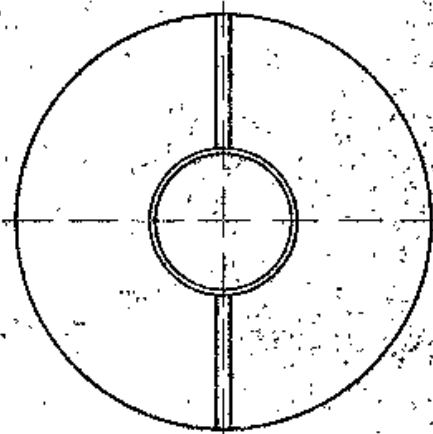
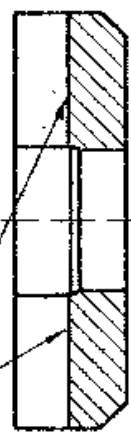
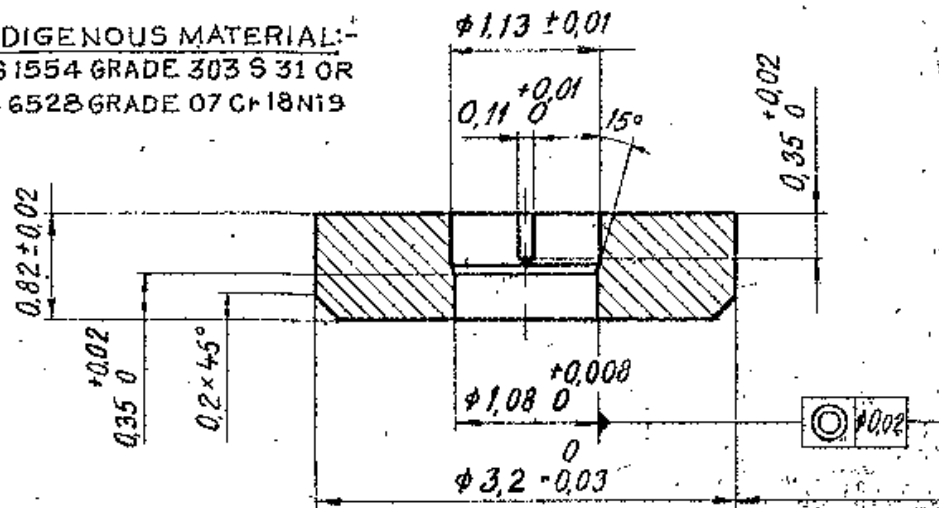
Scale 1:1

Utgåva	Andr nr	Plats på ritning/Beskrivning	Datum	Utförd	Gransk/Godk
0	-	Translated from Swedish	84-02-10	<i>Jepm</i>	<i>li AC</i>

Allt obehörigt utnyttjande av denna handling beivras enligt lag

12-7-86	D.C.I. 33970-A	DRG. SEALED
	AUTHORITY	REVISION
	DRG. SEALED: 12-7-86	

INDIGENOUS MATERIAL:-
BS 1554 GRADE 303 S 31 OR
IS 6528 GRADE 07 Cr 18 Ni 9



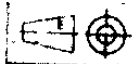
Flat bottom in slot

Free from burrs

Spec F 1301-912750

Det	Antal	Benämning/Beteckning	Ritning/Referens	Material/Övrigt
				55 steel 2346-02 or equal
Där ej annat anges gäller Tolerans		Fjärrmät 16	Gränslinje R 45°	Form- och tillverkningsanvisningar enligt SMS 1920
Konstruktör	Ändring	Konstruktionsgranskad	Godkänd	Registrerad
Datum 80-09-09	Kontroll av beräkningsgränser	Datum 80-09-19		
Benämning				Skala 20:1
Spring Retainer				
FFV				Ritningsnummer F 1301-123730 B

01-123770

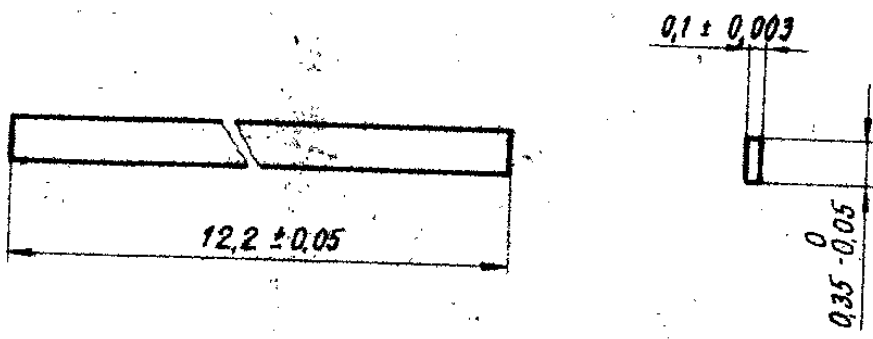


Scale 1:1

Utgåva	Andr nr	Plats på ritning/Beskrivning	Datum	Utford	Gransk/Godk
C	-	Translated from Swedish	84-02-10	<i>[Signature]</i>	<i>[Signature]</i>

Allt obehörigt utnyttjande av denna handling beivras enligt lag

12-7-86	D.C.I. 33870-A	DRG SEALED			
DATE	AUTHORITY	REVISION	ZONE	AHSP	D.G.
DRG SEALED :- 12-7-86				SIG.	

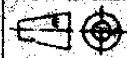


Spec F1301-913960

Free from burrs

Det	Antal	Beskrivning/Beteckning	Ritning/Retnings	Material Övrigt	
				Nivoflex 630-660 Hv	
Där in annat anges gäller Tolerans		Vyform $\sqrt{1.6}$	Gravering	Form- och tillverknings- an. SWS-122	
				Skala 20:1	
Konst/ritad	<i>Abm</i>	Reviseringsgränslinje $\sqrt{2}$	Konstruktionsgränslinje	Stämning <i>MI</i>	Regratör
Datum	80-08-29	Kontrollers/teckn	Produktionsgränslinje	Dag <i>80-09-19</i>	Övrigt
		Beskrivning			
		Hair Spring 2			
		FFV			
		F1301-123720 C			

71-123770
 Insk 17.8



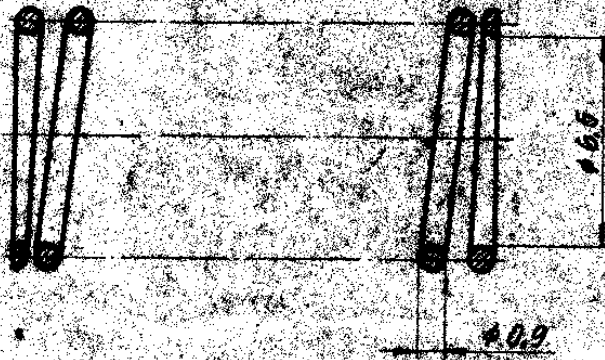
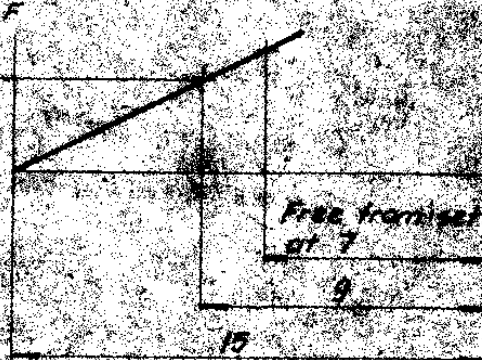
DCI 33487-A

Utgave	År nr	Platz på teining/Bestykning	Datum	Utskrift	Godkjenning
1A	1-2	Translated from Swedish B2: 01	80-06-24	LA	OK
		DRG SEALED	80-10-29	LA	OK
			83-07-11	73.58	

172-2

Allt som er trykt utstykkende av denne handling behøves enkelt lag.

20N 3 3N



INDIGENOUS MATERIALS:-

IS 4454 PT IV BDT.

$n_1 = 3$

$n_2 = 4.5$

End coils squared and ground to 85 2306

5-321	D.E. 35041-A	INDIGENOUS MATERIAL ADDED	02
DATE	AUTHORITY	PREVISION	02
Det	År nr	Benømming/Bestykning	Platz på teining
01-112410			
70 55 2304	LA		
Datum	80-06-24		
Spring			
FFV			
		F1301-122921 A	



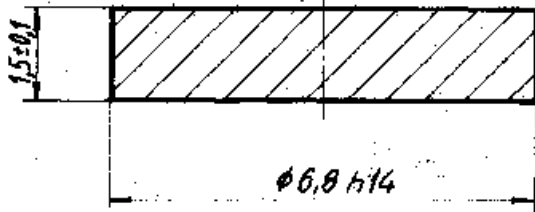
Allt oberoendigt utnyttjande av denna handling beivras enligt lag.

Utgåva	Andr nr	Titel på ritning/Beskrivning	Datum	Utörod	Gransat/Godk
-	-	Translated from Swedish	80-09-17	LA	MF
B	1	D3	81-03-16	LA	MF
C	1	D3, Drawing amended	83-09-08	AF	MF

99

INDIGENOUS MATERIALS:-

BS 216: 1961 OR IS: 4820-1966 (REAFFIRMED 1990)



--	--	--	--	--	--

5-6-98	D.C. 36422-A	ALTERNATIVE MATERIAL ADDED.			
5-3-91	D.C. 35041-A	INDIGENOUS MATL ADDED.			
12-7-86	D.C. 33970-A	DRG SEALED IN SUPERSESION OF ISSUE B			
DATE	AUTHORITY	REVISION	ZONE	ABSP	D.C.
				SIG.	

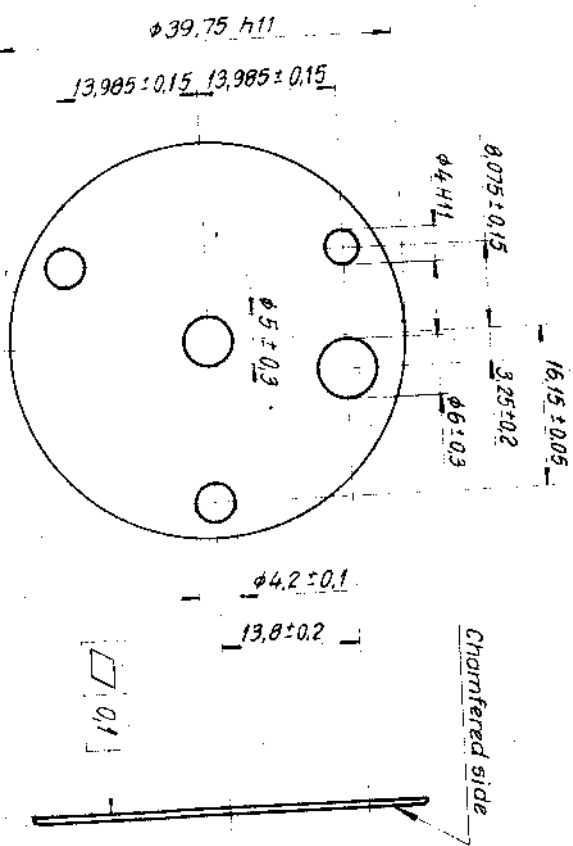
DRG SEALED: -12-7-86-					
Det	Antal	Beskrivning/Beskrivning	Ritning/Referens	Material/Ovrigt	
Dr to avse utgåva eller Tolerans		Vidareut Gränsvärde in Folj	Material Material Material	Form och dimensioner enligt SABS 1990 Material Material	Stuk
Kontrollant	LA	Material	Material	Material	101
Datum	80-06-10	Material	Material	Material	
DISC					
FFV					
F1301-122870					

01-112402

här g bevräs enligt 189

INDIGENOUS MATERIAL
 IS 7631 1932 OF NO. 17 IN 1. 04
 IS 1443 1942 OF NO. 17 IN 1. 5. 21
 IN COLD DRAWN CONDITION TO
 ACHIEVE MECHANICAL PROPER
 TIES OF 77 PERCENT STRESS
 1340 PLYMET MINUTE IN AIR
 UTS 1570 TO 1810 N/mm²

Upplysning	År	Ändring	Ändring	Ändring
1	1-3	E3, E4, D4	80-09-17	L4
2	1-10	E2, E1, 20x, 02, C3, B3, B2, B4-01-24	91-07-13	M4, B4-01-24
				G-1



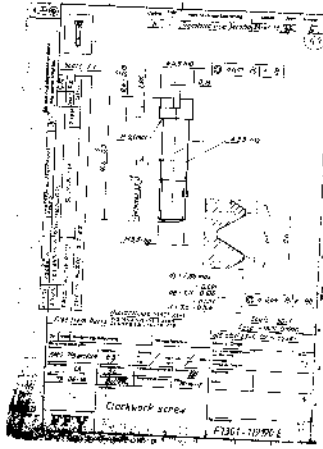
DRG SEALED IN SUPERSESSION	REVISED	DATE	12-7-86	DRG AUTHORITY	DEL133970-A
INDIGENOUS MATERIAL AMENDED	INDIGENOUS MATERIAL ADDED	DRG SEALED IN SUPERSESSION	OF ISSUE 'B'	REVISED	DATE
DC 36701-A	DC 35041-A	DRG SEALED IN SUPERSESSION	OF ISSUE 'B'	REVISED	DATE

DRG SEALED IN SUPERSESSION	OF ISSUE 'B'	REVISED	DATE	DRG AUTHORITY	DEL133970-A
DRG SEALED IN SUPERSESSION	OF ISSUE 'B'	REVISED	DATE	DRG AUTHORITY	DEL133970-A
DRG SEALED IN SUPERSESSION	OF ISSUE 'B'	REVISED	DATE	DRG AUTHORITY	DEL133970-A

FFV
 Support
 F1301-122860 C

01.12402

INDIGENOUS ON GP

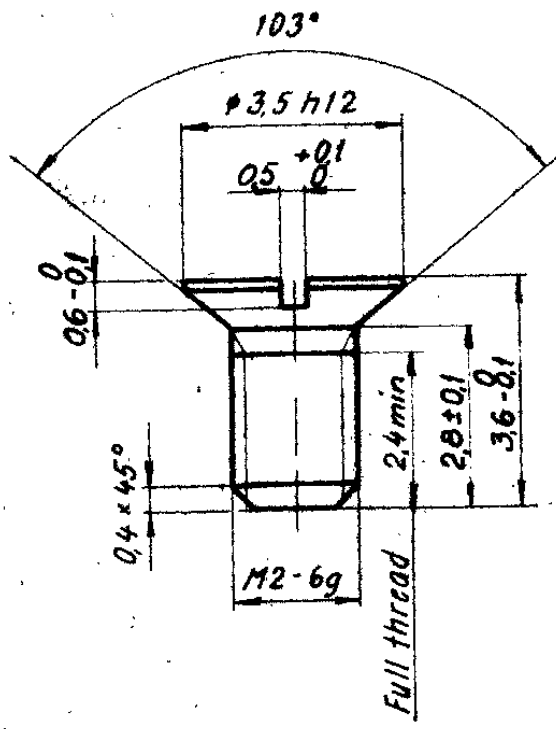




Scale 1:1
↓

Utgåva	Ändr nr	Plats på ritning/Beskrivning	Datum	Utförd	Gränsk/Godk
10	-	Translated from Swedish	04-02-10	BPm	w 26

Allt obehörigt utnyttande av denna handling beivras enligt lag



27-3-91	DS 35065-A	INDIGENOUS MATERIAL ADDED.
12-7-86	D.C.I. 33970-A	DRG SEALED.
DATE	AUTHORITY	REVISION
		ZONE
		SIG.
DRG SEALED:- 12-7-86		

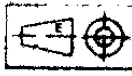
INDIGENOUS MATERIAL :-
BS 1554 Gde 303 S31 OR
IS 6528 Gde 07 Cr 18 Ni 9.

Free from burrs

Spec F1301-911950

				S15 steel 2346-02 or equal	
Dat	Antal	Benämning/Beskrivning	Plats på Ritning/Referens	Material/Ovrigt	
Där ej annat anges gäller Tolerans					
SMS 715 medium		Vignisitet	Gravering	Stål	10:1
Konst/Plast	Mått	Materialgrupp	Konstruktionsgrupp	Godkänd	Registrerad
Datum	78-11-03	Utförare	Produktionsgrupp	78-11-01	
Screw M2 x 3,6					
FFV				F1301-119161 B	

01-110673



Scale 1:1

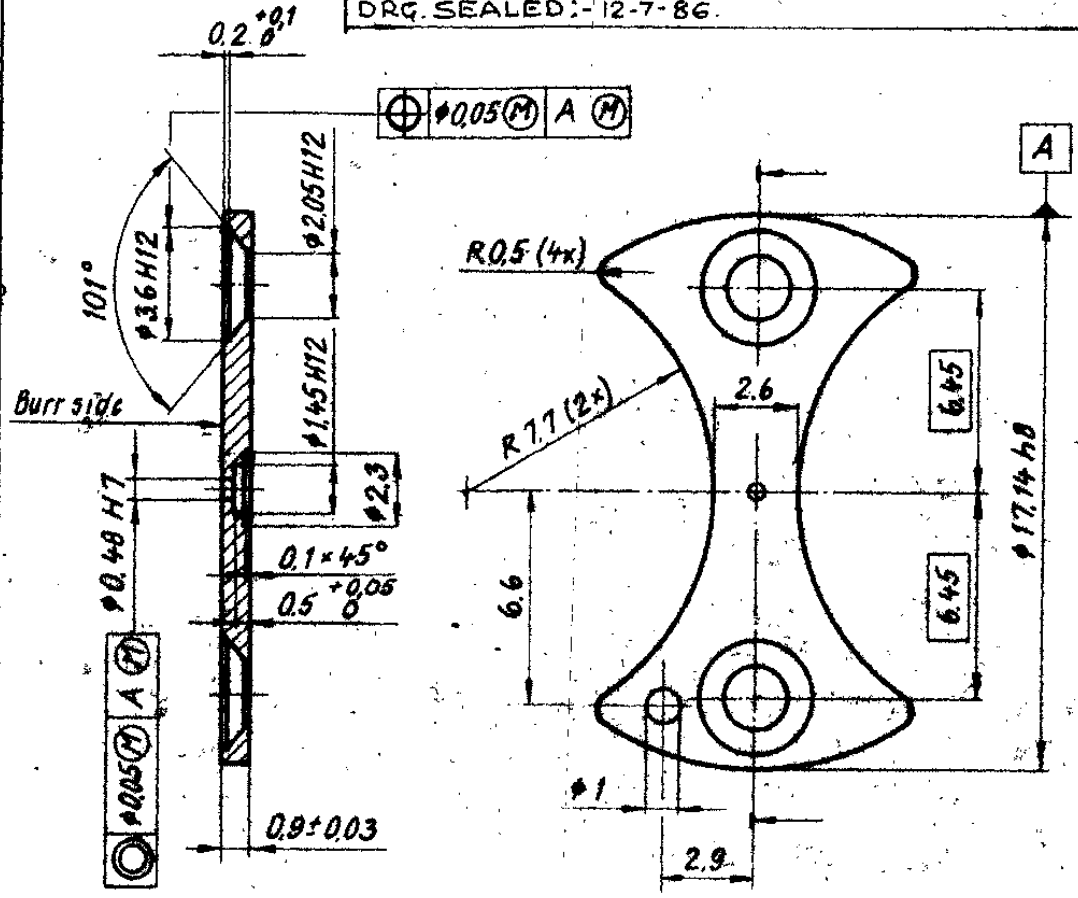
Utgåva	Andr nr	Plats på ritning/Beskrivning	Datum	Utförd	Granskat/Beakt
C	-	Translated from Swedish	84-02-13	BTM	L. A.
D	1-2	E3; B1	84-06-21	AT	BTM

12-7-86	D.C.I. 33570-A	DRG. SEALED.			
DATE	AUTHORITY	REVISION	ZONE	AHSP	D.O.
				-SIG	

DRG. SEALED: -12-7-86.

Allt obehörigt utnyttjande av denna handling beivras enligt lag

AC 27-391 35055-A INDIGENOUS MATERIAL ADDED.



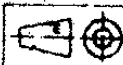
INDIGENOUS MATERIAL:
 BS 2870 CZ 120 (HARD) OR
 IS 531 Gd & Cu Zn 39 Pb 2 (HARD)

Mass: = 0,58g
 Spec F1301-911760

Free from burrs

Det		Antal		Benämning/Beskrivning		Ritning/Referens		Material/Övrigt	
								SIS brass 5168-06 or equal	
Där ej annat anges gäller Tolerans		Väljnings		Gräddning		Färg		Form och lägetolerans enligt SMS 1820	
SMS 715 medium				R		eller 25°		Måttolvid	
Konstr. Fasad		Ritningsgränsskad		Konstruktionsgränsskad		Godkänd		Registrerad	
Datum 78-11-03		Kontrollgränsskad		Produktionsgränsskad		Datum 78-11-03		Datum	
		Benämning							
		Pallet Plate							
FFV						Ritningsnummer		F1301-119151 D	

01-118673
Inger v. 11/84



Scale 1:1

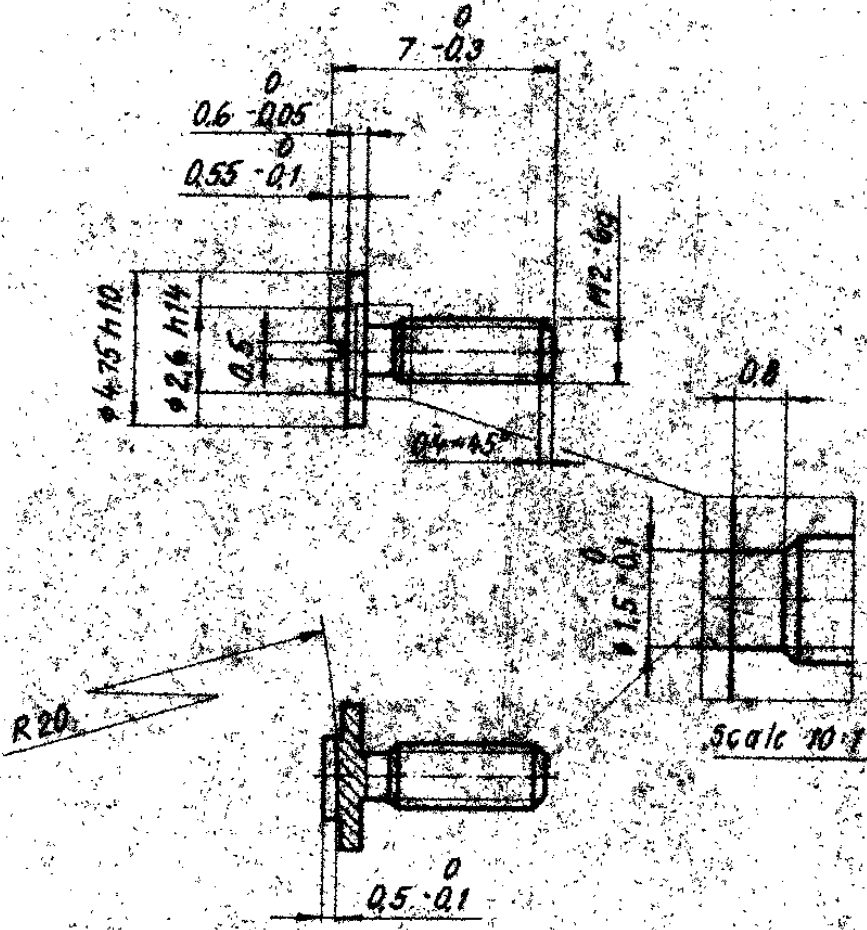
Utgåva	Andr nr	Plats på ritning/ Beskrivning	Datum	Utförd	Signature
0	-	Translated from Swedish	04-02-10	7/7m	6/2h

Allt obehörigt uttryckande av denna handling beivras enligt lag

INDIGENOUS MATERIAL ADDED

35065-A

27-3-97



Free from burrs

INDIGENOUS MATERIAL:-
 BS 1454 Gde 303531 OR
 JS 6528 Gde 07 Cr 18 Ni 9
 Spec F1301 - 9H960

515 steel 2346-02 or equal

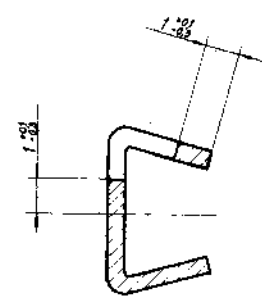
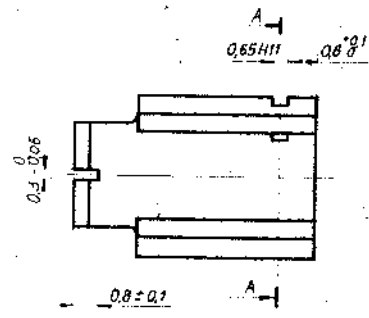
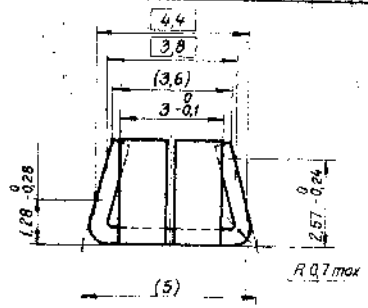
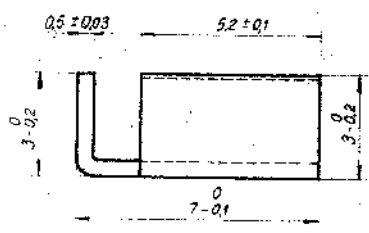
18-7-86	DCI 33070-A	DRG SEALED	REVISION	DATE	AUTHORITY	ZONE	AMSP	SIG.

Det	Arbet	Bearbetning/Beskrivning	Ritning/Material	Material/Övrigt
Om en annan slag är tillämplig Tolerans		Tygthet 3.2	Grävning R F /	Färdig och signatur ut 2005 1025 Signatur 511
Kunde/Revid				
Datum	78-11-03			
Regulator Screw				
FFV			F1301-119140 B	

01-118673

27.3.97

Scale 1:1



A-A INDIGENOUS MATERIAL IS 5822 QdX 04 G 18 M 11

Free from burrs

Spec F1301-911750

Deserial Designing/Designing	Setting/Retrans	69 steel 2333-02 or equal
Design/Design	Material/Design	10:1
18-11-03	17-02-11	

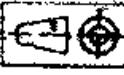
27.3.97	D2.35065-A	INDIGENOUS MATERIAL ADDED
28.3.90	D.C.34131-A	DRG. SEALED IN SUPERVISION OF ISSUE DRG. NO. F1301-119130 C.
DATE	AUTHORITY	REVISION
1-5-03	D3.202/02.DZ	
	Transferred from Swedish	
00-12-03	ML 14/11247	
04-02-13		

Regulator Block

FFV

F1301-119130D

DRG. AVAILABLE FROM CD.

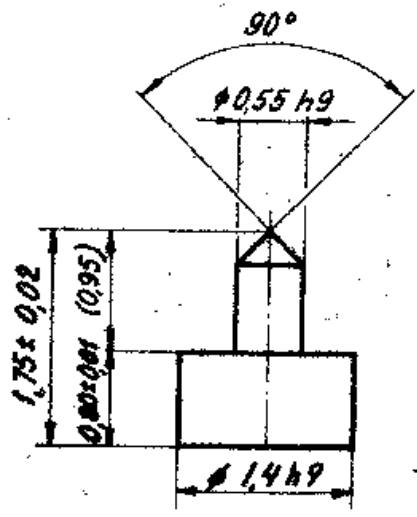


Scale 1:1
δ

Utgåva	Ändr. nr	Plats på ritning/Beskrivning	Datum	Utförd	Granskat/Underskr.
0	-	Translated from Swedish	84-02-12	JFM	W. A.

86

All tekniskt utlytande av denna handling behövs enligt lag.



INDIGENOUS MATERIAL :- BS 2874 GrdcZ 121 P4 3.
MATERIAL TO BE SUPPLIED IN DRAWN CONDITION
TO SATISFY MECHANICAL PROPERTIES. Rp 0.2
IN MPa - 350/550
Rm IN MPa - 480/600
A 5 - 5% min.

27.3.91	DC.35069-A	INDIGENOUS MATERIAL ADDED.
12-7-86	DCI.33570-A	DRG. SEALED.
	DATE AUTHORITY	REVISION
		ZONE
		AHSP D.9%
		SIG.

Spec F 1301-913970

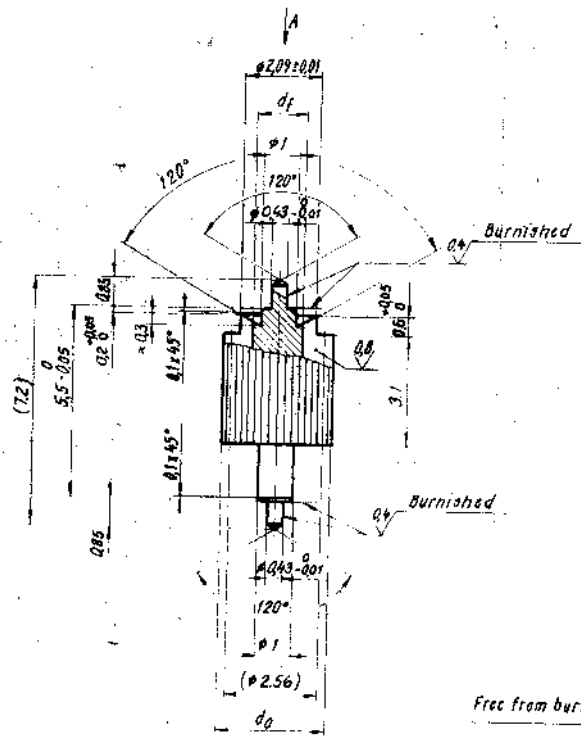
Free from burrs

Det		Antal		Benämning/Beskrivning		Förning/Referens		Material/Övrigt																					
								S15 brass 5170-04 or equal																					
Där ty annat anges gäller																													
Tillstånd																													
<table border="0"> <tr> <td>Gravering</td> <td>16/</td> <td>Gravering</td> <td>16/</td> <td>Gravering</td> <td>16/</td> <td>Gravering</td> <td>16/</td> <td>Gravering</td> <td>16/</td> </tr> <tr> <td>F</td> <td></td> <td>F</td> <td></td> <td>F</td> <td></td> <td>F</td> <td></td> <td>F</td> <td></td> </tr> </table>										Gravering	16/	Gravering	16/	Gravering	16/	Gravering	16/	Gravering	16/	F		F		F		F		F	
Gravering	16/	Gravering	16/	Gravering	16/	Gravering	16/	Gravering	16/																				
F		F		F		F		F																					
Kontroll/Revid		Tillämpningsområde		Kontroll/Revideringsområde		Giltigt till		Registrerat																					
Datum		Tillämpningsområde		Kontroll/Revideringsområde		Giltigt till		Registrerat																					
78-11-03		80/96		77-06-22																									
Pallet Weight																													
FFV																													
F1301-119100D																													

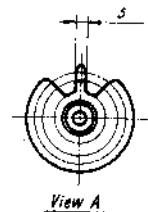
01-121151

Scale 2:1

All dimensions are in millimeters unless otherwise specified.



$z = 8$
 $m = 0,32$
 $d_o = 3,0464 \pm 0,02$
 $d = 2,56$
 $d_f = 1,472 \pm 0,05$
 $s = 0,352 \pm 0,01$
 $\varphi = 0,304$
 To NIMS 20-02



INDIGENOUS MATERIAL
 BS 1554 G4303 S31 OR
 IS 6528 G407 Cr 13 Ni 9
 MECHANICAL PROPERTIES
 UTS 780 N/mm² MAX.

Free from burrs

Spec F1301-911870

S15 steel 2346-02 or Sandv 10RA50 or equal

Del. Antal: 20
 Del. Datum: 78-11-03

S15 715 fine

Del. Antal: 20
 Del. Datum: 78-11-03

Del. Antal: 20
 Del. Datum: 78-11-03

27-3-81	DC 35065-A	INDIGENOUS MATERIAL ADDED	
21-9-87	DCI 34235-A	DRG. SEALED IN SUPERSESSION OF ISSUE 'D'	
1E 1-10	F5, F2, E3, REP. 206, D5, D3, D5	Drawing amended	86-02-12
1D -		Translated from Swedish	86-02-13
Utgivare	Andr. nr	Titel på teckning/Beskrivning	Utgivnings- och Översikt

Escape Pinion

FFV

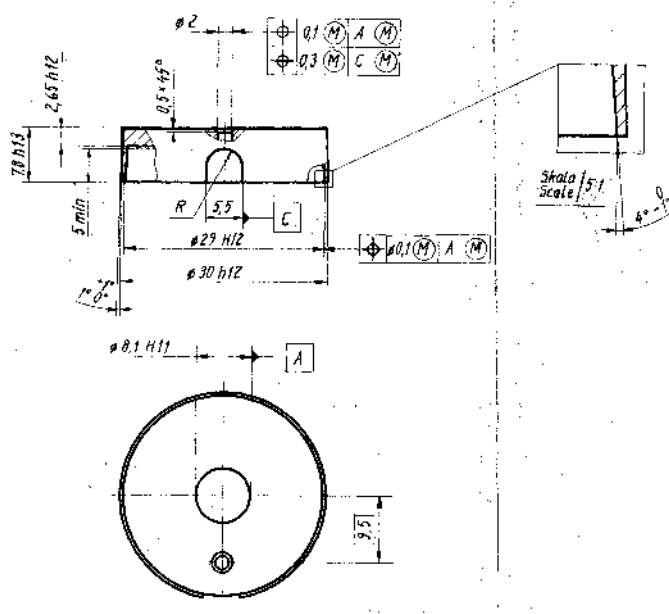
F1301-119061E

17-121140

DRG. AVAILABLE ON CD.

INDIGENOUS MATERIALS:- POLYCARBONATE TO ASTM-D-3935 (1997) GROUP 01 PC; CLASS 1 GENERAL PURPOSE; GRADE 5.

Uppgö, för ändras i denna handling i samband med ändringar i spec. förbehållsbehållna.



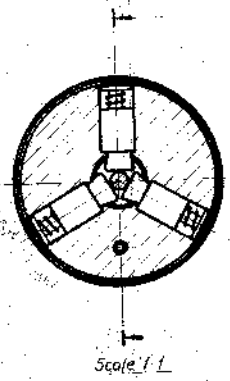
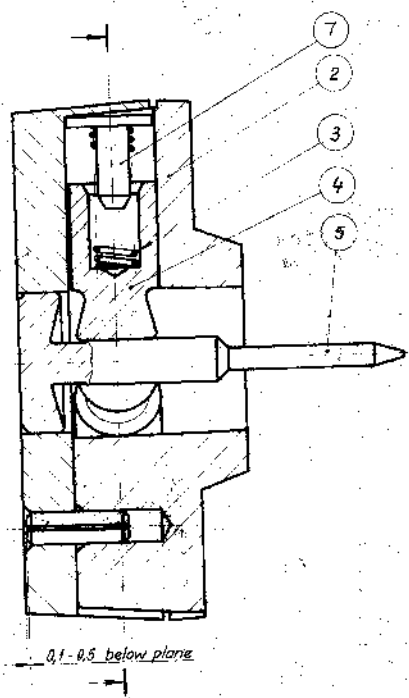
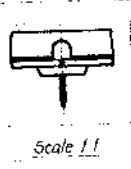
n) PC Makrolon 2800/2805
ent TB / F1301-905060
to Spec

TB
Spec / F1301-912570
Massa / = 2,1g
Mass /

m) See note
See note

Spec. Anvis. Beskrivning/Beteckning		Ritning/Referens		Material/Dröj	
Dimension	1714	Material	63	Metod	2:1
Antal	2	Skala	03	Metod	
Material	IL	Skala	SLD	Metod	
Datum	78-12-14	Material	BP	Metod	
		Material	K.E.E	Metod	
		Material	R.W	Metod	
		Material		Metod	

3.10.98	DC 36473-A	INDIGENOUS MATERIAL AMENDED.			
5.3.91	35041-A	INDIGENOUS MATERIALS ADDED.			
27-12-88	P.C.34511-A	DRG SEALED IN SUPERSESSION OF ISSUE 'E'			
119680	F 1-4	B4, B5, C2, D7 Omitted / Redrawn	01-12-16	31	IL/8774



Mass = 16g

7	3	Guide pin	F1301-119690	
6	1	Tension pin FRP 2 x 6	SMS 1663 or DW 1401	Stainless steel
5	1	Firing pin	F1301-112272	
4	3	Safety plunger	F1301-112301	
3	3	Spring	F1301-112310	
2	1	Casing	F1301-119700	
1	1	Top	F1301-119690	

01-124970
01-112410
01-111450

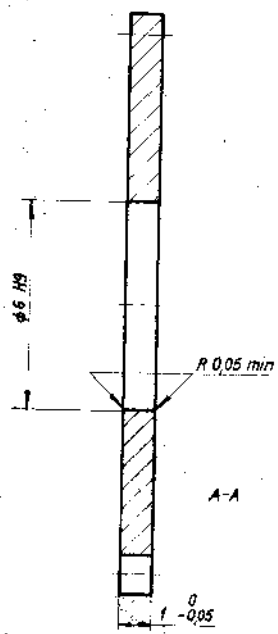
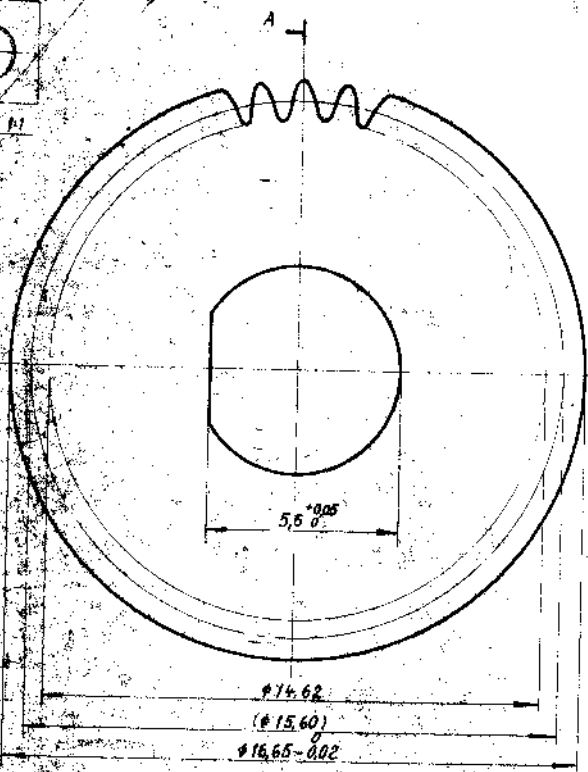
21	9	87	DCI 34235-A	DRG. SEALED IN SUPERSESSION OF ISSUE 'c'	187-03-19	LA	62
D	1		C4: Drawing amended		80-06-10	LA	62
Z	1-3		C2: B7, B4		79-10-10	IL	62
			Translated from Swedish				

88 IL
78-12-18

Centrifugal Safety Device

F1301-119680, D

FRV



$z = 40$
 $m = 0.39$
 $d_g = 16.653$
 $d = 15.60$
 $d_f = 14.625$
 $s = 0.624$
 $\gamma = 0.78$
 To NIHS 20-02

INDIGENOUS MATERIAL -
BS 2870 G4CZ 12'S CONDITION M.

Free from burrs

Spec F1301-911890

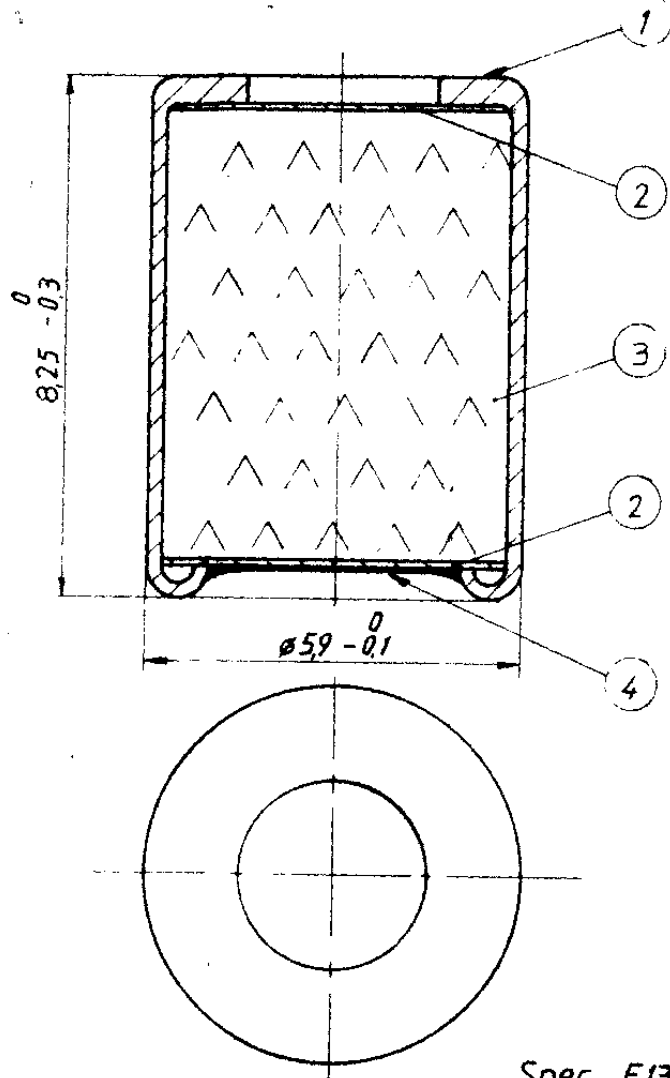
22-51 DC 1 3484 A	INDIGENOUS MATERIAL ADDED				
22-51 DC 1 3370 A	DRG SEALED				
22-51 DC 1 3370 A	DRG SEALED				
22-51 DC 1 3370 A	DRG SEALED				
22-51 DC 1 3370 A	DRG SEALED				
22-51 DC 1 3370 A	DRG SEALED				
22-51 DC 1 3370 A	DRG SEALED				
22-51 DC 1 3370 A	DRG SEALED				
22-51 DC 1 3370 A	DRG SEALED				
22-51 DC 1 3370 A	DRG SEALED				

Del. Antal/Beskrivning/Beschreibung		Rörning/Referens		Material/Öring	
5M5 718 Fine		15		318 Dress 5143-04 or equal	
79-06-29		01		79-06-29	
Wheel		RFV		F1301-119200 D	



Aukt obehörigt utnyttjande av denna handling beivras enligt lag

Utgåva	Andr nr	Plats på ritning/Beskrivning	Datum	Utförd	Granskad
C	3325	E3	81-03-10	X	AE/OC
D	1	B4	84-01-16	X	AE/OC



12-7-86	D.C.I. 33970	DATE AUTHORITY	DRG SEALED IN SUPERSESSION	DRG SEALED:- 12-7-86.
			REVISION	
			ZONE	
			AHSP. D.P.	
			SIG.	

Spec. F1301-901870

4	req.	Markingpoint		White nitrocellulose lacquer
3	req.	Composition 22B		
2	2	Al-disc	F1321-426750	
1	1	Cup	F1321-426680	
Det	Antal	Benämning/Beteckning	Ritning/Referens	Material/Ovrigt

Form och måttgränser enligt SMS 1920	Skala
Måttol	10:1

Revider / Revid	BR	Winggränser	OG	Konstruktionsgränser	Geohind	OH	Registrerad
Datum	1966-09-29	Kontrollerbeteckning		Produktionsgränser	Datum		Datum

Benämning		Detonator	
F1301-112402		F1321-426740-0	

F1301-112402
 F1321-426740-0
 196610

FFV
 SVE

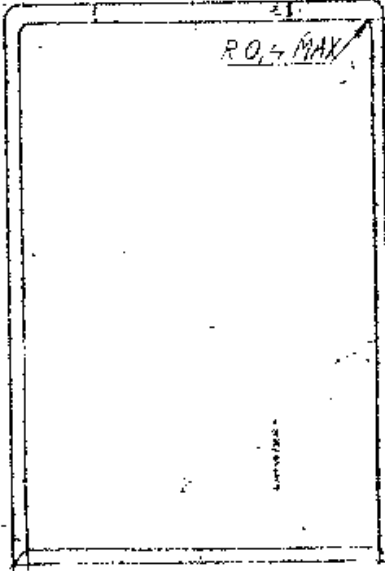
DRG AVAILABLE ON CD

PRG AVAILABLE ON CD

97

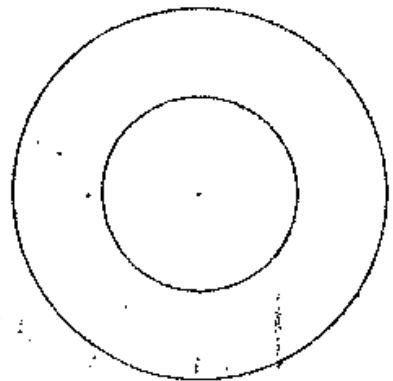
Ref.	Ant.	Benämning	Inford	Gransk.	Stånd. gransk.	GRJK.
15.8.88.		TRANSLATED FROM SWEDISH	BR			
		PRG, SEALED.	D.C. 32611-A		29-3-78	

0295 H



0,66 by 1,3

~45°
0505410
056 F.L.



INDIGENOUS MATERIALS:-

BS 1470 GDE 1200 (0) OR
IS 737-19000 (0)

BASIC MATERIAL:
AL SIS 4010-02
DEEP-DRAWING GRADE.

5-3-91	D.C. 35041-A	INDIGENOUS MATL. ADDED:	(0)	SEE NOTE	
Ref.	Ant.	Benämning Användes till	Röring Standard/oball	Material	Användning
Rör	5.7	Granna Gula	OR	ISA 11-1	Skall
Datum	19.88	Stånd. <i>OK</i>	Datum	1988	19.88

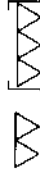
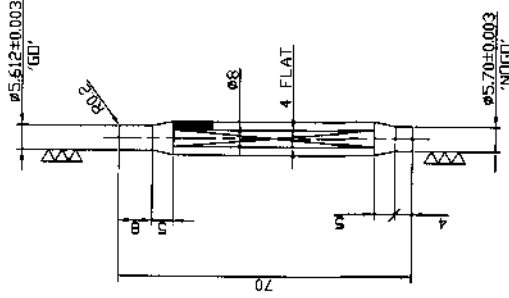
GUP

F1321-426740
USED ON

FORSVARETS FABRIKSVVERK
AMMUNITIONSFABRIKEN ZAKRISDAL

F1321-426680 A

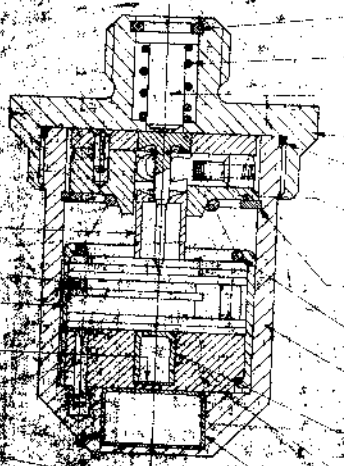
TO BE MARKED ON TOOL/GAUGE/PART
 KMGG- 111801 H ϕ 5.70, L ϕ 5.60
 REJECTION LIMIT ϕ 5.60



01	PLUG	01	STEEL 103T3 IS3748
Item No.	DESCRIPTION	No. off	MATERIAL
Insp. Date	Heat Treatment RC-- HRD&TEMPD. 57-62		GO & NOGO PLUG FOR ϕ 5.60±0.1
JWM/CAD.	DA No		M/C
Amendments			
JWM/04/11/11		∇ 12.5-25 Ra	$\nabla\nabla\nabla$ 0.2-0.8 Ra
JWM/RES/01		$\nabla\nabla$ 1.6-6.3 Ra	$\nabla\nabla\nabla\nabla$ 0.1-0.25 Ra
CAD.	DATE 2/10/05	DIMENSIONS ARE IN MM.	
CKD	CKD	UNITED DIMNS. ISSUE2 MEDIUM	
DRN	TRD	SHARP EDGES TO BE REMOVED	
Approved by		Gauging surfaces shown by thick line	
PS/GS. 356/ 52.	BRINANCE FACTORY KHAMARIA	Drq. No.	KMGG- 111801
	Store FUZE-AVU ETM ASSY. Drq.No. FS-2294/2	No. of sheets -1	Scale 1:1
		Sheet No. - 1	Compt. LEFT HAND SLIDER Drq.No. FS-2295

V28 X01

ALL DIMENSIONS CONFORM TO AS SHOWN
DIMENSIONS ARE IN INCHES



1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17

LIST OF COMPONENTS

ITEM NO.	DESCRIPTION	PART NO.	DESIGNATION REF.	QTY PER SET
1	RETAINING RING S ₃₁₆ H 10, STAINLESS STEEL	SMS 1582		1
2	SPRING	F 1301-122921		1
3	PLUNGER	F 1301-112432		1
4	CH	F 1301-112431		1
5	RETAINING RING S ₃₁₆ H 10, STAINLESS STEEL	SMS 1582		1
6	CENTRIFUGAL SAFETY DEVICE	F 1301-119680		1
7	RETAINING RING S ₃₁₆ H 30, STAINLESS STEEL	SMS 1582		1
8	SPRING	F 1301-112570		1
9	PLUNGER	F 1301-112432		1
10	CH	F 1301-112431		1
11	PLUNGER	F 1301-112432		1
12	CH	F 1301-112431		1
13	PLUNGER	F 1301-112432		1
14	CH	F 1301-112431		1
15	RETAINING RING S ₃₁₆ H 30, STAINLESS STEEL	SMS 1582		1
16	RETAINING RING S ₃₁₆ H 30, STAINLESS STEEL	SMS 1582		1
17	RETAINING RING S ₃₁₆ H 30, STAINLESS STEEL	SMS 1582		1

ALL DIMENSIONS CONFORM TO AS SHOWN
DIMENSIONS ARE IN INCHES

FOR LIST OF COMPONENTS, SEE PART LIST
COLUMN 4. DIMENSIONS ARE IN INCHES
UNLESS OTHERWISE SPECIFIED.
MATERIALS ARE TO BE AS SPECIFIED
UNLESS OTHERWISE SPECIFIED.
FINISHES ARE TO BE AS SPECIFIED
UNLESS OTHERWISE SPECIFIED.

REV. 10/68

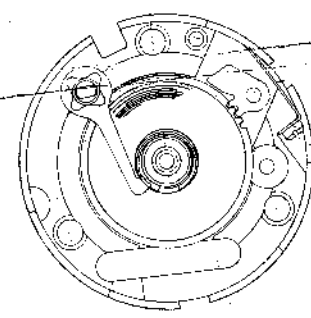
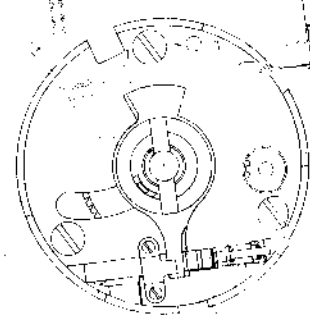
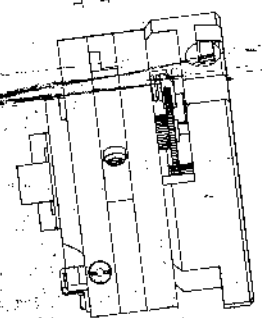
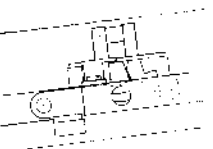
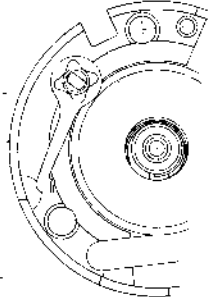
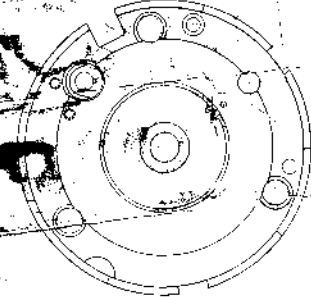
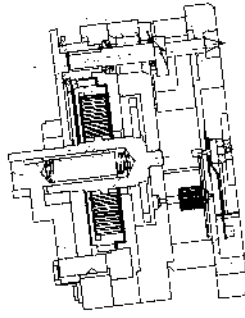
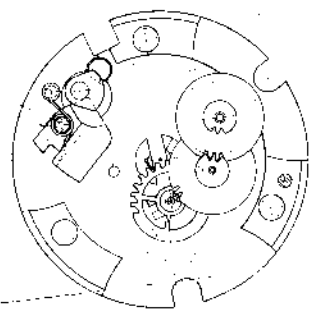
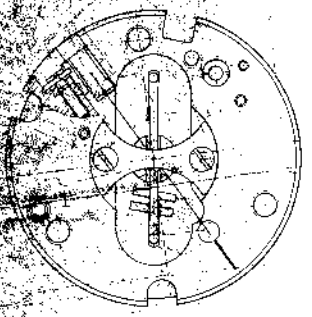
SAE DESIGN 1301-R240

DESIGN 1301-R240

SAE DESIGN 1301-R240

TABLE 1

Part Name	Quantity	Material
1. Housing	1	Aluminum
2. Gears	2	Steel
3. Bearings	4	Ball Bearings
4. Springs	2	Steel
5. Bolts	10	Steel
6. Washers	10	Steel
7. O-Rings	2	Rubber
8. Screws	5	Steel
9. Pins	3	Steel
10. Brackets	2	Aluminum



DRG. SEALED.

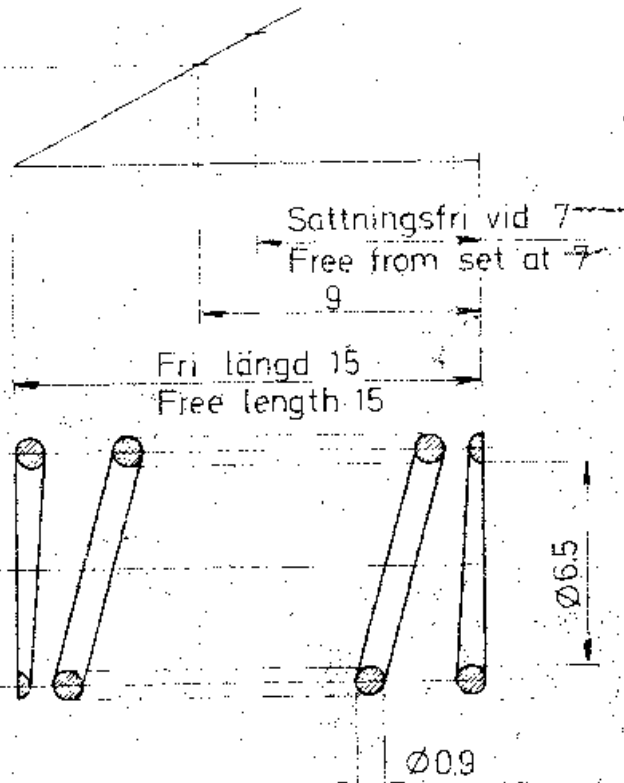
D.C.I. 32611-A 29-3-78

110

27.4 ± 2.9 N ADDED.

D.C.I. 30613-A 30-3-78

$P_1 = 2,8 \text{ kp} \pm 0,3$
(27.4 ± 2.9 N)



$N_v = 3 \text{ st}$

$N_{tot} = 5 \text{ st}$

Andärna slipade och nedlagda
Ends face-grounded and closed

F1328-404140 B

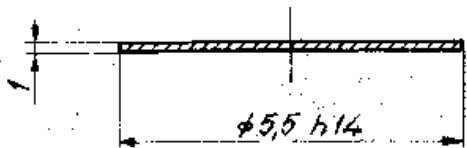
Det.	Ant.	Benämning	Skala	Ritn. nr.	Anm.
Material			Skala: 5:1		Ers
			löke tol. vatta mål SMS 115 medel medium		Stötkolvsfjäder Striker Plunger Spring
Ritad	770322		Ytbehandling SMS 672		
Kont.		<i>Pa</i>	SAAB-SCANIA		X-1454 B
Godk.					

Detta teckning och alla mått gäller för den utgåva som är i bruk vid utgåvan av denna teckning. Förändringar i teckning och mått utan tillstånd från SAAB-SCANIA AB är inte tillåtna. Detta gäller även för teckningar som är i bruk vid utgåvan av denna teckning. Förändringar i teckning och mått utan tillstånd från SAAB-SCANIA AB är inte tillåtna. Detta gäller även för teckningar som är i bruk vid utgåvan av denna teckning. Förändringar i teckning och mått utan tillstånd från SAAB-SCANIA AB är inte tillåtna.

Sitt abbelegning, skriv omgående på denna
 handling, för att undvika tvivel.

Drags	And	Beskrivning	Datum	Utgång	Övrigt
-	-	<i>Translated from Swedish</i>	77-03-25	3	
		DRG, SEALED.	D.C.I. 32611-A	29-3-78	

(109)



			Vulcanized fibre
			Mått: 5,5 x 1,4

-	-	/	/	-
---	---	---	---	---

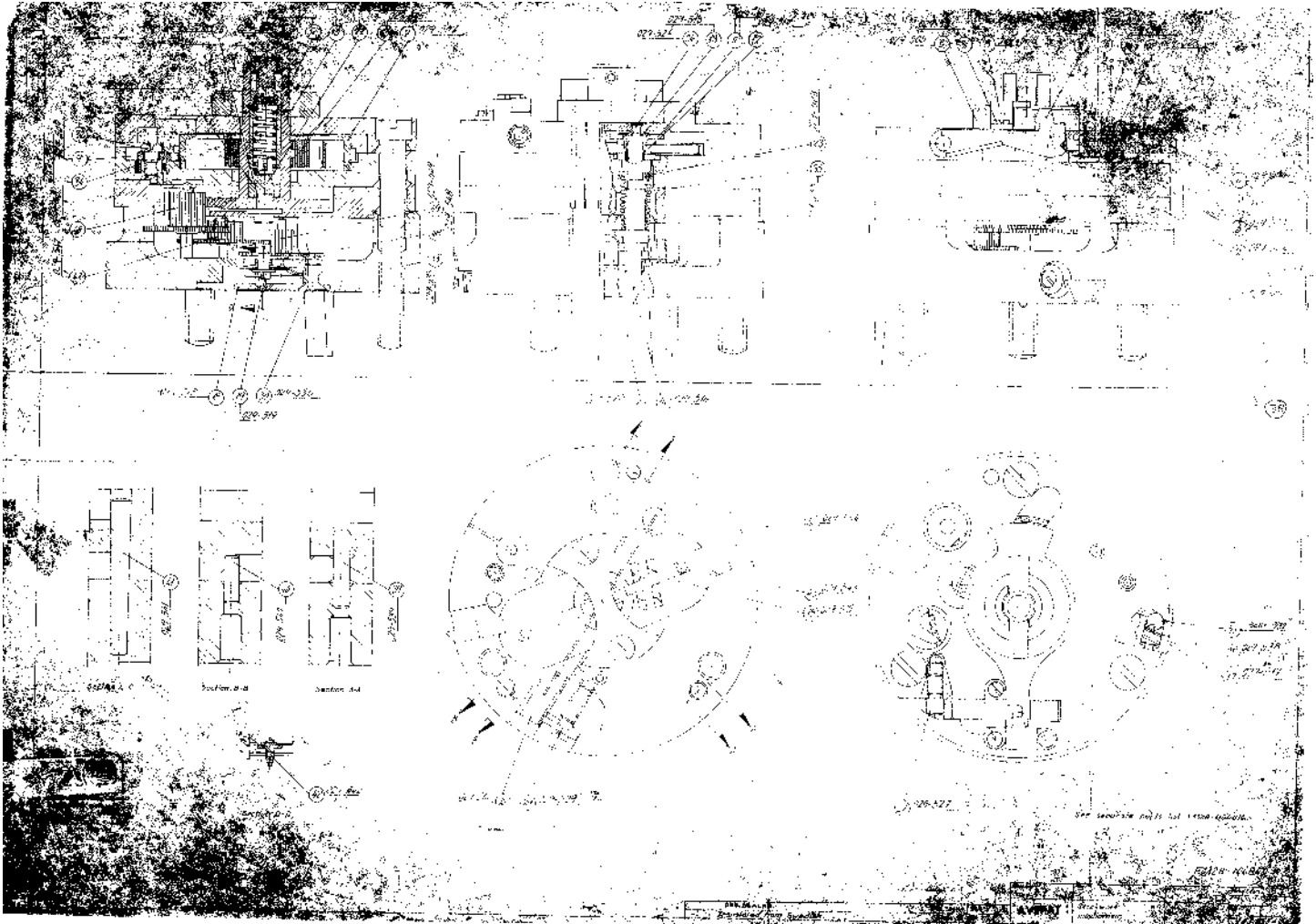
B Pn	TS	Replaces 042-516	107
68-02-09			

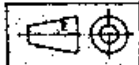
F1321-
 204450
 F1328-
 103610

Disc	
------	--

Filthet

FÖRENADE FABRIKSVERKEN AMMUNITIONSGRUPPEN	F1328-402321A
--	---------------



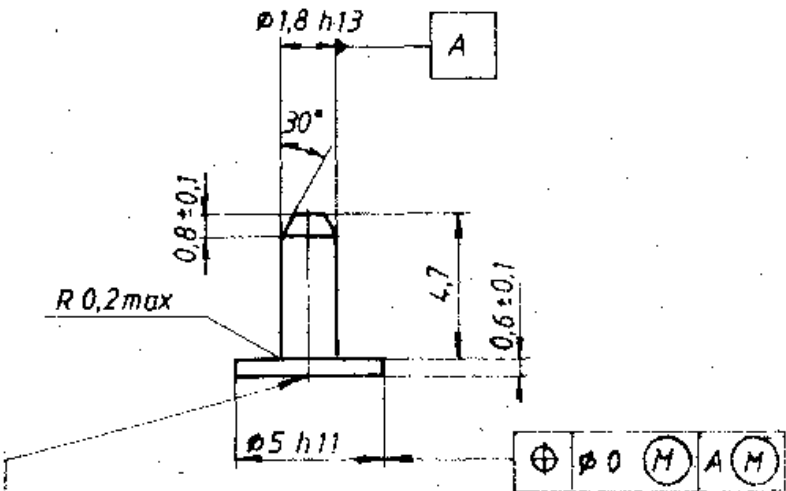


Utgåva	Ändr nr	Plats på ritning/Beskrivning	Datum	Utförd	Gransk/Godk
--------	---------	------------------------------	-------	--------	-------------

Uppliffr som uppstås i denna handling är för ty egendom. Allt obehörigt uttryck härav kommer att beivras.



21-9-87	DCI.34235-A	DRG SEALED
14-9-98	DC.36465-A	INDIGENOUS MATERIAL ADDED



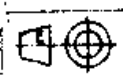
Parting slug $\phi 0.5$ h=0.2 max permissible

INDIGENOUS MATERIAL:
1S733Gde 24345 WP OR B51474 Gde 2014A TF.

Free from burrs
Mass: ≈ 0.06 g
Spec. F1301-925660

UPPER IMPERIAL 90

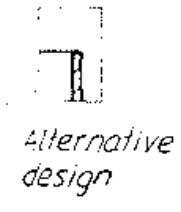
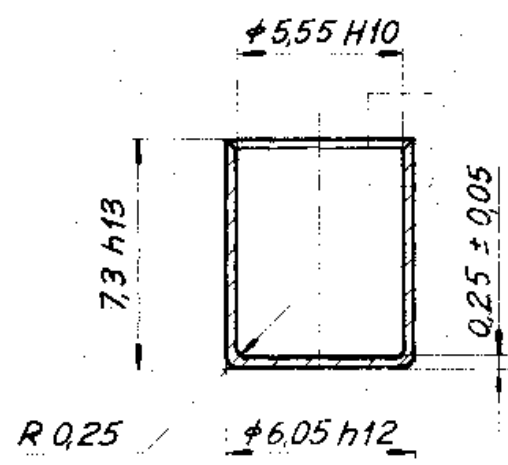
Det. Antal		Benämning/Beteckning		Ritning/Referens		Material/Övrigt	
21-9-87		DCI.34235-A		DCI.34235-A		SS AI.4355-08 or equal	
14-9-98		DC.36465-A		DC.36465-A		INDIGENOUS MATERIAL	
Folerans		Ytjämnhet	Gradering	Mått	Metall	Skala	
SMS 715 coarse		2.5	R eller Fas	100	100	5:1	
Konstr/Rad		Konstr/gränsskad	Konstr/gränsskad	Godkänn	Reviserat	Översatt	
11-EJ		11-EJ	RD	19			
Datum		Konstr/beteckn	Produkt/gränsskad	Datum	Datum	Datum	
86-11-17		J.AN	1102				
F1301-119680		Benämning		Ritningsnummer		Start	
Ingår i 133r		Guide Pin		F1321-456120 A			
FFV							



Allt förbehåll utnyttjande av denna
teknisk ritning är förbehåll för
ändring utan vidare anmälan.

Utgåva: A	Andr. nr: —	Plats på ritning: —	Beskrivning: Translated from Swedish 83-02-18 D.C.I. DRG. REELED IN SUPERSESSION OF ISSUE F1321-442020-C.	Datum: 83-02-18	Utförd: —	Granskt/Godk: —
--------------	-------------------	------------------------	--	--------------------	--------------	--------------------

30



Free from burrs.

F1301-916410.

Starting material : 4010-02

see note.

COP
00 3908 17 5000 22 24

Det. Antal	Benämning/Beteckning	Ritning/Referens	Material/Övrigt
Där ej annat anges gäller:			
Tolerans	Företaget	Gränslinje R Fas	Material Mått Hållfasthet
Konstruktör	Ritningsgranskad	Konstruktör	Granskad
Datum	Kontrollföretag	Produktionsgranskad	Datum
Benämning		Material	
Cup		F1321-443970 A	

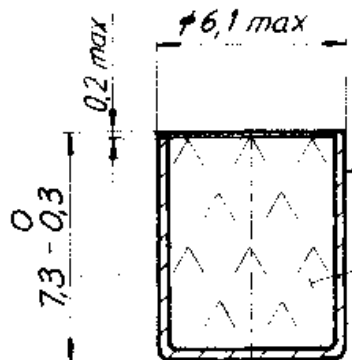
F1321-443960
Ingått i

FFV



Allt obehörigt utrymmande av denna ritning beivras enligt lag.

Utgåva	Ändr nr	Plats på ritning/Beskrivning	Datum	Utförd	Gransk/Godk
A		Translated from Swedish, 67 02-18	8		
14 8-86	D.L.I. 33983-A	DRG SEALED IN SUPERSESSION OF ISSUE F 1321-443960			



Density
 $1,55 \pm 0,05 \text{ g/cm}^3$

2	req	RDX 98-1-1	Spec. KATF 53268		
1	1	Cup	F1321-443979		
Det	Antal	Benämning/Beteckning	Ritning	Referens	Material Design
Där ej annat anges gäller					
Tolerans	Ytämnet	Gränslinje	Linje	Wärde	5-1
Konstr/Ritad	Ritningsgränslinje	Konstr/Ritad	Konstr/Ritad	Konstr/Ritad	
Datum	1982-09-27	Konstr/Ritad	Konstr/Ritad	Konstr/Ritad	
Benämning			Stemmed channel		
FFV			F1321-443960 A -		

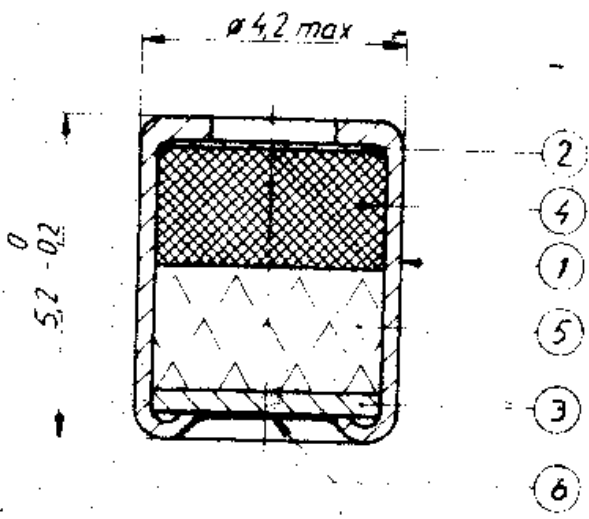
DRG AVAILABLE ON CD3

Allt obehörigt skall anses som sekretess
handling beträffande försvar

Litgåva A	Andr nr —	Plats på ritning/Beskrivning <i>Translated from Swedish</i>	Datum 83-03-22	Utförd *	Granskad *
--------------	-----------------	--	-------------------	-------------	---------------

104

12-7-86	DCI:33970-A	DRG SEALED
DATE	AUTHORITY	REVISION
DRG SEALED: - 12-7-86		
ANSP.	DD.	SIG.
ZONE		



Mass = 0.17g

Spec. F1301-915950

- 6 req. Marking lacquer
- 5 req. RDX RD 1347
- 4 req. Composition Z21A
- 3 1 Folder disc
- 2 1 Closing disc
- 1 1 Sleeve

Beckers NITRO NG 170 red
to Spec. 1329-014150

F1321-443090
F1321-443100
F1321-442130

Del	Antal	Benämning	Beteckning	Ritning Referens	Material Övrigt
1982-09-27	OG	BL	SB		
	IA	TW			
Detonator 4,2 mm No 3			F1321-443950 A		

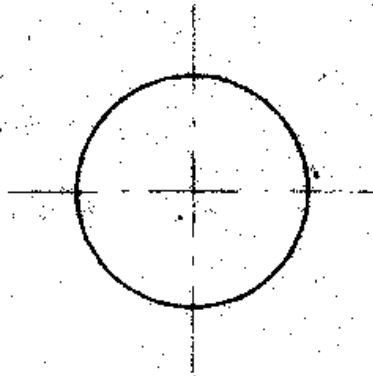
FFV

DRG AVAILABLE ON ED

Utgåva	År nr	Plats på ritning/Beskrivning	Datum	Utörs	Ändrad av
B	3908	D3 C3 C2	82-10-27	*	AC/PA
B	-	Translated from Swedish	83-04-22	*	

106

INDIGENOUS MATERIAL :-
 15 737: 1986 gde. 19000
 COMPOSITION ONLY



Starting material
chromated yellow

12-5-86	D.C. 36466-A	INDIGENOUS MATERIAL ADDED.			
12-7-86	D.C. 33970-A	DRG. SEALED.			9.97
DATE	AUTHORITY	REVISION	ZONE	AMSD	D.O.
DRG. SEALED: 12-7-86					SIG
Dr. Utörs Beskrivning/Beskrivning		Ändring/Ändring		Material Övrigt	
SIS A1 4010-74 or equal				10-1	
SN / #	8	577			
780-06-30					
Closing disc					
FFV			F1321-443100 B		

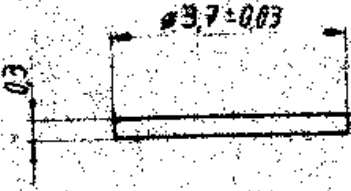
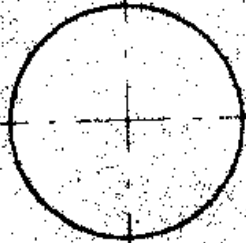
FFV
13250
1321



All drawings originate as drawings
 handling services must be used.

Utgåva	Ändr nr	Plats på ritning/Beskrivning	Datum	Utförd	Beprövning
B	3516	C2	01-11-85	J	M/S
B	-	Translated from Swedish	03-04-82	J	
14.9.98	36465-A	INDIGENOUS MATERIAL ADDED			

107



INDIGENOUS MATERIAL
 IS 737:1986 GR& 19000
 COMPOSITION ONLY.

Tumbled

12-7-86	D.C. 33970-A	DRG. SEALED		1	9.2
DATE	AUTHORITY	REVISION		AHSP	D.O.
DRG. SEALED: - 12-7-86				ZONE	SIG
Det	Antal	Beställning/Beskrivning	Ritning/Referens	Material/Övrigt	
Titel		Titel	Övrigt	Form och dimensioner enligt SMS 1:200	
Kontroll		Övrigt	Övrigt	Övrigt	
Datum	1980-06-30	Övrigt	Övrigt	Övrigt	
Beskrivning			Övrigt		
Folder disc			Övrigt		
FFV			F1321-443090 B		

F1321-443080

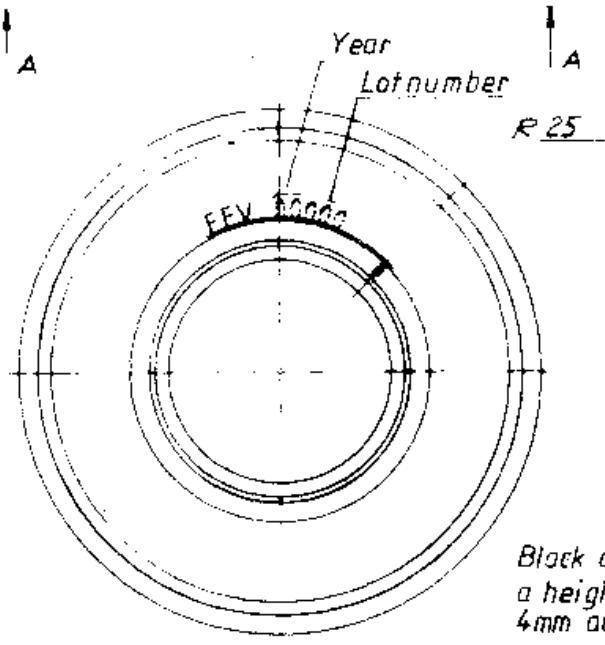
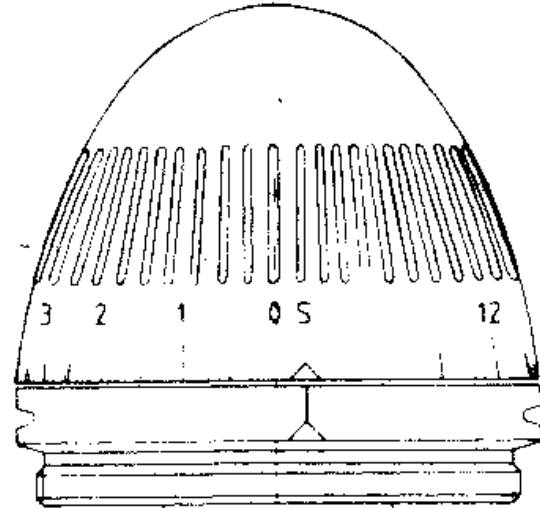


Allt obehörigt utnyttjande av denna handling beträffar enligt lag

Utgåva	Antal	Plats på ritning/Beskrivning	Datum	Övrigt
---	---	translated from Swedish	84-03-08	YH7

112

12-7-86	DCI-33970-A	DRG. SEALED
DATE:	AUTHORITY	REVISION
DRG. SEALED: 12-7-86		



Black characters with a height of approx 4mm acc. to pattern.

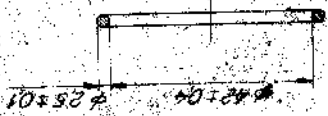
Section A-A

Önr. Antal Benämning/Beteckning Önr. är enbart enligt plan Teckning		Ritning/Referens Ordning P. och M. Nr. och F. och S. Nr.		Material/Övrigt Form och Måttangivningar enligt SWS 1980 Måttang nr/Tang nr		Skala 1:1
Kassa/Ritst Datum 1980-02-29	Ritningsgrupp 65 317	Konstruktionsslag 05 24608	Godkänd al Datum	Registrerad Datum		
Benämning Marking of time and impact fuze FFV 447			Registreringsnr F1321-442990 A			

F1301
112402

FFV

Upplysning	Årsk. nr.	Plats och typ av Baskrivning	Design	Utförd i
B		Translated from Swedish UNSEALED PROVISIONALLY UNSEALED	80-01-28 SIS 168680 D.S. 1 333563-A 7-10-82	95 (A.R.B.)



Design otherwise to SMS 1586
 Material to SIS 168680 grade 70f, however,
 maximum compression set 25% in test
 to SIS 162204 at 150° C.

Titling	Material	Material	Material	Material
8V	D.S.	RD	ON	
790130				

See note
 Max. 31 Grad. of
 11

D-200 12x25
 112016 62500

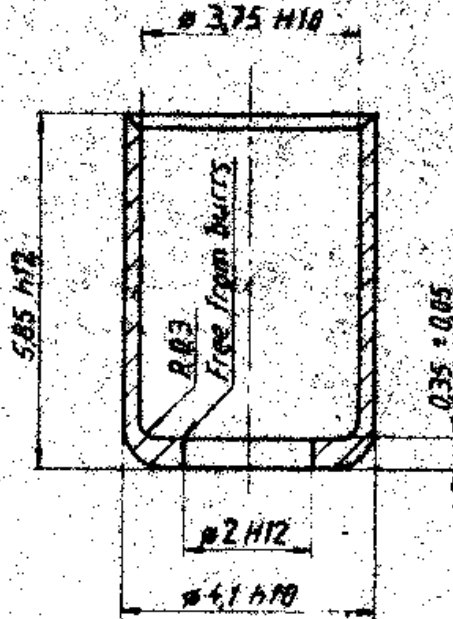
RTV

Origin	Lot #	Name of Army Component	Date	Lot No	Quantity
A	-	Transferred from inventory	83-01-22	8	0
B	7	D3	83-01-01	8	1500

100

INDIGENOUS MATERIALS -

BS 1470 Gde 1200 '0' OR
 LS 737 : 1986 Gde 19000 '0' 1



Tumbled

R.N.	DATE	AUTHORITY	REVISION	ZONE	AHSP	D.O.	SIG.
	14-9-88	O.C.36465-A.	INDIGENOUS MATERIAL ADDED.				
	12-7-86	O.C.33870-A	DRG SEALED.				

DRG SEALED: 12-7-86.

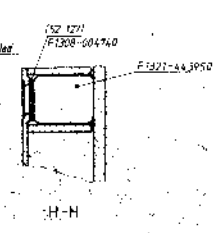
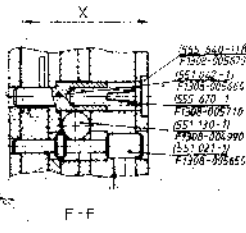
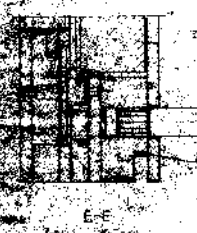
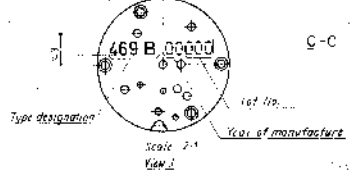
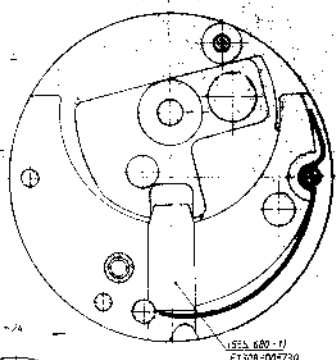
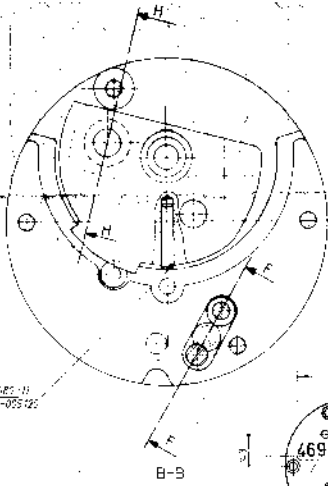
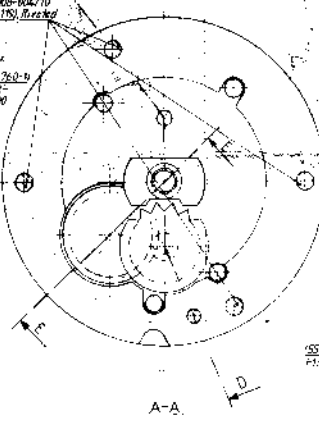
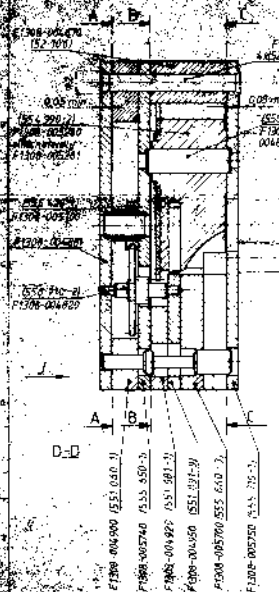
Starting material SFS Al 4010-02

Det	Antel	Barangkat/Balokring	Barangkat/Meterans	Material/Origt	Mark
					1017

Sleeve

FFV

F1321-442180 B



Marking ink - Black
 Instruction to F1308-004630
 Fitting dimensions to F1308-004780
 Spec F1301-913-80

REV	DATE	BY	CHKD
1	15/04/84
Détendeur Safety Device MS 469 B, 0855 (Type 15.4.84.15372)			
F1308-004602 B			

DRG. AVAILABLE ON CD

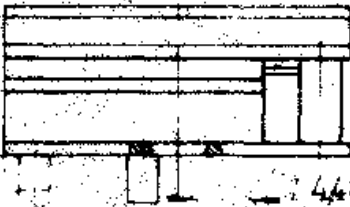
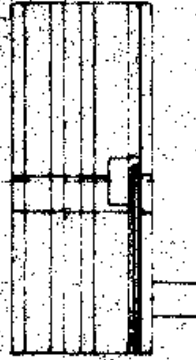
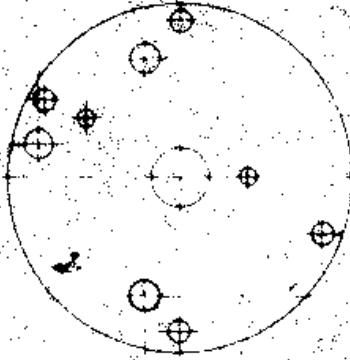
D. C. I. 33179-A
33363-A

19-6-81 33179-A DRG. SEALED PROVISIONALLY

7-10-82 33363-A DRG. SEALED

26

Dégagement pour la sûreté à inertie



11.3

2.5

9.3

2.8

28.05

2.55

4.3 max

2.7

11.9

4.48

3.280

F1308-004280 A

20 Y 39

Tavaro sa

ENCOMBREMENT MS 469

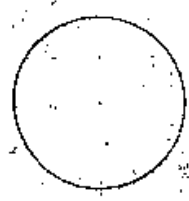
554940

DESIGNATION	NO. OF COPIES
ENCOMBREMENT MS 469	554940
CONTRACT GENERAL	PROJECT NAME
10-02-78	

98 69

Beleg	Datum	Ändr. nr.	Infer. Gransk.	Port. Gransk.	Spår
	15.8.68		32		0
TRANSLATED FROM SWEDISH			D.C. 32611-A	29.3.78	W. 23
DRG. SEALED.					
INDIGENOUS MATERIAL ADDED.			D.C. 35041-A	5.3.91	4

45,2071



INDIGENOUS MATERIALS:
BS 1470 GDE 1200 (0) OR
IS 737-19000(0)

		B. o. n. d. n. n. g.		AL 515 4010-05	
Del.	Art.	Använder till	Rättning	Material	Anteckning
			Standardtabell		
Ättat	Gransk.	Godk.	Till. där ej	ISA tol.	
BR			anord. angivet		
Erstatn.	Ständ.	Datum	1941. där ej	Erstatn.	
			angivet		

F1321-426740
USED ON

AL-DISC

FÖRSVARETS FABRIKSVÄRK
AMMUNITIONSFABRIKEN ZÄKRISDALEN

F1321-426750 A



Mechanical Time and Impact
Fuze FFV 447

No. F1301-910540 (K)
(C&A-0910)
Sheet 1 (22)

Issue	Date	Prepared/Checked	Approved/Proposal No.	Issue	Date	Prepared/Checked	Approved/Proposal No.
J	87-12-17	LN	10181				
K	11-11-99						

Translated from Swedish/ KT

RELEVANT DOCUMENTS

In addition to this specification:

- Assembly drawing F1301-112402
- Spec for detonator safety device F1301-913430
- Spec for clockwork mechanism F1301-912070
- Spec for detonator F1301-901870
- Description of method for safety-device test F1301-910980
- Spec for RDX 98/1/1 KATF 53268
- Instructions for testing of fuzes (FTP) FMV-A:AM 4703:5/75
- Description of method for bump test KAF 57138
- Sampling scheme ISO 2859

DESCRIPTION OF PRODUCT

Mechanical time and impact fuze FFV 447 is intended for use in spin-stabilized shells. The fuze is used in 84 mm HE shell FFV 441 B.

Arming is caused through the setback on firing in combination with the spin of the shell.

The impact function is hammer initiation which functions at angles of impact of 5-90°. Time function is obtained by a clockwork mechanism with running time 7.7 s for 360° turn.

Issue	J									Appendix	No. F1301-910540
-------	---	--	--	--	--	--	--	--	--	----------	------------------

The fuze has functions for detonator, transport, load, bore, muzzle, mask, rain and in-flight safety. Mask safety ceases in the range 20-70 m.

The fuze can be set between 0.2 and 6.7 s and is graduated with divisions for every 10 m from 40 to 1 250 m.

The weight of the fuze is approx. 700 g.

3 PRODUCT REQUIREMENTS

Materials used in the fuze have been chosen with regard to compatibility with materials in adjacent parts, explosives etc. and changes must not be made without a compatibility test with approved results being carried out.

3.1 FUNCTIONAL RANGE

Fitted in shell according to para. 2 the fuze shall function under the following conditions.

Temperature	-40 °C to +60 °C
Spin at muzzle	3 500 - 6 000 rpm
Axial acceleration	80 000 - 200 000 m/s ² (8 000 - 20 000 g)
Impact velocity	>130 m/s

In addition to safety and functioning of untreated fuzes, the fuze shall, during and after environmental treatment according to para. 7, meet the requirements of para. 7.

3.2 COMPONENT PARTS

Component parts shall meet the requirements in the technical documents applicable to them.

3.2.1 Defects which may affect the safety are not permissible.

Examples of defects

- a) Detonator safety device defective
- b) Safety plungers or springs in centrifugal safety device missing or defective
- c) In-flight safety spring (F1301-112370) defective or missing
- d) Stemmed channel defective
- e) Cracks in material

- 3.2.2 Defects which may interfere with the functioning.
AQL: 0.65 % for individual defect.

Examples of defects

- a) Burrs internally
- b) Impurities internally
- c) Faulty assembly
- d) Insufficient sealing

3.3 VISUAL PROPERTIES

- 3.3.1 The fuze shall be free from burrs, scratches and dents.
Critical defects not permissible.

Major defects, AQL 1,0 %.

- 3.3.2 The fuze shall be set to "S".

Defects not permissible.

3.4 ASSEMBLY

- 3.4.1 The locking devices of the detonator safety device shall be in safe position.

Defects not permissible.

To be inspected with sensor in connection with assembly.

3.4.2 On rotation, the safety plungers of the centrifugal safety device must not move out at a rate of 1 300 rpm but shall move out at 3 500 rpm.

Defects not permissible at a rate of $< 1\ 300$ rpm. At a rate of $> 3\ 500$ rpm : AQL 0.25 %, however, values $> 3\ 700$ rpm not permissible.

To be inspected in rotation device.

3.4.3 The stemmed-channel cup of the body (F1301-116090) shall visually be level with the body

AQL: 0.65 %.

3.4.4 The spring (F1301-112370) shall comply with the bearing capacity stated in the drawing.

AQL: 0.25 %, however values < 10 N and > 18 N not permissible.

3.4.5 Parts of the fuze which are important to safety and functioning shall be at hand and shall be correctly assembled.

Defects not permissible.

To be inspected by means of radioscopy.

3.5 DIMENSIONS

The complete fuzes shall fit in the intended shell or corresponding functional gauge.

AQL: 0.1 %.

See also para. 6.1.3.

us	J									Appendix	No. F1301-910540
----	---	--	--	--	--	--	--	--	--	----------	------------------

3.6 SAFETY

If the detonator is initiated when the locking devices of the detonator safety device are in safe position, transmission to the subsequent explosive train is not permissible.

Defects not permissible at inspection according to description of method for safety-device test stated in para. 1.

To be performed as type test.

3.7 FUZE SETTING

3.7.1 At +21 °C the torque for fuze setting shall be 1 - 4 Nm (10 - 40 kpcm). The starting torque to be disregarded.

AQL: 4.0 % totally

1.0 % for values > 5 Nm (50 kpcm)

Values < 0.8 Nm (8 kpcm) not permissible.

3.8 FUNCTION

Fitted in 84 mm HE shell FFV 441 B the fuze shall give the following function (The muzzle velocity shall be within 240 ±20 m/s at +21 °C and shall be determined for every round. Rounds having incorrect velocity shall be excluded and shall be replaced by a new round):

3.8.1 When firing, the ruze must not be armed 20 m from the muzzle.

Defects not permissible.

To be tested according to para. 6.3.1.1.

3.8.2 When firing at minimum 70 m with the fuze set to "S", the impact mechanism shall function on impact against a target consisting of 50 mm (2") pine or fir. Function means detonation in the target.

AQL: 4.0 % (after environmental testing 6.5 %).

To be tested according to para. 6.3.1.2.

	J									Appendix	No. F1301-910540
--	---	--	--	--	--	--	--	--	--	----------	------------------

3.8.3 When firing with the fuze set to 600 m, the following applies:

3.8.3.1 Time of flight (refers to series of 13 rounds).

Mean value (\bar{x}) = 2.83 ± 0.05 seconds

Standard deviation (s) ≤ 0.035 seconds

After environmental testing $\bar{x} = 2.83 \pm 0.07$ seconds and $s \leq 0.040$ seconds apply. At temperatures between -20°C and -40°C $\bar{x} = 2.83 \pm 0.1$ seconds and $s \leq 0.07$ seconds apply.

To be tested according to para. 6.3.1.3.

Note: One value may be rejected according to rejection rules stated in para. 6.3.2. If the second sample according to para. 6.3.1.2 is used, the mean value (\bar{x}) and the standard deviation (s) shall be calculated separately for each of the two series.

3.8.3.2 Complete air burst shall be obtained.

AQL: 4.0 % (after environmental testing 6.5 %).

As defects are considered, in addition to absence of air burst, shots rejected in accordance with para. 3.8.3.1.

To be tested according to para. 6.3.1.3.

3.9 MARKING

The fuze shall be marked in accordance with the marking drawing applicable to the lot.

Misleading marking not permissible.

AQL for missing or indistinct marking 2.5 %.

J										Appendix	No. F1301-910540
---	--	--	--	--	--	--	--	--	--	----------	------------------

4 MANUFACTURE

4.1 METHODS AND EQUIPMENT

4.1.1 For assembly of the fuze, an assembly instruction shall be available, specifying methods and sequence of operations (including inspection operations).

4.1.2 All parts shall be free from burrs and thoroughly cleaned from chips and other foreign matter.

4.1.3 The fuze-body index for fuze setting shall be individually embossed after the clockwork mechanism has been installed in the fuze body.

The index shall be placed in such a way that the requirements of para. 3.8.3.1 are met.

4.1.4 The following shall be 100 % inspected before or in connection with assembly.

4.1.4.1 That the nose is marked with a check verifying that one inside surface has been sized by stamping.

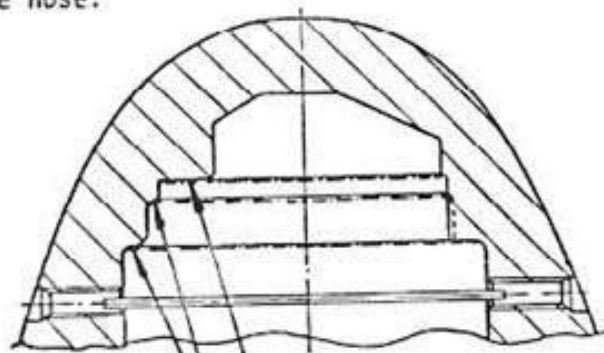
4.1.4.2 That the painted end of the detonator is turned towards the screw for the detonator.

4.1.4.3 That the clockwork mechanism is wound up, the lever is hooked up by the hand and that the hand is secured between the bridge and the trigger and that there is allowance between the hand and the bridge.

4.1.4.4 That the dimension from the plane of the fuze body for the nose (with packing inserted) to the sliding surface of the hand against the nose is minimum 22.36 mm.

Appendix	No. F1301-910540
----------	------------------

- 4.1.4.5 That the dimension from the plane of the fuze body for the nose (with packing inserted) to the top plane of the bridge is maximum 23.62 mm.
- 4.1.4.6 Tightness of fuze. To be tested in device F1328-200580 at an overpressure of 35 kPa (0.35 atm) for 30 s. No reduction in pressure permissible.
- 4.1.4.7 That the locking devices of the detonator safety device are in safe position (cf. para. 3.4.1.)
- 4.1.4.8 That the safety plungers of the centrifugal safety device move out at a rate of between 1 300 and 3 500 rpm (cf. para. 3.4.2).
- 4.1.4.9 That the stemmed-channel cup of the body is level with the body (cf. para. 3.4.3).
- 4.1.4.10 That the bearing capacity of the spring (F1301-112370) is within the stipulated limits (cf. para. 3.4.4).
- 4.1.4.11 That the fuze is correctly assembled (cf. para. 3.4.5).
- 4.1.4.12 That all safety elements are in safe position.
- 4.1.4.13 That the fuze-setting torque is correct.
- 4.1.5 The nose shall be lacquered according to the drawing in connection with assembly of the fuze. The lacquer coating shall be dry before fitting the nose.



Lacquered surface
Lacquer permitted on these surfaces

J										Appendix	No. F1301-910540
---	--	--	--	--	--	--	--	--	--	----------	------------------

4.2 PLANNING AND FOLLOW-UP

4.2.1 The fuzes shall be divided into manufacturing lots of approx. 5 000 fuzes.

4.2.2 A manufacturing journal shall be kept, stating designations of lots of detonators, safety and impact units and clockwork mechanisms used. Furthermore, the journal shall specify the results of tests made and such alterations of the manufacturing process that may change the product quality.

The journal shall be retained for minimum 20 years.

5 DELIVERY

5.1 PACKING

The fuzes shall be packed in a packing that protects them against damages in storage and transport.

5.2 TRANSPORTATION MARKING

Transport packing shall, in addition to explosives marking and total weight, be marked with quantity, name of product, FFV article number and lot number.

Explosives marking to be applied to two opposite sides.

6 INSPECTION

6.1 VENDOR'S INSPECTION

6.1.1 The vendor shall perform inspection to the extent necessary to verify that the requirements of this specifications are met.

Issue	J									Appendix	No. F1301-910540
-------	---	--	--	--	--	--	--	--	--	----------	------------------

6.1.2 In case of deviations from technical documents, which the vendor judges to be of small influence on the quality of the fuze, a deviation procedure agreed upon between purchaser and vendor shall be followed.

6.1.3 If installation of the fuze on the shell shall take place within the company that manufactures the fuze, deviation from the AQL stated in para. 3.5 can be made after agreement.

6.2 CERTIFICATES

6.2.1 The vendor shall account for his inspection by means of test certificates to the extent agreed upon between purchaser and vendor. The certificate may be worked out in a way suitable to the procedures of the vendor. The certificate shall show that the lot has been inspected by and has been judged fit for delivery by the vendor.

6.2.2 Certificates from sub-contractors shall be kept accessible to the purchaser.

6.3 TEST METHODS

6.3.1 Firing test

Firing test to be carried out with 84 mm RCL Carl-Gustaf or pressure gauging gun with 84 mm HE round FFV 441 B (alternatively shell with spotting charge). The muzzle velocity of the round shall comply with the values stated in para. 3.8.

The firing tests shall be carried out with (untreated or treated) fuzes according to one of the four alternatives stated below. The temperatures apply to the complete round.

J

Appendix

No. F1301-910540

Alter- native	Environmental treatment			
	None	Bump test para. 7.3.3.2	Low temperature para. 7.3.12	High temperature para. 7.3.13
1	x			
2		x		
3			x	
4				x

6.3.1.1 Test of non-arming, para. 3.8.1.

Projectile: Inert-filled HE projectile FFV ~~with~~ without (K)
spotting charge.
Target: 50 mm (2") fir or pine.
Range: 20 m
Fuze setting: "S"

Sampling plan:

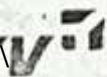
n	c	r
10	0	1

6.3.1.2 Test of impact function para. 3.8.2.

Projectile: See para. 6.3.1.1.
Target: See para. 6.3.1.1.
Range: 70 m
Fuze setting: "S"

Sampling plan:

AQL		4.0 %		6.5 %	
n	≤ n	c	r	c	r
13	13	0	3	1	4
13	26	3	4	4	5



J

Appendix

No.

F1301-910540

6.3.1.3 Test of time function para. 3.8.3

Projectile: HE shell FFV 441 B

Fuze setting: 600 m

Test equipment: Objective time meter with an accuracy of
0.0005 s

Sampling plan: See para. 6.3.1.2.

When calculating the mean and standard deviation of the time of flight, one shot may be rejected in accordance with para. 6.3.2.

6.3.2 Rejection of observations

The obtained values to be arranged in order of magnitude so that $X_1 < X_2 < X_{n-1} < X_n$. To test if X_1 is significantly less than the other values or if X_n is significantly greater than the other values, the following statistics, based on the number of rounds which have given time function, are computed.

Statistic		Number of rounds	Value (T) at the significance level 0.05
for X_1	for X_n		
$X_3 - X_1$	$X_n - X_{n-2}$	12	0.595
$X_{n-1} - X_1$	$X_n - X_2$	13	0.568
$X_3 - X_1$	$X_n - X_{n-2}$	22	0.472
		23	0.463
$X_{n-2} - X_1$	$X_n - X_3$	24	0.455
		25	0.448
		26	0.441

If the statistic is greater than the value T corresponding to

Issue	J										Appendix	No.	F1301-910540
-------	---	--	--	--	--	--	--	--	--	--	----------	-----	--------------

7 OTHER CONDITIONS

7.1 ENVIRONMENTAL REQUIREMENTS

Environmental testing of the fuze to be carried out partly as test of separate fuze, partly as test of fuze in complete round.

When the round is tested packaged, the packing shall be the one intended for the round.

7.1.1 Safety during and after environmental treatment

Arming, accidental initiation or spillage of explosives must not occur during the environmental treatment. After the environmental treatment the fuze shall be safe to handle. In certain cases, stated in para. 7.2.1.4, firing shall, if there are no visible damages, be safe.

7.1.2 Function after environmental treatment

In addition to the safety requirements in para. 7.1.1, the fuze shall function in the intended way on firing.

7.2 TYPE TEST

A type test, in its entirety or parts thereof, shall be carried out when starting manufacture and when there are reasons to do so.



J

Appendix

No. F1301-910540

7.2.1 Type test with environmental treatment

7.2.1.1 Test with round in packing

<u>Environmental test</u>	<u>Test according to para.</u>	<u>Requirement</u>
a) Drop test 12.1 m	7.3.1	1)
b) " 5 "	7.3.2	2)
c) Bump test	7.3.3	2)
d) Temperature and humidity	7.3.14	2)

1) Requirement according to para. 7.1.1.

2) Requirement according to para. 7.1.2.

7.2.1.2 Test with unpackaged round.

<u>Environmental test</u>	<u>Test according to para.</u>
Drop test 1.5 m	7.3.4

Requirement according to para. 7.1.2. For fuze with visible damages, however, according to para. 7.1.1.

7.2.1.3 Sequential testing of fuze

<u>Environmental test</u>	<u>Test according to para.</u>
a) Vibration test	7.3.5.1
b) Shock test ₂ 50 000 m/s ²	7.3.5.2

Requirement according to para. 7.1.1. Test to be carried out as design type test and to be repeated only if alterations which may affect the safety have been introduced.



J										Appendix	No. F1301-910540
---	--	--	--	--	--	--	--	--	--	----------	------------------

7.2.1.4 Separate testing of fuze

<u>Environmental test</u>	<u>Test according to para.</u>	<u>Requirement</u>
a) Bump test	7.3.6	1)
b) Shock test	7.3.7	2) 3)
c) Vibration test -40 °C and +60 °C	7.3.8	2)
d) Cyclic humidity	7.3.9	2)
e) Watertightness	7.3.10	2)

1) Requirement according to para. 7.1.1. If there are no visible damages, firing shall be safe.

2) Requirement according to para. 7.1.2.

3) Test to be performed as design type test and to be repeated only if alterations which may affect the safety have been introduced.

7.2.2 Other type tests

7.2.2.1 The fuze shall completely initiate a primer of the same kind as that used in 84 mm HE shell FFV 441 B at a distance of 4 mm between the fuze and the primer.

7.2.2.2 When initiating the detonator of the fuze when the locking devices of the detonator safety device are in safe position, transmission to the subsequent explosive train is not permissible.

Defects not permissible.

Test according to para. 7.3.11.

7.3 TESTING INSTRUCTIONS

The testing instructions below refer to e.g. FTP para. 3.3 method 3. FTP means the "Instructions governing the testing of fuzes for artillery - mortar projectiles and recoilless ammunition" issued by the Materiel Administration of the Armed Forces - Army (FMV-A), designation see para. 1.

 7.3.1 Drop test 12.2 m

FTP para. 3.3 method 3

Fuzes fitted with inert fuze magazines installed in inert-filled complete rounds packed in normal twin container in crate or transport box to be drop-tested through 12.2 m in normal environment.

The test to be performed in three directions, on the bottom and both ends with one drop/packing.

 7.3.2 Drop test 5 m

FTP para. 3.4 method 3

Test to be carried out as in para. 7.3.1 but through 5 m.

 7.3.3 Bump test

FTP para. 6.2 method 6

Fuzes installed on inert-filled complete rounds packed in normal twin container in crate or transport box to be bumped at 200 m/s^2 (20 g) 6 ms according to the following:

- 7.3.3.1 10 000 bumps on the bottom
 - 5 000 bumps on the side
 - 5 000 bumps on one end, nose down

- 7.3.3.2 For testing at series delivery, 5 000 bumps on the bottom.

Issue	J									Appendix	No.	F1301-910540
-------	---	--	--	--	--	--	--	--	--	----------	-----	--------------

7.3.4 Drop test 1.5 m

FTP para. 2.4 method 2

Fuzes installed in inert-filled complete rounds to be dropped in normal environment through 1.5 m in the following directions (the same fuze only to be subjected to one of the environments a-e):

- a) Nose down, 1 drop
- b) Nose up, 2 drops
- c) Nose 45° down, 1 drop
- d) Nose 45° up, 2 drops
- e) Fuze horizontally, 2 drops with 180° turning between the drops

7.3.5 Sequential testing

7.3.5.1 Vibration test in fixture

FTP para. 8.2 method 8

Live fuzes with inert fuze magazines mounted in fixture to be vibrated in three orientations perpendicular to one another for two hours per orientation and in normal environment.

10 - 2 000 Hz

1 octave/min.

8 mm - 350 m/s² (35 g)

ISSUE	J									Appendix	No.	F1301-910540
-------	---	--	--	--	--	--	--	--	--	----------	-----	--------------

7.3.5.2 Shock test 50 000 m/s² (5 000 g)

FTP para. 1.3 method 1

Live fuzes with inert fuze magazines from test 7.3.5.1 to be shock-tested in fixture at 50 000 m/s² (5 000 g) and pulse width 0.1 ms. Each fuze to be tested in two transverse directions (relative to the line of fire) perpendicular to each other with 10 drops per direction.

The test to be carried out partly with fuzes conditioned to -40 °C and partly with fuzes conditioned to +60 °C. Conditioning time to be minimum 4 hours.

7.3.6 Bump test in fixture

FTP para. 6.1 method 6.

Live fuzes mounted in fixture to be bumped at 500 m/s² (50 g) 6 ms 20 000 bumps in both longitudinal directions and in one transverse direction. Test to be carried out in normal environment.

7.3.7 Shock test

FTP para. 5 method 5

The fuzes to be fitted with inert fuze magazine during the test and to be mounted in fixture on shock test device and to be subjected to three shocks in half-sine shape at 1,000 m/s² (100 g) for 5 ms in each direction along three orientations perpendicular to one another (all in all 18 shocks).

0	J									Appendix	No.	F1301-910540
---	---	--	--	--	--	--	--	--	--	----------	-----	--------------

One longitudinal orientation and two transverse orientations.

The fuzes to be inspected between each orientation.

7.3.8 Vibration test -40 °C and +60 °C

FTP para. 8.5 method 20

The fuzes mounted in fixture to be vibrated in three orientations for 2 h/orientation.

5 - 500 Hz

1 octave/min

8 mm and 50 m/s² (5 g)

30 min at 7 Hz and 8 mm

30 min at 80 Hz and 5 g

} fixed frequencies

Only one temperature per fuze.

7.3.9 Cyclic humidity test

FTP para. 21.1 method 21

The fuzes, unpackaged, to be put in test chamber at 25 ± 3 °C and relative humidity of the air = 45 - 75 %. After that, the temperature is raised to $+55 \pm 2$ °C during 3 ± 0.5 h and relative humidity of the air ≥ 95 %. During the last 15 minutes the relative humidity may be 90 %.

$+55 \pm 2$ °C to be maintained until 12 ± 0.5 h have elapsed from the beginning of the cycle. The relative humidity of the air shall be 93 ± 3 % except for 15 minutes at the beginning and at the end when it may be 90-100 %, condensation is not permissible during the last 15 minutes.

Then the temperature is reduced to 25 ± 3 °C within 3 to 6 h. The temperature reduction rate during the first 1.5 h shall be such that if it had been maintained, the temperature 25 ± 3 °C

J

Appendix

No. F1301-910540

would have been reached after $3 \text{ h} \pm 15 \text{ min}$. During this period the relative humidity of the air shall be $\geq 95 \%$ except for 15 minutes at the beginning when it shall be minimum 90 %.

After that the temperature shall be maintained at $25 \pm 3 \text{ }^\circ\text{C}$ during the remainder of the 24 h cycle. During this period the relative humidity of the air shall be $\geq 95 \%$.

The test to be carried out with six cycles.

7.3.10 Watertightness

FTP para. 26.1 method 26

The fuzes, unpackaged, to be submerged into a water container at normal temperature so that they are completely surrounded by water to which approximately 0.2 % fluorescent agent - Uranin (Fluorescein-Sodium) has been added. No component that reduces the surface tension shall be added.

The pressure in the container shall be raised by 0.1 MPa (1 bar) during 1 hour.

The test is interrupted and the fuzes are removed and thoroughly rinsed in clean running water and dried with a cloth.

The fuzes are disassembled and inspected under ultra-violet light in dark premises for any penetration of water.

7.3.11 Static detonator safety test

FTP para. 25.1 method 25

The test to be carried out with test equipment arranged, in principle, according to the para. in FTP stated above.

Rev	J									Appendix	No.	F1301-910540
-----	---	--	--	--	--	--	--	--	--	----------	-----	--------------

7.3.12 Low temperature

The fuzes to be stored at temperature $-40\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$ for minimum 12 h.

7.3.13 High temperature

The fuzes to be stored at temperature $+60\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$ for minimum 12 h.

7.3.14 Temperature and humidity test

Fuzes fitted in complete round (dummy) in twin containers to be temperature-cycled during two two-week periods between $-54\text{ }^{\circ}\text{C}$ and $+71\text{ }^{\circ}\text{C}$ (95 % RH) and with two additional storages at $+71\text{ }^{\circ}\text{C}$ (95 % RH) and $-62\text{ }^{\circ}\text{C}$ each.

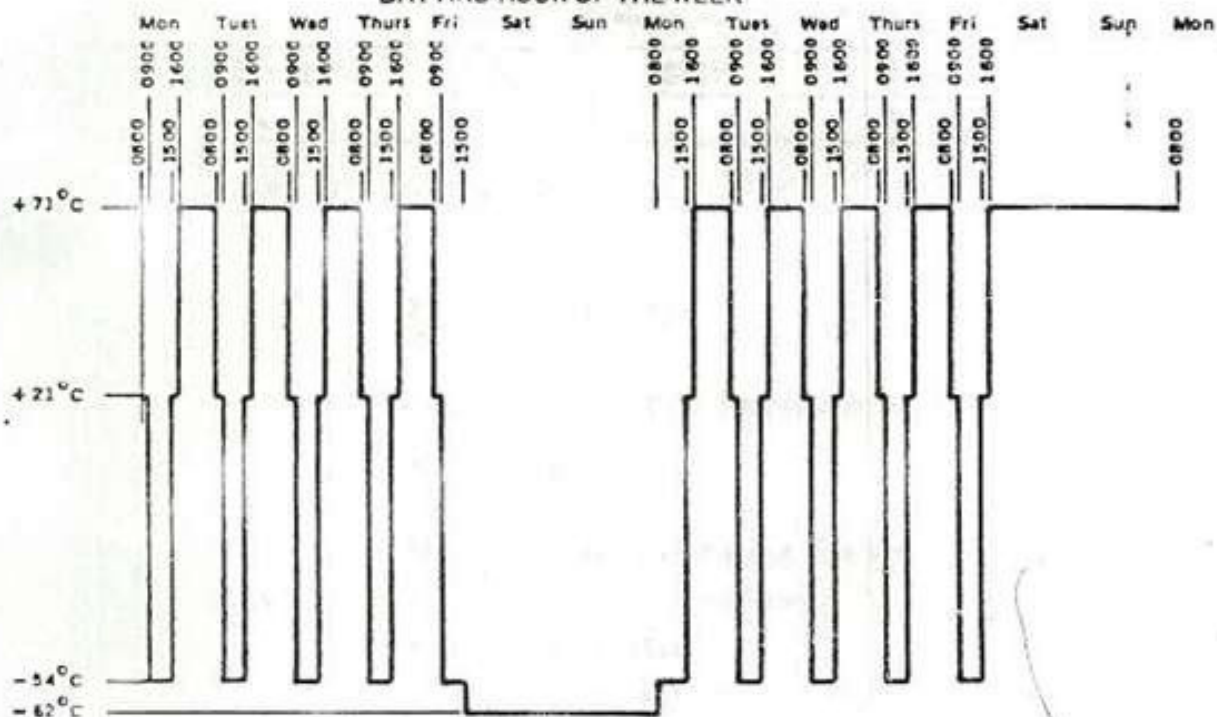
The ammunition to be stored at low temperature from 08.00 hours until 16.00 hours, and then at high temperature until 08.00 hours the following day.

The additional storage to take place from Friday 16.00 hours to Monday 08.00 hours.

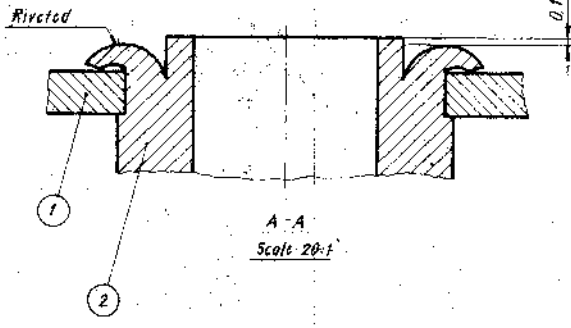
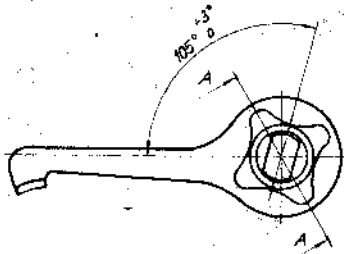
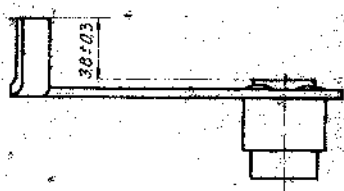
Otherwise see diagram sheet 22.

TEMPERATURE AND HUMIDITY CYCLE

DAY AND HOUR OF THE WEEK



Item	Hour of the day	Actions
1	08.00	Before the test starts, keep the test object for minimum 1 hour at room temperature, +21 °C until 09.00.
2	09.00	Place the test object in a climate chamber at -54 °C until 15.00
3	15.00	Remove the test object and keep it at room temperature, +21 °C until 16.00.
4	16.00	Place the test object in a climate box at +71 °C and 95 % RH until 08.00 the following day.
5		Repeat the cycle from item 1 for 3 days.
6	08.00	Remove the test object and keep it at room temperature, +21 °C, until 09.00.
7	09.00	Place the test object in a climate chamber at -54 °C until 15.00.
8	15.00	Reduce the temperature to -62 °C and keep it for 3 days.
9	08.00	Rise the temperature to -54 °C and keep it until 15.00.
10	15.00	Remove the test object and keep it at room temperature, +21 °C, until 16.00.
11	16.00	Place the test object in a climate chamber at +71 °C and 95 % RH, until 08.00 the following day.
12	08.00	Remove the test object and keep it at room temperature, +21 °C until 09.00.
13		Repeat the cycle from item 7 during 3 days.
14	09.00	Place the test object in a climate chamber at -54 °C until 15.00.
15	15.00	Remove the test object and keep it at room temperature, +21 °C until 16.00.
16	16.00	Place the test object in a climate chamber at +71 °C and 95 % RH for 64 hours (2 days and 16 hours, until 08.00).
17		Repeat the whole cycle from item 1, in total 28 days.



Spec F1301-9H740

2	1	Guiding sleeve	F1301-118811	
1	1	Lever	F1301-118801	
Doc. Name	Bestämning/Beskrivning	Ritning/Referens	Material/Design	Scale
On a level edge plate	Valvetal	Gränning	Form- och dimensioner	5:1
Material	Nm	Produkttemperatur	Gränning	
Datum	78-11-03	Produkttemperatur	78-11-03	

21-9-87	DCI-34235 A	DRG SBALED IN SUPERSESSION OF ISSUE 'C'		
7d	1	01	86-11-18	BA
TC	-	Translated from Swedish	86-02-18	5:25
Author			Datum	USM/4
				Graver/Dech

FFV

Lever, assy

F1301-118791 D

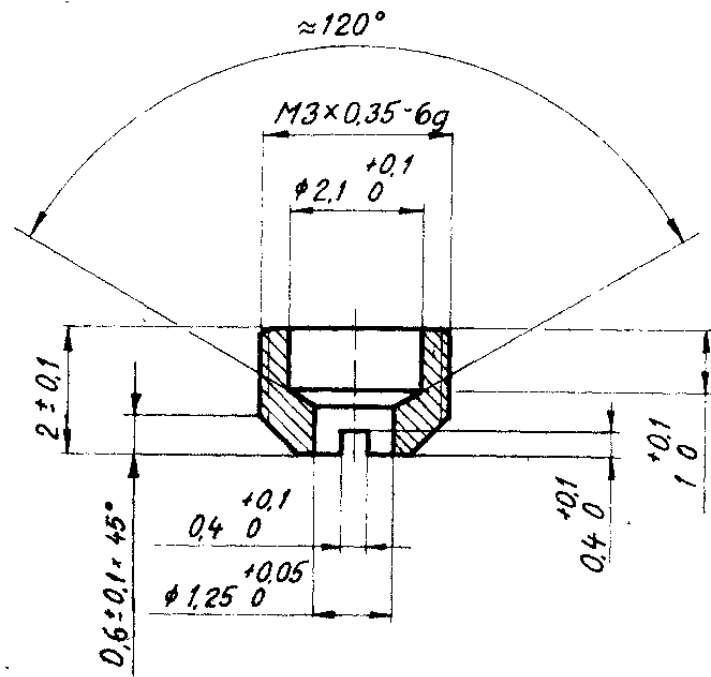


Scale 1:1

Utgåva	Ändr nr	Plats på ritning/Beskrivning	Datum	Utförd	Gransk/Godk
C	-	Translated from Swedish	84-02-10	787m	W. Åke

50

Allt obehörigt utnyttjande av denna handling beivras enligt lag



27-3-91	D.C. 35065-A	INDIGENOUS MATERIAL ADDED.
12-7-86	D.C. 133970-A	DRG. SEALED
DATE	AUTHORITY	REVISION
DRG SEALED: -12-7-86		ZONE
		AHSP D.O.
		SIG.

INDIGENOUS MATERIAL :-
 CHEMICAL COMPOSITION AS PER BS1554 Gde 303S31
 TO BE SUPPLIED IN ANNEALED STATED WITH
 MECHANICAL PROPERTIES Rm = 780 N/mm² MAX.

Free from burrs

Spec F1301-911790

Det	Antal	Benämning/Beteckning	Ritning/Referens	Material/Övrigt
				S15 steel 2346-02 or equal
Där icke annat anges gäller Tolerans		Ysämhet	Gradering	Form och lägetoleranser enl SMS 1920
		1.6	R eller Fas	Mått 10% eller ytan
			eller .45°	Måttmetod
				Måttang yta/Tang yta
				Skala
				10:1
Kontroll/Plad	Benämning	Ritningsgranskad	Konstruktionsgranskad	Godkänd
Datum	Kontrollgranskad	Produktionsgranskad	Datum	Regiterad
78-11-03	BN/PA		79-06-28	
Benämning		Screw		
FFV		Ritningsnummer		
		F1301-118780 C		
		Skid		

01-118673

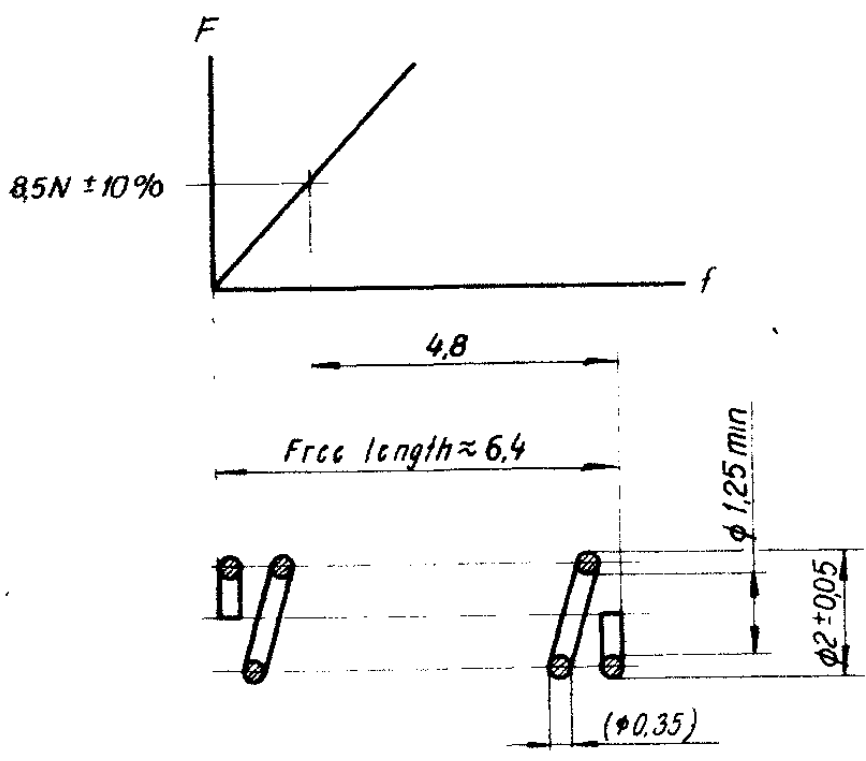


Jtgäva	Andr nr	Plats på ritning/Beskrivning	Datum	Utförd	Gransk/Godk
B	-	Translated from Swedish	84-02-10	JFM	W 216

Scale 1:1

INDIGENOUS MATERIAL :-
 IS 4454 Pt. IV Gde I AS DRAWN OR
 BS 1554 Gde 302 S31 IN COLD WORKED
 CONDITION WITH TS = 1960 N/mm² MIN.

Allt obehörigt utnyttjande av denna ritning beivras enligt lag



$n_v = 6$ coils
 $n_{tot} = 7.5$ coils
 Left-hand coiled
 Ends squared and free from burrs
 Load measured when compressed

27-3-91	D.C. 35065-A	INDIGENOUS MATERIAL ADDED.		
12-7-86	D.C. 33970-A	DRG. SEALED.		
DATE	AUTHORITY	REVISION	ZONE	SIG.
DRG. SEALED: -12-7-86				

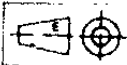
S15 steel 2331-06

Det	Antal	Benämning/Beteckning	Ritning/Referens	Material/Övrigt
		SMS 715 medium	Gränning n 0,2 Fas 24 0,2 45°	Form och måtttoleranser enligt SMS 1920 Måttmetod Nennig yta/Tang yta
Konstr/Ritad	IL	Ritningsgränsskad	Konstruktionsgränsskad	Godkänt
Datum	79-11-15	Konstruktör/berörig	Produktionsgränsskad	Datum
		Benämning		
		Spring $\phi 2 \times 6,4$		
Ritningsnummer				Skala
F1301-118770 B				/

01-118673
 ingår i 20

FFV

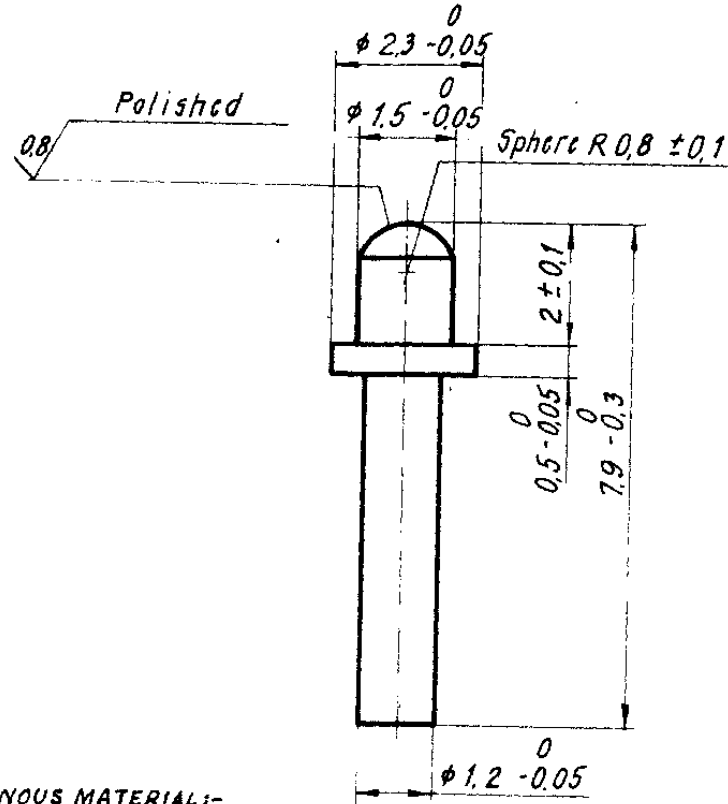
F1301-118770 B



Scale 1:1

Utgåva	Ändr nr	Plats på ritning/Beskrivning	Datum	Utförd	Gränsk/Godk
C	-	Translated from Swedish	84-02-13	Wm	W
D	1-3	E3; E2; B1; Drawing amended	84-06-21	JF	JF

Allt obehörigt utnyttande av denna handling beivras enligt lag



INDIGENOUS MATERIAL:-
 BS 1554 Gde 420S37 SOFTENED

*Hardened and tempered to 475 - 550 HV
 Free from burrs*

*Mass: ≈ 0,08g
 Spec F1301-911780*

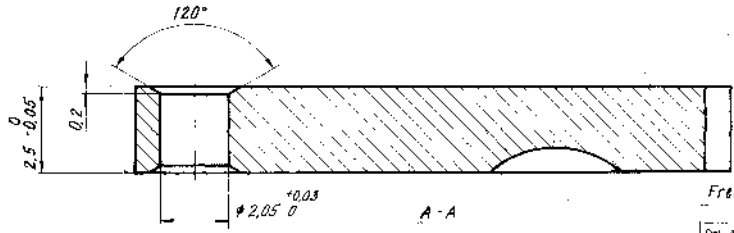
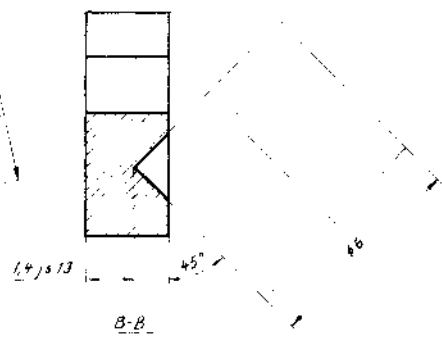
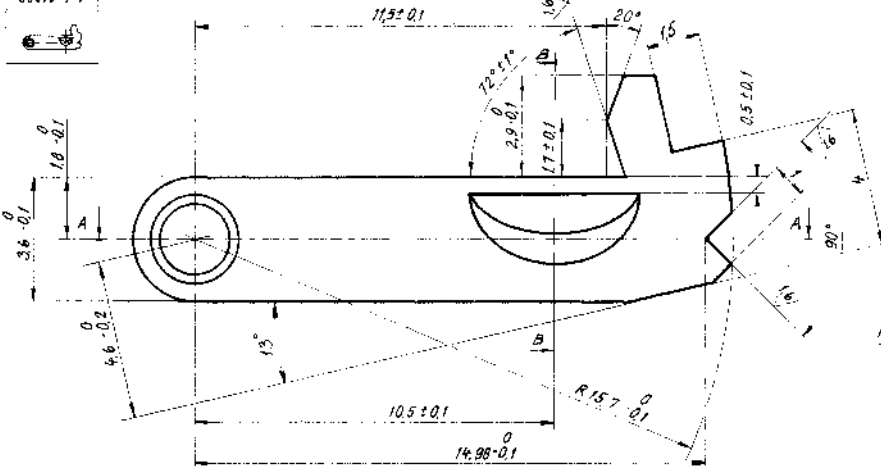
27-3-91	D.C. 35065-A	INDIGENOUS MATERIAL ADDED	DATE	12-7-86	DRG SEALED	DRG SEALED	12-7-86	DRG SEALED
			AUTHORITY				REVISION	
			DATE				ZONE	
			DO.				AHSP	
			SIG.					

Det		Antal		Benämning/Beteckning		Ritning/Referens		Material/Övrigt	
								S15 steel 2303-02 or Sandv. 4C27A or equal	
Där ej annat anges gäller: Tolerans				Fjämnhet		Gräddning		Form och tilltollerans enl SMS 1920	
				1.6		R eller Fas		Mätmetod Närings via Tang etc	
Konst/Ritad		Ritningsgräns		Konstruktionsgräns		Godkend		Registrerad	
Datum		Konstruktionsgräns		Produktionsgräns		Datum		Datum	
78-11-03		80/92				77-06-28			
Benämning				Trigger Catch					
FFV				Ritningsnummer F1301-118760D					

01-118673
 Ingh Vjh

DRG AVAILABLE ON CD.

Scale 1-1



INDIGENOUS MATERIAL -
 B5 2870 Gde. C2 120 HALF HARD Q2
 IS 531 Gde. Cu Zn 39 Pb 2 HALF HARD.

Free from burrs

Spec F1301-941730
 S15 brass S173-10 or equal

2 27-3-91 DC 35065-A INDIGENOUS MATERIAL ADDED

1 12-7-86 DCI 53970-A DRS SEALED

RND DATE AUTHORITY REVISION

DRG. SHALEW 12-7-87

16 - Translated from Swedish

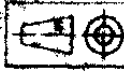
Utgåva A10 Plus of riting/Beskrining

84-02-13 Datum Utford Granskad

Proj. Arbet	Granskning	Reklam	Ansvar	Arbets	Arbets
SMS 715 medium	32'	10-1			
78-11-03	80/72	78-11-11			
FFV			Trigger		F1301-118751 C

01-118673

DRG AVAILABLE ON CD

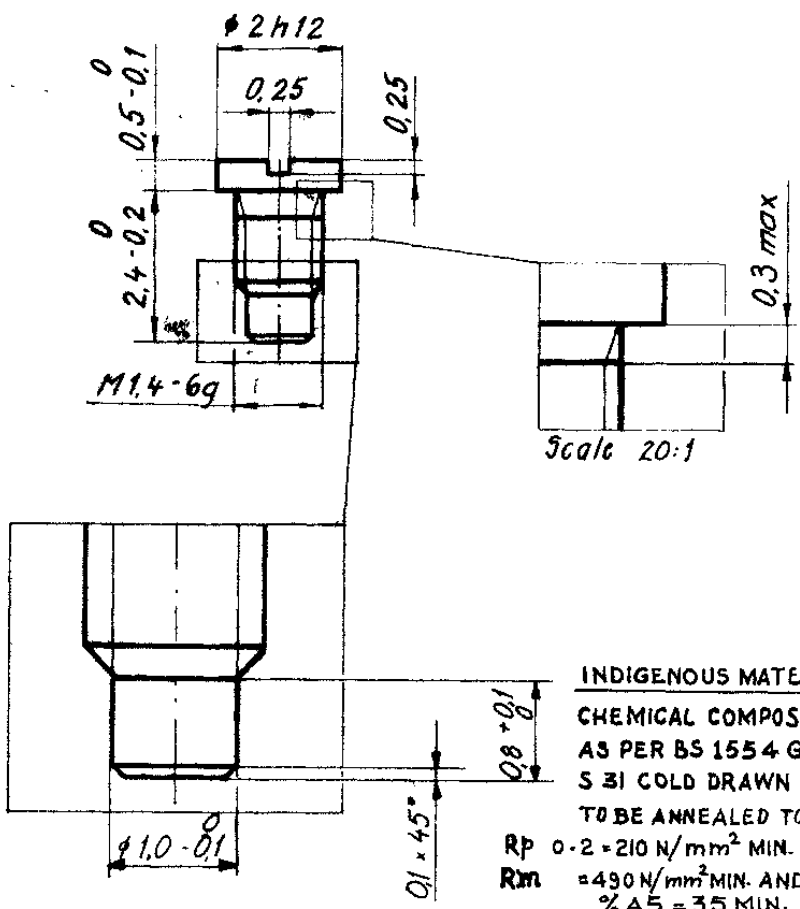


Scale 1:1

Utgåva	Andr nr	Plats på ritning/Beskrivning	Datum	Utförd	Gransk/Godk
10	-	Translated from Swedish	84-02-13	<i>[Signature]</i>	<i>[Signature]</i>

Allt obehörigt utnyttjande av denna handling beivras enligt lag

12-7-86	D.C.1 33970-A	DRG SEALED
DATE	AUTHORITY	REVISION
DRG SEALED: - 12-7-86		
	AHSA D.C.	SIG.
	ZONE	



Scale 20:1

Free from burrs

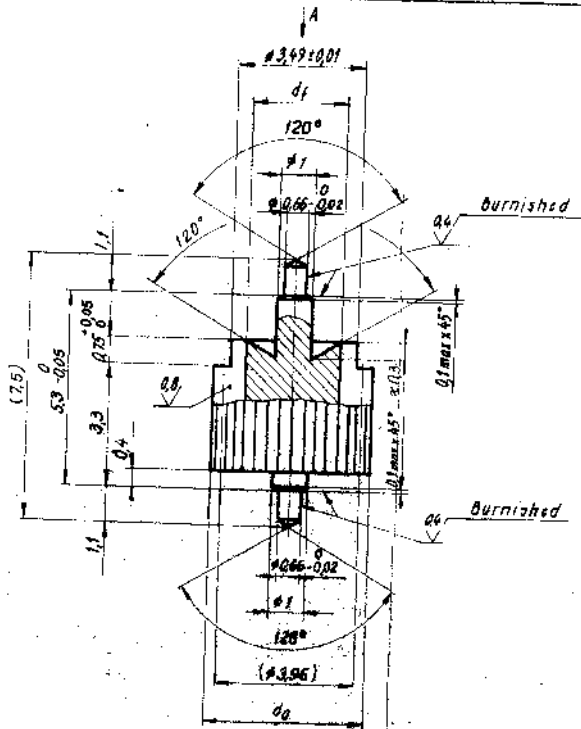
INDIGENOUS MATERIAL:-
 CHEMICAL COMPOSITION
 AS PER BS 1554 Gdc. 303
 S 31 COLD DRAWN MATL
 TO BE ANNEALED TO SATISFY
 Rp 0.2 = 210 N/mm² MIN.
 Rm = 490 N/mm² MIN. AND
 %A5 = 35 MIN.
 Spec F1301-911770

Dat		Antal		Benämning/Beteckning		Ritning/Referens		Material/Övrigt	
								S15 steel 2346-02 or equal	
Där ej annat anges gäller		Tolerans		Ytfinish		Gränning		Form och måttoleranser enl SMS 1820	
SMS 715 medium		6.3		Ritningsgränslinje		Konstruktionsgränslinje		Måttol. Metoden	
Konstr./Plats		Ritningsgränslinje		Konstruktionsgränslinje		Gestånd		Måttol. Metoden	
Datum		Kontrollgränslinje		Produktionsgränslinje		Datum		Måttol. Metoden	
18-11-03		BN/PL				18-11-03			
01-118673		Benämning		Screw M1.4 x 2.4		Ritningsnummer		F1301-118741 C	
FFV									

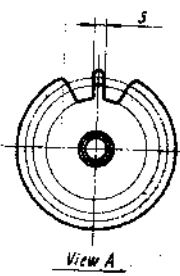
INDIGENOUS MATERIAL ADDED.

27-3-91 D.C. 35065-A

Scale 1:1



$z = 12$
 $m = 0.33$
 $d_o = 4.4352 \pm 0.02$
 $d = 3.96$
 $d_f = 2.772 \pm 0.05$
 $s = 0.363 \pm 0.01$
 $\gamma = 0.2805$
 To NIMS 20-02



INDIGENOUS MATERIAL -
 BS 1554 Gde 905 S31 OR IS 6526 Gde
 07 C- 18 Ni 9, MECHANICAL PROPERTIES
 UTS 780 N/mm² MAX.

Free from burrs

Spec F1301-911860

Doc. No.	Doc. Title	Revision	Material
515	515 steel 2346 02		of Sandv. 10RA50 or equal
Doc. No.	Doc. Title	Revision	Material
SMS 715	715 steel		10-1
Doc. No.	Doc. Title	Revision	Material
78-11-03			

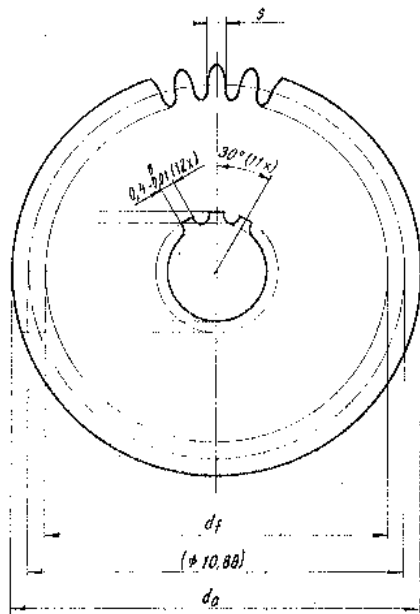
27-3-81	D.C.35065-A	INDIGENOUS MAT. ADDED.	
21-9-87	DCI.34235-A	DRG SEALED IN SUPERSESSION OF ISSUE 'D'	
1E	1-10	F5, F2, 2E2, D6, D5, D4, D2, B5, Drawing amended	86-02-12
10		Translated from Swedish	88-02-13

Pinion 2

FFV

F1301-119031E

Scale 1:1



$z = 34$
 $m = 0.32$
 $d_a = 11.712^{+0.02}$
 $d = 10.88$
 $d_f = 10.048 - 0.08$
 $s = 0.512 \pm 0.01$
 $\varphi = 0.64$
 To NH5 20-02

INDIGENOUS MATERIAL :-
 BS 2870 Grade CZ 120 HARD OR
 IS 551 Grade Cu Zn 39 Pb 2 HARD.

Free from burrs

Spec F1301-911980

Qul (Art) Bauart/Bauzeichnung	Ring (Art) Ring	Material (Art) Material
GMS 715 fine		515 brass 516B-06 or equal
Material (Art) Material	Material (Art) Material	Material (Art) Material
Material (Art) Material	Material (Art) Material	Material (Art) Material
Material (Art) Material	Material (Art) Material	Material (Art) Material

27-3-31	DC-39045-A	INDIGENOUS MATL. ADDED.
21-9-87	DCI 84-235-A	DRG. SEALED IN SUPERSESSION OF ISSUE 'D'
1E 1-10	F6; F2; E6; ZF2; D8; D7; C6; B6; B3	86-02-12
10	Translated from Swedish	84-02-13

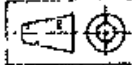
0-119011

Wheel 2

FFV

F1301-119021E

DRG. AVAILABLE ON C.D.



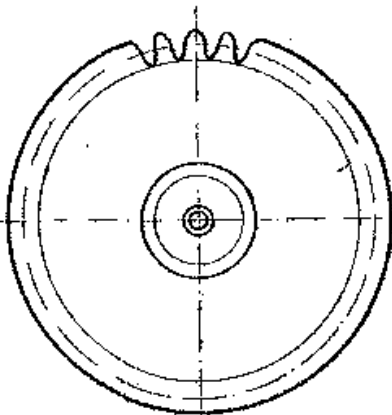
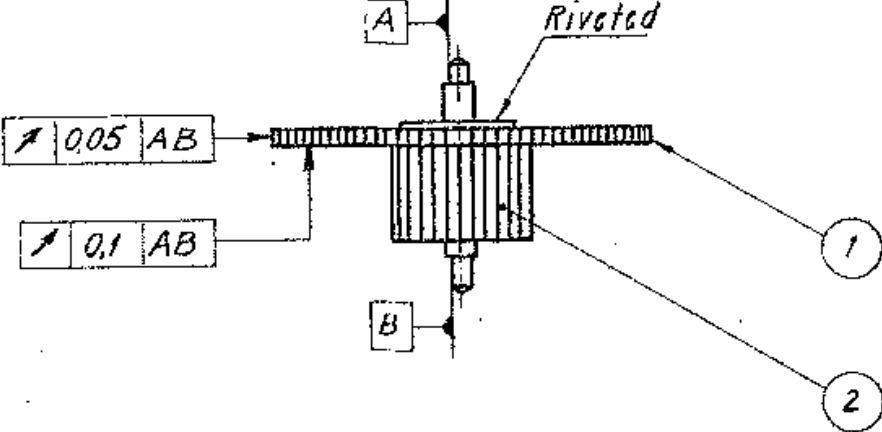
Scale 1:1



Utgåva	Ändr nr	Plats på ritning/Beskrivning	Datum	Utförd	Gränsk/Godsk
10	-	Translated from Swedish	84-02-10	77m	1 AB

75

Allt obehörigt utnyttjande av denna handling beivras enligt lag



Rivet joint to withstand an axial load of ≥ 300 N on to the wheel

Spec F1301-911910

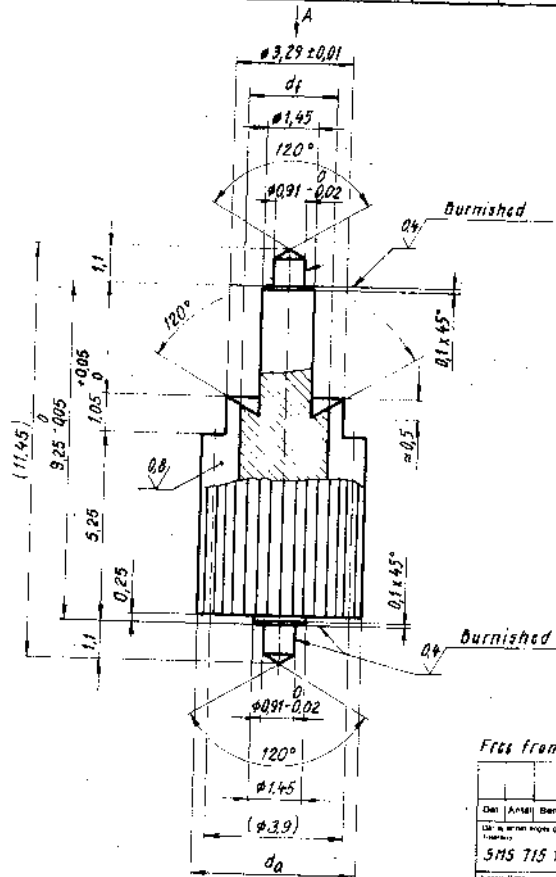
12-7-86	D.C.I. 33970-A	DRG. SEALED.
DATE	AUTHORITY	REVISION
		DRG. SEALED: - 12-7-86

2	1	Pinion 2	F1301-119031	
1	1	Wheel 2	F1301-119021	
Det	Antal	Benämning/Beteckning	Ritning/Referens	Material/Övrigt
Där ej annat anges gäller Tolerans		Ytöverfl.	Gränslinje R	Form och toleranser enl SWS 1920
Konstruktör	Ändr	Ändrgränslinje	Konstruktörgränslinje	Registrerad
Datum	78-11-03	Konstruktör	78-11-03	Datum
Benämning				
Wheel 2, assy				
FFV				
F1301-119011 B				

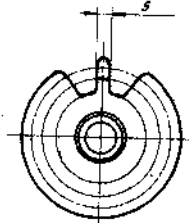
01-118673

300 mm

Scale 1:1



z = 10
 m = 0.39
 da = 4.4928 - 0.01
 d = 3.9
 df = 2.535 - 0.01
 s = 0.429 ± 0.01
 γ = 0.3705
 To NIMS 20-02



View A

INDIGENOUS MATERIAL :-
 BS 1554 GdE 3035 B1 TO BE SUPPLIED
 IN ANNEALED STATE WITH
 UTS = 780 N/mm² MAX.

Free from Burrs

Spec F1301-911850

Des (Artik)	Benämning/Selektion	Förh/ing/Referens	Material/Övergr
SM 715 fine			S15 steel 2346-02 or Sandv. 10RAS0 or equal
Material	Standard	Gränsvärden	Övergränsvärden
Stål	SMS 715	10:1	10:1
Skapad	28-11-03	77-11-02	
Pinion 1			F1301-119001 E

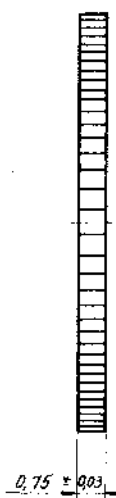
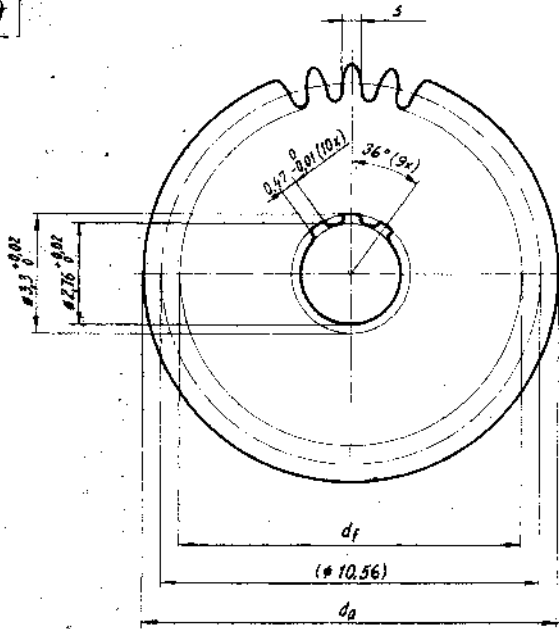
27-3-51	DC 35065-A	INDIGENOUS MATL. ADDED.	
21-9-87	DCI 34285-A	DRG SEALED IN SUPPRESSION OF ISSUE 'D'	
1E 1-11	2F5, F3, E4, 2E3, D6, D5, D2, C5, A5	Drawing amended	86-02-12
1D		Translated from Swedish	84-02-13

DRG AVAILABLE ON CD.

Scale 1:1



All dimensions unrounded or finish
rounding burrs and sq. tip.



$D.75 \pm 0.03$

$z = 32$
 $m = 0.33$
 $d_a = 11.404 \pm 0.02$
 $d = 10.56$
 $d_f = 9.768 \pm 0.08$
 $s = 0.528 \pm 0.01$
 $\phi = 0.66$
 To NH5 20-02

INDIGENOUS MATERIAL:-
 BS 2570 sde C2 120 HARD OR
 IS 531 sde Cu Zn 39 Pb 2 HARD.
 Spec F1301-9115
 Free from burrs

Free from burrs

Det / Art	Beskrivning / Description	Ritning / Reference	Material / Drawing
5MS 715 fine			
78-11-03			

27-9-91	P.C. 35065-A	INDIGENOUS MATL. ADDED.	
21-9-87	DC1.3423B-A	DRG. SEALED IN SUPERSESSION OF ISSUE 'E'	
1F 1-10	Drawing amended; F6, F2, E6, 2E2, D8, D7, C6, B6, B3		86-02-12
1E	Translated from Swedish		84-02-13
Ugglan	Åker	Parte på ritning/Beskrivning	Detent

Wheel 1.
FFV
 F1301-118991F

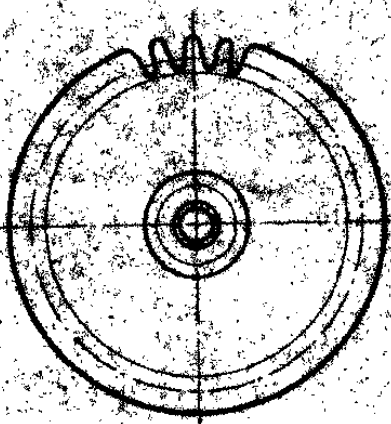
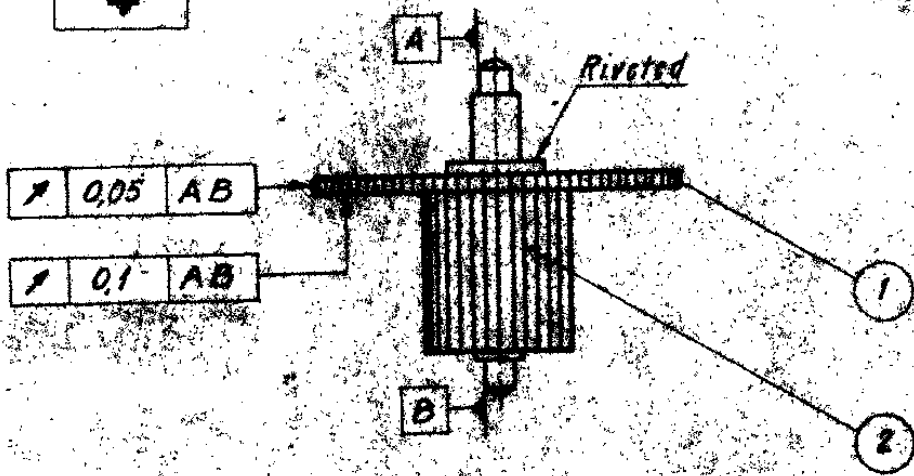
100% Scale Free - CD - FIGS. AVAILABLE ON CD.



Scale 1:1


Utgivning	Ändr nr	Plats på ritning/Beskrivning	Datum	Utödat	Granskat
0	-	Translated from Swedish	84-02-13		

Just önsker ytterligare upplysningar av denna handling bekrävas enligt lag



Rivet joint to withstand an axial load of $\geq 300 N$ on to the wheel

Spec F1301-911930

12-7-86	DC L33970-A	DRG SEALED
DATE	AUTHORITY	REVISION
DRG SEALED: 12-7-86		

2	1	Pinion 1	F1301-119081
1	1	Wheel 1	F1301-118991
Det	Appr	Beställning/Beställning	Ritning/Ritnings
Där ic annat anges gäller Tolerans		Vårskrift	Gravering
Kontroll/Revis	Utödat	Gravering	Material/Christ
Datum	18-11-03	19-11-03	5:1
Wheel 1, assy			F1301-118981 B

01-118673

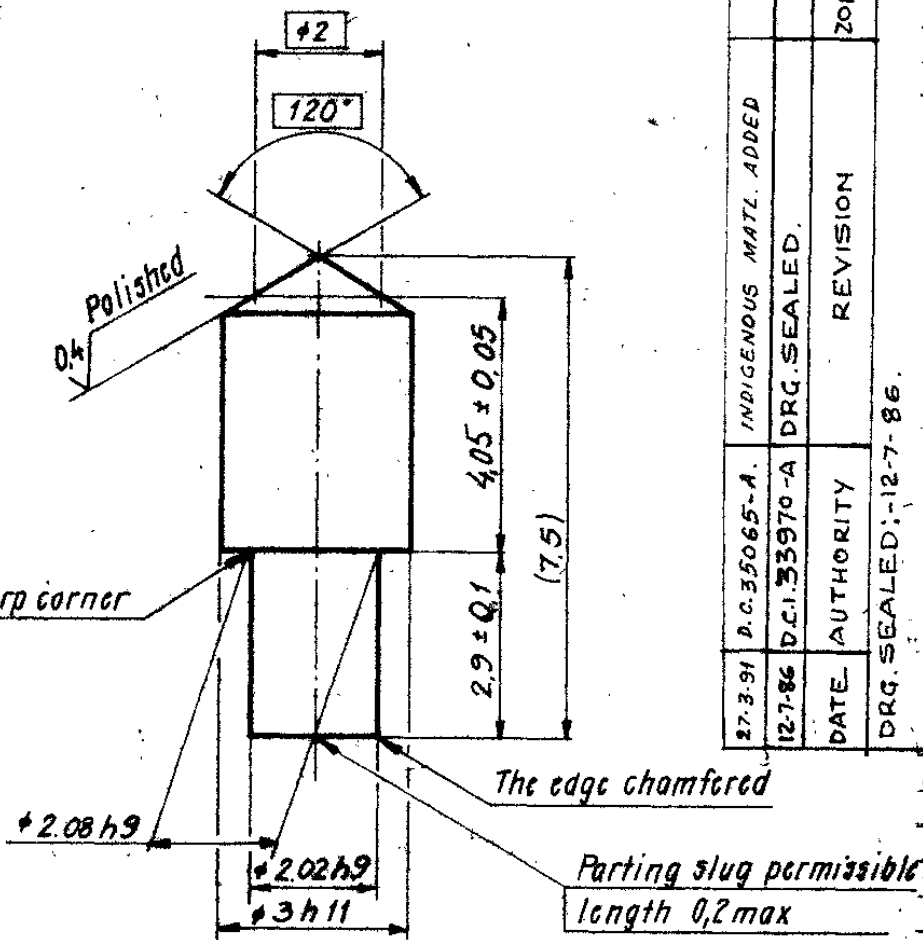
FFV



Utgåva	Ändr nr	Plats på ritning/Beskrivning	Datum	Utförd	Granskt/Granskt
28	-	Translated from Swedish	84-02-10	71	H. A.

Allt obehörigt utnyttande av denna handling beträffar enligt lag.

INDIGENOUS MATERIAL :-
BS 1554 Gde 420 S 37 SOFTENED.



27-3-91	D.C. 35065-A	INDIGENOUS MATL. ADDED
12-7-86	D.C. 33970-A	DRG. SEALED.
DATE	AUTHORITY	REVISION
		ZONE
		AHSP. D.S.
		SIG.

Free from burrs
 Hardened and tempered to 475-530 HV
 Spec F1301-911830
 S15 steel 2303-02
 or Sandv. 4C 27A or equal

Det	Ändr	Beskrivning/Beskrivning	Ritning/Referens	Material/Övrigt
Öls ej annat något gäller Teknisk		Typnummer 1.6	Gränslinje A eller B	Form- och måttavsnitt av 2000 1988 Skall vara tydligt tydligt tydligt
Karaktär M, Sm.	Beskrivning 5 Ln.	Konstruktion 5 Ln.	Skall 1.3	Reparerat
Datum 78-11-03	Karaktär BN / 3 Ln.	Produktions 5 Ln.	Datum 78-11-03	Datum
Pillar				
FFV				F1301-118972 B

01-118972

FFV

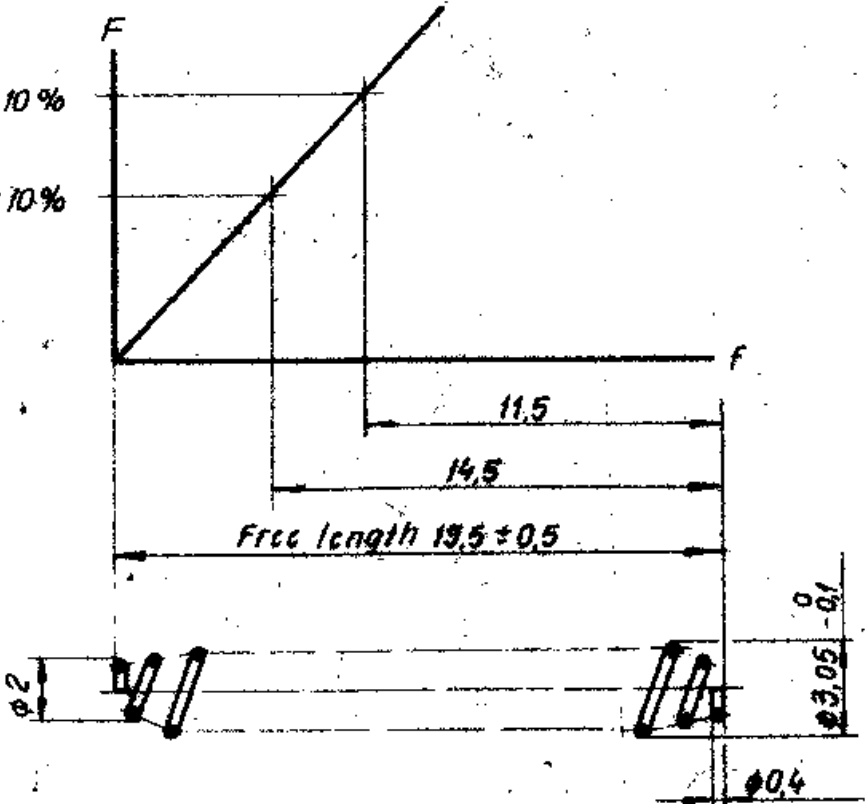
F1301-118972 B

DRG. AVAILABLE ON CD

Utgåve	Ändr nr	Fritt på riving/Beskrivning	Datum	Utörad	Gränsl/Godk
0	-	Translated from Swedish	14-02-10		U AB

58

Scale 1:1



$n_v = 13$ coils
 $n_{tot} = 14,5$ coils
 Spring tapered approx ≈ 2 coils in both ends
 Ends squared and free from burrs
 Load measured when compressed

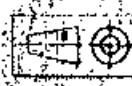
INDIGENOUS MATERIAL:-
 IS 4454 PE IV Gde I OR BS 1554
 Gde 302 S 31 IN COLD DRAWN
 CONDITION WITH UTS = 1960 N/mm² Spec F1301-912880

Alli öskörngt utnyttjande av denna ritning beaktas enligt lag.

27-3-91	D.C. 35065-A	INDIGENOUS MATL. ADDED.	DATE	AUTHORITY	DRG. SEALED:- 12-7-86
12-7-86	D.C. 35870-A	DRG. SEALED.	DATE	AUTHORITY	DRG. SEALED:- 12-7-86
			REVISION		
			ZONE		
			JANER D.O.		
			SIG.		

Del	Antal	Beskrivning/Beskrivning	Ritning/Retering	Material/Övrigt
				515 steel 2331-06
Öst av öskörngt utnyttjande av denna ritning beaktas enligt lag.				
SMS 715 medium		Gränsl	0,2	5:1
IL		Gränsl	0,2	
79-11-15		Datum	70-02-21	
FFV		Hand Spring		F1301-118960B

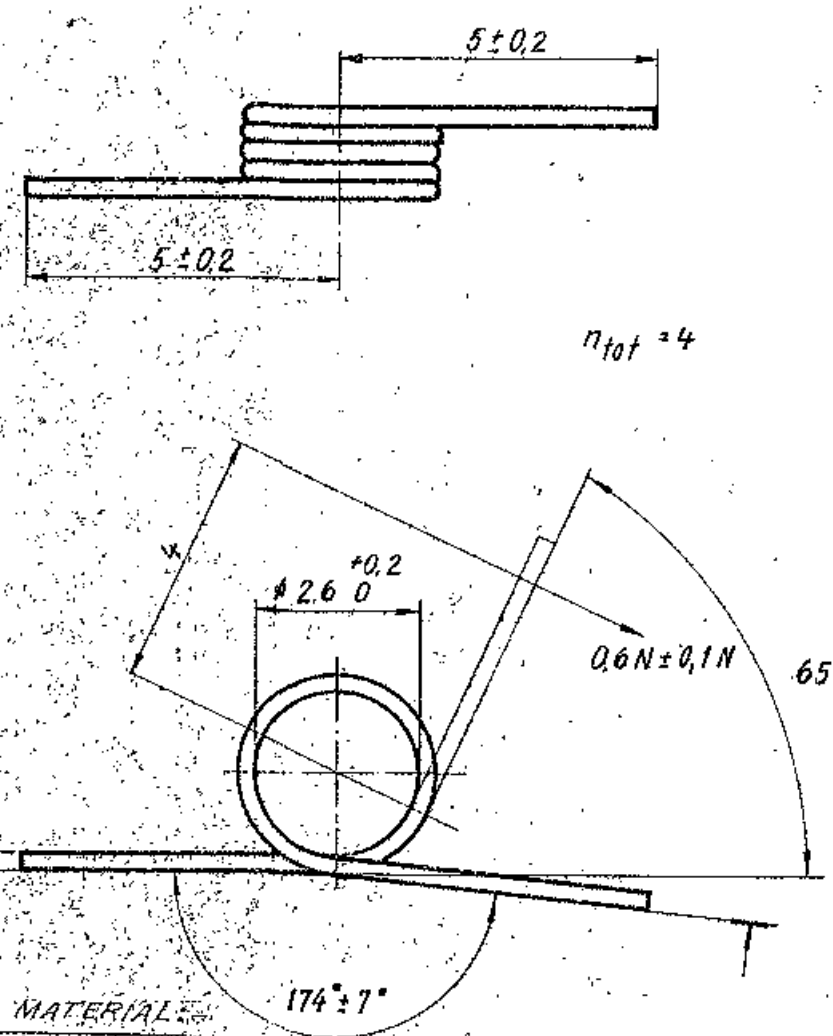
118673



Allt obehörigt utnyttjande av denna handling besträvas enligt lag.

Utgåva	Andr nr	Plats på ritning/Beskrivning	Datum	Utförd	Gransk/Godk
B	-	Translated from Swedish	84-02-10	ppm	W
C	1-3	E2, C1, B3, Drawing amended	84-03-06	ppm	KT

127-86	D.G. 33970-A	DRG SEALED	REVISION	ZONE	AHSP. D.O.	SIG.
DATE AUTHORITY		DRG SEALED: 12.7.86				



INDIGENOUS MATERIAL

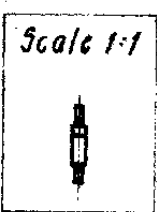
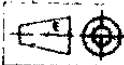
1.9 4454 PL IV Gde 1 AS DRAWN WITH UTS 2010 N/mm² MIN. OR B.9 1554 Gde 302.931 IN COLD DRAWN WITH UTS 2010 N/mm² MIN.

Mass : 0.026 g

Det	Antal	Benämning/Beteckning	Ritning/Referens	Material/Övrigt
Där et annat anges gäller Tolerans		Tjälmonet	Grädling	Form- och lagskala svar vid SMS 1970
			eller Fas	Mått ska enligt ritning
Kontroll/ritad	IL	Ritningsgranskad	Konstruktionsgranskad	Godkänd
Yatum	80-06-16	Kontrollarbetad	Produktionsgranskad	Datum
Behörighet				Registrerad
Torsion Spring				Deltyp
				Resningsnummer
FFV				Skala
				10:1

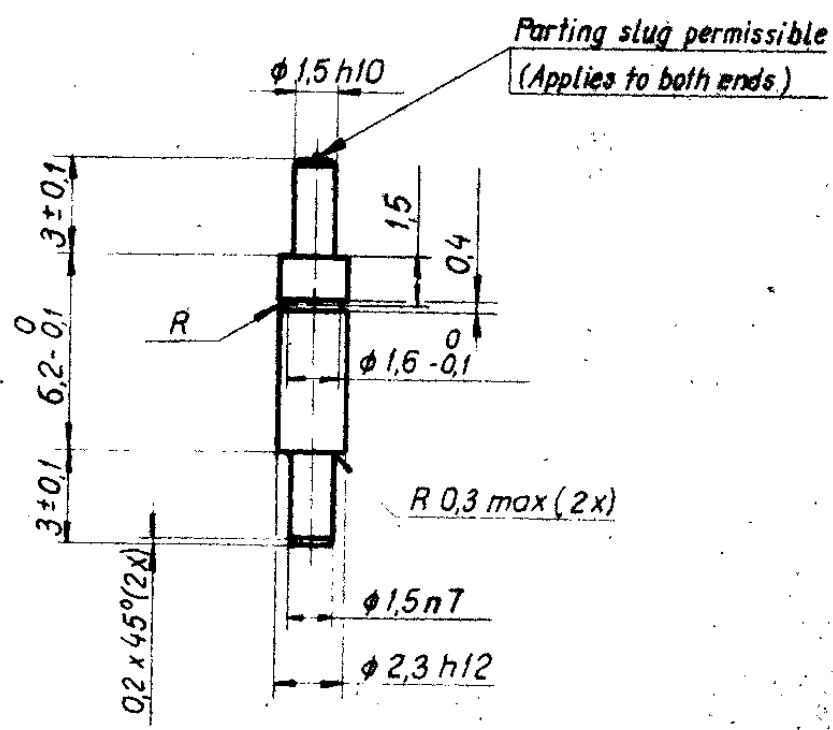
27.3.91 D.G. 35065-A INDIGENOUS MATERIAL ADDED.
 DATE AUTHORITY REVISION

01.11.86.73



Utgåva	Andr nr	Plats på ritning/Beskrivning	Datum	Utförd	Granskad/Övrigt
10	-	Translated from Swedish	04-02-13		
1E	1-2	E2; C2; Drawing amended	07-12-02		
27-12-88	D.C. 34511-A	DRG SEALED IN SUPERSESSION OF ISSUE 'D'			
27-3-91	D.C. 35065-A	INDIGENOUS MATL. ADDED.			

Allt obehörigt utnyttjande av denna handling beivras enligt lag



INDIGENOUS MATERIAL :-
 BS 1554 Gde 303 S31 TO BE
 SUPPLIED IN ANNEALED STATE
 WITH UTS = 830 N/mm² MAX.

Free from burrs

Spec F1301-911820

Det		Antal		Benämning/Beteckning		Ritning/Referens		Material/Övrigt	
								SS steel 2346-02 nr equal	
Där ej annat anges gäller Tolerans		Ytjämnhet 1,6/		Grading R		Form- och måtttoleranser enligt SMS 1020		Både	
SMS 715 medium				45°		Måttol. Höghed yta/Tång yta		51	
Konstr/Ritad		Ritningsgränslinje		Konstruktionsgränslinje		Grensart		Reviderad	
Datum		Kompletterad		Produktionsgränslinje		Datum			
		5/1/02				78-11-03			
		Benämning							
		Stop Pin							
		FFV							
								F1301-118941 E	

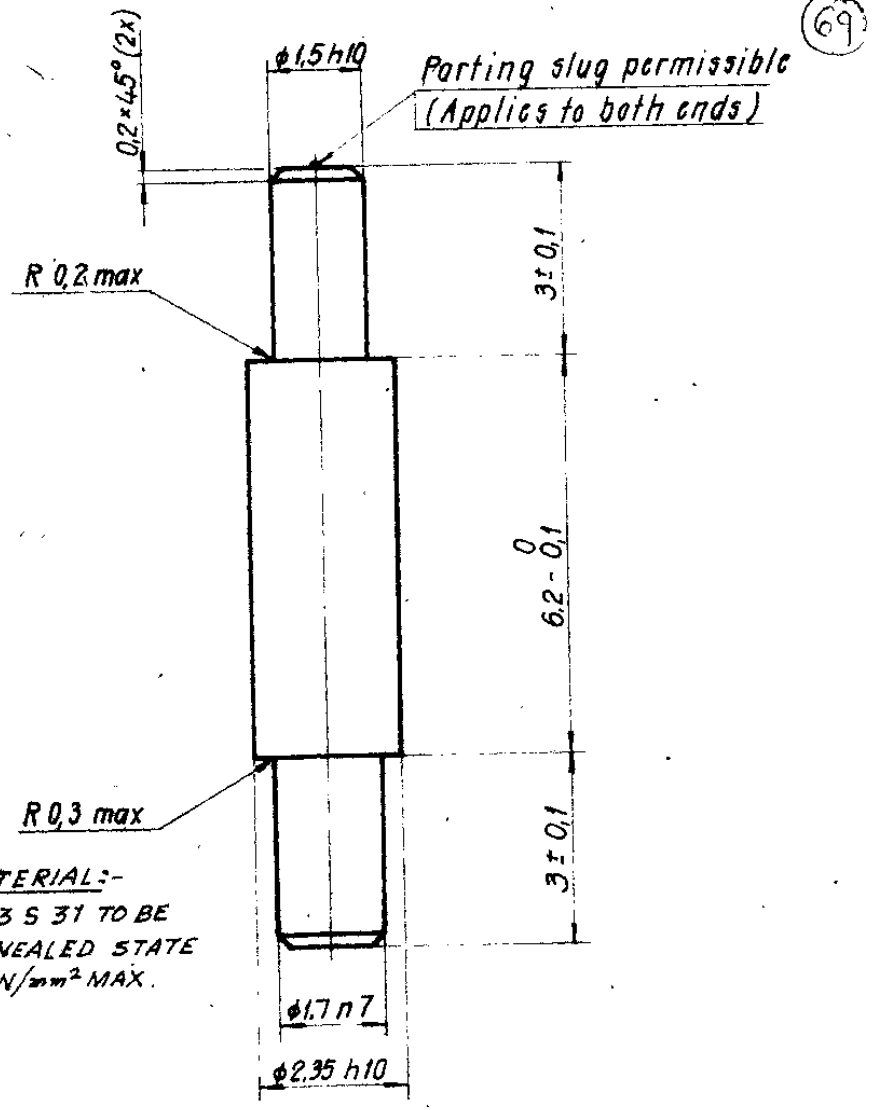
01-118673



Allt obehörigt utnyttjande av denna handling, beivras enligt lag.



Utgåva	Ändr nr	Plats på ritning/Beskrivning	Datum	Utförd	Gransk/Godk
16	-	Translated from Swedish	84-02-10	27m	L
10	1-4	E3:C3:B3:B2:Drawing amended	87-12-02	SA	IL/10139
27-12-88	D.C. 34511-A	DRG SEALED IN SUPERSESION OF ISSUE 'C'			Q
27-3-91	D.C. 35065-A	INDIGENOUS MATERIAL ADDED			R



INDIGENOUS MATERIAL:-
 BS 1554 Gde 303 S 31 TO BE
 SUPPLIED IN ANNEALED STATE
 WITH UTS = 830 N/mm² MAX.

Free from burrs

Spec F1301-911940

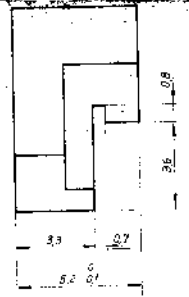
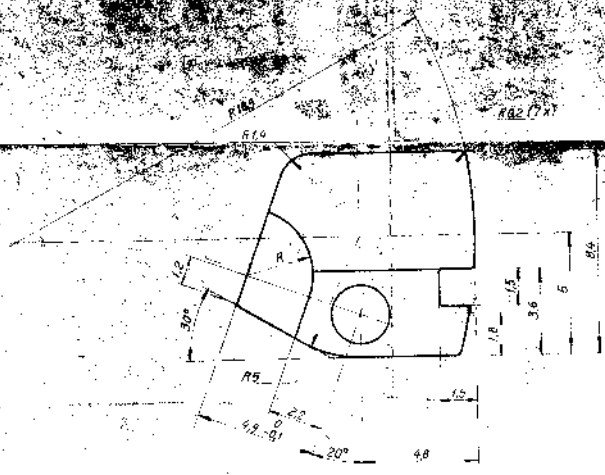
55 steel 2346-02 or equal

Det	Antal	Benämning/Beteckning	Ritning/Referens	Material/Övrigt
				55 steel 2346-02 or equal
Ditt ej annat anges gäller		Form och lagetolerans en. SMS 1920		
Tolerans		Yttermät	Gränning	Stor
SMS 715 medium		1,6	R eller Fas	45
Konstr/Risid		Ritningsgränskod	Konstruktionsgränskod	Godkänd
MS		5L		KS
Datum		Konstruktionsgränskod	Produktionsgränskod	Datum
78-11-03		BU/PL		78-11-03
Benämning		Pivot		
Ritningsnummer		F1301-118931 D		
Blad		D		

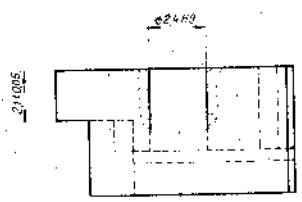
V-118673
Ingår i J. 2

FFV

F1301-118931 D



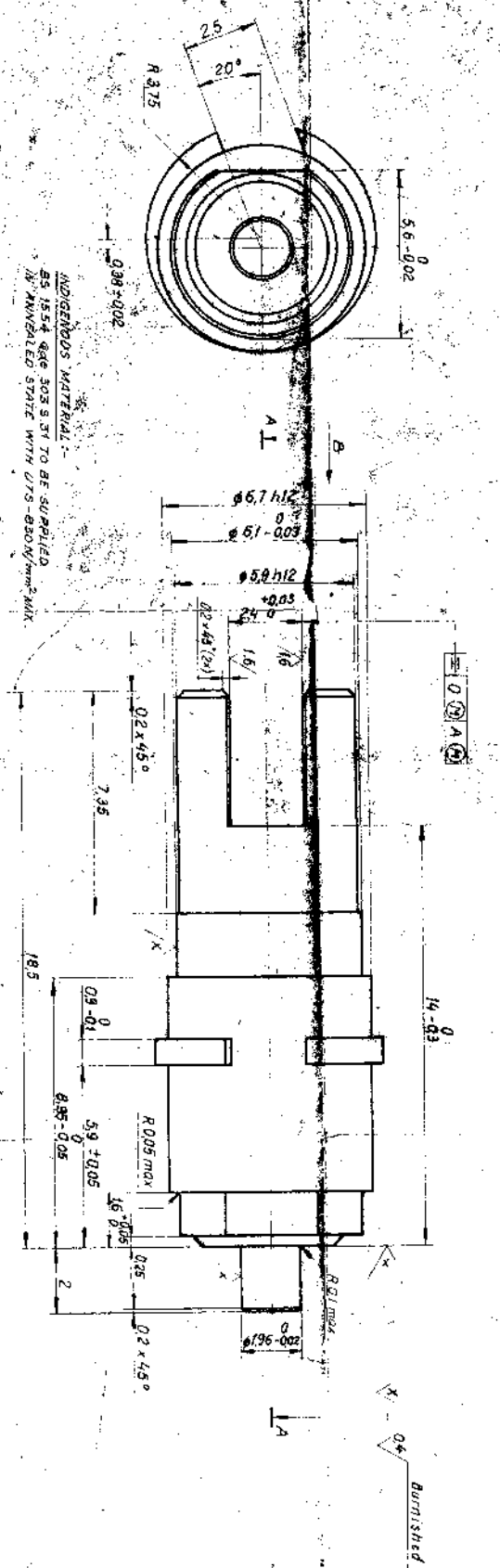
INDIGENOUS MATERIAL:
 IS 20/0 CE 120.0X
 IS 531.000 CU 7H 30 P22 HALF HARD.



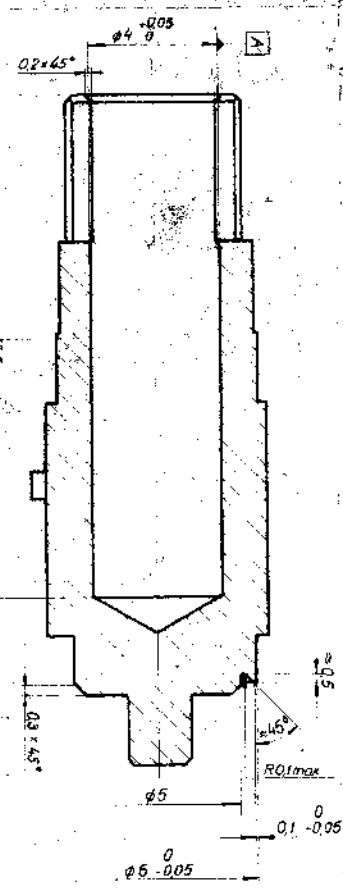
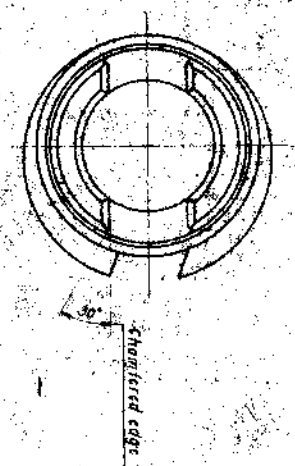
Free from burrs
 Spec F1301-911000
 S15 brass 5173-04 or equiv

2	17-531	D.C. 35000-A	INDIGENOUS MATERIAL ADDED				
1	12786	DCI 33974 A	DWG SEALED			28-11-03	28-11-03
DESIGN AUTHORITY		REVISION		ZONE		ANALYST	
DRG SEALED		17-7-56		17-07-10		17-07-10	
1E		Transferred from Swedish		17-07-10		17-07-10	

QMS 710 active	37	37	37
1E	37	37	37
28-11-03	28-11-03	28-11-03	28-11-03
Centrifugal Safety Device		F1301-118921	



INDIGENOUS MATERIAL -
 BS 1554 Q96 303 S ST TO BE SUPPLIED
 IN ANNEALED STATE WITH C/S - 800N/mm² MAX.



View B

Chamfered edge

A-A

Free from burrs

Spec F301-31034



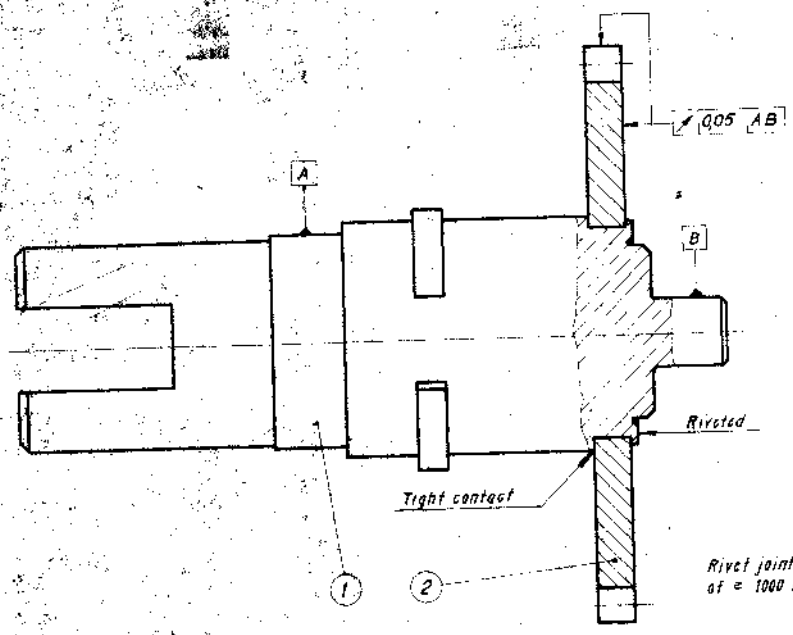
PARTIAL FROM SKETCH		PARTIAL FROM SKETCH	
REV	DATE	BY	CHKD
1	12-7-86		
2	12-7-86		
3	12-7-86		
4	12-7-86		
5	12-7-86		
6	12-7-86		
7	12-7-86		
8	12-7-86		
9	12-7-86		
10	12-7-86		
11	12-7-86		
12	12-7-86		
13	12-7-86		
14	12-7-86		
15	12-7-86		
16	12-7-86		
17	12-7-86		
18	12-7-86		
19	12-7-86		
20	12-7-86		
21	12-7-86		
22	12-7-86		
23	12-7-86		
24	12-7-86		
25	12-7-86		
26	12-7-86		
27	12-7-86		
28	12-7-86		
29	12-7-86		
30	12-7-86		
31	12-7-86		
32	12-7-86		
33	12-7-86		
34	12-7-86		
35	12-7-86		
36	12-7-86		
37	12-7-86		
38	12-7-86		
39	12-7-86		
40	12-7-86		
41	12-7-86		
42	12-7-86		
43	12-7-86		
44	12-7-86		
45	12-7-86		
46	12-7-86		
47	12-7-86		
48	12-7-86		
49	12-7-86		
50	12-7-86		
51	12-7-86		
52	12-7-86		
53	12-7-86		
54	12-7-86		
55	12-7-86		
56	12-7-86		
57	12-7-86		
58	12-7-86		
59	12-7-86		
60	12-7-86		
61	12-7-86		
62	12-7-86		
63	12-7-86		
64	12-7-86		
65	12-7-86		
66	12-7-86		
67	12-7-86		
68	12-7-86		
69	12-7-86		
70	12-7-86		
71	12-7-86		
72	12-7-86		
73	12-7-86		
74	12-7-86		
75	12-7-86		
76	12-7-86		
77	12-7-86		
78	12-7-86		
79	12-7-86		
80	12-7-86		
81	12-7-86		
82	12-7-86		
83	12-7-86		
84	12-7-86		
85	12-7-86		
86	12-7-86		
87	12-7-86		
88	12-7-86		
89	12-7-86		
90	12-7-86		
91	12-7-86		
92	12-7-86		
93	12-7-86		
94	12-7-86		
95	12-7-86		
96	12-7-86		
97	12-7-86		
98	12-7-86		
99	12-7-86		
100	12-7-86		

PPV

Arbor

F301-11892

Seal 11



Rivet joint to withstand an axial load of = 1000 N on to the wheel

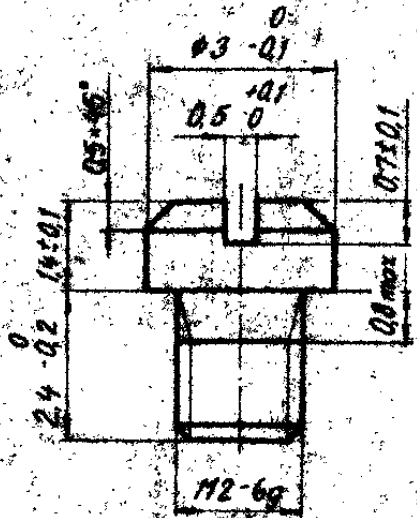
Spec F1301-9H990

2	1	Wheel	F1301-118900
1	1	Arbor	F1301-118911
Qty		Part Name	Material/Origin
10:1			
Date		IL	78-10-16
78-10-16		79-10-16	
FFV		Centre Wheel, assy	F1301-118901 B

DRG SEALED	REVISION	ZONE	ANSP	D.O
12-7-86				
FFV				

Scale 1:1

Utgåva	Ändr nr	Förändring/Beskrivning	Datum	Utförd	Ändrad av
10	-	Translated from Swedish	84-12-13	Jhm	L. B.



INDIGENOUS MATERIAL:-
 BS 1554 Gde 303-S 31 TO BE SUPPLIED IN ANNEALED STATE WITH UTS = 830 N/mm² MAX.

27-3-91	D.C. 35065-A	INDIGENOUS MATERIAL ADDED
12-7-86	D.C. 33970-A	DRG SEALED
DATE	AUTHORITY	REVISION
DRG SEALED:-	12-7-86	

Free from burrs

Spec F1301-912000

S15 steel 2346-02 or equal

Förändring/Beskrivning 10-11-85		Material/Övrigt S15 steel 2346-02 or equal	
Form- och Måtttoleranser enligt SANS 1520	Måtttoleranser enligt SANS 1520	Registrerat Datum	Skala 10:1
Skruv M2x2.4		F1301-118891 B	

FFV

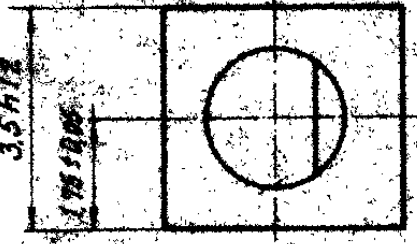
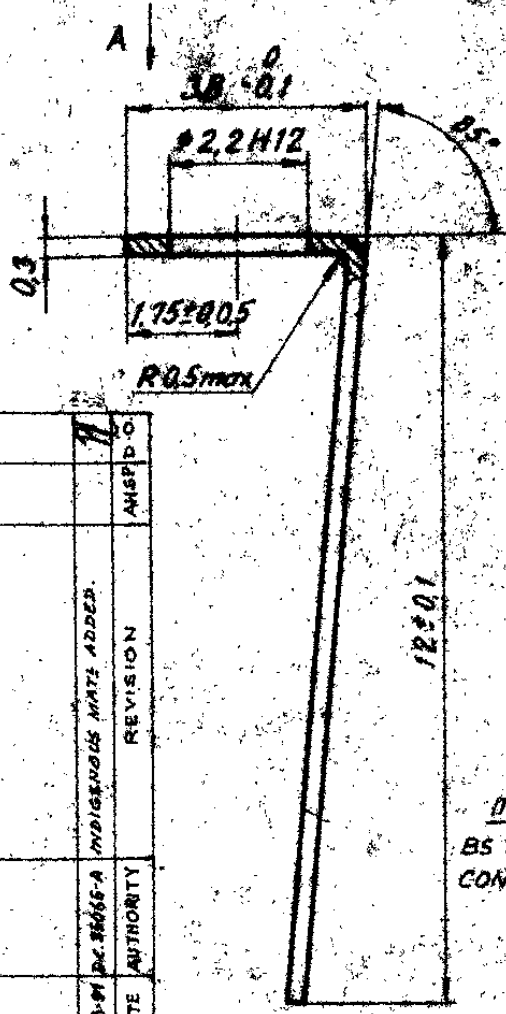


Scale 1:1
7

Utgivning	Ändr nr	Plats på ritning/Ändring	Datum	Utför	Granskat
10	-	Translated from Swedish	14-02-10	Jhm	U

12-7-86	33970-A	DRG. SEALED.			
DATE	AUTHORITY	REVISION	ZONE	ANSP.	SIG.
DRG. SEALED: - 12-7-86					

Allt godkännigt utförande av denna handling bekrävas enligt lag



View A

INDIGENOUS MATERIAL:-
BS 1449 Pt. 2 Gde 420 S 45 HARDENED
CONDITION WITH UTS 1470-1810 N/mm²

33970-A	INDIGENOUS MAT. ADDED.	REVISION	ANSP/D
DATE	AUTHORITY		

Spec F1301-912010

515 Steel 2304-08 or
Sandvik 12R11 or 6C27
or equal

Free from burrs

Det	Antal	Beskrivning/Beskrivning	Titling/Referens	Material/Ovrigt
				Form- och dimensioner enl. SWS 1800
Där in annat anges gäller Tolerans		Tyngnads	Gradering	Stäm
		3E	F	10-1
Konstr./Ritad	Rev./Ändrad	Produktionsgränslinje	Godkänn	Registrerad
Datum	Konstr./Ritad	Produktionsgränslinje	Datum	Datum
	88-11-03	BU/PA	78-11-01	
Retaining Spring				
FFV				F1301-118881 B

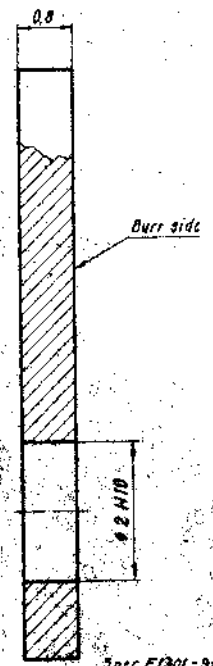
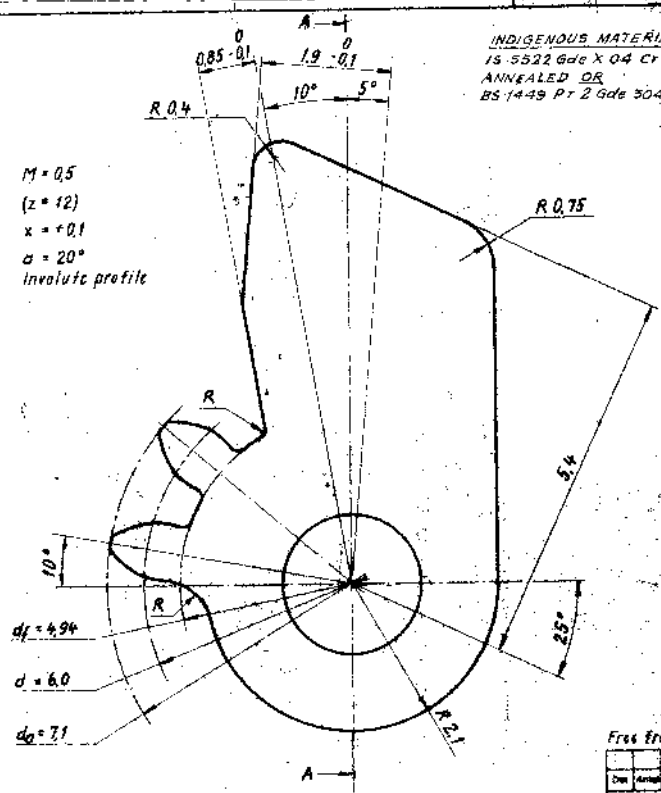
1-118673

S4

Scale 1:1

INDIGENOUS MATERIAL:-
 IS 5522 Gde X 04 Cr 18 Ni 11
 ANNEALED OR
 BS 1449 Pt 2 Gde 304 S 31 SOFTENED.

M = 0.5
 (z = 12)
 x = +0.1
 α = 20°
 Involute profile



Free from burrs

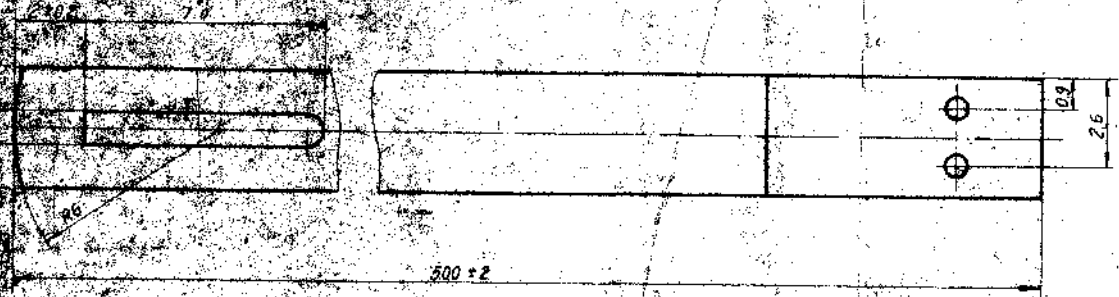
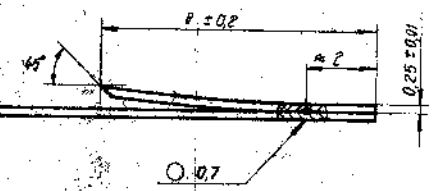
Spec F1301-911860

Drö	Arvid	Beskrivning / Beskrivning	Widning / Typsnitt	Material / Överg	Storlek
		SMS 115 medium	32/	S15 steel 2353-02 equivalent	20-1
		MSn	3Lo		
		78-11-03			
Pawl			FFV		
			F1301-118871 A		

2	27391	P.C. 35065-A	INDIGENOUS MATERIAL ADDED.		
1	12786	CC1.33370-A	DRG. SEALED		
			REVISION	ZONE	AHSP, D.D.
					SAG
			DRG SEALED - 12-7-88		
			Translated from Swedish		
				84-02-13	WKS

61-11872

DRG. AVAILABLE ON CD.



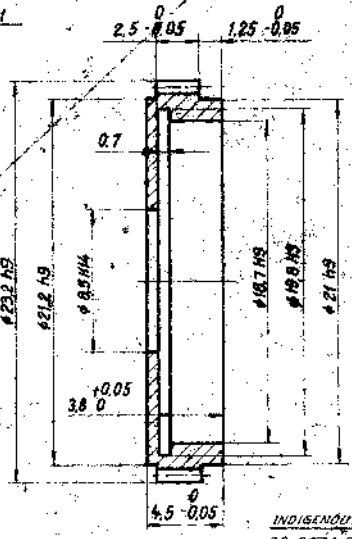
The first coil ϕ 6.2 - 7
 The spring shall be delivered in a spring holder with internal diam.
 = 18,5 - 4.5
 Free from burrs
 Spec. F1301-911810

Date				Drawing/Revisering				Material/Reference				Copies of HQR or equal			
The drawing office				Title				Material				Scale			
12-7-86				DRG SEALED				M5 710 medium				10:1			
DATE				AUTHOR				REVISION				ZONE			
DRG SEALED				12-7-86				M.5m				5.7h			
12-7-86				Translated from Swedish				78-11-03				BN 75 Ln			
12-7-86				12-7-86				FFV				Mainspring			
12-7-86				12-7-86				FFV				F1301-118862 B			

63



Scale 1:1

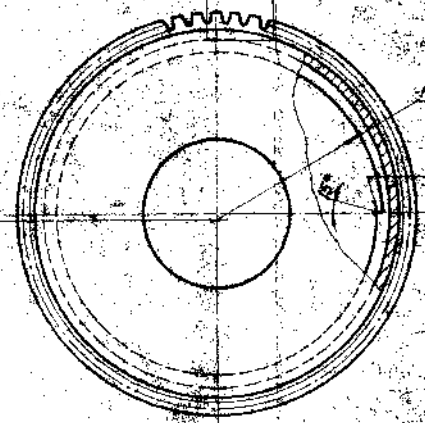


INDIGENOUS MATERIAL - BS 2874 Gals CZ 121, 3 Pkts



Scale 10:1

m = 0.8
z = 45
r = 0.1
α = 20°
Involute profile



Free from burrs

Spec F1301-91850

Dwg. No. 11		Drawing Title		Material	
11-11-53		BARREL		S15 brass 5170-04 or equal	
DATE		AUTHORITY		REVISION	
12-7-56		DCI 33970-A		DRG SEALED	
DATE		AUTHORITY		REVISION	
12-7-56		DCI 33970-A		DRG SEALED	
DATE		AUTHORITY		REVISION	
12-7-56		DCI 33970-A		DRG SEALED	
DATE		AUTHORITY		REVISION	
12-7-56		DCI 33970-A		DRG SEALED	

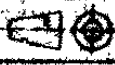
Barrel

FFV

F1301-118851 G

27-3-91	DCI 35065-A	INDIGENOUS MATERIAL ADDED
12-7-56	DCI 33970-A	DRG SEALED
12-7-56	DCI 33970-A	DRG SEALED
12-7-56	DCI 33970-A	DRG SEALED
12-7-56	DCI 33970-A	DRG SEALED
12-7-56	DCI 33970-A	DRG SEALED
12-7-56	DCI 33970-A	DRG SEALED
12-7-56	DCI 33970-A	DRG SEALED
12-7-56	DCI 33970-A	DRG SEALED
12-7-56	DCI 33970-A	DRG SEALED

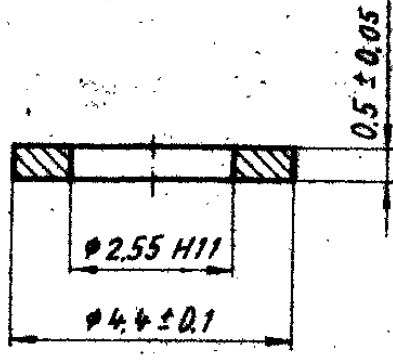
DRG AVAILABLE ON CD



Scale 1:1
+

Utgåva	Ämnr	Plats på ritning/Beskrivning	Datum	Utörd	Granskad
B	-	Translated from Swedish	14-02-13	77m	U

Allt obehörigt utnyttjande av denna teckning beivras enligt lag.



INDIGENOUS MATERIAL:-
 15 5522 Gdc X04 Cr 18 Ni 11 ANNEALED QR
 BS 1449 Pt. 2 Gdc 304 S 31 SOFTENED.

27-3-91	D.C. 35065-A	INDIGENOUS MATL ADDED.	DATE	AUTHORITY	REVISION	ZONE	DATE	SIG.
12-7-86	D.C. 33970-A	DRG. SEALED.	12-7-86	DRG. SEALED: - 12-7-86				

Free from burrs

Spec F1301-912020

SLS steel 2333-02 or equal

Det	Ämnr	Benämning/Beskrivning	Referens	Material/Ovrigt
Där ej annat anges gäller Tolerans: \pm Gradering: \pm				Form och Reguleranser enligt SWS 1820 Mätmetod: Mätning i mm Skala: 10:1
Konstruktör	Ämne	Registrerad	Godkänn	Registrerad
10-11-03	BA/QR	Produktionsgranskad	77-06-28	Datum
FFV		Washer		Ritningsnummer F1301-118840 B

31-118673



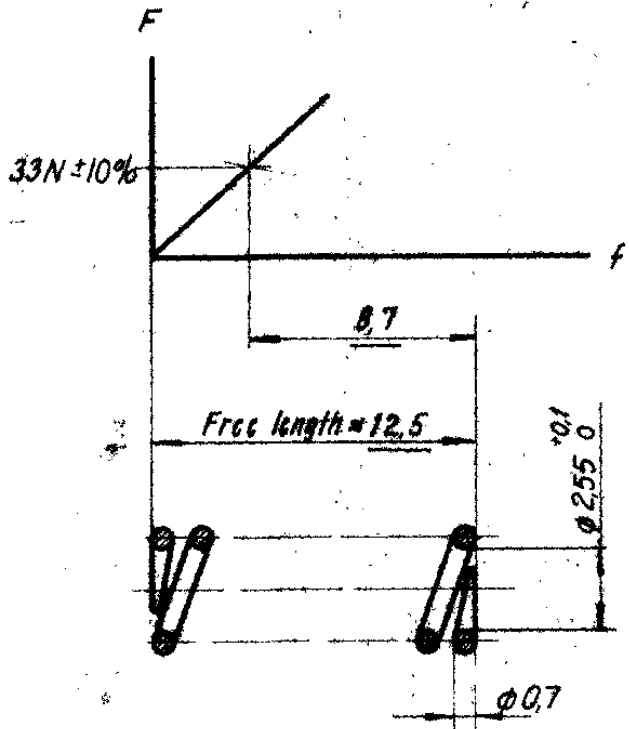
Alli oobandungi utnyayanda av danna harubing bebrass anngi lag.

Utgåve	Ändr nr	Plats på ritning/Beskrivning	Datum	Utövd	Granskad
C		Translated from Swedish	84-02-10		



INDIGENOUS MATERIAL :-
 IS 4454 Pt II Gde I AS DRAWN OR
 BS 1554 Gde 302 S 31 COLD WORK
 CONDITION WITH UTS-1870 N/mm²
 MIN.

Scale 1:1



$n_s = 7$ coils
 $n_{tot} = 8,5$ coils

Spec F1301-912890

Left-hand coiled
 Ends squared and ground
 Load measured when compressed
 Length 6,2 max when compressed solid

27-5-91	D.C. 35065-A	INDIGENOUS MATL. ADDED	
12-7-86	D.C. 33970-A	DRG. SEALED	
DATE	AUTHORITY	REVISION	ZONE
DRG. SEALED: -12-7-86			SIG.

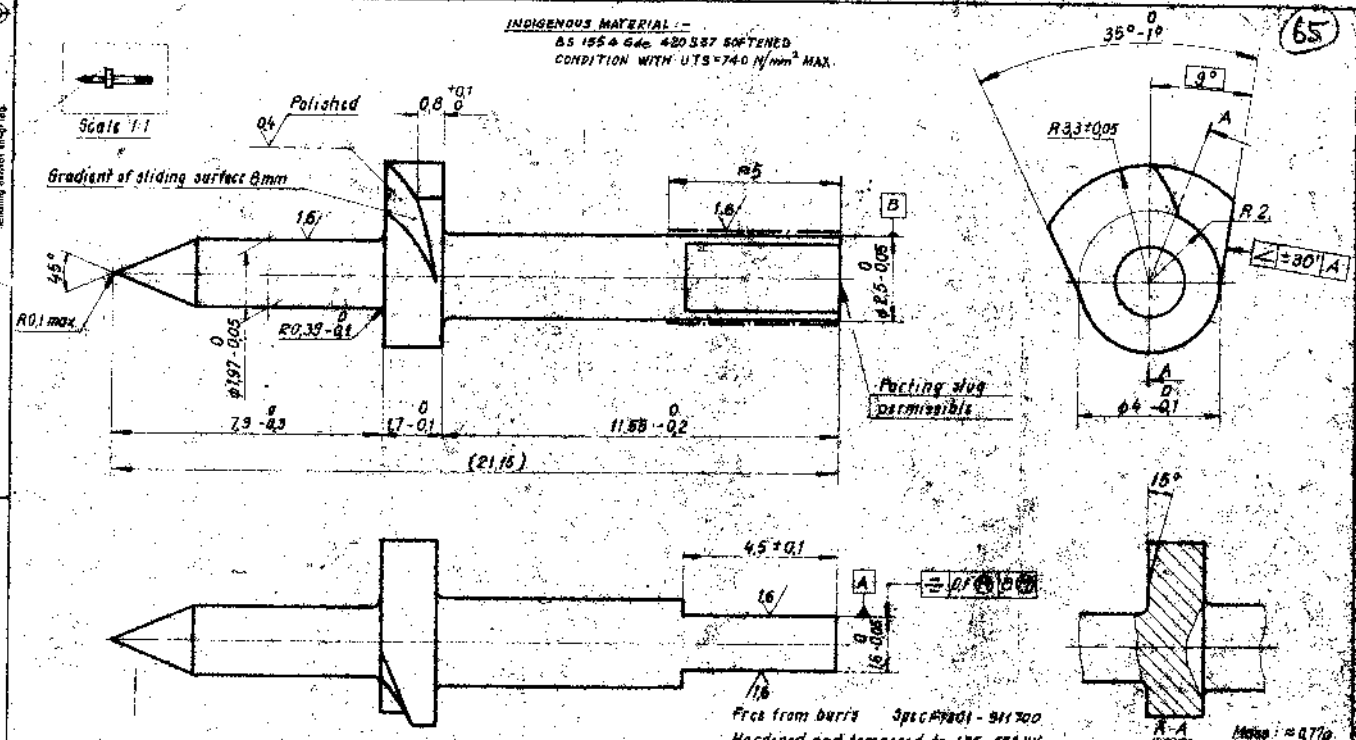
Det	Artid	Beskrivning/Besättning	Ritning/Ritörerna	Material/Övrigt
				515 Steel 2331-06
Där ej annat anges gäller Tolarens		Vagnvagn	Gravering n = 0,2 Tol = 0,2	Färd- och tillverkningsnr enligt 1985
Kunde/Plad		Föringsgränshet	Kontrollgränshet	511
79-11-15		Kontrollgränshet	20-02-21	
Striker Spring				
FFV				F1301-118830 C

118673

All dimensions are in millimeters unless otherwise indicated.

INDIGENOUS MATERIAL --
 BS 1554 S4c 420387 SOFTENED
 CONDITION WITH UTS=740 N/mm² MAX.

65



Free from burrs Spec #7801-311700
 Hardened and tempered to 475-500 HV

Distal 2303-02 of Spec 4C27
 Material/Design

RNS	DATE	AUTHORITY	REVISION	ZONE	ANSP	D.O.	SIG
1	27-3-91	D.C.35065-A	INDIGENOUS MATERIAL ADDED.				
2	12-7-86	DCI 25970-A	DRG SEALED				
DRG SEALED -- 12-7-86							
IE	Translated from Swedish.			4-11-83			
Updra	Andr	Rätt på ritning. Bekräftning					

Date	Author	Revising/Releasing	Revised/Design

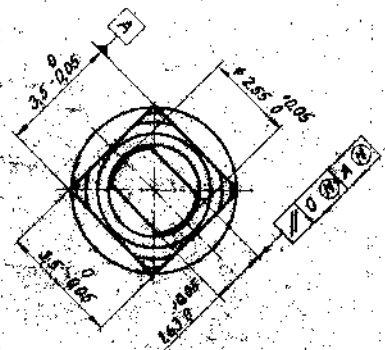
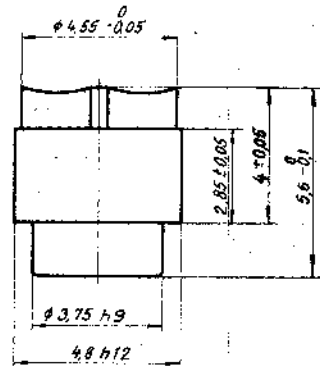
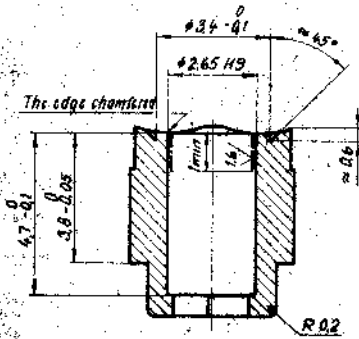
FFV

Striker

F1301-1188-1E

DRG AVAILABLE ON CD.

Ø 36 H9



INDIGENOUS MATERIAL :-

B5 1554 Gds 420557 SOFTENED OR
IS 6528 Gds 12 Cr 18 ANNEALED
WITH Rm = 740 N/mm² MAX.

Free from burrs

Spec F1301-9H710

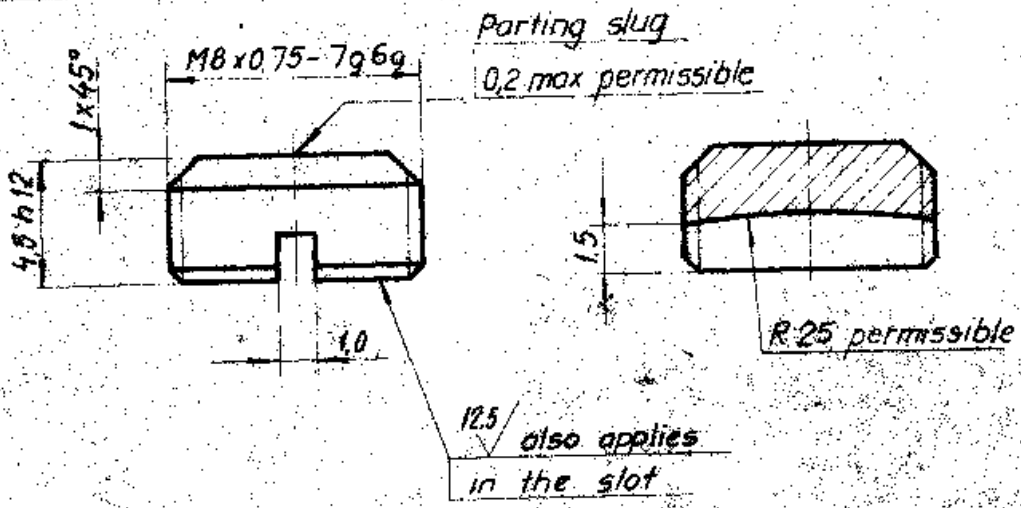
Date		Drawing		Material		Manufacturing	
78-11-03		RFV		SIS 8161 2303-02		or Swedish 4C2TA 11 eqval.	

12-7-26	INDIGENOUS MATERIAL ADDED			
12-7-26	DRG. SEALED			
DATE	AUTHORITY	REVISION	ZONE	AHBP / S.O. / SIG.
12-7-26				
Translated from Swedish				
RESPONSIBLE ON CD.				

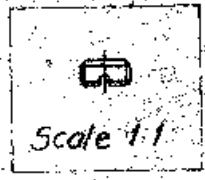
Free from burrs		Spec F1301-9H710	
Date		Drawing	
78-11-03		RFV	
Material		SIS 8161 2303-02	
or Swedish 4C2TA 11 eqval.		Manufacturing	
10-7		Guiding Sleeve	
RFV		F1301-11881E	

Allt obehörigt utnyttjande av denna handling beivras enligt lag.

Utgåva	Ändr. nr	Beskrivning	Datum	Utförd	Granskt/Godk.
-	-	Translated from Swedish	79-10-09	IL	KB/AG
B	1-3	D3, C2, B1	80-01-15	LA	Ph. P. B.
C	1	D4	80-04-03	Ph.	Ph. P. B.
D	1-2	D4, B2	82-02-23	Ph.	Ph. P. B.
5-4-83	D.C. 33419-A	DRG. SEALED IN SUPERSESSION OF ISSUE C			
5-3-91	D.C. 35041-A	INDIGENOUS MAT. ADDED.			100



INDIGENOUS MATERIALS:-
 BS 970 Pt. I: 302 S 31 OR
 BS 1554 - 302 S 31 OR 303 S 31.



Mass ≈ 1.0 g

Del	Antal	Beskrivning/Beteckning	Ritning/Referens	Material/Ömslag																								
				515 steel 2346-02																								
<table border="1"> <tr> <td>Material</td> <td>3.2</td> <td>Gröddning</td> <td>8.9</td> <td>Inte</td> <td>—</td> </tr> <tr> <td>Tecken</td> <td></td> <td>Inte</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Kontroll</td> <td>LN</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Datum</td> <td>77-02-01</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> </tr> </table>					Material	3.2	Gröddning	8.9	Inte	—	Tecken		Inte	—	—	—	Kontroll	LN	—	—	—	—	Datum	77-02-01	—	—	—	—
Material	3.2	Gröddning	8.9	Inte	—																							
Tecken		Inte	—	—	—																							
Kontroll	LN	—	—	—	—																							
Datum	77-02-01	—	—	—	—																							
Screw																												
FORENÄDE FABRIKSVERKEN HUVUDKONTORET ESKILSTUNA			F1301-112460D																									

01-112403

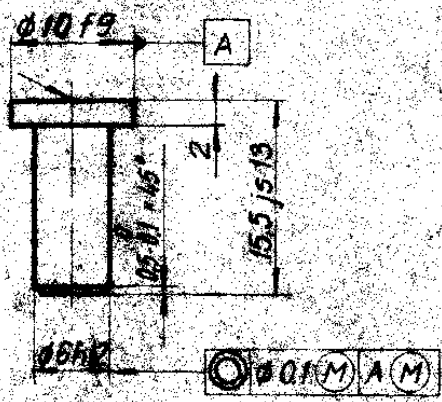
DRG AVAILABLE AT...

DRG AVAILABLE ON CD.

Allt sberörigt uppgifter skall vara
börjande bevaras i tillägg.

Utgåva	Ändr nr	Beskrivning	Datum	Utförd	Gransk/Godk
-	-	Translated from Swedish	79-10-09	IL	HO / FE
2A	1	02	90-02-07	LA	Mr. LA
		DRG SEALED PROVISIONALLY.	D.C.I. 33179-A	13.6.81	
		DRG SEALED	D.C.I. 33363-A	7-10-82	
		D.C.I. 33179-A INDIGENOUS MATERIAL ADDED	D.C. 35041-A	6-3-91	02
		33363-A IND. MATE NOTE AMENDED.	D.C. 86158-A	30.8.96	

Parting slug 0.3 max
permissible



INDIGENOUS MATERIALS:
 BS 1474 GR. 2014A TF OR
 IS 733 GR. 24345(WP) No
 HIGH GRAIN SIZE AREAS
 ARE PERMITTED IN THE
 FINISHED PRODUCT AFTER
 MACHINING

Spec. F1301-911250
 Mass ≈ 1,2 g

Det	Antal	Benämning/Beteckning	Ritning/Referens	Material/Ovrigt
				S15 A/ 4338-08 or equal

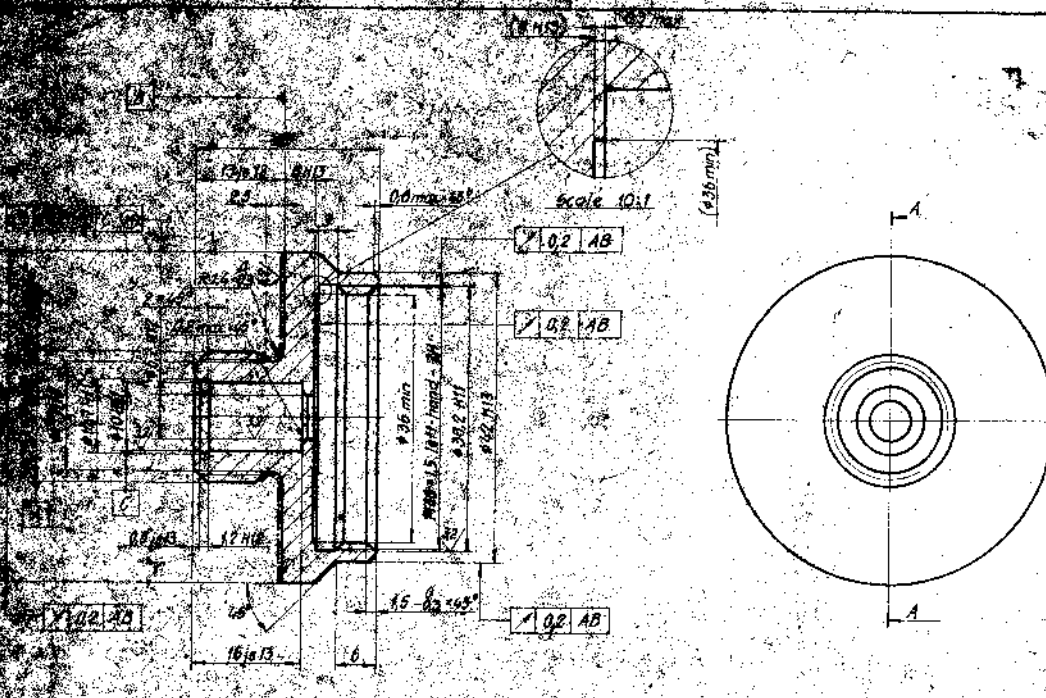
Det ej nämnda utgår gäller Toleras SMS 715 medium 6.3 Ordning 0.3 För 0.3	Kvalitet B.P. LN Datum 77-02-01 Prodör 56/LN Kontrö 55/LN	Godk BE 21
--	---	---------------

Plunger

01-112410
 Tillhör

FORENADE FABRIKSVÄRKEN
 HJUVUDKONTORET, ESKILSTUNA

F1301-112452 A



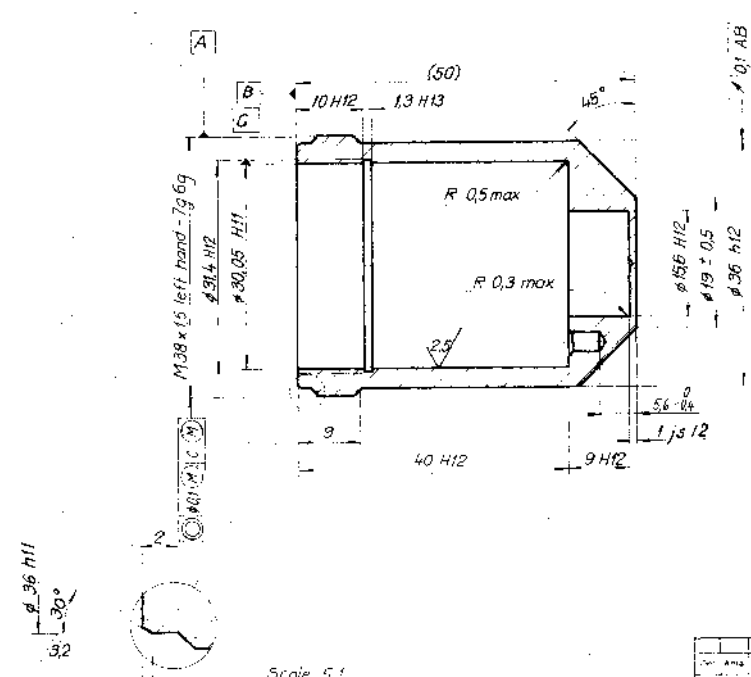
INDIGENOUS MATERIALS:-
 BS 1474 GR 2014A TF OR
 IS 733 GR 2434B (WP)
 NO HIGH GRAIN SIZE
 AREAS ARE PERMITTED
 IN THE FINISHED PRODUCT
 AFTER MACHINING.

Spec F1301-911280

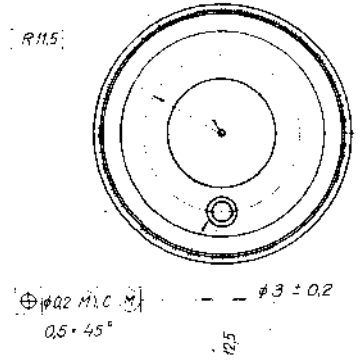
Moss < 40g

Rev	Appr	Spec	Material	Quantity	Remarks
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

check for conditions or damage
in cutting for crop and fly



Mark from unit, and if possible
depth as max. permissible



INDIGENOUS MATERIALS:
IS 753 GR 24345 WPTOR
BS 1474 GR 2014 A TP
* NO HIGH GRAIN SIZE AREAS ARE
PERMITTED IN THE FINISHED PRODUCT
MSS 5-526 AFTER MACHINING

SPEC. F1301-912650
SIS AT 4355-015 or equal

Scale 5:1

27-12-88	D.C.34511-R	ORC SEALED IN SUPERSESSION OF ISSUE 'A'	30.890 36758-A	IND. MATH NOTE AMENDED	32	6.5 H15 medium	6.3		
38	1	C4	35-3-30 35041-A	INDIGENOUS MATERIAL ADDED	32	RD			
34	1-2	05, C6			32				
2A	1-3	D5, C6 4, B2			32				
1E	1-2	E1, B2			32				
10	1	B2			32				
01-112431		Transferred from Swedish			32				
Ugava	App	Part of Housing Backström			32				

FFV

Housing

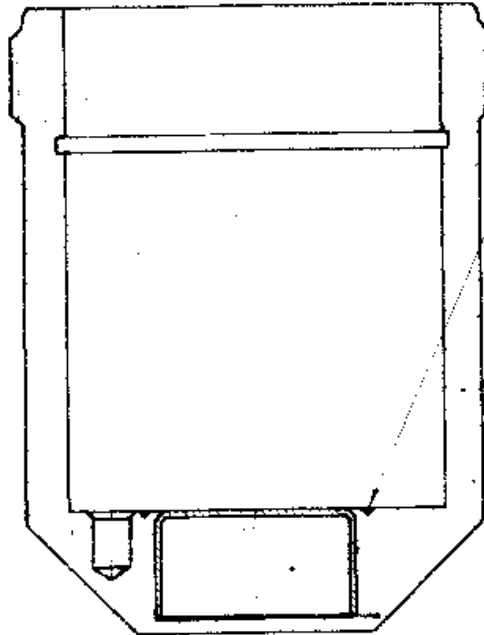
F1301-112433 B

DCI
33513-A

LA	1	84	81-04-07	AD	AD/AG
C	1	B4	82-03-15	AF	AG
D	1-3	E2: 2 B4			

DRG SEALED IN SUPER
SESSION OF ISSUE 'C'

DCI
33513-A 3/11/83



Staked
Fuze magazine and
folded-over material
must not protrude
outside the bottom face

Mass = 63 g

- 3 Disc F1301-112480
- 2 Fuze magazine F1301-113911
- 1 Housing F1301-112433

RD
78-12-21

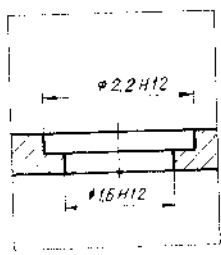
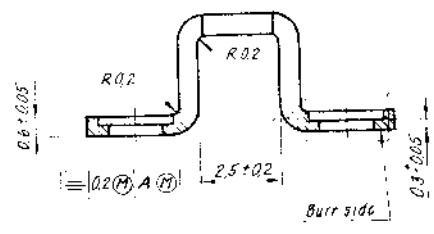
Housing Assy

FFV

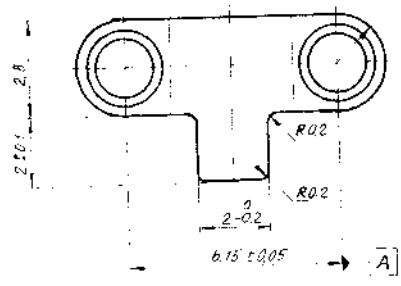
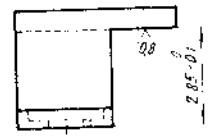
F1301-112421 D

DRG AVAILABLE ON CD

Scale 1:1



Scale 20:1



INDIGENOUS MATERIAL:
 IS 5522 GRADE X 04 Cr 18 Ni 11
 OR
 BS 1449 PL 2 GRADE 304 S 31 WITH
 MECHANICAL PROPERTIES IN ANNEALED
 STATE AS
 Rp 0.2 ≥ 210 N/mm² MIN.
 Rm = 480 - 680 N/mm²
 % A5 = 45 MIN.

Spec F1301-911680

Free from burrs

27-38 DC 35065-A; INDIGENOUS MATERIAL ADDED.

REVISION

18 Translated from Swedish

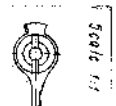
04-02-18

FFV

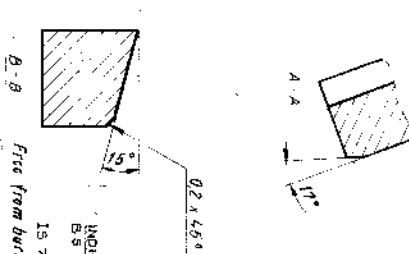
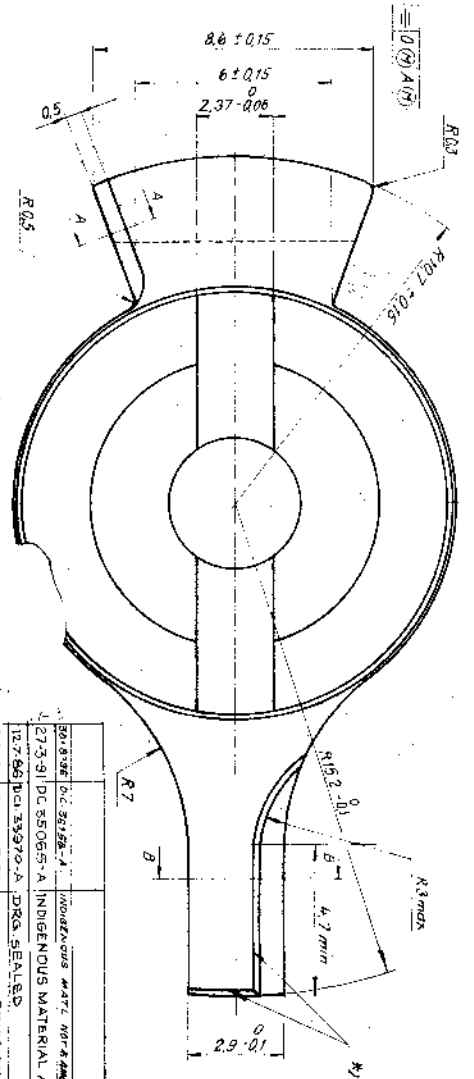
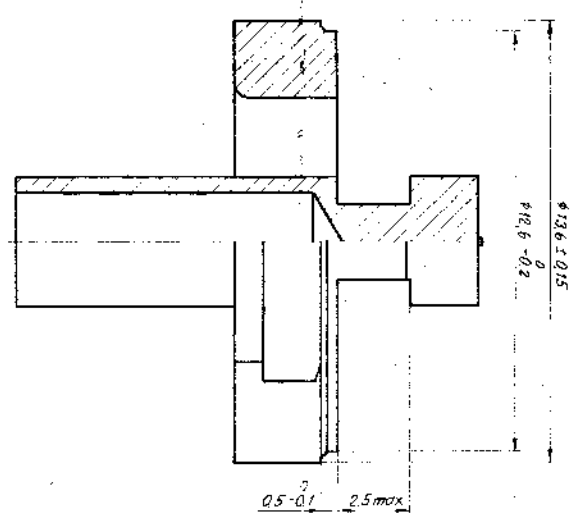
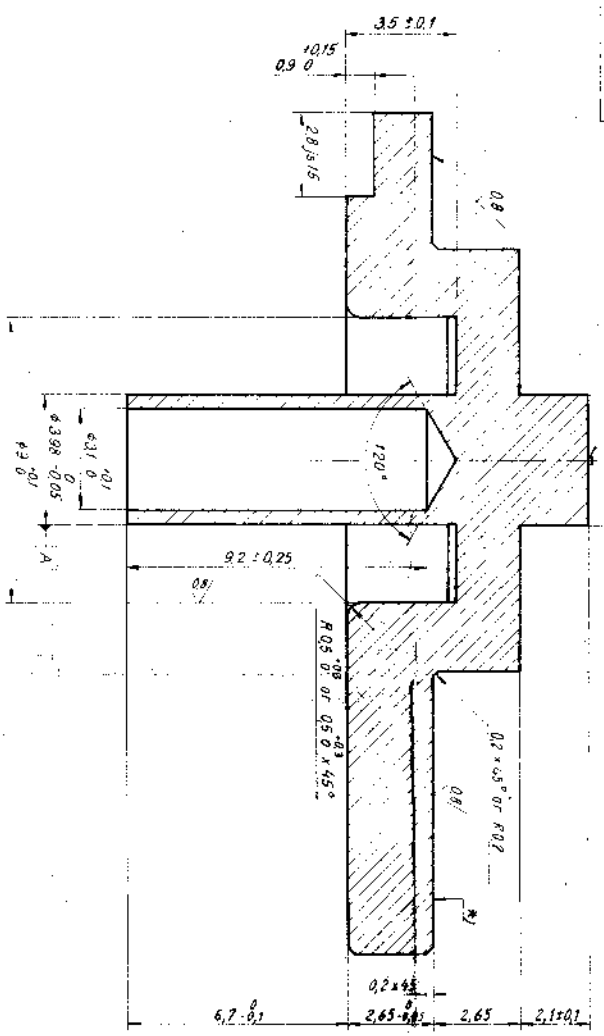
Bridge

F1301-118731 B

FORM AVAILABLE ON CD



Parting slug permissible
length 0.2 max



*Plane and junction interface
free from burrs

INDIGENOUS MATERIAL -
B. S. 1474 GRADE 20.4 A CONDITION 1 F 1

15. 75% GRADE 20.4 A5 CONDITION 1 F 1
AGREED GRINDING AREAS ARE
PERMITTED IN THE FINISHED
PRODUCT AFTER MACHINING.

Mass: 2.14g
Split F1301-3F670
Split F1301-3F670

REV	DATE	DESCRIPTION
1	12-7-86	DRG. SEALED
2	12-7-86	DRG. SEALED
3	12-7-86	DRG. SEALED
4	12-7-86	DRG. SEALED
5	12-7-86	DRG. SEALED
6	12-7-86	DRG. SEALED
7	12-7-86	DRG. SEALED
8	12-7-86	DRG. SEALED
9	12-7-86	DRG. SEALED
10	12-7-86	DRG. SEALED
11	12-7-86	DRG. SEALED
12	12-7-86	DRG. SEALED
13	12-7-86	DRG. SEALED
14	12-7-86	DRG. SEALED
15	12-7-86	DRG. SEALED
16	12-7-86	DRG. SEALED
17	12-7-86	DRG. SEALED
18	12-7-86	DRG. SEALED
19	12-7-86	DRG. SEALED
20	12-7-86	DRG. SEALED

INDIGENOUS MAT. NOT APPROVED
27-3-91 DC S5065-A INDIGENOUS MATERIAL ADDED
12-7-86 DC S5970-A DRG. SEALED
DATE AUTHORITY REVISION
DRG. SEALED: 12-7-86
ZONELAND DO

REV	DATE	DESCRIPTION
1	12-7-86	DRG. SEALED
2	12-7-86	DRG. SEALED
3	12-7-86	DRG. SEALED
4	12-7-86	DRG. SEALED
5	12-7-86	DRG. SEALED
6	12-7-86	DRG. SEALED
7	12-7-86	DRG. SEALED
8	12-7-86	DRG. SEALED
9	12-7-86	DRG. SEALED
10	12-7-86	DRG. SEALED
11	12-7-86	DRG. SEALED
12	12-7-86	DRG. SEALED
13	12-7-86	DRG. SEALED
14	12-7-86	DRG. SEALED
15	12-7-86	DRG. SEALED
16	12-7-86	DRG. SEALED
17	12-7-86	DRG. SEALED
18	12-7-86	DRG. SEALED
19	12-7-86	DRG. SEALED
20	12-7-86	DRG. SEALED

INDIGENOUS MAT. NOT APPROVED
27-3-91 DC S5065-A INDIGENOUS MATERIAL ADDED
12-7-86 DC S5970-A DRG. SEALED
DATE AUTHORITY REVISION
DRG. SEALED: 12-7-86
ZONELAND DO

1-18827

DRG. NO. 118827-001

1-18827

1-18827

1-18827

1-18827

1-18827

1-18827

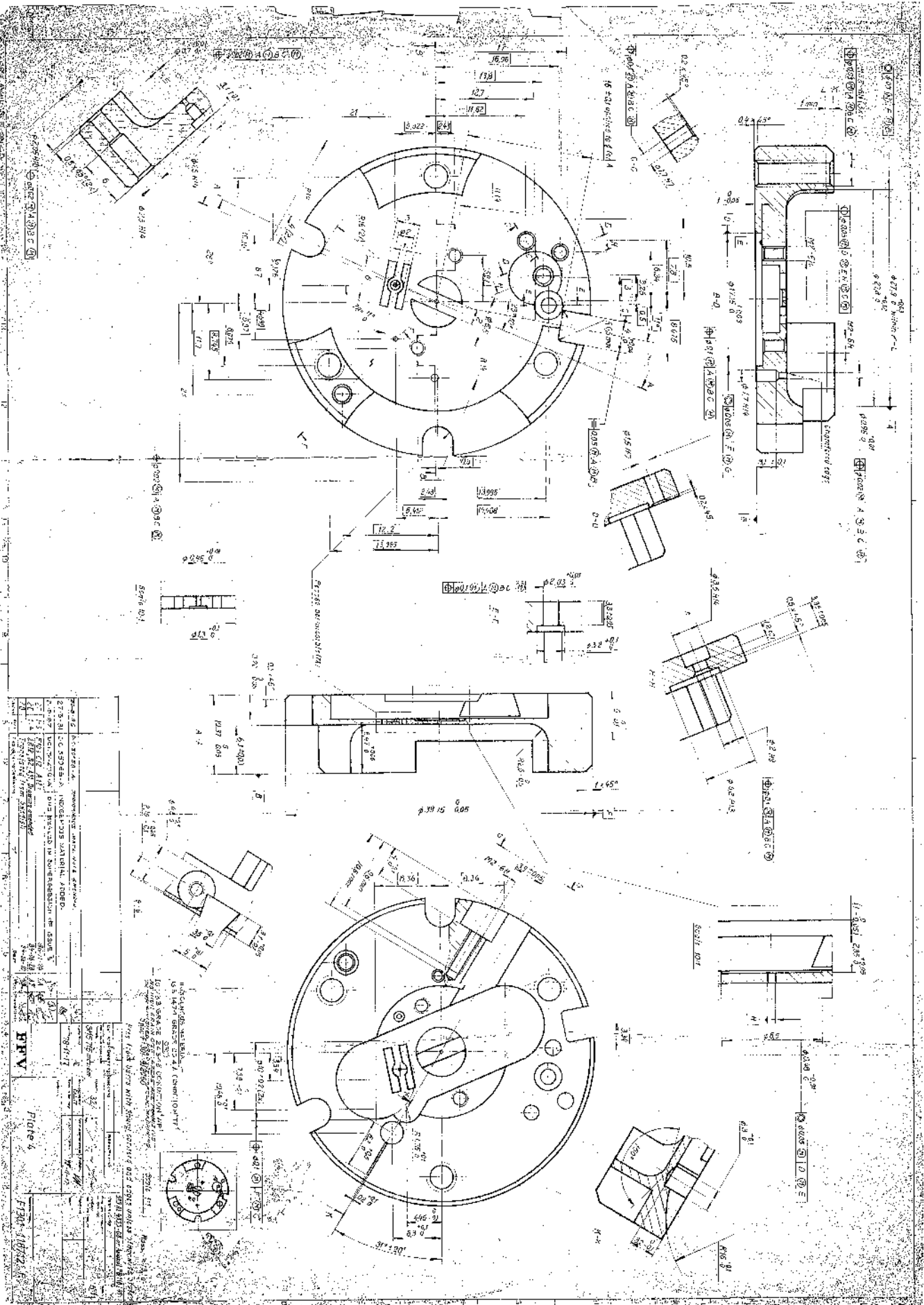
1-18827

1-18827

1-18827

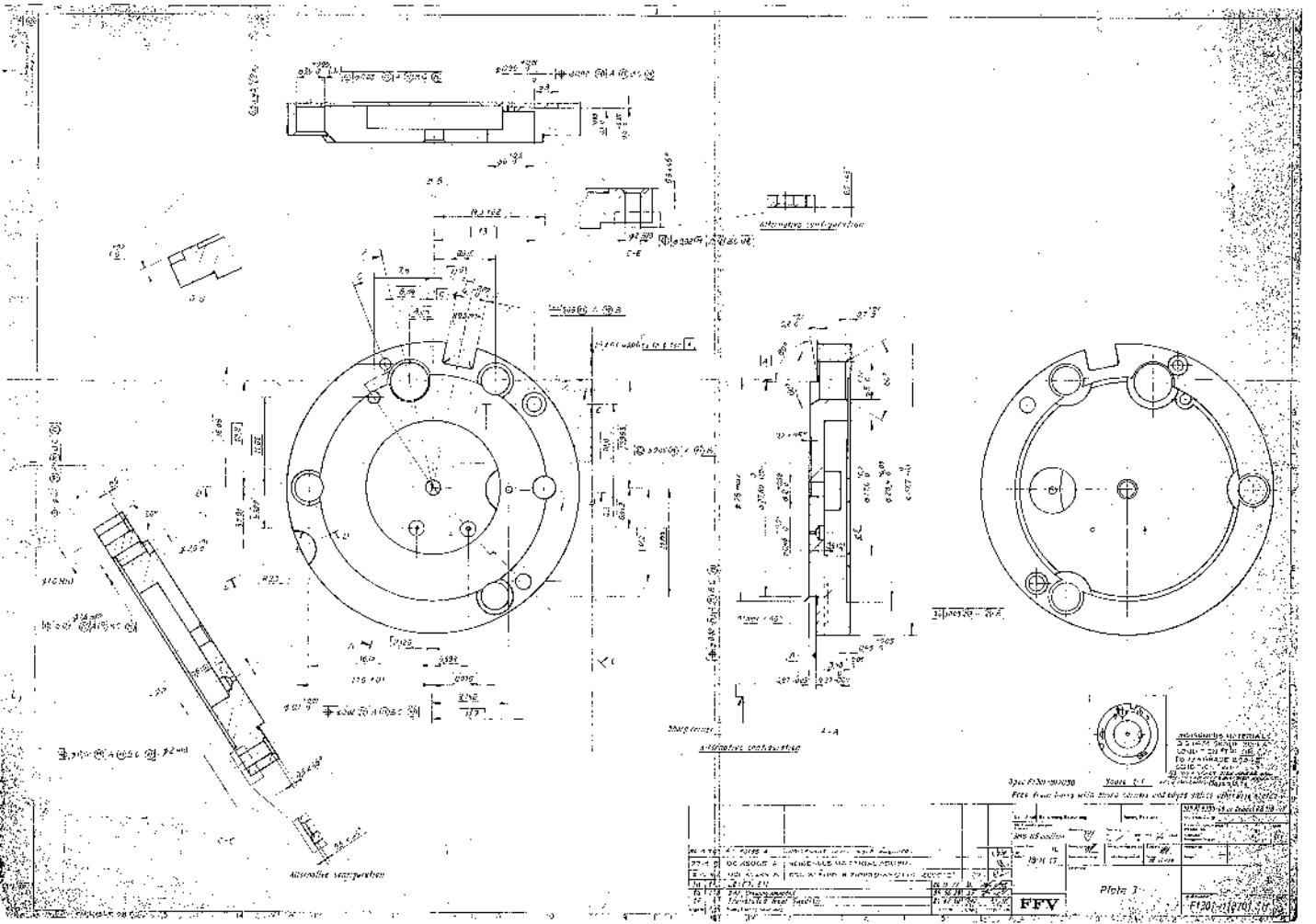
HAND

F1301-11827H



REV	DATE	BY	CHKD	DESCRIPTION
1				ISSUED FOR FABRICATION
2				REVISION
3				REVISION
4				REVISION
5				REVISION
6				REVISION
7				REVISION
8				REVISION
9				REVISION
10				REVISION
11				REVISION
12				REVISION
13				REVISION
14				REVISION
15				REVISION
16				REVISION
17				REVISION
18				REVISION
19				REVISION
20				REVISION
21				REVISION
22				REVISION
23				REVISION
24				REVISION
25				REVISION
26				REVISION
27				REVISION
28				REVISION
29				REVISION
30				REVISION
31				REVISION
32				REVISION
33				REVISION
34				REVISION
35				REVISION
36				REVISION
37				REVISION
38				REVISION
39				REVISION
40				REVISION
41				REVISION
42				REVISION
43				REVISION
44				REVISION
45				REVISION
46				REVISION
47				REVISION
48				REVISION
49				REVISION
50				REVISION
51				REVISION
52				REVISION
53				REVISION
54				REVISION
55				REVISION
56				REVISION
57				REVISION
58				REVISION
59				REVISION
60				REVISION
61				REVISION
62				REVISION
63				REVISION
64				REVISION
65				REVISION
66				REVISION
67				REVISION
68				REVISION
69				REVISION
70				REVISION
71				REVISION
72				REVISION
73				REVISION
74				REVISION
75				REVISION
76				REVISION
77				REVISION
78				REVISION
79				REVISION
80				REVISION
81				REVISION
82				REVISION
83				REVISION
84				REVISION
85				REVISION
86				REVISION
87				REVISION
88				REVISION
89				REVISION
90				REVISION
91				REVISION
92				REVISION
93				REVISION
94				REVISION
95				REVISION
96				REVISION
97				REVISION
98				REVISION
99				REVISION
100				REVISION

FIGURE 4
 FIGURE 5
 FIGURE 6
 FIGURE 7
 FIGURE 8
 FIGURE 9
 FIGURE 10
 FIGURE 11
 FIGURE 12
 FIGURE 13
 FIGURE 14
 FIGURE 15
 FIGURE 16
 FIGURE 17
 FIGURE 18
 FIGURE 19
 FIGURE 20
 FIGURE 21
 FIGURE 22
 FIGURE 23
 FIGURE 24
 FIGURE 25
 FIGURE 26
 FIGURE 27
 FIGURE 28
 FIGURE 29
 FIGURE 30
 FIGURE 31
 FIGURE 32
 FIGURE 33
 FIGURE 34
 FIGURE 35
 FIGURE 36
 FIGURE 37
 FIGURE 38
 FIGURE 39
 FIGURE 40
 FIGURE 41
 FIGURE 42
 FIGURE 43
 FIGURE 44
 FIGURE 45
 FIGURE 46
 FIGURE 47
 FIGURE 48
 FIGURE 49
 FIGURE 50
 FIGURE 51
 FIGURE 52
 FIGURE 53
 FIGURE 54
 FIGURE 55
 FIGURE 56
 FIGURE 57
 FIGURE 58
 FIGURE 59
 FIGURE 60
 FIGURE 61
 FIGURE 62
 FIGURE 63
 FIGURE 64
 FIGURE 65
 FIGURE 66
 FIGURE 67
 FIGURE 68
 FIGURE 69
 FIGURE 70
 FIGURE 71
 FIGURE 72
 FIGURE 73
 FIGURE 74
 FIGURE 75
 FIGURE 76
 FIGURE 77
 FIGURE 78
 FIGURE 79
 FIGURE 80
 FIGURE 81
 FIGURE 82
 FIGURE 83
 FIGURE 84
 FIGURE 85
 FIGURE 86
 FIGURE 87
 FIGURE 88
 FIGURE 89
 FIGURE 90
 FIGURE 91
 FIGURE 92
 FIGURE 93
 FIGURE 94
 FIGURE 95
 FIGURE 96
 FIGURE 97
 FIGURE 98
 FIGURE 99
 FIGURE 100



No.	Description	Quantity	Material	Notes
1	Hub	1	Aluminum	
2	Blade	3	Aluminum	
3	Washer	3	Aluminum	
4	Nut	3	Aluminum	
5	Pin	3	Aluminum	
6	Pin	3	Aluminum	
7	Pin	3	Aluminum	
8	Pin	3	Aluminum	
9	Pin	3	Aluminum	
10	Pin	3	Aluminum	
11	Pin	3	Aluminum	
12	Pin	3	Aluminum	
13	Pin	3	Aluminum	
14	Pin	3	Aluminum	
15	Pin	3	Aluminum	
16	Pin	3	Aluminum	
17	Pin	3	Aluminum	
18	Pin	3	Aluminum	
19	Pin	3	Aluminum	
20	Pin	3	Aluminum	
21	Pin	3	Aluminum	
22	Pin	3	Aluminum	
23	Pin	3	Aluminum	
24	Pin	3	Aluminum	
25	Pin	3	Aluminum	
26	Pin	3	Aluminum	
27	Pin	3	Aluminum	
28	Pin	3	Aluminum	
29	Pin	3	Aluminum	
30	Pin	3	Aluminum	
31	Pin	3	Aluminum	
32	Pin	3	Aluminum	
33	Pin	3	Aluminum	
34	Pin	3	Aluminum	
35	Pin	3	Aluminum	
36	Pin	3	Aluminum	
37	Pin	3	Aluminum	
38	Pin	3	Aluminum	
39	Pin	3	Aluminum	
40	Pin	3	Aluminum	
41	Pin	3	Aluminum	
42	Pin	3	Aluminum	
43	Pin	3	Aluminum	
44	Pin	3	Aluminum	
45	Pin	3	Aluminum	
46	Pin	3	Aluminum	
47	Pin	3	Aluminum	
48	Pin	3	Aluminum	
49	Pin	3	Aluminum	
50	Pin	3	Aluminum	

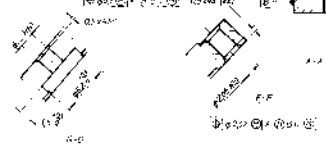
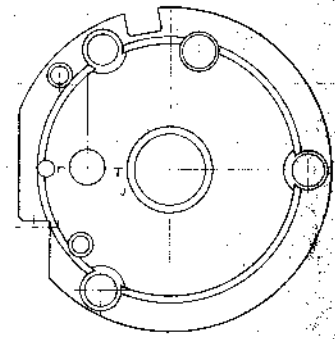
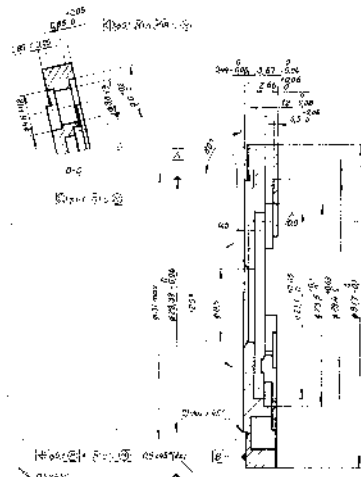
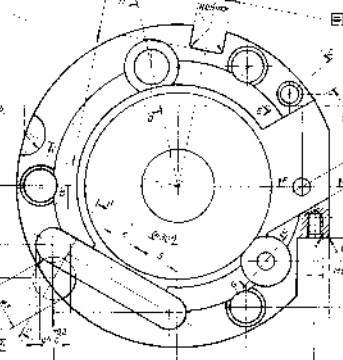
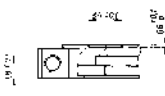
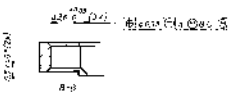
FFV

Plate 1

1120-11210-10

Approved by _____

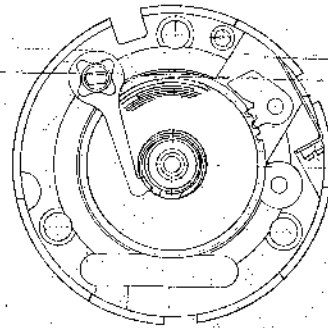
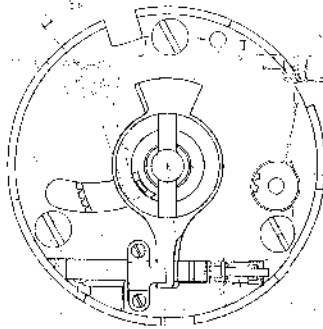
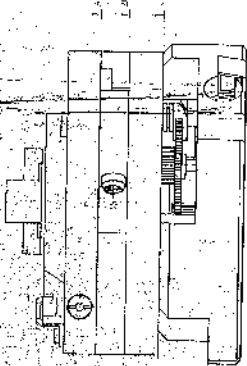
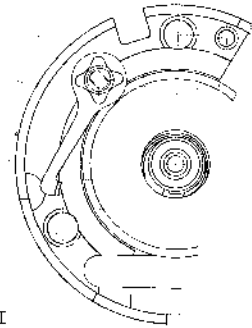
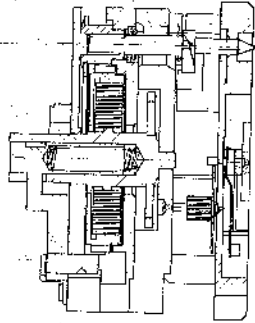
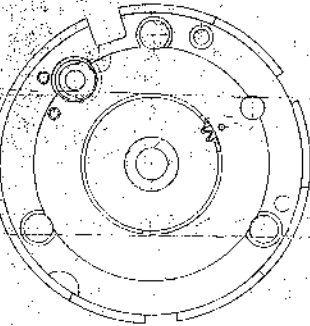
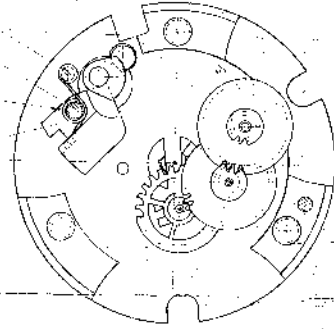
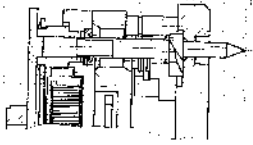
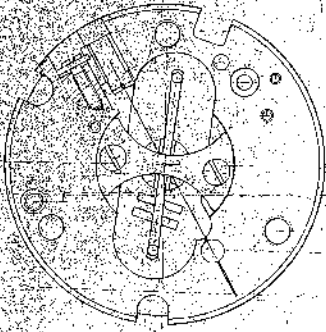
Drawn by _____



ASBESTOS REMOVAL
 100% ASBESTOS REMOVAL
 100% ASBESTOS REMOVAL
 100% ASBESTOS REMOVAL

Splice Fibers - remove
 from tank walls with sharp corner and steps within enclosure.

DATE	20-11-16	BY	...
DESCRIPTION	...		
REVISIONS	...		
APPROVED	...		
DRAWN	...		
CHECKED	...		
SCALE	...		
PLATE	Plate 7		



Part No.	Description	Material	Quantity
1000
1001
1002
1003
1004
1005
1006
1007
1008
1009
1010
1011
1012
1013
1014
1015
1016
1017
1018
1019
1020
1021
1022
1023
1024
1025
1026
1027
1028
1029
1030
1031
1032
1033
1034
1035
1036
1037
1038
1039
1040
1041
1042
1043
1044
1045
1046
1047
1048
1049
1050

REV. 10-15-67
BY: [Signature]
CHECKED BY: [Signature]
APPROVED BY: [Signature]

Aut. ophörande utv. tillstånd av denna
 plan 1 bekrävas enligt lag

D.C.I. 33179-A 33363-A		Utgåva	Andr	Plats på ritning/Beskrivning	Datum	Utförd	Gransk/Gösch
-	-	-	-	Translated from Swedish	79-10-09	IL	10/10
				DRG. SEALED PROVISIONALLY	D.C.I. 33179-A	19-6-81	
				DRG. SEALED	D.C.I. 33363-A	7-10-82	
				INDIGENOUS MATERIALS ADDED	D.C. 35041-A	5-3-91	72

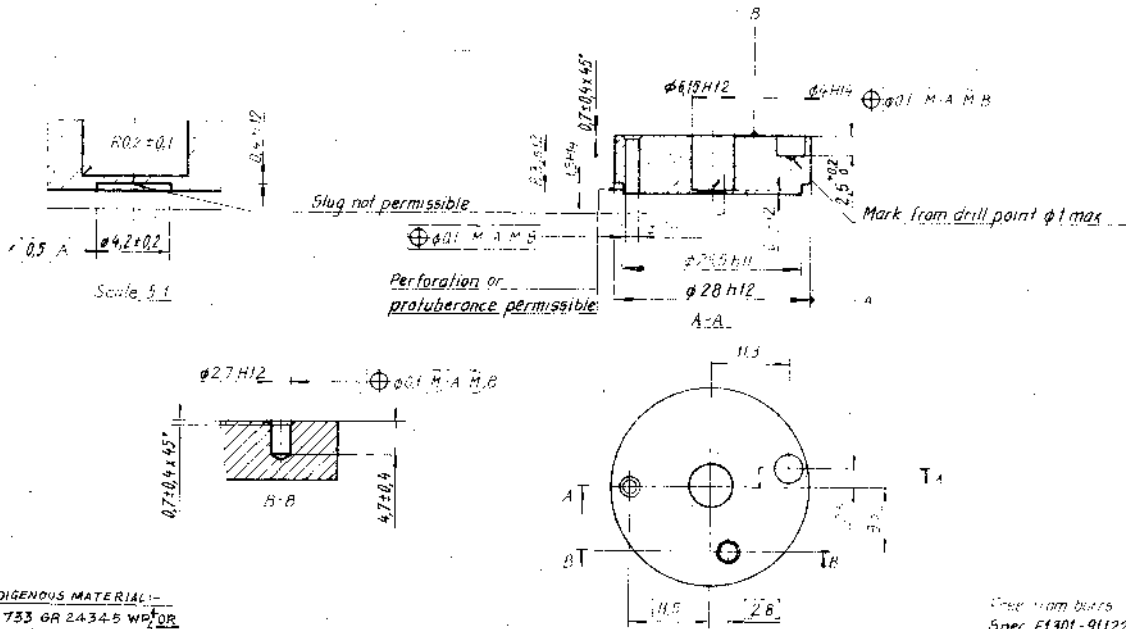
INDIGENOUS MATERIALS:
 PAPER WRITING PARCH-
 MENT 100±5g/m² TO
 SPECN. DEF 89 OR PAPER
 WHITE FINE 84-92g/m² TO
 SPECN. JSS 1221.

31



				Postcard board, glazed 100 g/m ²	
Det	Antal	Benämning, Beteckning	Ritning/Referens	Material Övrigt	
Där antal anges gäller totala		Stämplat	Laradning	Form och höjdsgränser en. SMS 1920	Skala
			År	Mån	10:e
			År	Mån	10:e
			År	Mån	10:e
			År	Mån	10:e
Konstr. Ritat	LN	Ritningsgranskad	BP	Godkänd	AA/AE
Datum	78-01-02	Kontrollberörare	SS/LN	Produktionsgranskad	RW/LN
		Benämning		Registrerad	Datum
		Cardboard Disc			
FFV				Ritningsnummer	F1301-117560B

116090
Ingr. 1/2



INDIGENOUS MATERIAL -
 IS 733 GR 24345 WP¹ OR
 BS 1474 GR 2014 A TF
 + NO HIGH GRAIN SIZE AREAS ARE
 PERMITTED IN THE FINISHED
 PRODUCT AFTER MACHINING.

515 Al 4355-08 or equal

30-8-96	36186-A	IND. MAT. NOTE AMENDED.		
5-3-91	DC 35041-A	INDIGENOUS MATERIAL ADDED.		
12-4-88	DC1 34365-A	DRG SEALED IN SUPERSESION OF ISSUE 'B'		
76	1-3	E7, E4, C6, C3; Drawing amended	87-09-03	AF
10	1	E3	83-03-17	AF
1A	1	E7	82-03-18	AF
-	-	Translated from Swedish	79 10 10	IL

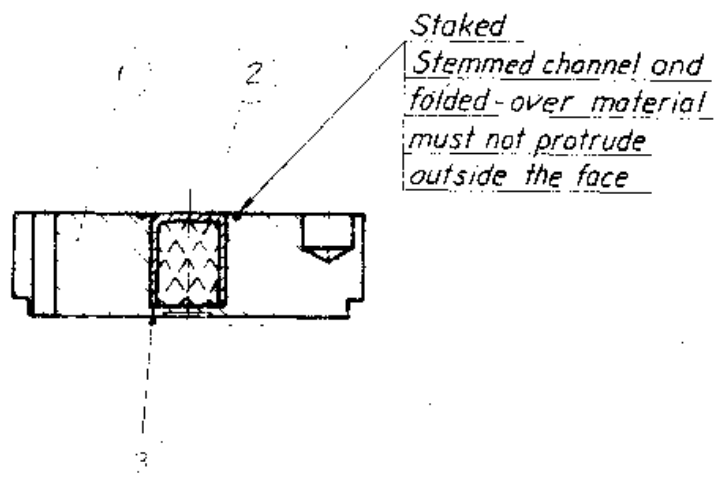
SMS 715 medium
 UN
 77 12 27
 0.3
 0.3
 73
 250 LN
 11 01 07

FFV Body F1301 116101 C

DCI
33513-A

Issue	And	Parts Parting Description	Date	By	Checked
-	-	Translated from Swedish	79-10-09	IL	NO/AG
C	1-2	B4, E2, Drawing amended	82-03-15	LF	AG
D	1	B4	82-12-06	AG	AG
DRG SEALED IN SUPERSESSOR OF ISSUE B			DCI 33513-A	3/1/83	

27



3	1	Cardboard disc	F1301-117560
2	1	Stemmed channel	F1321-443960
1	1	Body	F1301-116101

Part	Rev	Material	Quantity	Notes
UN	LN	37P	14/16	
77-12-27	SS/W	No/W	78-01-09	

21

Body, Assy

FFV

F1301-116090 D

1-126710
1-116070
1-112320

Allt obehörigt utnyttjas av denna handling beivras enligt lag.

Utgåva	Andr nr	Beskrivning	Datum	Utförd	Godk/ Godk
-	-	Translated from Swedish	79-10-09	IL	10/1/82
		DRG. SEALED PROVISIONALLY.	D.C.I. 33179-A	19.6.81	
		DRG. SEALED	D.C.I. 33363-A	7-10-82	

D.C.I. 33179-A
33363-A

INDIGENOUS MATERIALS:
PAPER WRITING PARCHMENT
100±5g/m² TO SPECN DEF-89
OR PAPER WHITE FINE 84-92g/m²
TO SPECN. JSS 1221.

Ø146⁰-0.5

2.01

INDIGENOUS MATERIALS REDED.

D.C. 35041-A

Def	Antal	Benämning/Beteckning	Ritning/Referens	Material/Ovngt
				Postcard board, glazed 100g/m ²

Där en annan anges gäller		Gredning		Mått		Skala	
Kejval/Beskr	Kop	År	eller	År	eller	År	År
BP LN	Prador	58/LN	Kontrgr	58/LN			2:1
Datum 77-02-02							

Disc

01-112420

Tillhör

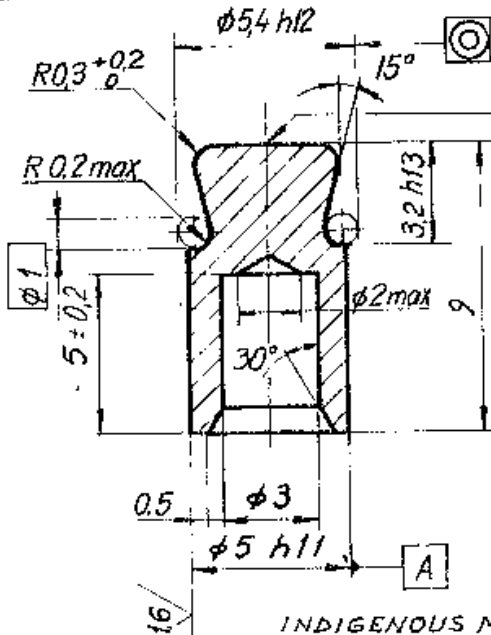
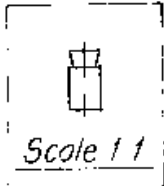
FORENADE FABRIKSVERKEN
HUVUDKONTORET ESKILSTUNA

F1301-112480 C

All drawings* should have an accompanying drawing sheet.

Utgåva	Ändr.	Beskrivning	Datum	Utförd	Granskad
-	-	Translated from Swedish	79-10-08	IL	MS/A2
B	1	E2	80-01-15	LA	Ph/A2
C	1	B3	80-04-03	Ph	Ph/A2
D	1	D3	82-02-23	Ph	Ph/A2
E	1	D1	84-06-15	AT	Ph/A2
F	1	D1	84-10-30	G.J.	Ph/A2

DATE	AUTHORITY	REVISION	ZONE	AHSP	DCO
12-7-86	D.C.I 33970-A	DRG. SEALED IN SUPERSESSION OF 15-UE-D			
DRG. SEALED: - 12-7-86					



Parting slug not permissible. Mark from drill point $\phi 2.5 \text{ max}$ permissible.

INDIGENOUS MATERIALS:-
 BS 970 Pt. 1: 302 S 31 OR
 BS 1554 - 302 S 31 OR 303 S 31.

Free from burrs
 Spec F1301-911190
 Mass: 0,9 g

INDIGENOUS MATL ADDED	REVISION
D.C.I 35041-A <td>DATE AUTHORITY </td>	DATE AUTHORITY
5-3-91	

5/5 steel 2346-02

SMS 715 medium
 6.3
 0.3
 0.3
 B1
 76-09-21 5G/LN 1A/LN

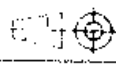
Safety Plunger

FORENADE FABRIKSVERKEN
 AMMUNITIONSGRUPPEN

F1301-112301 F

01-119680
 01-112251

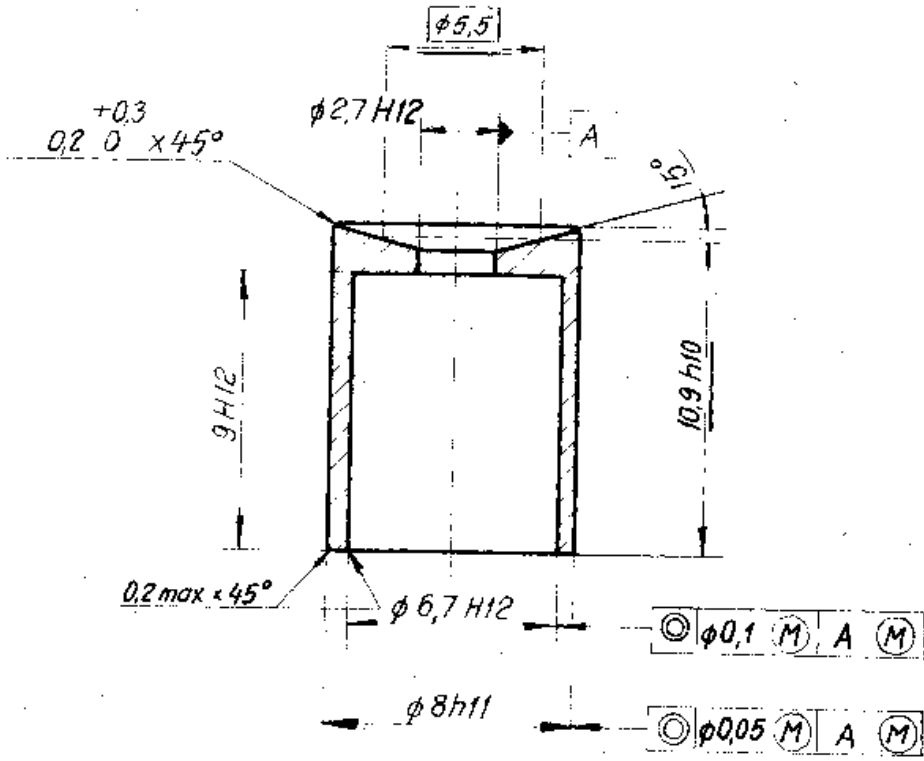
DRG. AVAILABLE ON CD



Av förändring utnyttjande av denna
 för sig bekrävas enligt lag.

Utgåva	Andr nr	Plats på ritning/Beskrivning	Datum	Utförd	Gransk/Godk
-	-	Translated from Swedish	79-10-08	IL	K9/AS
2A	1	D2	80-03-12	PR	AS
2B	1-5	E2; 202; 03; 82	80-06-19	LA	AS
2C	1	E3; Drq amended	86-07-07	PR	AS

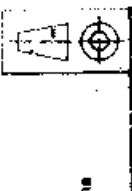
Scale 1:1



		INDIGENOUS MATERIALS -			
		BS 1474 GR 2014 A TF OR			
		IS 733 GR 2434E (WP)			
		NO HIGH GRAIN SIZE AREAS ARE			
		PERMITTED IN THE FINISHED			
		PRODUCT AFTER MACHINING.			
		Free from burrs			
		Mass ≈ 0,5g			
		Spec F1301-912640			
		SIS A1 4355-08 or equal			
Det	Ante	Benämning/Beteckning	Ritning/Referens	Material/Ovrigt	
Om ej annat anges gäller:					
Material		Stämning	Gränning	Form och Egenskaper	
SIS 715 medium		6,3	0,2	SS-1501101	
			0,2	Måttol	
				Måttol/Tang etc	
Konst. Ritad	Ritningsgr. skad	Konstruktionsgr. skad	Godkänd	Registrerad	Skala
BJ	SLN		Kjs.		5:1
Datum	Kontroll/bekräftad	Produktionsgr. skad	Datum	Datum	
76-09-21	SG/UN	I.A/UN	76-12-21		
Benämning			Ritningsnummer		
Spacer			F1301-112282 C		

01-112410
01-111451

FFV

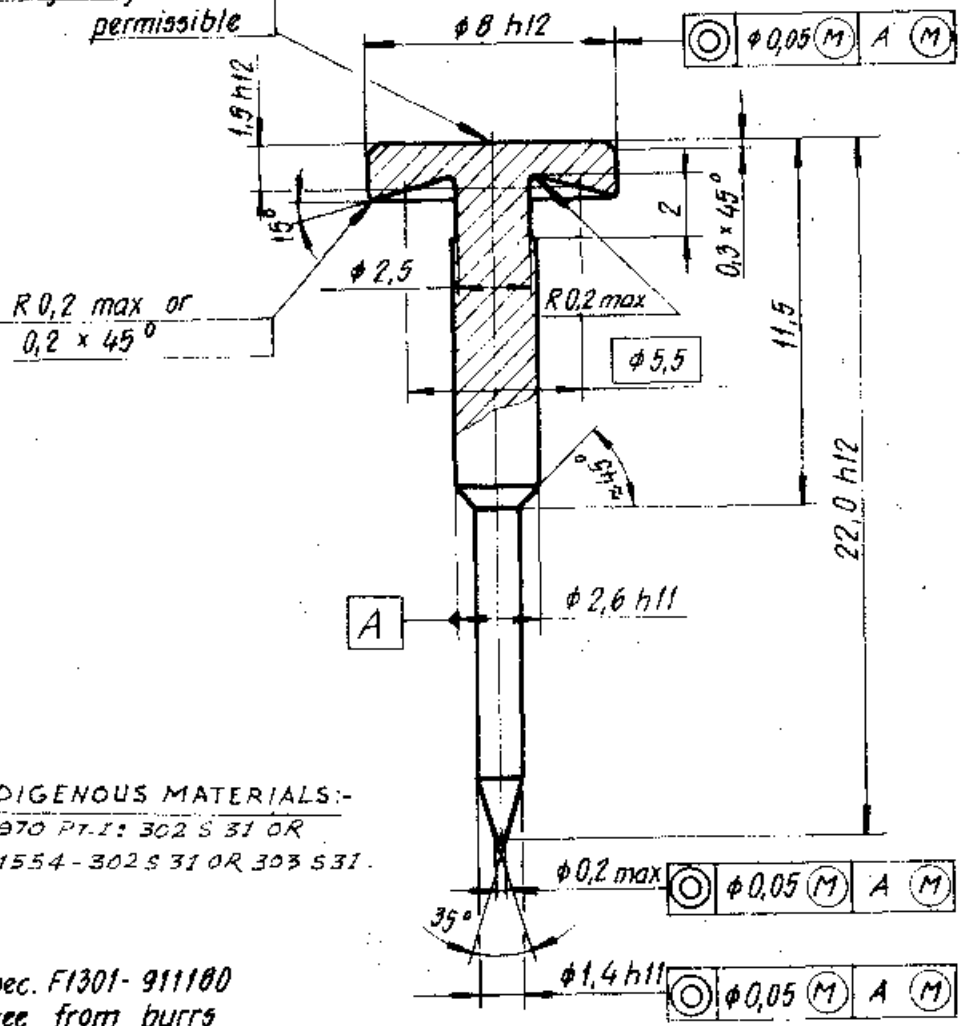


Utgåva	Andr nr	Plats på ritning/Beskrivning	Datum	Utbrd	Grens/Godk
G	1-2	Redrawn; C2, B4	01-09-20	LW	W
5-4-83	D.C. 33419-A	DRG SEALED IN SUPERSESSION OF ISSUE B			
5-3-91	D.C. 35041-A	INDIGENOUS MATE ADDED.			(B2)

Scale 1:1

Allt utnyttjande av denna handling beivras enligt 1:2.

Parting slug not permissible



INDIGENOUS MATERIALS:-
BS 970 Pt.1: 302 S 31 OR
BS 1554-302 S 31 OR 303 S 31.

Spec. F1301-911100
Free from burrs
Mass \approx 1g

515 Steel 2346-02

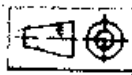
Det	Antal	Benämning/Beteckning	Ritning/Raterens	Material/Ovrigt
				515 Steel 2346-02
Där icke annat anges gäller Tolerans		Ytfinish	Gradering	Form- och tillverkningsmetod
5M6 715 medium		6.3	eller 45°	enl SABS 1920
Konstr/Mod	Registreringskod	Konstruktionsgränshad	Godkänd	Registrerad
B7	6LA		KJS	
Datum	Kontrollerbarhet	Produktionsgränshad	Datum	Datum
76-09-21			76-12-21	

01-117150
01-112251

FFV

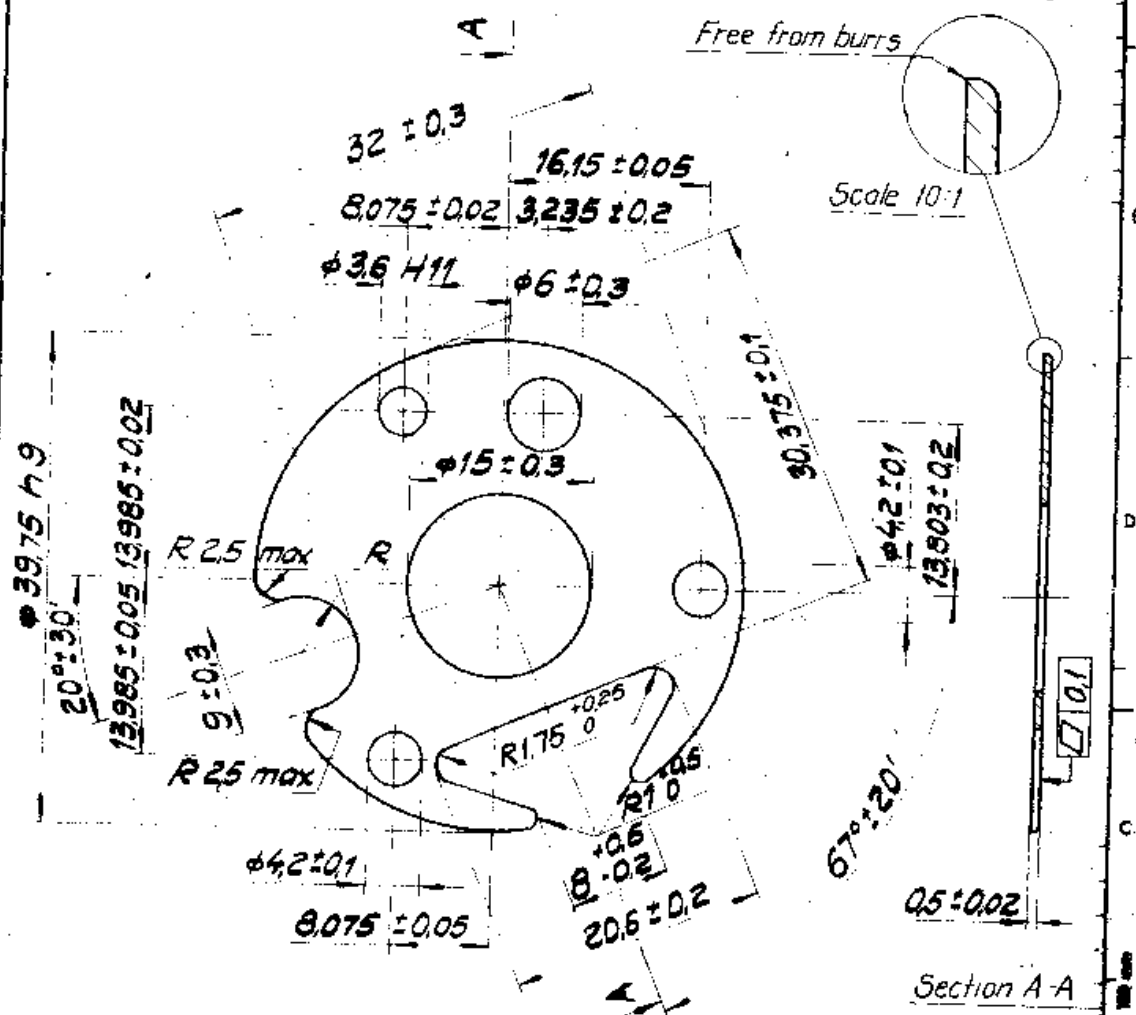
Firing Pin

F1301-112272 C



Allt obehörigt utnyttjande av denna handling beivras enligt lag.

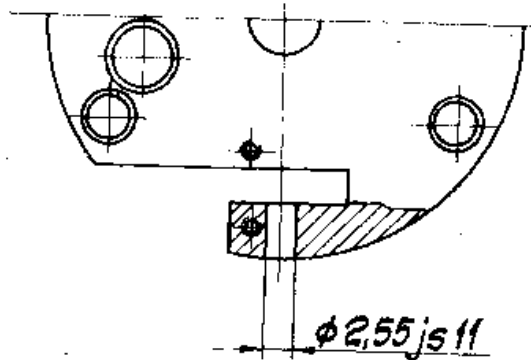
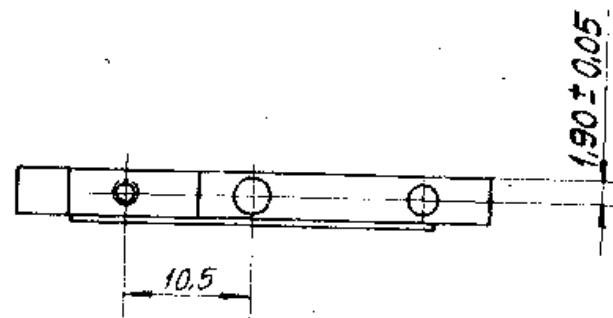
Utgåva	Ändr nr	Plats på ritning/Beskrivning	Datum	Utförd	Gransk/Godk
-	-	Translated from Swedish	79-10-08	IL	KF/AG



Del		Antal		Benämning/Besättning		Ritning/Referens		S/S Brass 5/50-04	
Dnr		Antal		Benämning/Besättning		Ritning/Referens		Material/Övrigt	
± IT 14/2		Tillstånd		Tillstånd		Tillstånd		Tillstånd	
Kontroll		/SN		5Ln		R.G		2:1	
Datum		71-06-11		71-06-14					
01-112400		01-078011		Support		FFV		F1301-079460 B	

Allt obehörigt utnyttjande av denna handling beivras enligt lag.

Utgåva	Andr	Best. nr.	Datum	Ufö. nr	Gransk/Godk
-	-	<i>Translated from Swedish</i>	78-10-19	IL	NO At



Det	Antal	Benämning/Beteckning	Plats/Referens	Blank to Avimat 029-504
				Material/Ovning

Där icke annat säges gäller tolerans SMS 715		Material	Gröpping	Ö	U	W	W	W	W
Konst. Namn	NA	Konst.	NA	NA	NA	NA	NA	NA	NA
Det.	7.6.71		8.6.71	8.6.71					

Top Plate

Tillhör
FÖRSVARETS FABRIKSVÄRK
HUVUDKONTORET ESKILSTUNA

F1301-072180 C

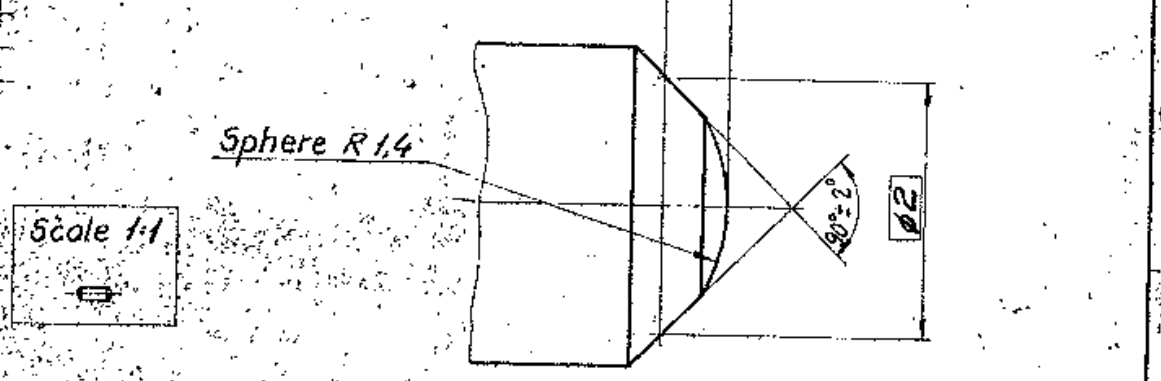
91-076990

DRG AVAILABLE ON CD

All technical drawings, specifications, etc. are to be handled in accordance with the instructions on the drawing.

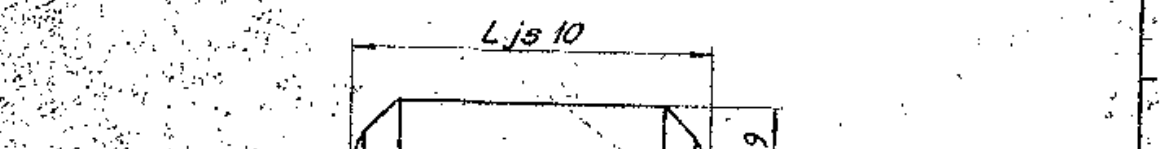
Utgåva	Ändr. nr.	Beskrivning	Datum	Utförd	Granskt/ Godk.
-	-	Translated from Swedish	78-10-19	IL	AF
E	1-5	3 B1, B3; C1	79-08-20	LA	AF
F	1-3	E1, B4, B3; Drawing amended	81-03-16	LA	AF
G	1-4	C1, C2, B1, B2	82-05-05	AF	AF
H	1-2	204	82-11-02	AF	AF

DRG. SEALED IN SUPERSESSION OF ISSUE 'G'



INDIGENOUS MATERIAL:-

B S 970 PT. I 302 S 31 OR
B S 1554 - 302 S 31 OR 303 S 31



L	Article number
5.0	F1301-135680
5.1	F1301-135690
5.2	F1301-097970
5.3	F1301-097980
5.4	F1301-079470
5.5	F1301-072050
5.6	F1301-079480
5.7	F1301-090510
5.8	F1301-090520

Mass = 0.18g

Not cutting burrs
To be burnished by tumbling,
surface roughness $\sqrt{1.25}$

516 Steel 2346 - 04 or equal

Del.	Antal	Benämning/Beskrivning	Ritning/Referans	Material/Ovrigt
01	1	646 715 medium	A	

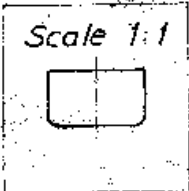
Trigger Detent Pin

FÖRENADE FABRIKVERKEN
HUVUDKONTORET, BSKILSTUNA
F1301-072050H

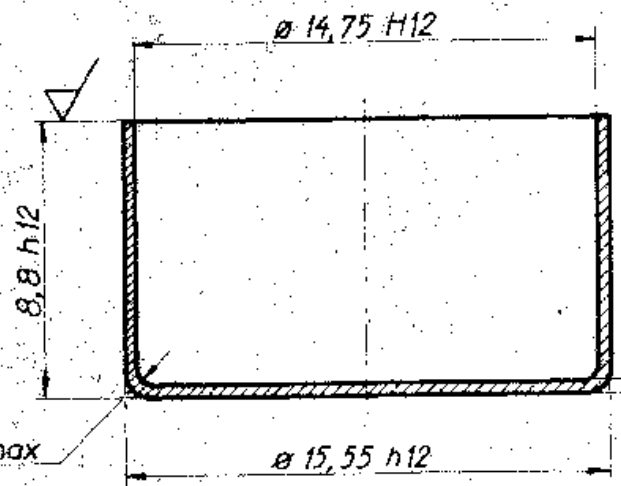
DRG. AVAILABLE ON CD

DCI
33513-A

Utgåva	Andr	Plats på ritning/Beskrivning	Datum	Utförd	Gransk/Godk
1A	1-4	Redrawn; E4; 2E3; D1	82-03-11	AF	<i>[Signature]</i>
		DCI BAG SEALED IN SUPER SECTION BY F1301-119900.B	DCI 33513-A	3-11-83	
		INDIGENOUS MATL ADDED.	DCI 35041-A	5-3-91	<i>[Signature]</i>



Allt oberoende av denna handling skall enligt lag



INDIGENOUS MATERIALS:-
BS 1470 GDE 1200 (o) OR
IS 737-1900 (o)

Free from burrs

Basic material: SIS Al 4010-02

Del	Antal	Beskrivning/Beteckning	Ritning/Referens	Material/Övrigt
DCI nr enligt anläggning		Typnamn	Gröppning H eller -45 Epp	Form- och tillverkningsår enligt SRS 1920
Skick/År	RD/LA	Produktionsår	BP	KJS
Datum	79-04-23	Produktionsgrupp		79-05-09
		Beteckning	CUP	
				F1301-119901 A

FFV

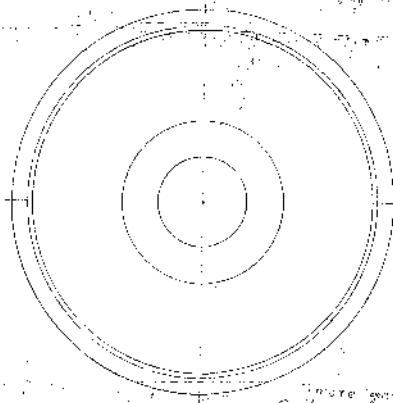
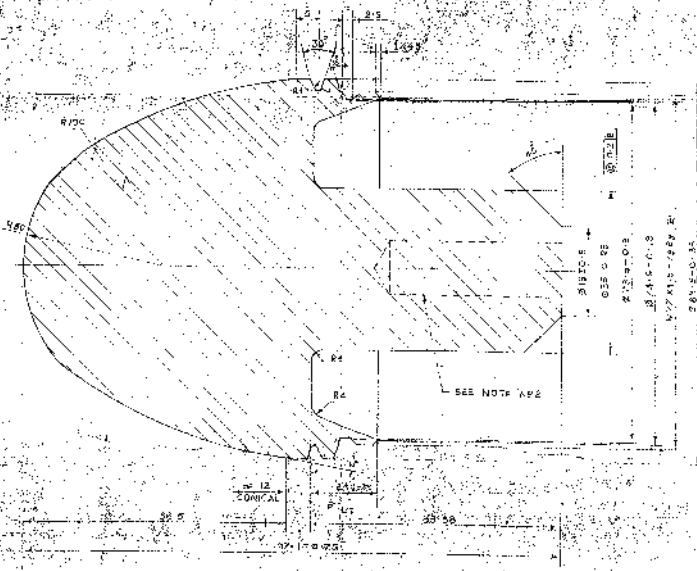
F1301-119901 A

DWG. CONVENTIONS CONFORM TO S-1-986
DIMENSIONS ARE IN MM.

NOTES:

- 1- ALL SHARP EDGES & CORNERS TO BE ROUNDED.
- 2- TO GET THE REQUIRED MASS A DRILL HOLE OF 12-0 DIA. COULD BE DRILLED IF NECESSARY AS SHOWN.

SURFACE FINISH: WV ALL OVER.



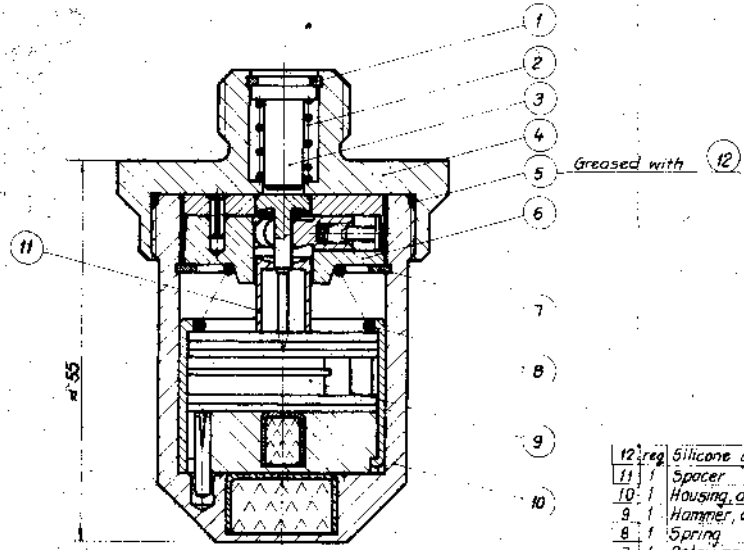
MATERIAL

ALUMINUM ALLOY 15% Si (7050)
AS SHOWN IN 15 TP.

*Note: Material to be
conform to the
drawing.*

DATE		AUTHORITY		DRAWN BY		CHECKED BY		TITLE		PART NO.	
1942		C. J. KIRK		C. J. KIRK		C. J. KIRK		PLUG REPRESENTING FUZE FFV 447		C161800/2220	
REVISION				ZONE				CONDUCTIVE FINISH: 40, 2000'S			

PLUG REPRESENTING FUZE FFV 447



NOTE:-
FOR EMPTY ASSEMBLY SEE
DRAWING NO IQX 82 A

Mass ≈ 165 g

12	req	Silicone grease	F1329-010410	
11	1	Spacer	F1301-112282	
10	1	Housing, assy	F1301-112421	
9	1	Hammer, assy	F1301-112320	
8	1	Spring	F1301-112370	
7	1	Retaining ring Sg H 30	SMS 1582	Stainless steel
6	1	Centrifugal safety device	F1301-119680	
5	1	O-ring 35,1 x 1,6 - SMS 1587	SMS 1586	
4	1	Cap	F1301-112441	
3	1	Plunger	F1301-112452	
2	1	Spring	F1301-122921	
1	1	Retaining ring Sg H 10	SMS 1582	Stainless steel

21-9-87	DCI 34-235-A	DRG. BEALED IN SUPERSESION OF ISSUE 'K'		
22-8-87	IGN NO QA 11053	NOTE RE ASSEMBLY REF ADDED.		
DATE	AUTHORITY	NATURE	APPR	DO SIGN

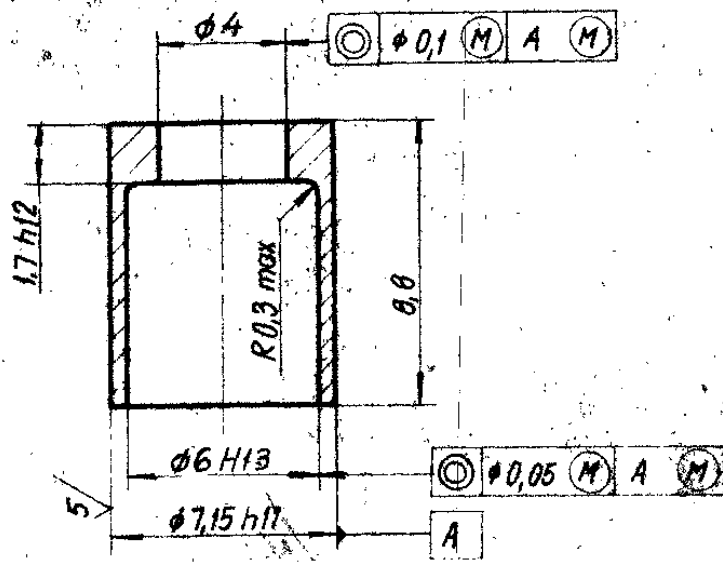
L		Drawing amended	07-03-19	II	
K	1-9	E4, C4, C2	01-03-80	LA	
Z	1	B4	30-10-81	LA	
H	1-8	C4, 2B4; Drawing amended	00-06-19	LA	
G	1	B2	00-04-22	IL	
		Transferred from Swedish	79-10-89	JL	

UN	BE	TH/UN	
77-02-02	SS/UN	TH/UN	
Safety and Impact Unit Time and Impact Fuze FFV FFV 447			
			F1301-112410 "L"

01-112410
01-112401
01-112400

Allt obehörigt utnyttas av denna handling. Förbehålls rättigheter förbehålls.

Utgåva	Ändr nr	Beskrivning	Datum	Utförda	Gransk/Check
-	-	Translated from Swedish	79-10-09	IL	HC/A
C	1-7	D3, 302; C2; C1; B2	80-02-07	LA	Phu
D	1-2	D3, B2	82-02-23	Phu	Phu
5-4-83	D.C. 334	DRG SEALED IN SUPERSESSION OF ISSUE C			
5-3-91	D.C. 35041-A	INDIGENOUS MATL ADDED.			
30-3-96	D.C. 36158-A	INDIGENOUS MATL NOTE AMENDED.			



INDIGENOUS MATERIALS:-
 IS 733 GR. 24345 WP OR
 BS 1474 GR. 2014 A TF
 * NO HIGH GRAIN SIZE AREAS ARE PERMITTED IN THE FINISHED PRODUCT AFTER MACHINING.

Mass = 0,4g

SIS A1 4355-08 or equal

Det	Antal	Benämning/Beteckning	Ritning Referens	Material/Ovrigt
Det		Tolerans	Ytbehandling	
		SM5715medium		
		UN		
		77-01-31		

Sleeve

01-112402

FORENADE FABRIKSVERKEN
 HUVUDKONTORET ESKILSTUNA
 F1301-112390 D

NOT AVAILABLE ONLINE

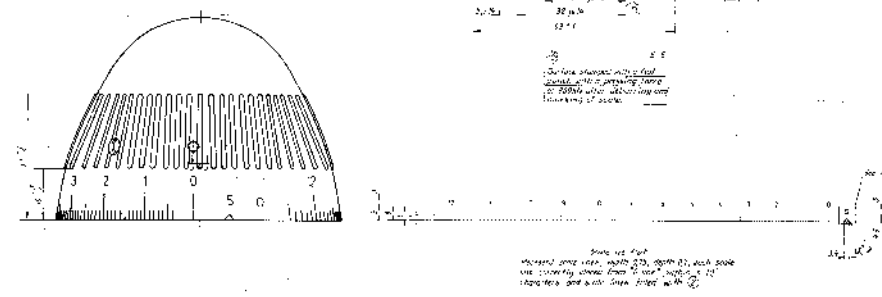
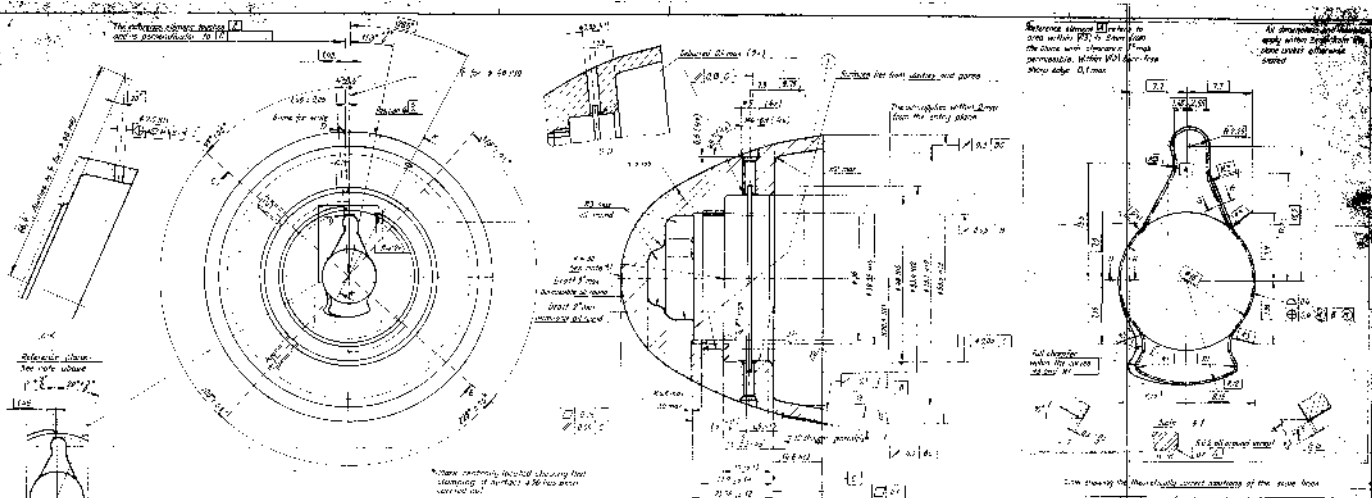


Table showing the theoretical count analysis of the dome floor.

Item	Unit	Quantity	Rate	Amount
1	sq. ft.	100	1.00	100.00
2	sq. ft.	200	2.00	400.00
3	sq. ft.	300	3.00	900.00
4	sq. ft.	400	4.00	1600.00
5	sq. ft.	500	5.00	2500.00
6	sq. ft.	600	6.00	3600.00
7	sq. ft.	700	7.00	4900.00
8	sq. ft.	800	8.00	6400.00
9	sq. ft.	900	9.00	8100.00
10	sq. ft.	1000	10.00	10000.00

Revision table and other administrative information.

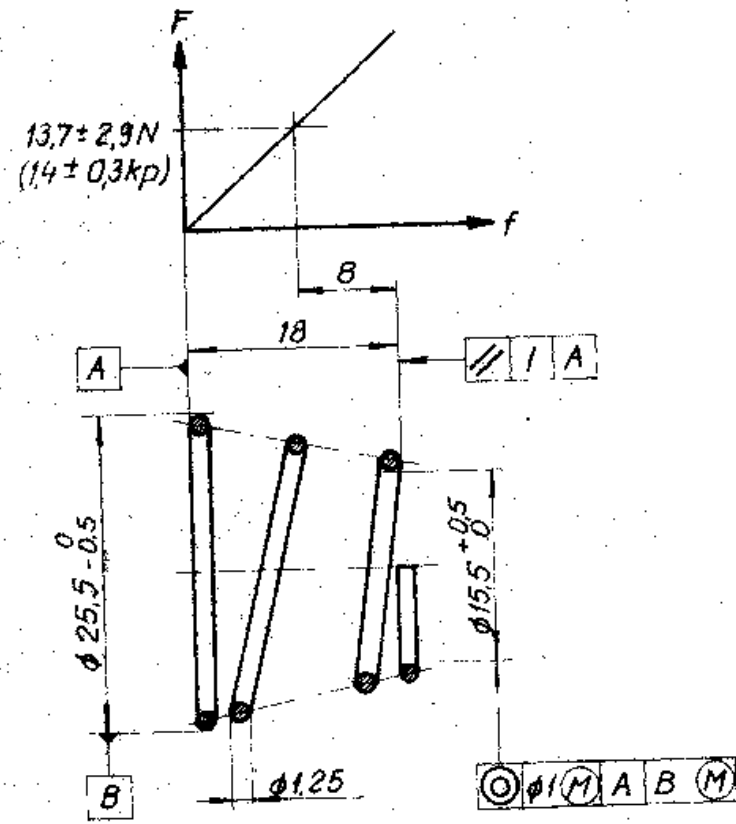
Rev.	Date	Description
1		
2		
3		
4		
5		

Other administrative information including project name, location, and contact details.

FFV Nose F1301-2230

Allt obehörigt utnyttigande av denna teckning beivras anlitnings.

Utgåva	Andr nr	Beskrivning	Datum	Utförd	Öronsk/Godk
-	-	Translated from Swedish DRG SEALED PROVISIONALLY	79-10-09	IL	NO / AG
		DRG SEALED	D.C.I. 33179-A	19-6-81	
		D.C.I. 33179-A 33363-A	D.C.I. 33363-A	7-10-82	
		INDIGENOUS MATERIAL ADDED	DC.35041-A	5-3-91	(2)



INDIGENOUS MATERIAL IS 4454 PT IV GR 1

Number of coils 3,25
Number of active coils 2
End coils squared

Spec F1301-911210
Mass ≈ 2 g

Det	Antal	Benämning/Beteckning	Ritning/Referens	Material/Övrigt
				515 steel 2331-06

Dr. av annat organ gäller	Typ	Gröddning	Ytbehandling
		S. 03 Kor. 03	
Är nr/År	Kop	Grän	Godk
UN	1	1A/UN	76-12-2
Datum			
76-09-22			

SF130-6443
01-112411
01-111451

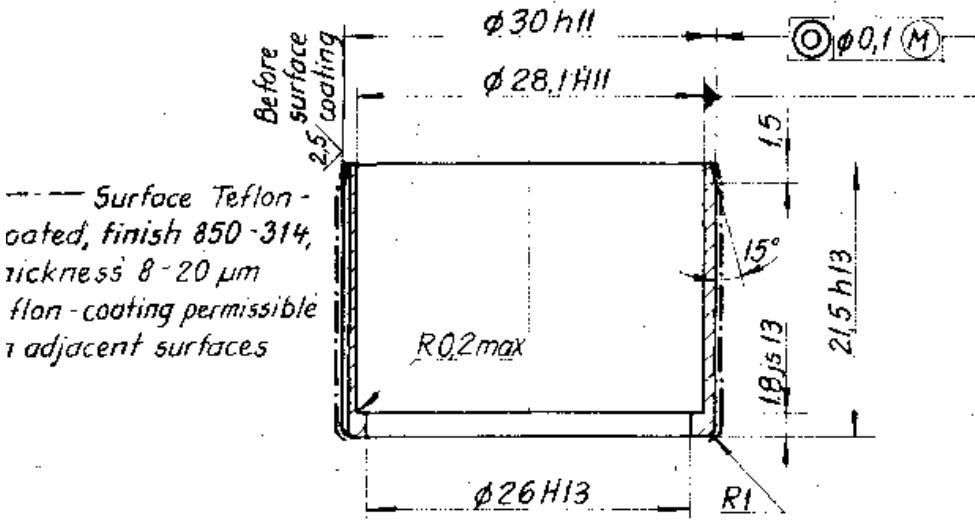
Spring

FORENADE FABRIKSVRKEN
HUVUDKONTORET ESKILSTUNA

F1301-112370 E

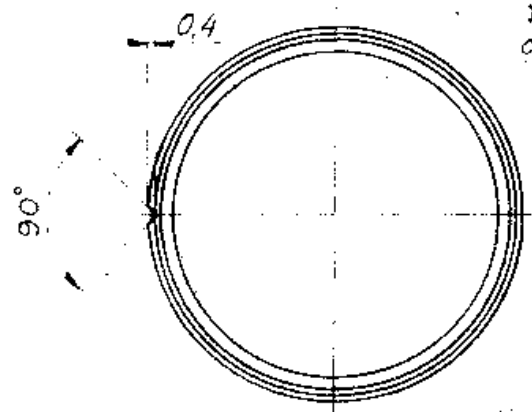
Andr nr	Beskrivning	Datum	Utförd	Granskt/Godk
	Translated from Swedish	79-10-09	IL	MT/A6
1-2	281	81-12-12	IL	MT/A6
A 1-3	Drawing amended, E4;3; E3; B2	81-04-07	Nlan	MT/A6
4-83	D.C. 33419-A DRG SEALED IN SUPERSESSION OF ISSUE F1301-112330 D			
3-91	D.C. 35041-A INDIGENOUS MATL. ADDED.			

24



--- Surface Teflon-coated, finish 850-314, thickness 8-20 μ m
flon-coating permissible on adjacent surfaces

INDIGENOUS MATERIALS:-
BS 3605 CFS 304 S 18 CAT2
OR BS 970: Pt. I: 302 531



Spec. F1301-911200
Mass ≈ 13.3 g
Hardness HV 220 max

55 steel 2333-02 alt 2346-02

Material / Övrigt	Referens	Övrigt
55 steel 2333-02 alt 2346-02		

Material / Övrigt	Referens	Övrigt
5715 medium	4	

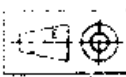
Material / Övrigt	Referens	Övrigt
LN	Prodgr	8 FN/LN
76-09-22	Kontgr	SS/LN
		78-01-09

Housing

FORENADE FABRIKSVRKEN
HUVUDKONTORET ESKILSTUNA

F1301-112331 A

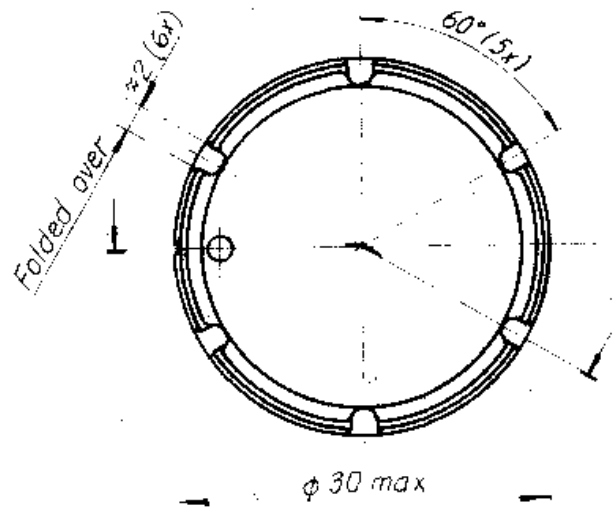
DRG. AVAILABLE ON CD.1



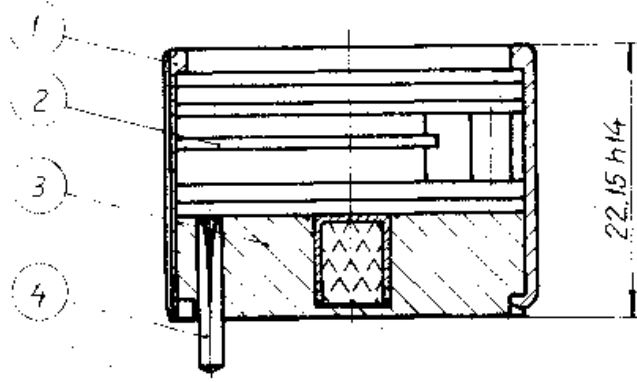
DCI
33513-A

Utgåve	Andr nr	Plats på ritning/Beskrivning	Datum	Utförd	Gransk/Book
-	-	Translated from Swedish	79-10-09	IL	HO/AB
F	1-2	2B4	81-04-07	H6m	HO/AB
G	1	B2	82-05-05	AF	HO/AB
H	1	B4	82-11-04	AT	HO/AB

Allt uttryck utnyttjande av denna handling beivras enligt lag.



23



Mass ≈ 51 g

3-71-83 DCI SEALED PROOFER - SECTION OF ISSUE G.

4	1	Grooved pin RPB 2 x 12	SMS 1331	Stainless steel
3	1	Body, assy	F1301-116090	
2	1	Detonator safety device	F1308-004602	Tavoro MS 469B
1	1	Housing	F1301-112331	
Det	Antal	Benämning/Beteckning	Ritning/Referens	Material/Ovrigt

Öst: annat anges gäller	Tillämpas	Öredning	1/2000	Öst: annat anges gäller	Skala
Tolerans		R	0.45	Måttolerans enligt SMS 1920	2:1
		F		Måttolerans enligt SMS 1920	
				Känslighet vid Tang etc	

Kontrollritad	U.N.	Ritningsgranskad	SL	Konstruktionsgranskad	BP	Godkänd	KJS	Regrerat	
Datum	76-09-22	Kontrollgranskad	TA/JUN	Produktionsgranskad	TH/JUN	Datum	76-12-21	Datum	

Benämning		Hammer, Assy	
Principnummer		F1301-112320 H	

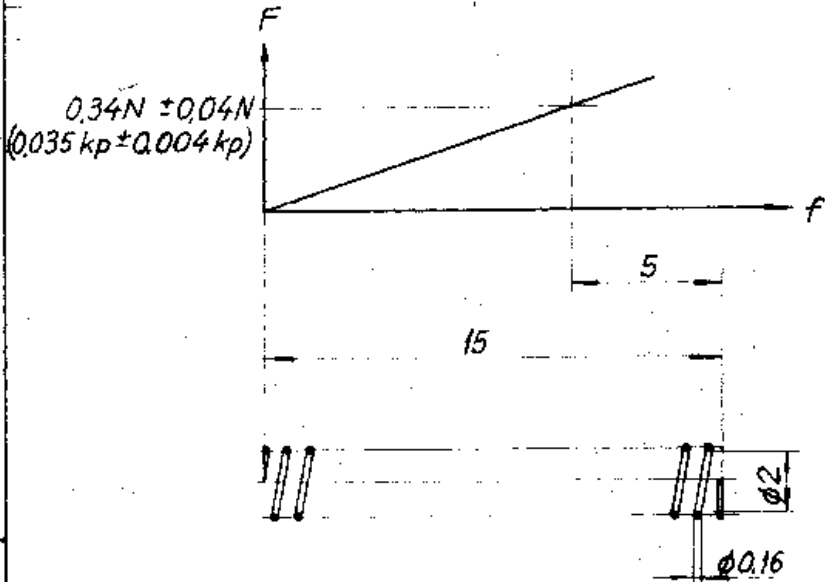
01-1-10
01-11-52

FFV

D. 75373 A

Allt obehörigt utrymmande av denna handling beivras enligt lag.

Utgåva	Andr nr	Beskrivning	Datum	Utförd	Gransk/Godk
-	-	Translated from Swedish	79-10-09	IL	KO / AB
C	1	B2	81-05-27	PH	PH / AB
D	1-2	202;	90-02-12	ML	IL / 11692
					(18)
9-4-91	D.C.35073-A	DRG. SEALED IN SUPERSESION OF ISSUE 'C'			
24-3-91	QA11053/IX	INDIGENOUS MATERIAL ADDED			PH
DATE	AUTHORITY	REVISION			AHSP DO



Scale 1:1

Number of active coils = 17 ± 1
Ends squared

Spec. F1301-913560

Mass ≈ 0.03 g

INDIGENOUS MATERIAL
TS 4454 PE IV G-I

SIS steel 2331-06

Det. Antal	Beskrivning/Beteckning	Ritning/Referens	Material/Ovrigt
			SIS steel 2331-06

Gradering	Gradering	Gradering	Gradering	Gradering	Gradering
UN	1	1A/UN	1	1	1
Date: 76-09-21					

Spring

DI-119680

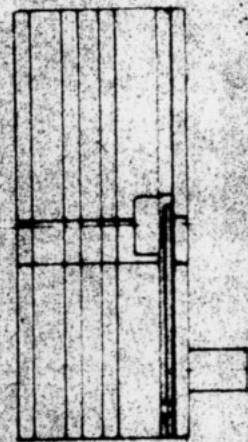
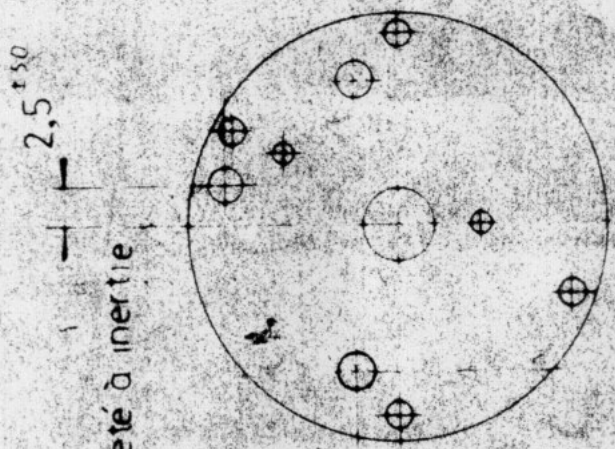
Tillhör	FORENADE FABRIKSVRKEN HUVUDKONTORET ESKILSTUNA	F1301-112310 D
---------	---	----------------

D.C.I. 33179-A
33363-A

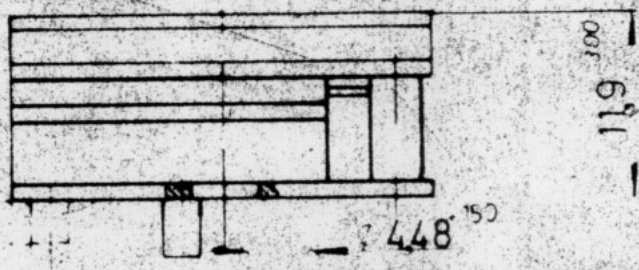
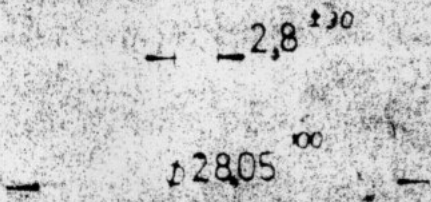
19-6-81 33179-A DRG. SEALED PROVISIONALLY.
7-10-82 D.C.I. 33363-A DRG. SEALED

26

11.3



Dégagement pour la sûreté à inertie



F1308-004280 A

Sans bavure

COE CLASSÉMENT

20.Y.39

Tavaro sa
Geneve

DESIGNATION						NO. OF DESSIN					
ENCOMBREMENT MS 469						554940-2					
TOLERANCES GÉNÉRALES						DÉCENTRAGE					
EN						PONDUS BRUT					
DESSINÉ LE						PONDUS NET					
PAR						REPLACE					
10.02.78						COPIE					
E.CHELLE											
2:1											

Special Instruction for Proof Requirement

Mechanical Time and Impact Fuze FFV 447

1. Lot size-1036 Nos. (Including Proof & Re-proof samples)
2. Proof Schedule No. – F 1301-910540 (K) CQA-0910.
3. Type of proof – Empty filled proof.
4. No. of sample: - 36 Nos.
5. Type of proof

(a) Non - Arming - 10 Nos.

Acceptance Criteria

SS	CSS	ACC	REJ
10	10	0	1

(b) Arming – 13 Nos.

Acceptance Criteria

SS	CSS	ACC	REJ
13	13	0	3
13	26	3	4

(c) Time to Burst -13 Nos.

At 21°C Mean & S.D. to be recorded

Acceptance Criteria

SS	CSS	ACC	REJ
13	13	0	3
13	26	3	4

- (6) Defects - Ground Burst, Premature, Blind, High Time & Low Time.
- (7) After satisfactory performance at empty proof Lot will be undertaken for Filling.
- (8) Safety Test – 10 Nos as per Specification No. F.1301-913430 Para 6.2,
F.1301.910540C Para 3.6
Defect not permissible i.e Fuze to be sealed correctly.