



GLASS FOR INDUSTRY

GB GLASS LIGHTING LIMITED

**RIBBON BULBS
DRAWINGS AND SPECIFICATIONS**



RIBBON MACHINE BULBS IN S96 GLASS

ISSUED - 01.02.93

This brochure contains drawings and specifications for the range of lamp bulbs produced by the Ribbon Machine process at the Company's Factory at Harworth, Near Doncaster.

Basic details of each bulb are given on the individual type drawings, but in addition these are subject to the terms of the Company's Criteria Of Inspection, copies of which will be supplied on request. Data on Composition and Properties of S96 Soda Glass and L94 Lead Glass is included in this brochure.

The Company operates a Glass Advisory Service which is fully equipped to provide comprehensive information facilities and technical advisory assistance on all aspects of the choice and application of glass.

This range of lamp bulbs has been divided into two categories, which are summarised overleaf.

Lamp Bulbs 1 :- is comprised of bulbs which are currently in regular repeat production.

Lamp Bulbs 2 :- contains bulbs for which mould equipment is available but deliveries can normally only be offered against minimum order quantities of 500,000 pieces (or 250,000 pieces in the case of bulbs over 80mm in diameter). Additions or deletions to either series will be advised by the issue of updated lists and appropriate drawings. Details of lead time and anticipated availability for any particular type will be provided on request to :-

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Whilst all the information contained in this publication is accurate to the best knowledge of the Company, no liability can be accepted by the Company in respect of such information and no warranties or conditions are intended in respect of the products described.

RIBBON MACHINE BULBS IN S96 GLASS - STANDARD LAMP BULBS 1

ISSUED - 10.06.94

BULB TYPE DESCRIPTION	NOMINAL MAJOR DIMENSIONS			GB GLASS LIGHTING PRODUCT TYPE DESIGNATION CODE
	BULB DIAMETER	NECK DIAMETER	BULB LENGTH	
ELLIPTICAL	70.0	35.0	180.0	E070
ELLIPTICAL	75.0	42.0	190.0	E075A
ELLIPTICAL	75.0	41.0	194.5	E075B
ELLIPTICAL	90.0	50.0	235.0	E090A
HAMMER	60.0	33.0	126.5	H060
LENMON SHAPE	35.0	18.4	73.0	LS035
MUSHROOM	45.0	30.0	102.0	M045
MUSHROOM	50.0	30.0	108.0	M050
MUSHROOM	55.0	33.0	120.0	M055
MUSHROOM	60.0	33.0	127.0	M060
MUSHROOM	63.5	30.0	120.0	M063.5A
MUSHROOM	95.3	34.9	155.0	M095
MUSHROOM	125.0	40.0	212.0	M125D
OVAL	80.0	33.0	128.0	O080
OLIVE CANDLE	35.0	23.7	109.5	OC035B
PEAR SHAPED	60.3	28.6	127.0	PS060B
PEAR SHAPED	60.0	33.0	128.0	PS060D
PEAR SHAPED	65.0	35.0	135.0	PS065
PEAR SHAPED	68.0	37.0	143.0	PS068
PEAR SHAPED	70.0	37.0	143.0	PS070
PEAR SHAPED	80.0	39.0	178.0	PS080A
PEAR SHAPED	110.0	50.0	245.0	PS110
PEAR SHAPED	130.0	52.0	311.0	PS130A
ROUND	45.0	24.0	100.0	R045E
ROUND	95.0	37.0	168.0	R095
ROUND	120.0	40.0	225.0	R120
ROUND	127.0	40.0	230.0	R127
SEMI-TUBULAR	25.4	15.2	65.0	ST025.4
SEMI-TUBULAR	28.0	23.0	73.0	ST028
SEMI-TUBULAR	28.0	20.0	75.0	ST028E
SEMI-TUBULAR	28.0	23.0	73.0	ST028K
SEMI-TUBULAR	35.0	16.0	75.5	ST035
TUBULAR	17.0	17.0	63.0	T017
TWISTED CANDLE	35.0	24.2	111.0	TC035B
TWISTED CANDLE	47.0	28.0	151.0	TC047

RIBBON MACHINE BULBS IN S96 GLASS - NON-STANDARD LAMP BULBS 2

(page 1 of 2)

ISSUED - 10.06.94

BULB TYPE DESCRIPTION	NOMINAL MAJOR DIMENSIONS			GB GLASS LIGHTING PRODUCT TYPE DESIGNATION CODE
	BULB DIAMETER	NECK DIAMETER	BULB LENGTH	
DOOR KNOB	65.0	33.0	130.0	DK065
DOOR KNOB	75.0	39.0	151.5	DK075
ELIPTICAL	34.0	14.0	76.0	E034
ELIPTICAL	40.0	21.0	100.0	E040
ELIPTICAL	70.0	35.0	171.0	E070A
HAMMER	65.0	33.0	140.0	H065
FLAMBEAU	40.0	28.2	148.5	FB040
LEMON SHAPED	45.0	24.0	100.0	LS045A
MUSHROOM	65.0	33.0	134.0	M065
MUSHROOM	75.0	37.0	147.0	M075A
MUSHROOM	85.0	35.5	145.0	M085
MUSHROOM	95.3	34.9	170.0	M095A
OVAL	80.0	33.0	128.0	O080A
OLIVE CANDLE	20.5	16.6	78.0	OC020.5
OLIVE CANDLE	25.0	20.0	93.0	OC025A
OLIVE CANDLE	30.0	21.0	110.0	OC030
OLIVE CANDLE	35.0	24.0	115.0	OC035A
OLIVE CANDLE	38.0	24.0	130.0	OC038A
OLIVE CANDLE	45.0	28.0	155.0	OC045
PEAR SHAPED	38.0	19.0	76.0	PS038
PEAR SHAPED	39.2	20.0	75.0	PS040
PEAR SHAPED	50.0	30.0	96.0	PS050
PEAR SHAPED	55.0	31.0	110.0	PS055
PEAR SHAPED	55.0	32.0	111.0	PS055A
PEAR SHAPED	75.0	37.0	155.0	PS075
ROUND	40.0	24.0	83.0	R040
ROUND	40.0	18.0	78.0	R040D
ROUND	45.0	26.0	88.0	R045
ROUND	50.0	23.0	95.0	R050
ROUND	50.0	26.0	93.0	R050A
ROUND	60.0	27.2	105.0	R060
ROUND	68.0	30.0	120.0	R068
ROUND	79.4	30.1	130.2	R079
ROUND	88.0	39.3	203.0	R088
ROUND	100.0	35.0	172.0	R100A
ROUND	110.0	50.0	255.0	RI10



RIBBON MACHINE BULBS IN S96 GLASS - NON-STANDARD LAMP BULBS 2

(page 2 of 2)

ISSUED - 01.02.93

BULB TYPE DESCRIPTION	NOMINAL MAJOR DIMENSIONS			GB GLASS LIGHTING PRODUCT TYPE DESIGNATION CODE
	BULB DIAMETER	NECK DIAMETER	BULB LENGTH	
SEMI-TUBULAR	19.5	13.5	57.0	ST019.5
SEMI-TUBULAR	25.0	13.7	63.0	ST025E
SEMI-TUBULAR	25.5	22.0	70.0	ST025.5
SEMI-TUBULAR	28.0	20.0	76.0	ST028G
SEMI-TUBULAR	28.0	15.0	65.2	ST028H
SEMI-TUBULAR	28.0	18.5	73.0	ST028L
SEMI-TUBULAR	34.0	24.0	100.0	ST034
SEMI-TUBULAR	44.5	32.0	111.8	ST044.5
TUBULAR	17.5	17.5	70.5	T017.5
TUBULAR	20.3	20.3	88.0	T020.5
TUBULAR	23.2	23.2	100.7	T023A
TUBULAR	25.0	22.0	100.0	T025
TUBULAR	25.0	22.0	76.0	T025A
TUBULAR	26.0	26.0	107.0	T026
TUBULAR	28.5	28.5	115.0	T028.5
TUBULAR	30.0	30.0	134.8	T030
TUBULAR	38.0	38.0	120.0	T038
TUBULAR	38.0	38.0	138.0	T038B

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Soda Lime Glass Type S96
ISSUE DATE : 26th FEB 94
Description

S96 glass is a Soda-Lime-Silica composition in which the lime is Dolomitic. It is formed into bulbs (and similar items) on Ribbon Machines and into tubing by the Danner process. The glass forms satisfactory seals to our standard lead glass (L94) and to other glasses with suitable expansion characteristics.

Applications

The glass is used extensively for bulb blanks for incandescent lamps and tubes for fluorescent and SOX lamps. It is also used in blanks for vacuum flasks, as bulbs for Christmas tree ornaments and finds applications in glass fibre manufacture.

Availability

Machine made bulbs in a wide range of shapes and sizes. Tubing in standard 25mm, 38mm, 50mm, and 65mm, also as "mints" for glass fibre manufacture.

Typical Physical Properties And Chemical Analysis Are Given Below.

Physical Properties		Chemical Composition		Transmission Characteristics	
				Glass Thickness	
				0.8mm	1.0mm
Coefficient of Expansion					
50 - 300 deg C	93.9*10 ⁻⁷	SiO ₂	71.3	U V Cut Off	280 nm
50 - 400 deg C	97.2*10 ⁻⁷	Al ₂ O ₃	1.7	302 nm	8.0 % 4.4 %
Specific Gravity	2.48	CaO	5.8	400 nm	91.5 % 91.4 %
Strain Point	492 deg C	MgO	3.9	500 nm	91.8 % 91.7 %
Transformation Point	517 deg C	Na ₂ O	16.0	600 nm	91.5 % 91.4 %
Annealing Point	530 deg C	K ₂ O	0.8	700 nm	90.4 % 90.0 %
Mg Point	541 deg C	Fe ₂ O ₃	0.1	2.5 um (4000 cm ⁻¹)	89.4 % 88.7 %
Dilatometric Softening Point	552 deg C	SO ₃	0.2	2.857 um (3500 cm ⁻¹)	61.6 % 55.7 %
Littleton Softening Point	709 deg C				

Approved : *[Signature]* Date: 26.02.94

Approved : *[Signature]* Date: 26.02.94

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Lead Glass Type L94
ISSUE DATE 14 . 11 . 89
Description

L 94 is a mixed alkali-lead silicate composition in the category commonly described as '20% lead glass'. It is formed into tubing and rod by the Danner and Vello process. The glass forms a satisfactory seal to our soda-lime type glasses and to other glasses with suitable expansion characteristics. It has electrical properties appropriate to its application and is softer than soda-lime compositions to facilitate sealing.

Applications

The glass is mainly used in those components of incandescent and fluorescent lamp manufacture where a high electrical resistance glass is necessary. It is also used for miniature bulb production.

Availability

The glass is available as tubing with diameters between 2mm and 25mm. End finish may be 'as cut' or with a light, medium or heavy glaze as required. Rod is available in diameters between 2.25mm and 5mm. Miniature bulb blanks are also supplied.

Typical physical properties and chemical analysis are given below.

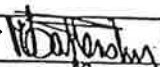
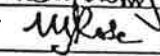
Physical Properties

Coefficient expansion:	
50 - 300°C	91.0×10^{-7}
50 - 400°C	93.0×10^{-7}
Specific Gravity:	2.83
Strain Point	424°C
Transformation Point	436°C
Annealing Point	440°C
Mg Point	466°C
Dilatometric Softening Point	476°C
Littleton Softening Point	644°C

Chemical Composition

SiO ₂	62.7
Al ₂ O ₃	1.7
PbO	20.8
Na ₂ O	6.5
K ₂ O	7.5
CeO ₂	0.3
Fe ₂ O ₃	0.08

Electrical properties

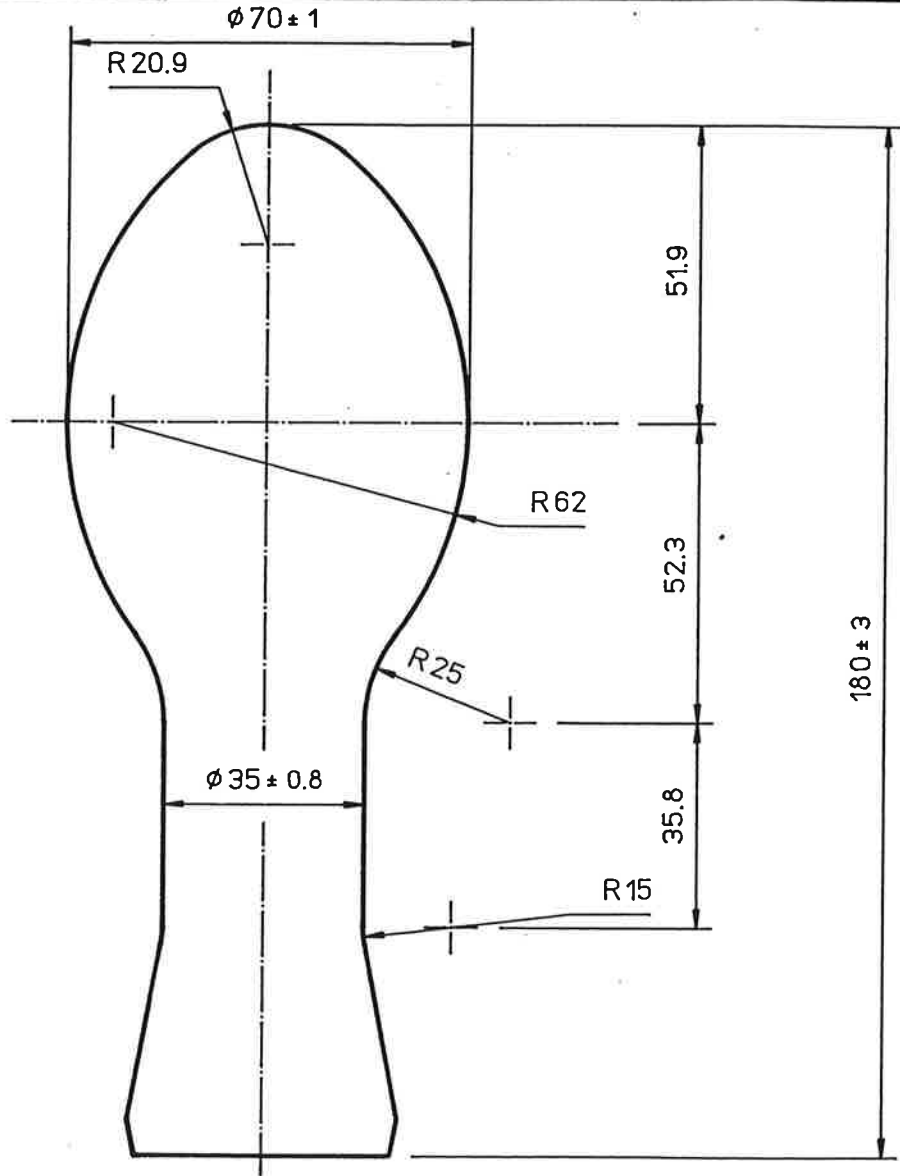
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RIBBON BULB TYPE

E070

ISSUE DATE 25-JAN-65



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 130 FROM BULB TOP)	.41	TO	.76
SIDE	(AT MAXIMUM DIAMETER)	.38	MIN	
TOP	(AT CENTRE TOP)	.51	TO	1.52
STEM	INSIDE DIAMETER	32.6	MIN	
FLARE	INSIDE DIAMETER	36.8	MIN	OUTSIDE DIAM. 50.9 MAX.

ALL DIMENSIONS ARE IN mm

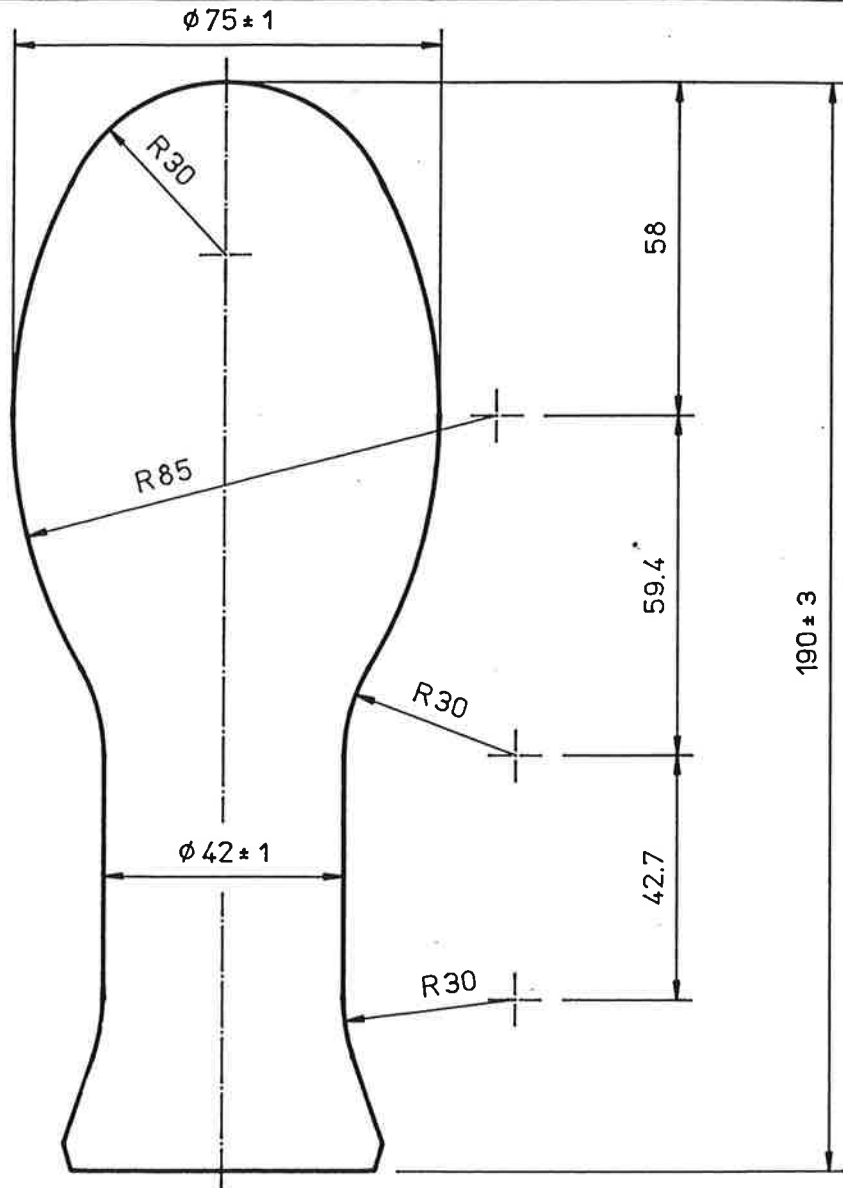
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RIBBON BULB TYPE

E075A

ISSUE DATE 2-MAY-73



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 150 FROM BULB TOP)	.48	TO	.83
SIDE	(AT MAXIMUM DIAMETER)	.38	MIN	
TOP	(AT CENTRE TOP)	1.0	TO	2.50
STEM	INSIDE DIAMETER	39.5	MIN	
FLARE	INSIDE DIAMETER	43.7	MIN	OUTSIDE DIAM. 57.7 MAX.

ALL DIMENSIONS ARE IN mm

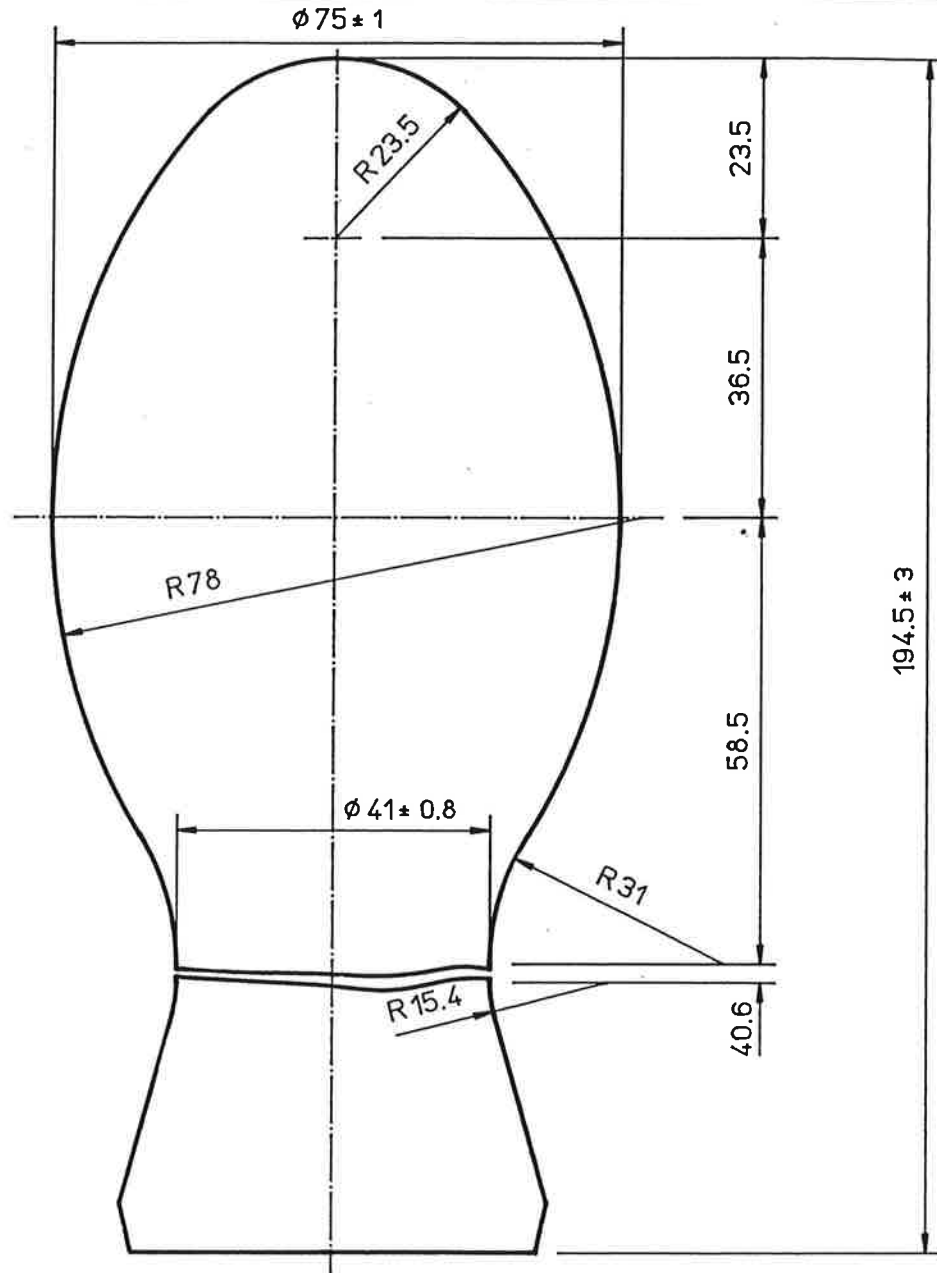
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RIBBON BULB TYPE

E075B

ISSUE DATE 7-MAR-75



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 137 FROM BULB TOP)	.50	TO	.88
SIDE	(AT MAXIMUM DIAMETER)	.38	min.	
TOP	(AT CENTRE TOP)	1.00	TO	2.50

STEM	INSIDE DIAMETER	37.0	MIN	
FLARE	INSIDE DIAMETER	43.7	MIN	OUTSIDE DIAM. 57.7 MAX.

ALL DIMENSIONS ARE IN mm

APPROVED BY	NO.	DATE	MODIFICATION	NO.	DATE	MODIFICATION
<i>[Signature]</i>	1	5-3-80	NECK MEASURING POSN TO 137		5-3-80	FLARE RAD WAS 15
<i>[Signature]</i>		5-3-80	STEM LENGTH WAS 46.05	2	16-1-81	DIMENSIONS REVIEWED

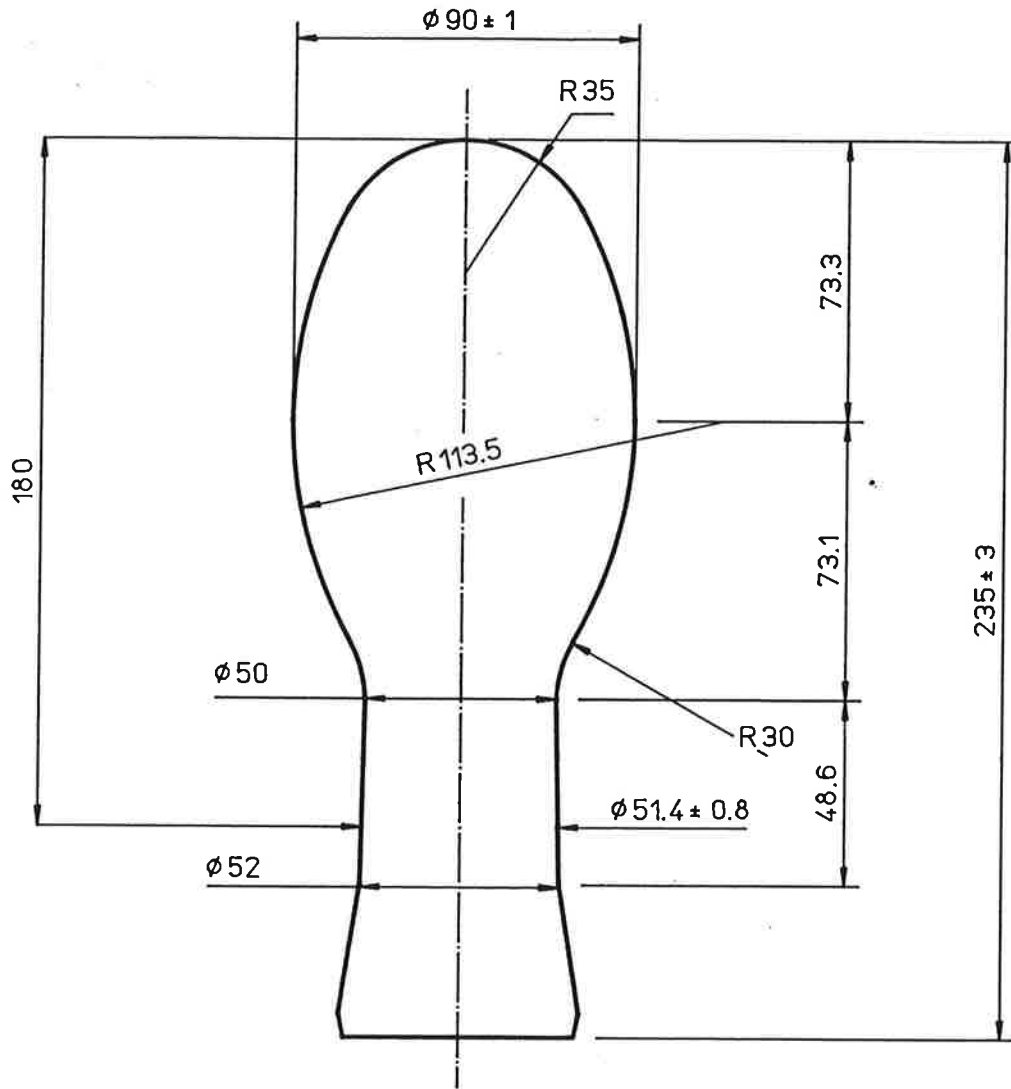
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RIBBON BULB TYPE

E090A

ISSUE DATE

28.1.71



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 180 FROM BULB TOP)	0.70 TO 1.20
SIDE	(AT MAXIMUM DIAMETER)	0.35 MIN
TOP	(AT CENTRE TOP)	0.50 TO 2.00

STEM	INSIDE DIAMETER	46.5 MIN	
FLARE	INSIDE DIAMETER	49.5 MIN	OUTSIDE DIAM 66.0 MAX

ALL DIMENSIONS ARE IN MM

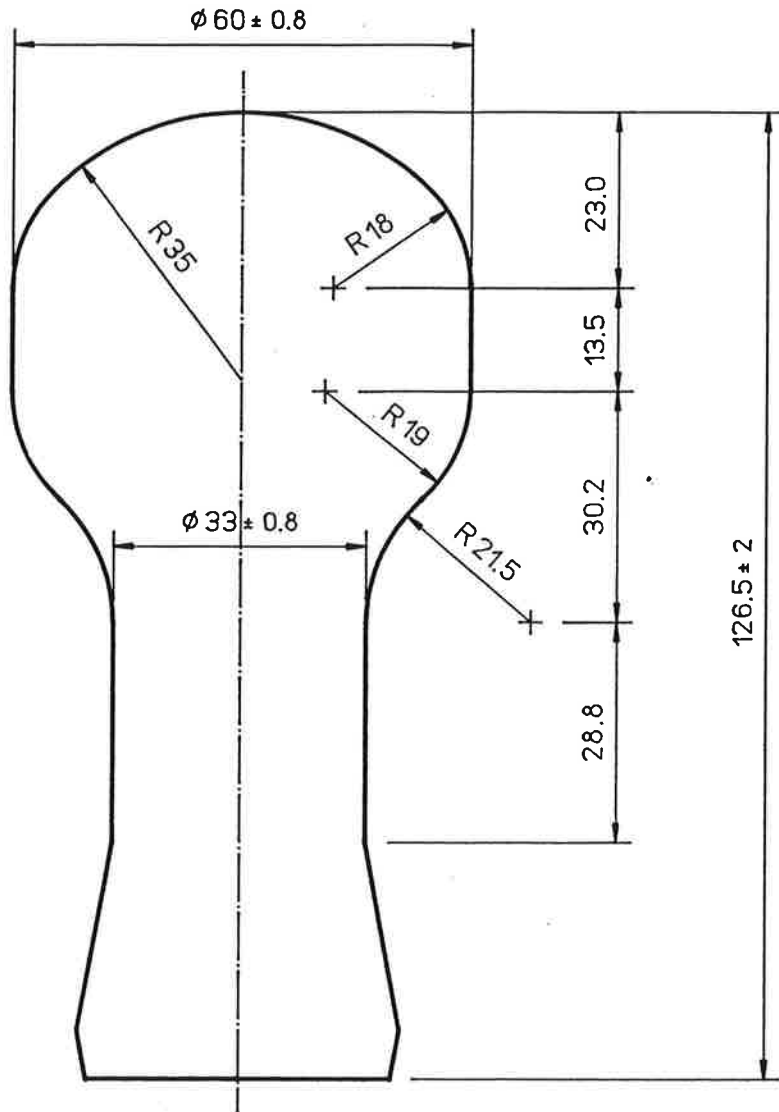
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APPROVED BY <i>[Signature]</i>	3	4-2-91	DIMENSIONS REVIEWED			

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RIBBON BULB TYPE

H060

ISSUE DATE 24-Nov-87



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 83 FROM BULB TOP)	0.38 TO 0.72
SIDE	(AT 29 FROM TOP OF BULB)	0.35 MIN
TOP	(AT CENTRE TOP)	0.45 TO 1.30

STEM	INSIDE DIAMETER	30.6 MIN
FLARE	INSIDE DIAMETER	32.1 MIN
	OUTSIDE DIAM.	43.3 MAX

ALL DIMENSIONS ARE IN mm

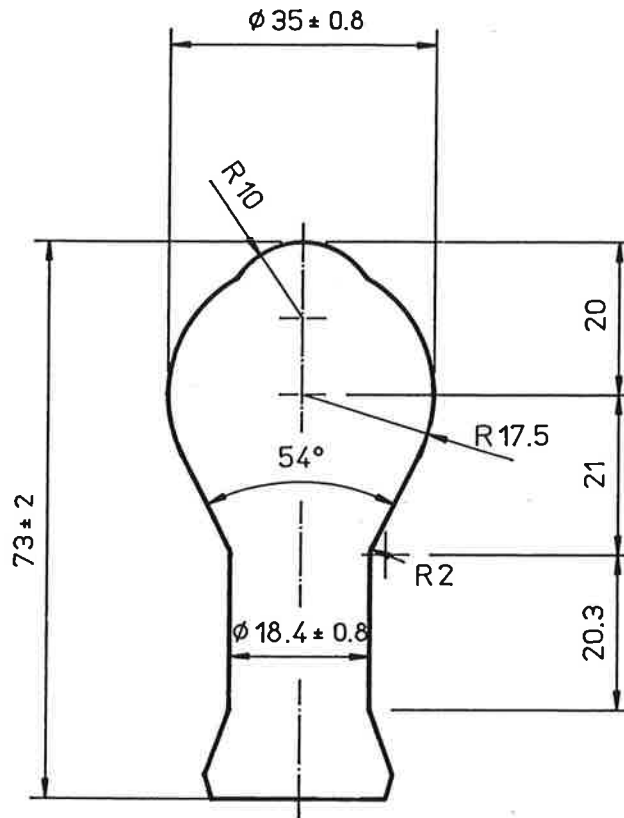
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RIBBON BULB TYPE

LS035

ISSUE DATE 20-OCT-64



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 50 FROM BULB TOP)	.45	TO	.80
SIDE	(AT MAXIMUM DIAMETER)	.30	MIN	
TOP	(AT CENTRE TOP)	.45	TO	1.27
STEM	INSIDE DIAMETER	15.6	MIN	
FLARE	INSIDE DIAMETER	15.4	MIN	OUTSIDE DIAM. 26.0 MAX.

ALL DIMENSIONS ARE IN mm

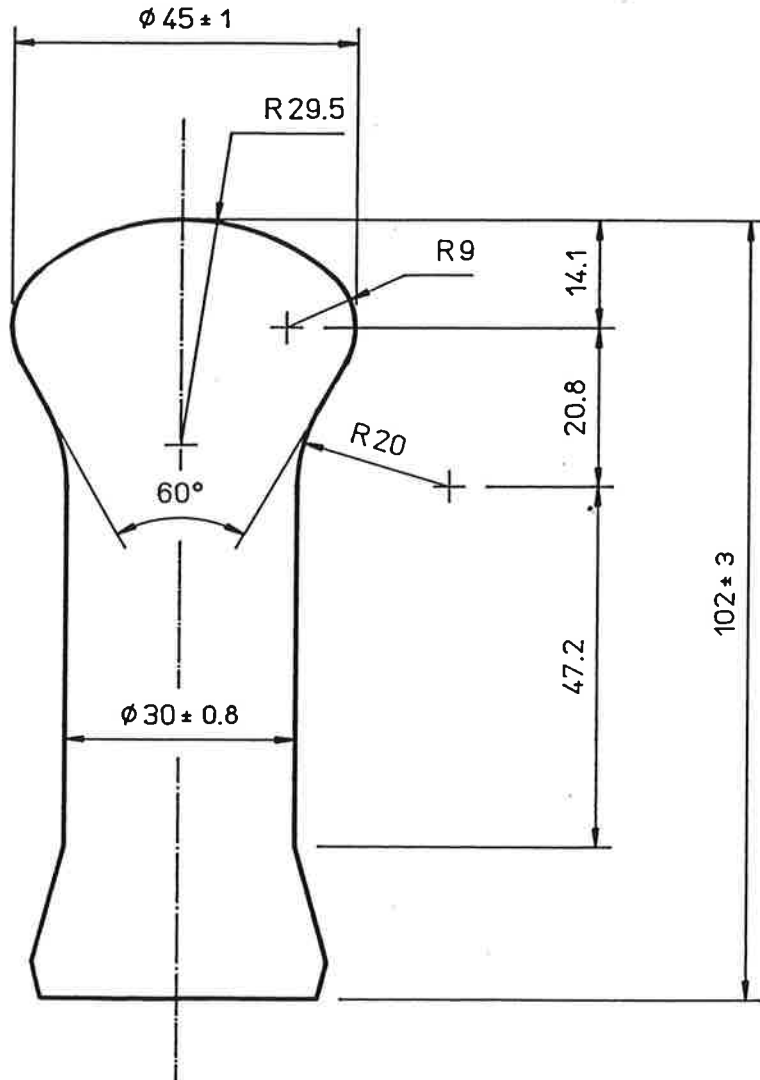
APPROVED BY <i>[Signature]</i>	NO. 1	DATE 5-2-91	MODIFICATION DIMENSIONS REVIEWED	NO.	DATE	MODIFICATION
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RIBBON BULB TYPE

M045

ISSUE DATE 6-OCT-65



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 64 FROM BULB TOP)	.41	TO	.76
SIDE	(AT MAXIMUM DIAMETER)	.38	MIN	
TOP	(AT CENTRE TOP)	.51	TO	1.52
STEM	INSIDE DIAMETER	27.6	MIN	
FLARE	INSIDE DIAMETER	30.3	MIN	OUTSIDE DIAM. 39.6 MAX.

ALL DIMENSIONS ARE IN mm

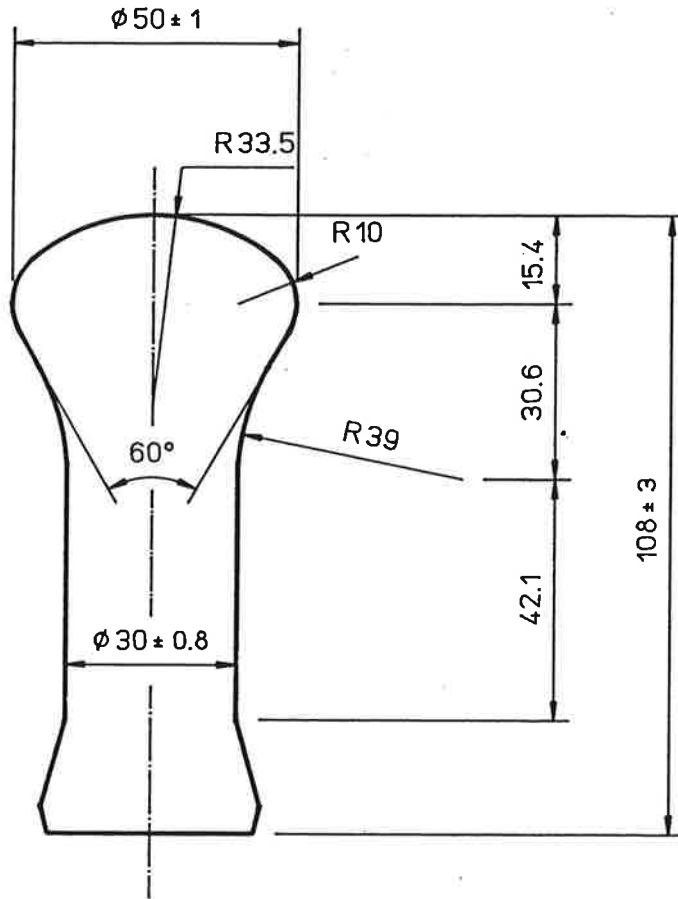
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RIBBON BULB TYPE

M050

ISSUE DATE 6-OCT-92



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 65 FROM BULB TOP)	.41	TO	.76
SIDE	(AT MAXIMUM DIAMETER)	.38	MIN	
TOP	(AT CENTRE TOP)	.51	TO	1.52

STEM	INSIDE DIAMETER	27.6	MIN	
FLARE	INSIDE DIAMETER	30.3	MIN	OUTSIDE DIAM. 39.6 MAX.

ALL DIMENSIONS ARE IN mm

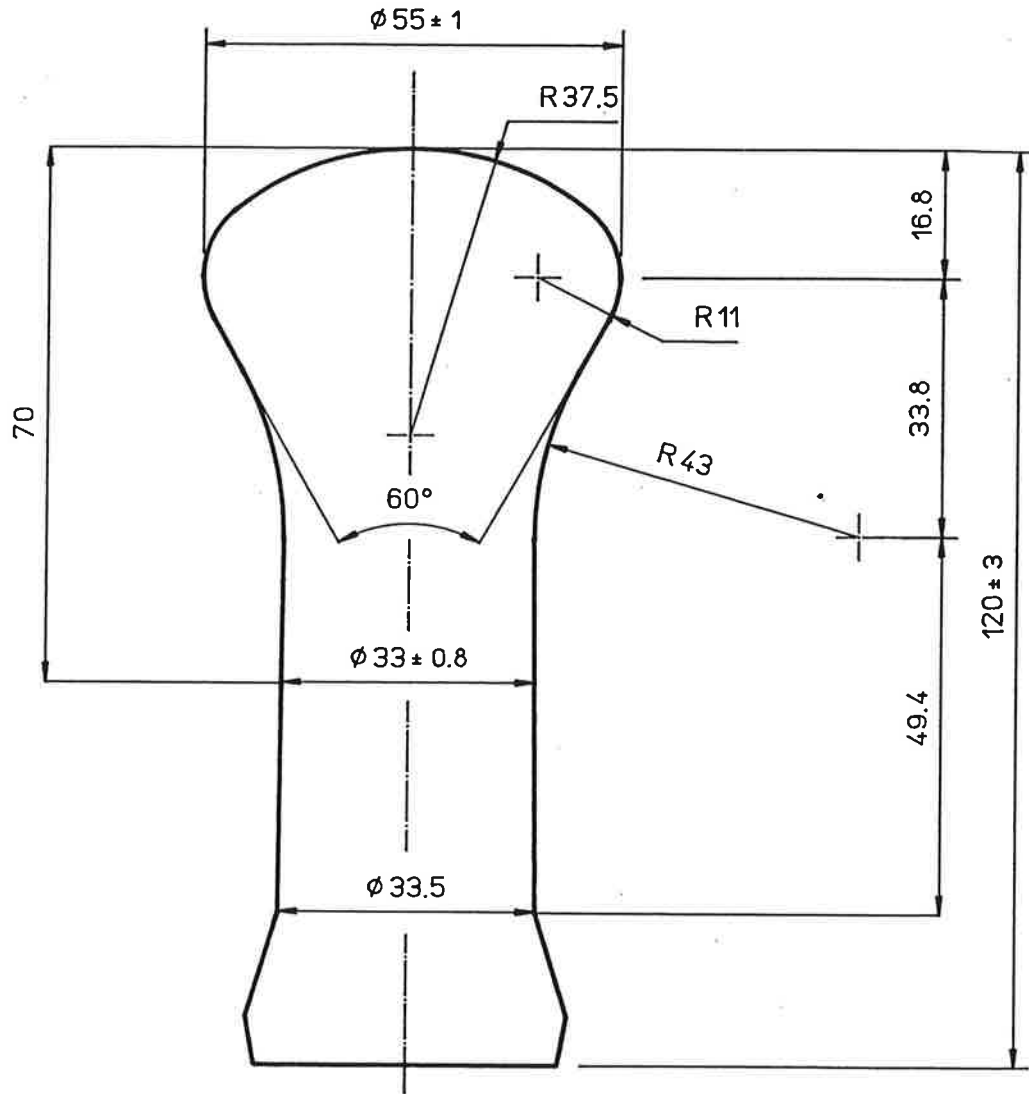
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RIBBON BULB TYPE

M055

ISSUE DATE 16-MAY-69



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 70 FROM BULB TOP)	.38	TO	.73
SIDE	(AT MAXIMUM DIAMETER)	.38	MIN	
TOP	(AT CENTRE TOP)	.51	TO	1.52

STEM	INSIDE DIAMETER	30.6	MIN	
FLARE	INSIDE DIAMETER	32.1	MIN	OUTSIDE DIAM. 43.3 MAX.

ALL DIMENSIONS ARE IN mm

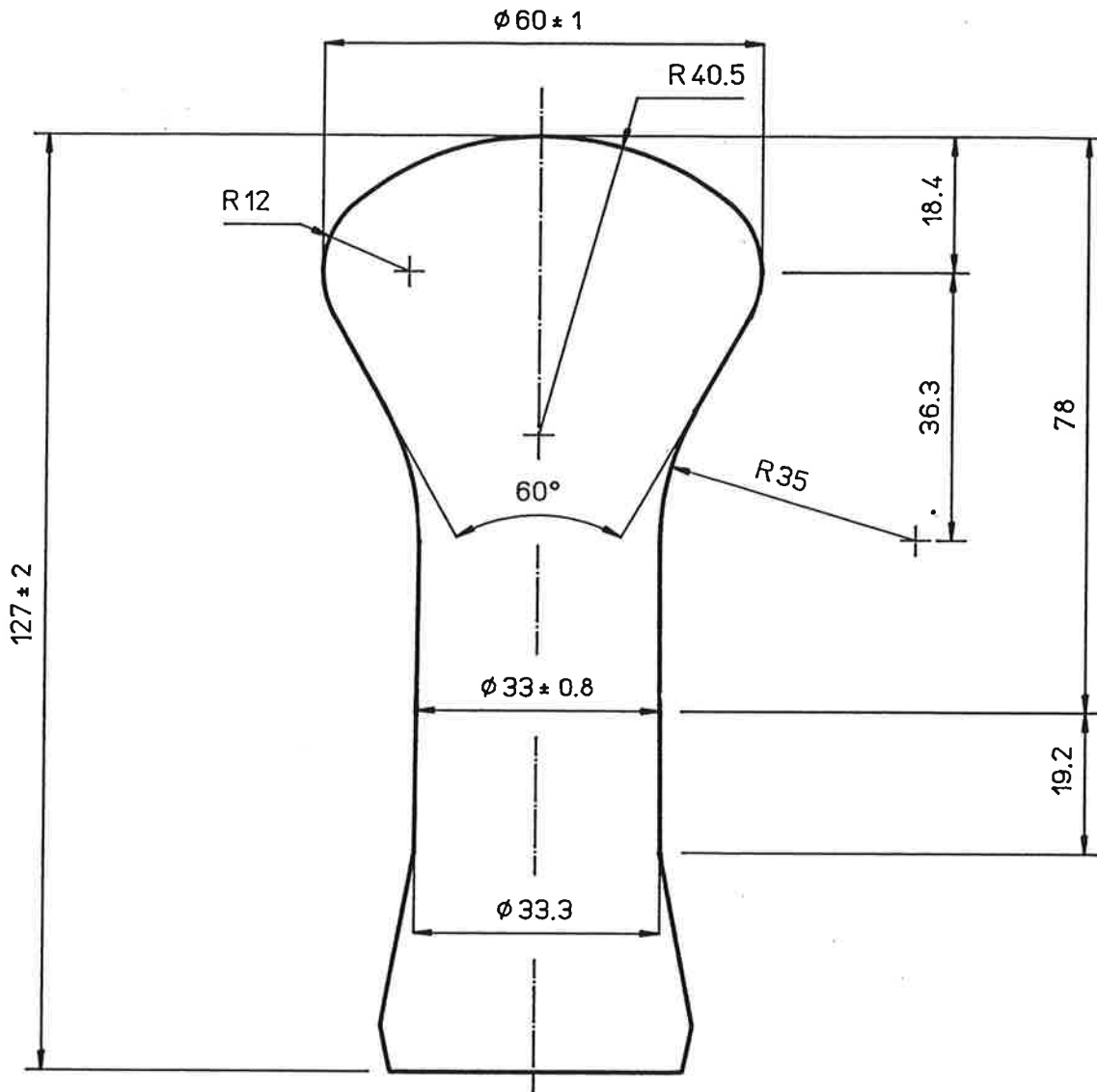
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APPROVED BY <i>C. White</i>						

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RIBBON BULB TYPE

M060

ISSUE DATE 25-NOV-65



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 78 FROM BULB TOP)	.41	TO	.76
SIDE	(AT MAXIMUM DIAMETER)	.38	MIN	
TOP	(AT CENTRE TOP)	.51	TO	1.52

STEM	INSIDE DIAMETER	30.6	MIN	
FLARE	INSIDE DIAMETER	32.1	MIN	OUTSIDE DIAM. 43.3 MAX.

ALL DIMENSIONS ARE IN mm

APPROVED BY	NO.	DATE	MODIFICATION	NO.	DATE	MODIFICATION
<i>[Signature]</i>	1	25-7-78	NECK MEAS POSN 73 INSTEAD OF 78			FLARE TAPER CHANGED
<i>[Signature]</i>	2	15-3-88	NECK MEAS POSN 78 NOT 73	3	11-1-91	DIMENSIONS REVIEWED

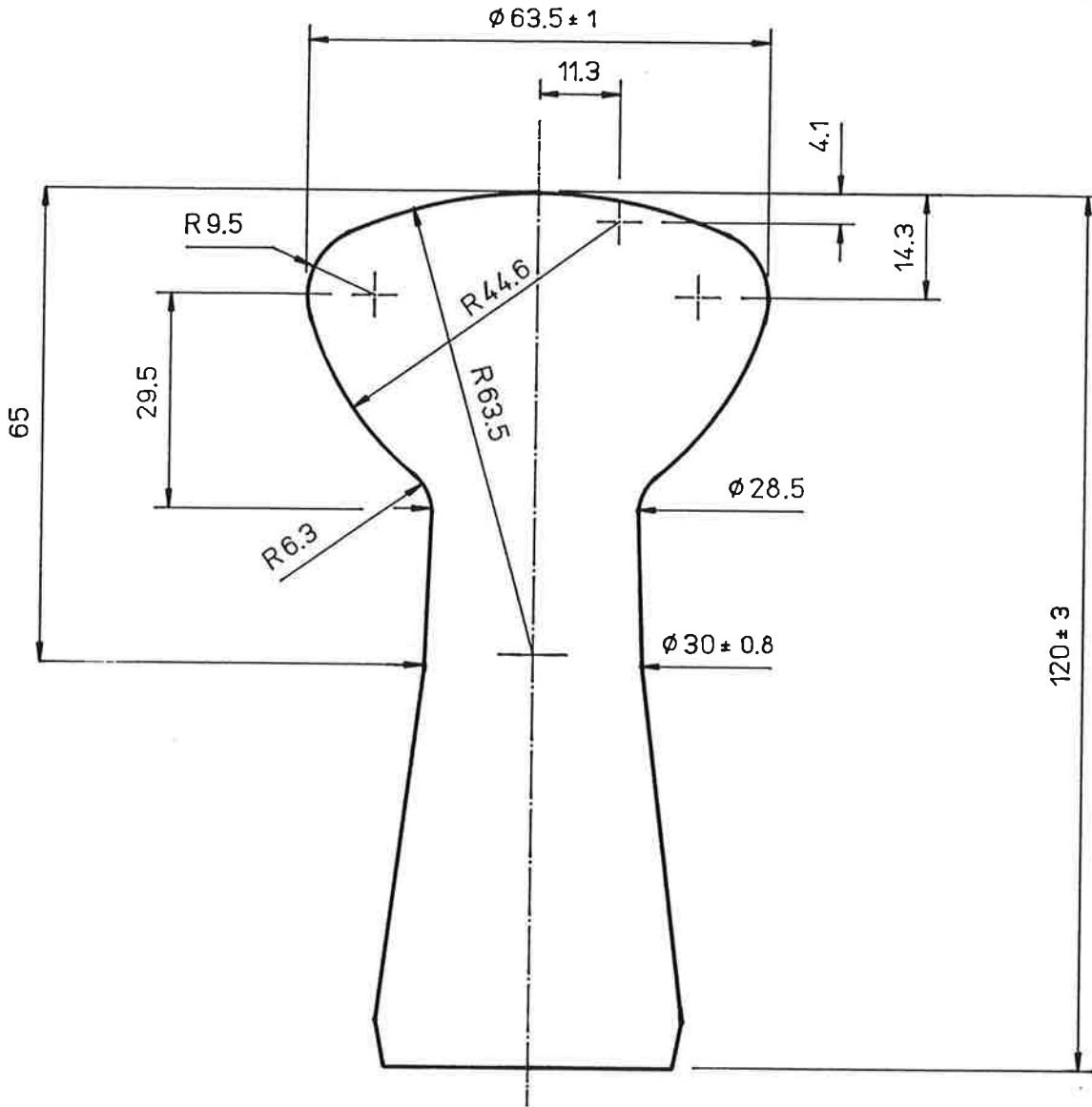
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RIBBON BULB TYPE

M063.5A

ISSUE DATE

12-DEC-77



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 76 FROM BULB TOP)	.40	TO	.75
SIDE	(AT MAXIMUM DIAMETER)	.38	MIN	
TOP	(AT CENTRE TOP)	.50	TO	1.30

STEM	INSIDE DIAMETER	26.0	MIN	(AT 43.8 FROM TOP)
FLARE	INSIDE DIAMETER	32.1	MIN	OUTSIDE DIAM.43.9 MAX.

ALL DIMENSIONS ARE IN mm

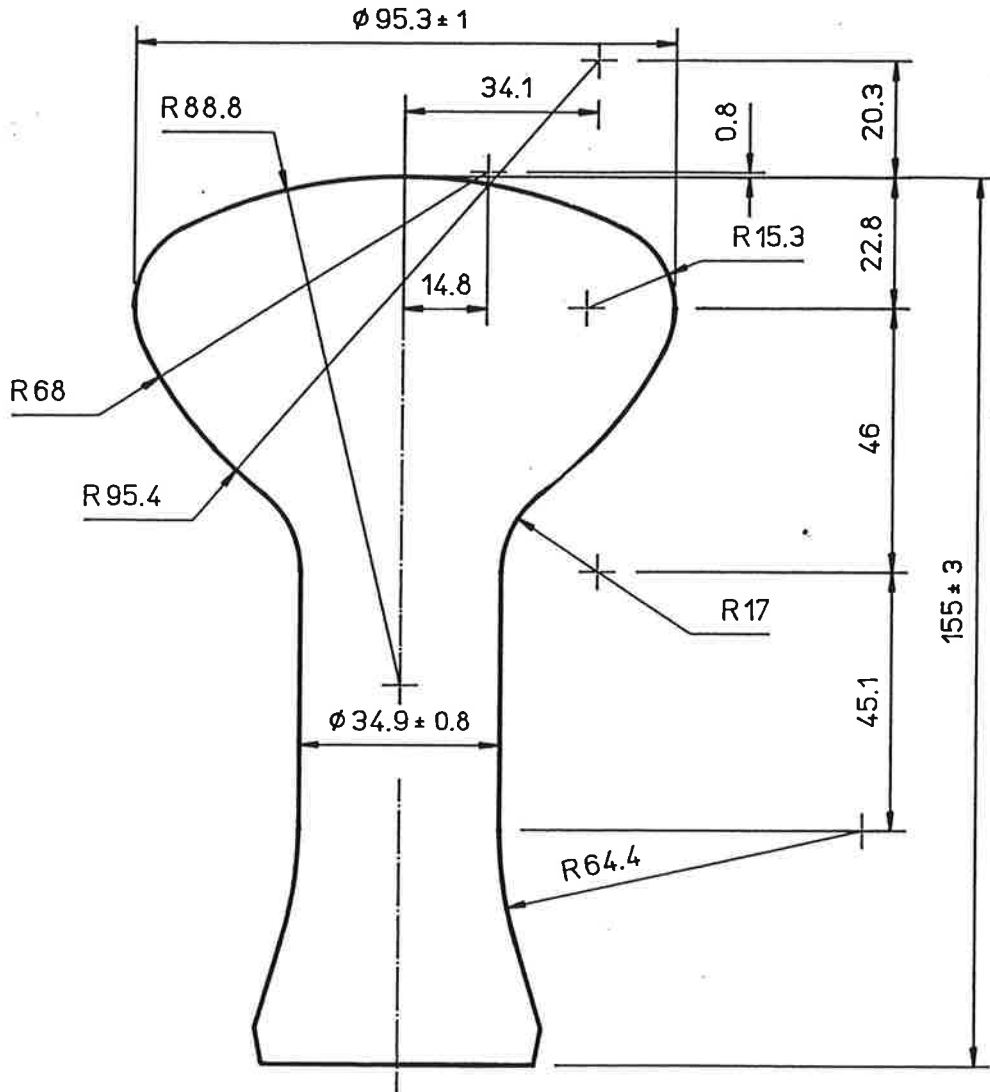
APPROVED BY	NO.	DATE	MODIFICATION	NO.	DATE	MODIFICATION
<i>[Signature]</i>	1	16-1-91	DIMENSIONS REVIEWED			
<i>[Signature]</i>	2	26-JUL-93	1.30 WAS 1.20 AT TOP			

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RIBBON BULB TYPE

M095

ISSUE DATE 3-APR-63



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 100 FROM BULB TOP)	.48	TO	1.09
SIDE	(AT MAXIMUM DIAMETER)	.38	MIN	
TOP	(AT CENTRE TOP)	1.00	TO	2.55

STEM	INSIDE DIAMETER	32.5	MIN	
FLARE	INSIDE DIAMETER	40.0	MIN	OUTSIDE DIAM. 52.0 MAX.

ALL DIMENSIONS ARE IN mm

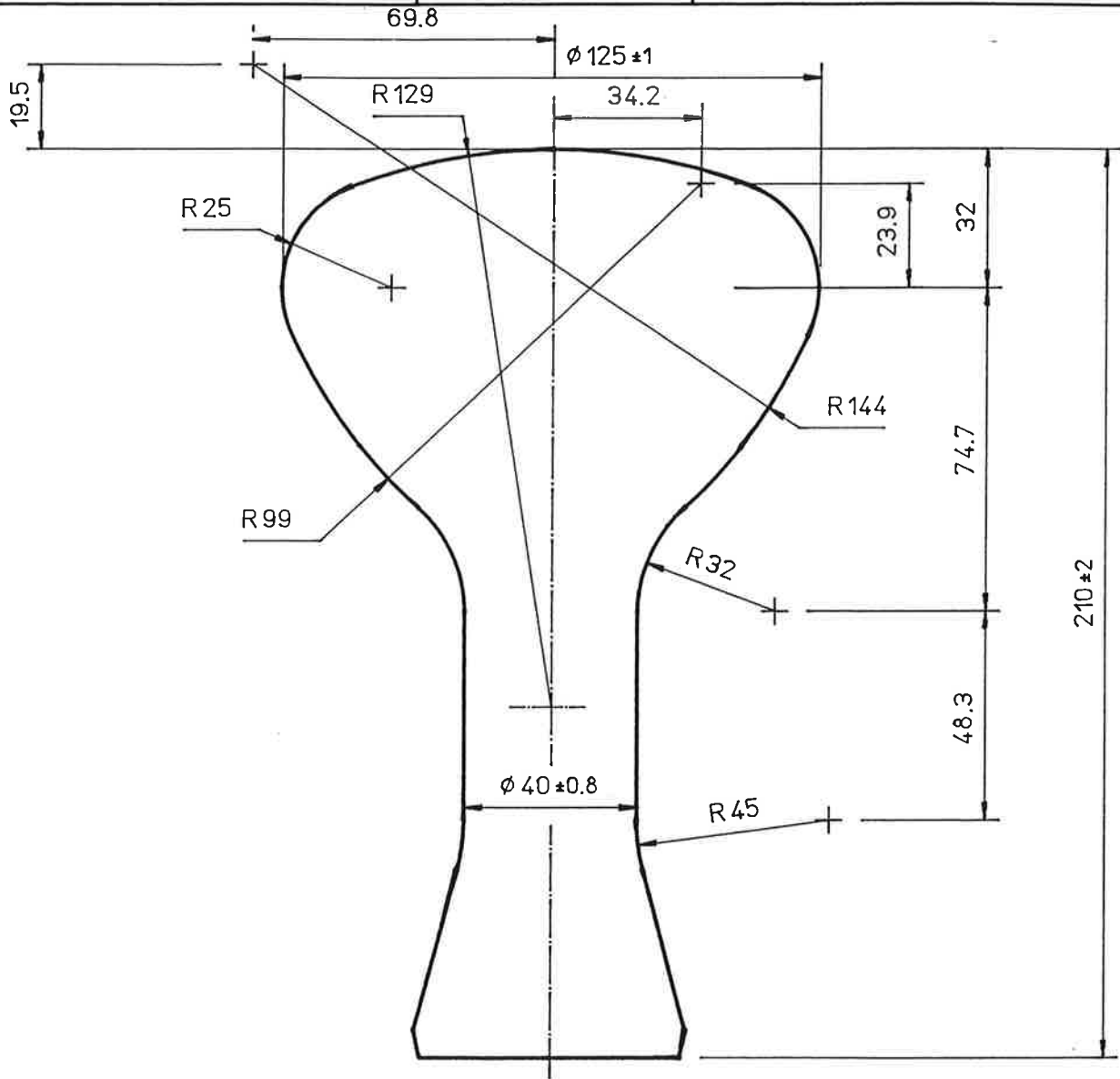
APPROVED BY <i>[Signature]</i>	NO.	DATE	MODIFICATION	NO.	DATE	MODIFICATION
APPROVED BY <i>[Signature]</i>	1	11-1-91	DIMENSIONS REVIEWED			

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RIBBON BULB TYPE

M125D

ISSUE DATE 22-APR-93



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 150 FROM BULB TOP)	.50	TO	1.20
SIDE	(AT MAXIMUM DIAMETER)	.42	MIN	
TOP	(AT CENTRE TOP)	1.0	TO	2.75

STEM	INSIDE DIAMETER	37.3	MIN	
FLARE	INSIDE DIAMETER	49.5	MIN	OUTSIDE DIAM. 70.0 MAX.

ALL DIMENSIONS ARE IN mm

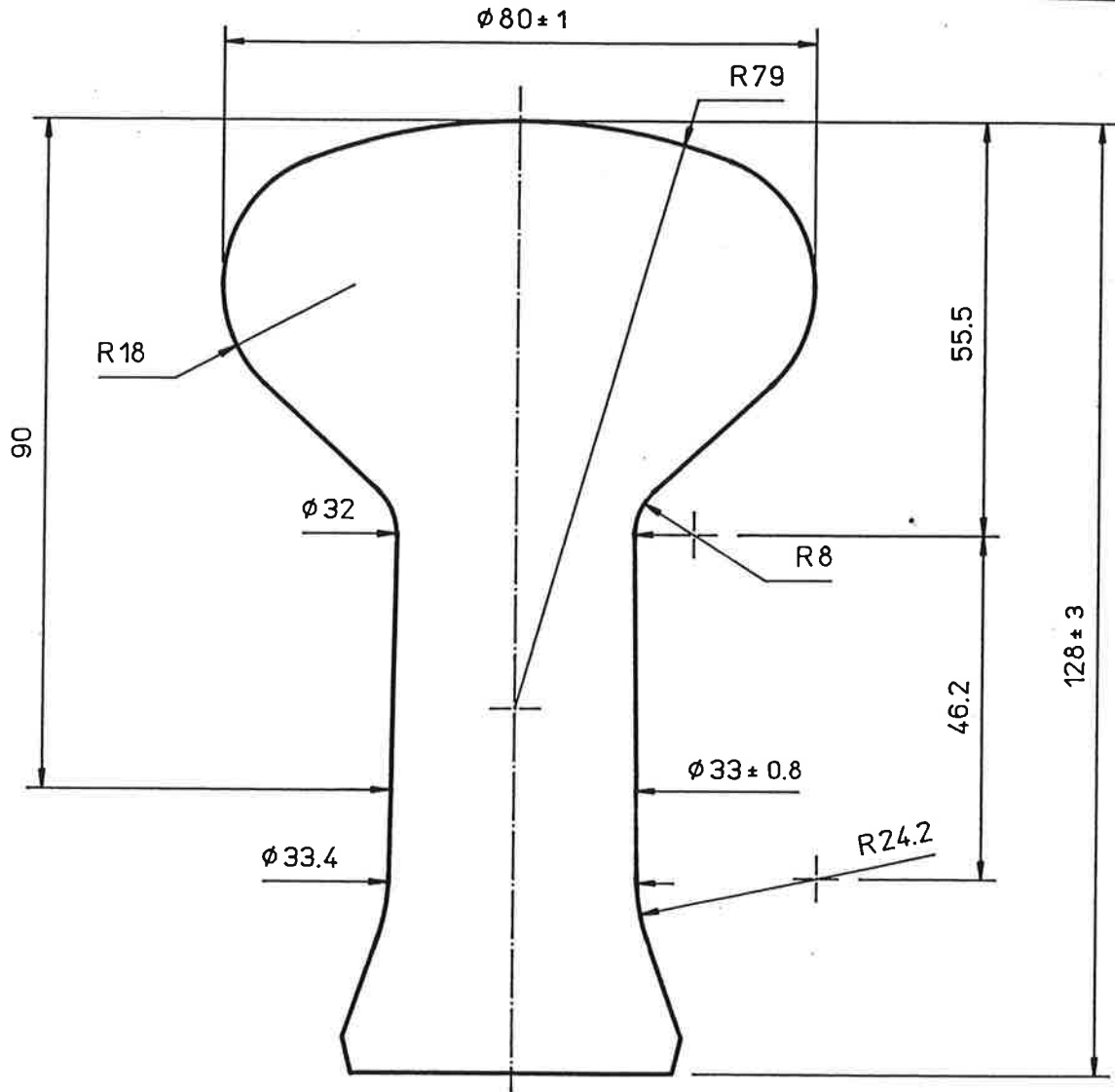
APPROVED BY <i>H. Baker</i>	NO.	DATE	MODIFICATION	NO.	DATE	MODIFICATION
APPROVED BY <i>D. Eady</i>						

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RIBBON BULB TYPE

O080

ISSUE DATE 29-Oct-64



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 90 FROM BULB TOP)	0.41 TO 0.76
SIDE	(AT MAXIMUM DIAMETER)	0.38 MIN
TOP	(AT CENTRE TOP)	0.60 TO 1.70

STEM	INSIDE DIAMETER	29.6	MIN
FLARE	INSIDE DIAMETER	35.6	MIN
			OUTSIDE DIAM. 47 MAX.

ALL DIMENSIONS ARE IN mm

APPROVED BY	NO.	DATE	MODIFICATION	NO.	DATE	MODIFICATION
<i>[Signature]</i>	1	7.8.89.	FLARE MODIFIED			
<i>[Signature]</i>	2	17-12-90	DIMENSIONS REVIEWED			

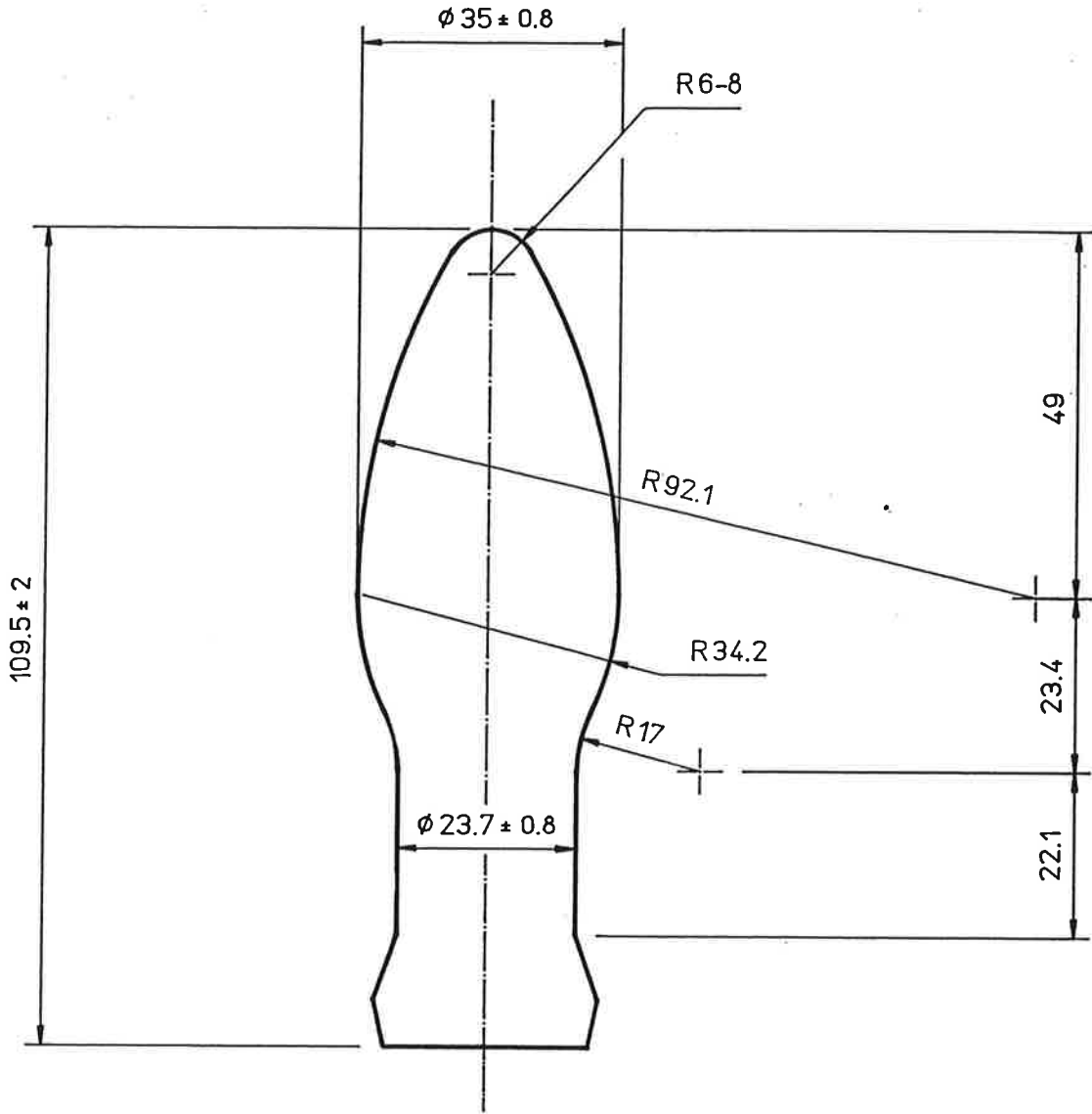
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RIBBON BULB TYPE

OC035B

ISSUE DATE

NOV-84



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 78 FROM BULB TOP)	.40	TO	.75
SIDE	(AT MAXIMUM DIAMETER)	.30	MIN	
TOP	(AT CENTRE TOP)	.40	TO	1.20
<hr/>				
STEM	INSIDE DIAMETER	21.3	MIN	
FLARE	INSIDE DIAMETER	22.1	MIN	OUTSIDE DIAM. 31.6 MAX.

ALL DIMENSIONS ARE IN mm

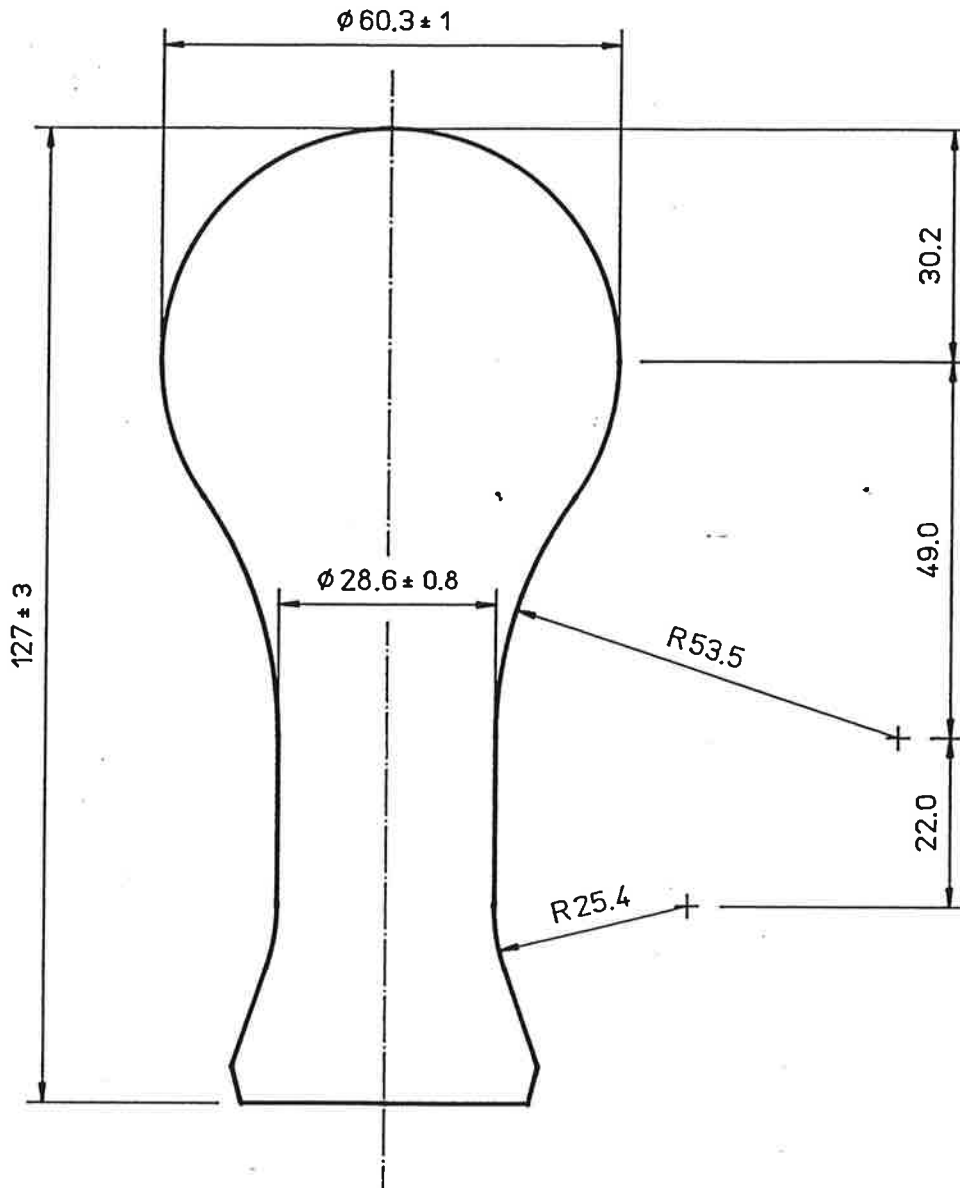
APPROVED BY <i>[Signature]</i>	NO.	DATE	MODIFICATION	NO.	DATE	MODIFICATION
APPROVED BY <i>[Signature]</i>	1	17-12-90	DIMENSIONS REVIEWED			

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RIBBON BULB TYPE

PS060B

ISSUE DATE 2-Nov-67



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 90 FROM BULB TOP)	0.35 TO	0.69
SIDE	(AT MAXIMUM DIAMETER)	0.35 MIN	
TOP	(AT CENTRE TOP)	0.48 TO	1.48

STEM	INSIDE DIAMETER	26.2	MIN
FLARE	INSIDE DIAMETER	32.0	MIN
	OUTSIDE DIAM.	42.3	MAX.

ALL DIMENSIONS ARE IN mm

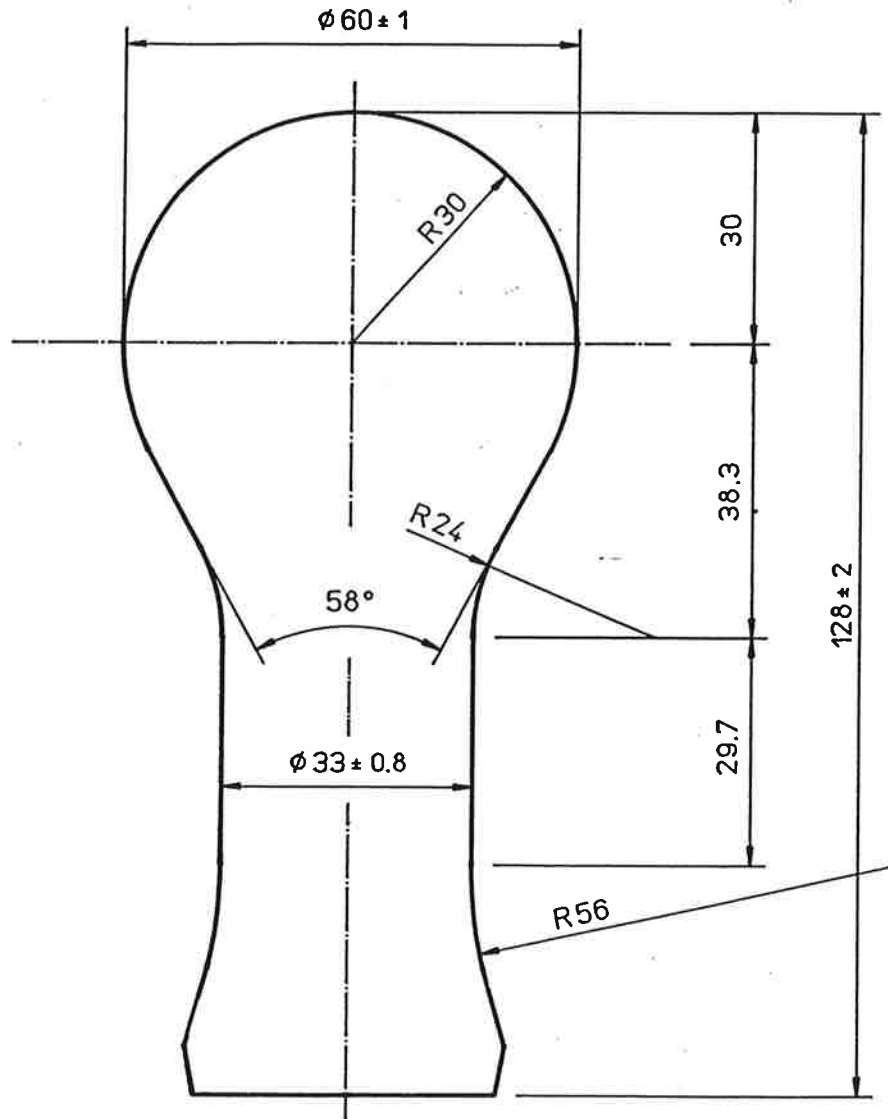
APPROVED BY <i>[Signature]</i>	NO.	DATE	MODIFICATION	NO.	DATE	MODIFICATION
APPROVED BY <i>[Signature]</i>	1	27-JAN-93	DIMENSIONS REVIEWED			

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RIBBON BULB TYPE

PS060D

ISSUE DATE 9-MAR-72



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 85 FROM BULB TOP)	.41	TO	.76
SIDE	(AT MAXIMUM DIAMETER)	.38	MIN	
TOP	(AT CENTRE TOP)	.51	TO	1.52

STEM	INSIDE DIAMETER	30.6	MIN	
FLARE	INSIDE DIAMETER	32.1	MIN	OUTSIDE DIAM 43.3 MAX

ALL DIMENSIONS ARE IN mm

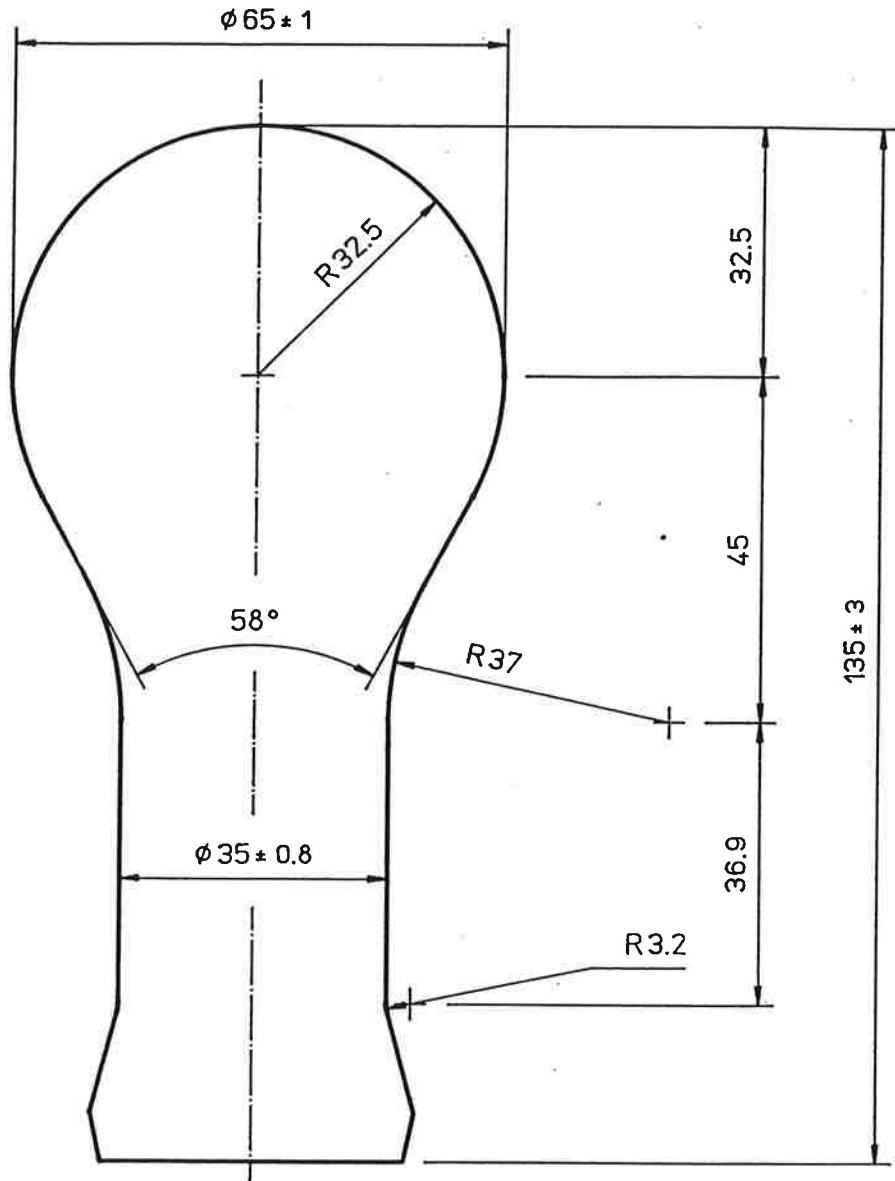
APPROVED BY	NO.	DATE	MODIFICATION	NO.	DATE	MODIFICATION
<i>[Signature]</i>	1	8-1-73	SEALING IN LINES REMOVED	3	6-8-92	NECK MEAS POS WAS 78
<i>[Signature]</i>	2	17-12-90	DIMENSIONS REVIEWED			PLATE DIM DELETED

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RIBBON BULB TYPE

PS065

ISSUE DATE 17-FEB-50



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 96 FROM BULB TOP)	.41	TO	.76
SIDE	(AT MAXIMUM DIAMETER)	.38	MIN	
TOP	(AT CENTRE TOP)	.51	TO	1.52
STEM	INSIDE DIAMETER	32.6	MIN	
FLARE	INSIDE DIAMETER	32.6	MIN	OUTSIDE DIAM. 43.3 MAX.

ALL DIMENSIONS ARE IN mm

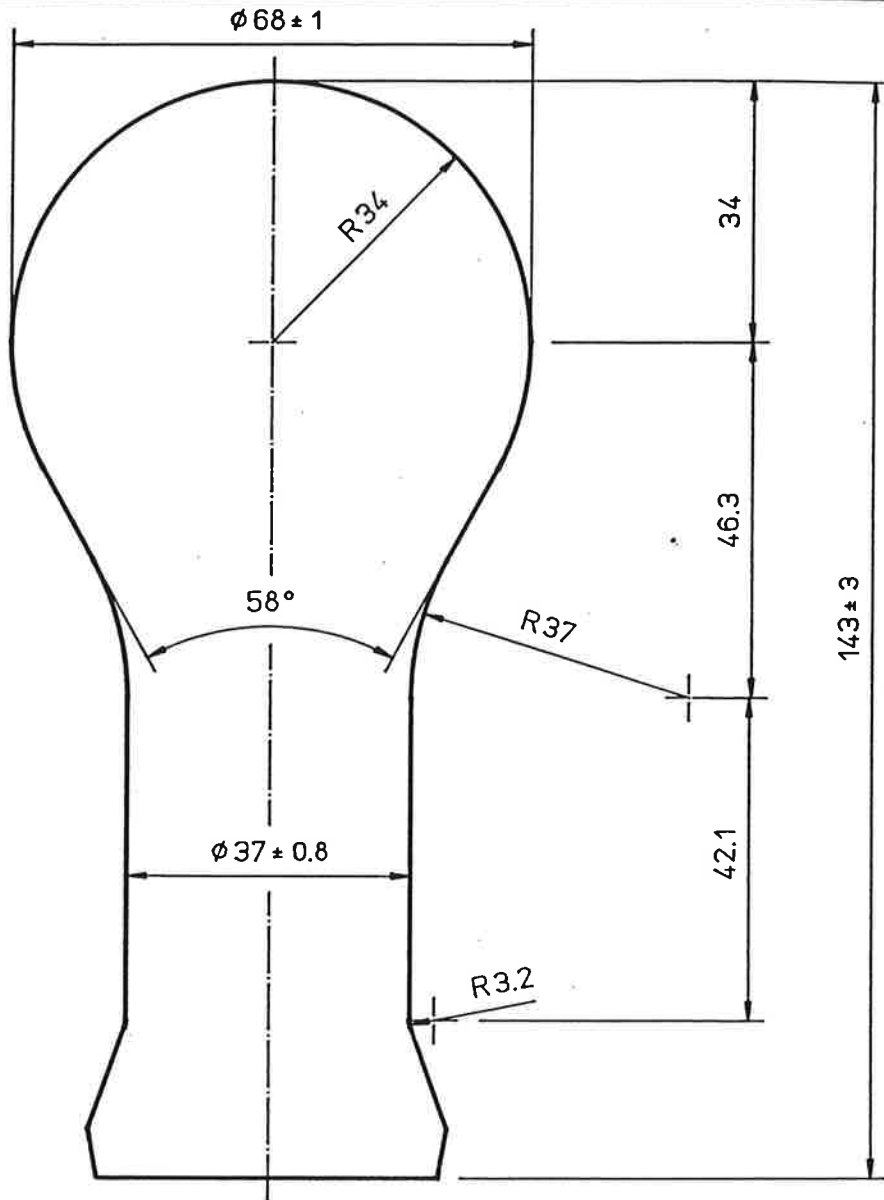
APPROVED BY <i>[Signature]</i>	NO.	DATE	MODIFICATION	NO.	DATE	MODIFICATION
APPROVED BY <i>[Signature]</i>	1	5-2-91	DIMENSIONS REVIEWED			

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RIBBON BULB TYPE

PS068

ISSUE DATE 16-Sep-53



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT104 FROM BULB TOP)	.41	TO	.76
SIDE	(AT MAXIMUM DIAMETER)	.38	MIN	
TOP	(AT CENTRE TOP)	51	TO	1.52

STEM	INSIDE DIAMETER	34.6	MIN	
FLARE	INSIDE DIAMETER	36.8	MIN	OUTSIDE DIAM.48.2 MAX.

ALL DIMENSIONS ARE IN mm

APPROVED BY <i>[Signature]</i>	NO.	DATE	MODIFICATION	NO.	DATE	MODIFICATION
APPROVED BY <i>[Signature]</i>	1	11-1-91	DIMENSIONS REVIEWED			

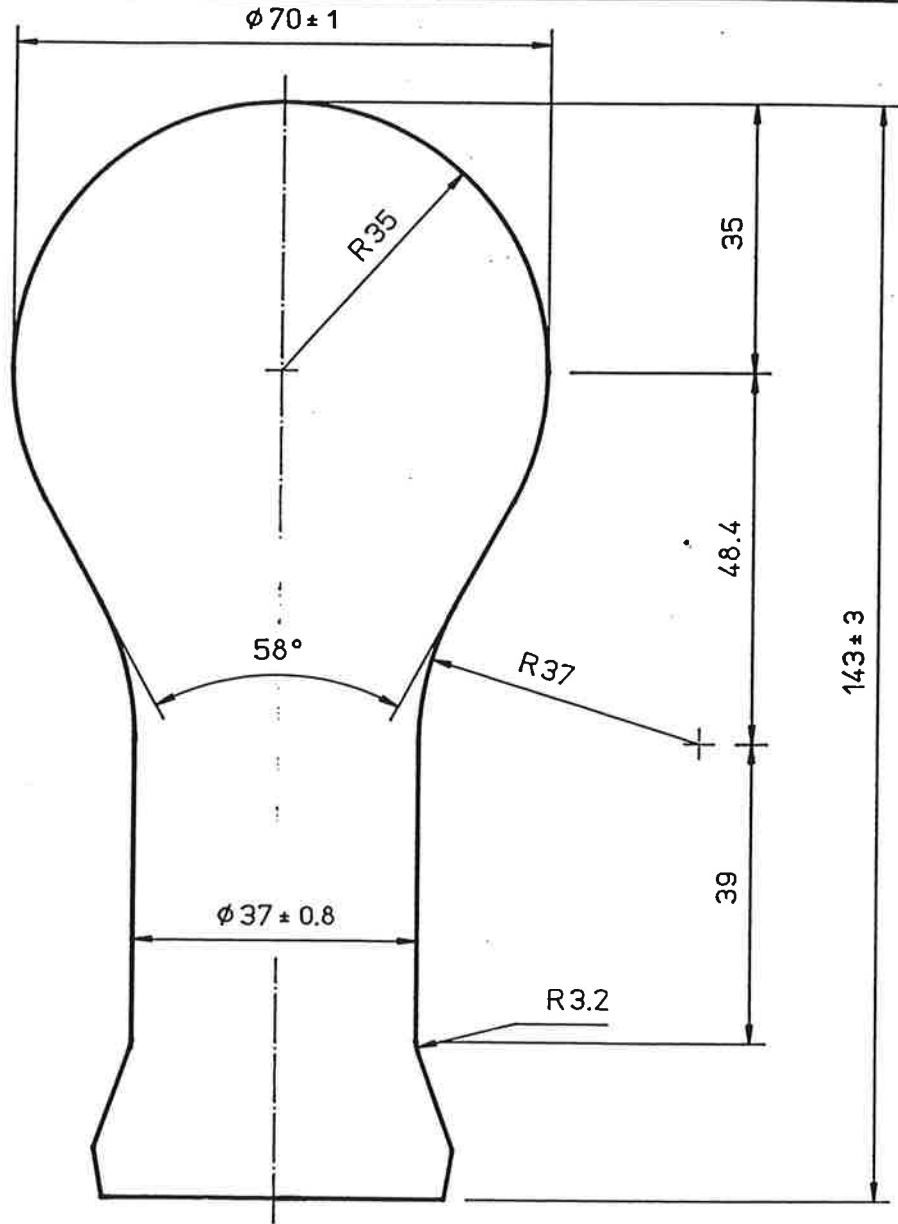
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RIBBON BULB TYPE

PS070

ISSUE DATE

17-FEB-50



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 104 FROM BULB TOP)	.41	TO	.76
SIDE	(AT MAXIMUM DIAMETER)	.38	MIN	
TOP	(AT CENTRE TOP)	.51	TO	1.52

STEM	INSIDE DIAMETER	34.6	MIN	
FLARE	INSIDE DIAMETER	36.8	MIN	OUTSIDE DIAM. 48.2 MAX.

ALL DIMENSIONS ARE IN mm

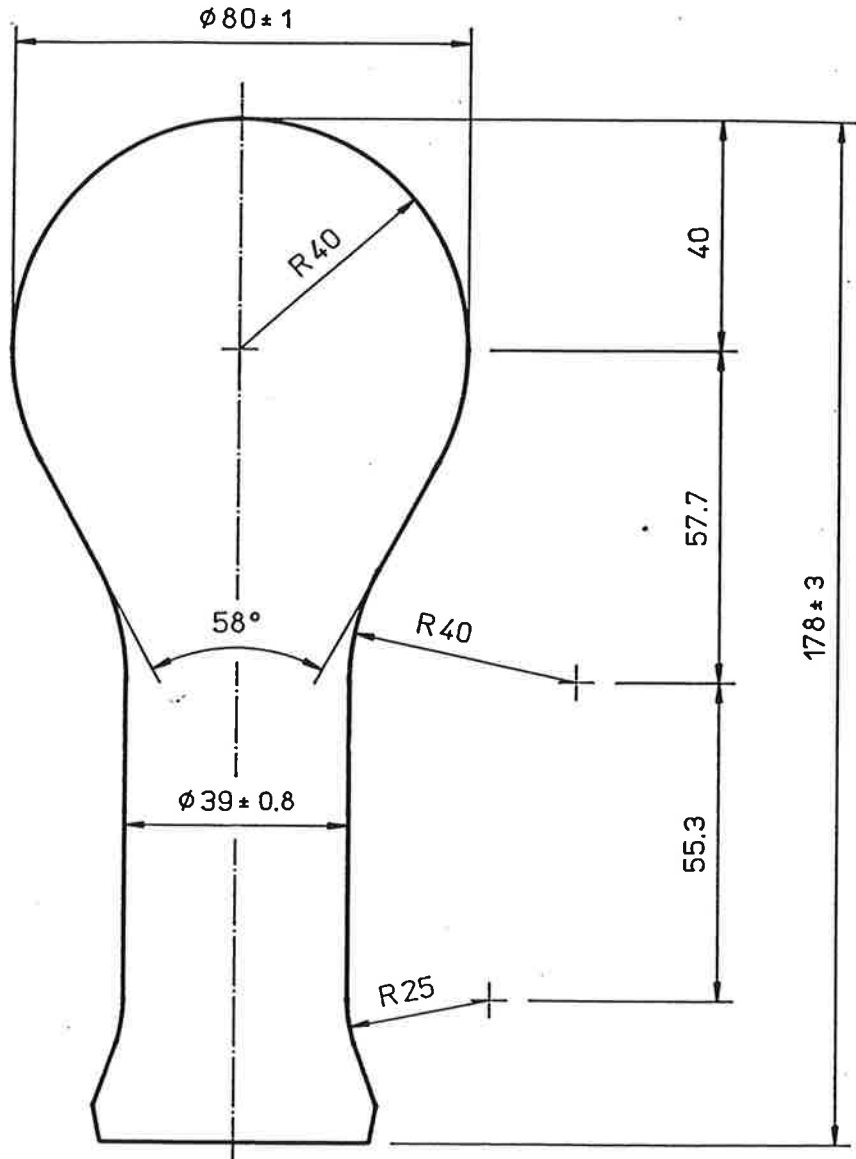
APPROVED BY	NO.	DATE	MODIFICATION	NO.	DATE	MODIFICATION
<i>[Signature]</i>	1	5-2-91	DIMENSIONS REVIEWED.			
<i>[Signature]</i>						

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RIBBON BULB TYPE

PS080A

ISSUE DATE 21-JUL-53



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 129 FROM BULB TOP)	.41	TO	.76
SIDE	(AT MAXIMUM DIAMETER)	.38	MIN	
TOP	(AT CENTRE TOP)	.51	TO	1.52

STEM	INSIDE DIAMETER	36.6	MIN	
FLARE	INSIDE DIAMETER	36.8	MIN	OUTSIDE DIAM. 50.9 MAX.

ALL DIMENSIONS ARE IN mm

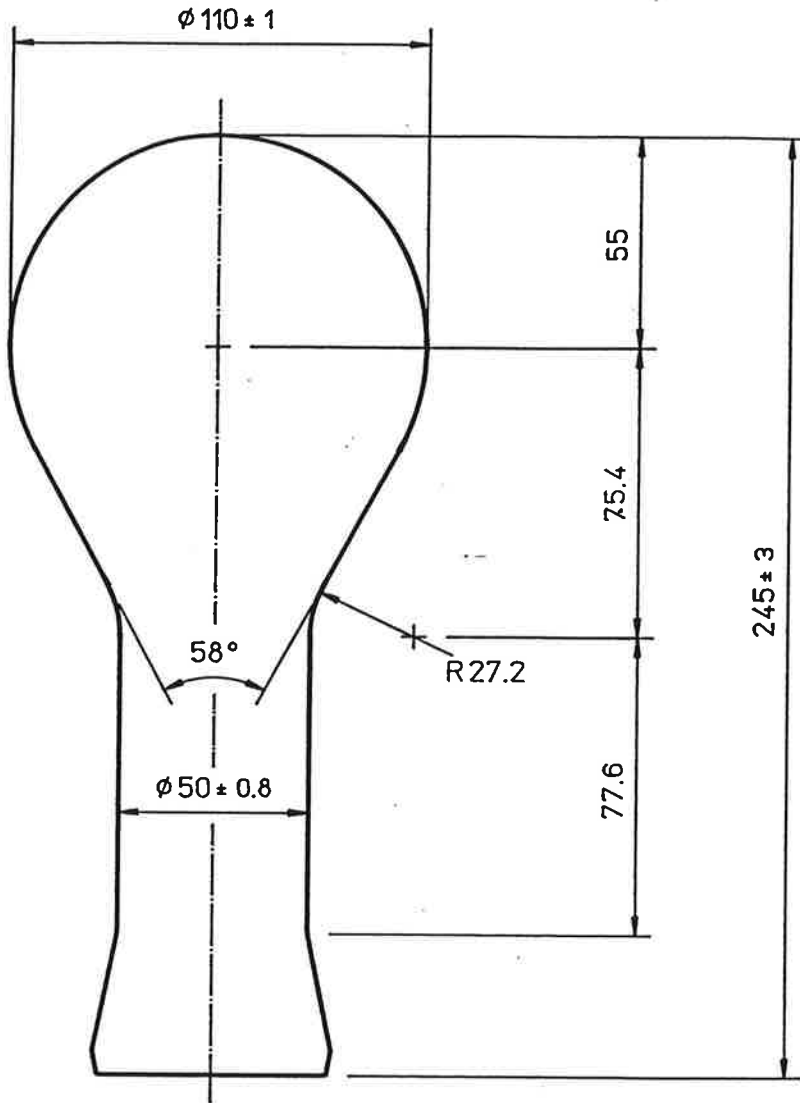
APPROVED BY	NO.	DATE	MODIFICATION	NO.	DATE	MODIFICATION
<i>[Signature]</i>	1	17-4-68	NECK MEASURE WAS 139			
<i>[Signature]</i>	2	11-1-91	DIMENSIONS REVIEWED			

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RIBBON BULB TYPE

PS110

ISSUE DATE 2-NOV-60



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 170 FROM BULB TOP)	.46	TO	.91
SIDE	(AT MAXIMUM DIAMETER)	.38	MIN	
TOP	(AT CENTRE TOP)	.89	TO	2.41

STEM	INSIDE DIAMETER	47.5	MIN	
FLARE	INSIDE DIAMETER	49.5	MIN	OUTSIDE DIAM. 66.0 MAX

ALL DIMENSIONS ARE IN mm

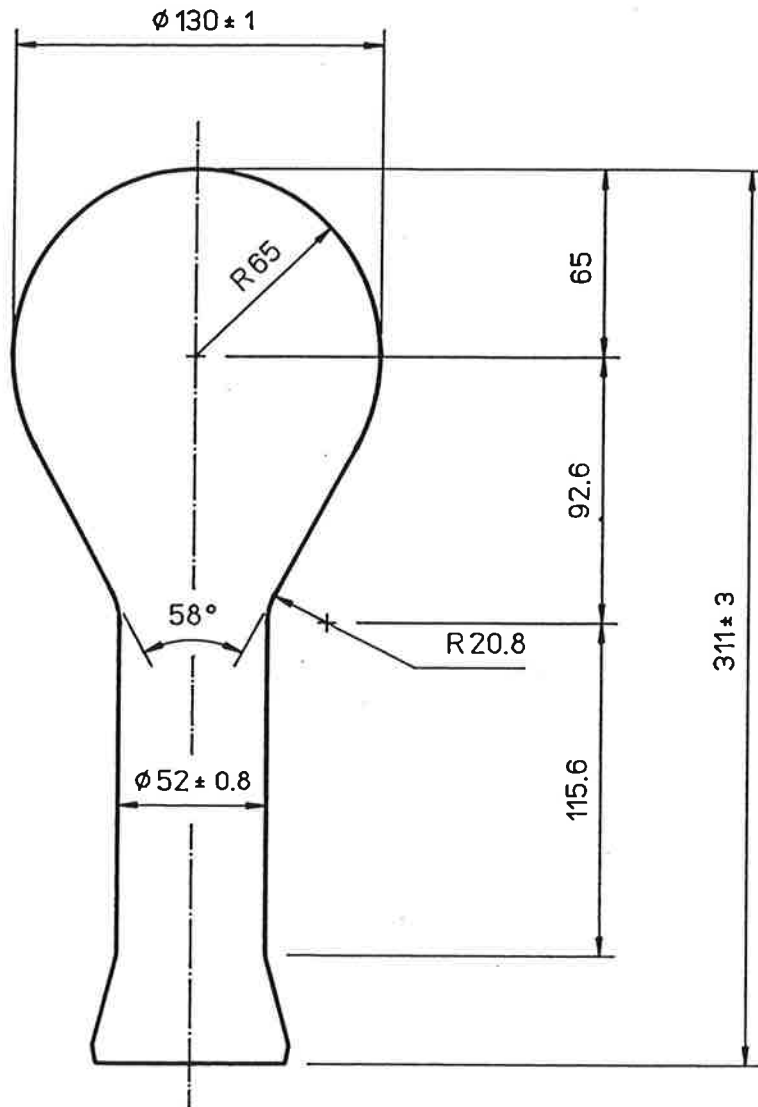
APPROVED BY <i>[Signature]</i>	NO.	DATE	MODIFICATION	NO.	DATE	MODIFICATION
APPROVED BY <i>[Signature]</i>	1	5-2-91	DIMENSIONS REVIEWED			

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RIBBON BULB TYPE

PS130A

ISSUE DATE 18-OCT-71



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 197 FROM BULB TOP)	.56	TO	1.14
SIDE	(AT MAXIMUM DIAMETER)	.38	MIN	
TOP	(AT CENTRE TOP)	.89	TO	2.41
<hr/>				
STEM	INSIDE DIAMETER	47.5	MIN	
FLARE	INSIDE DIAMETER	52.7	MIN	OUTSIDE DIAM. 71.3 MAX

ALL DIMENSIONS ARE IN mm

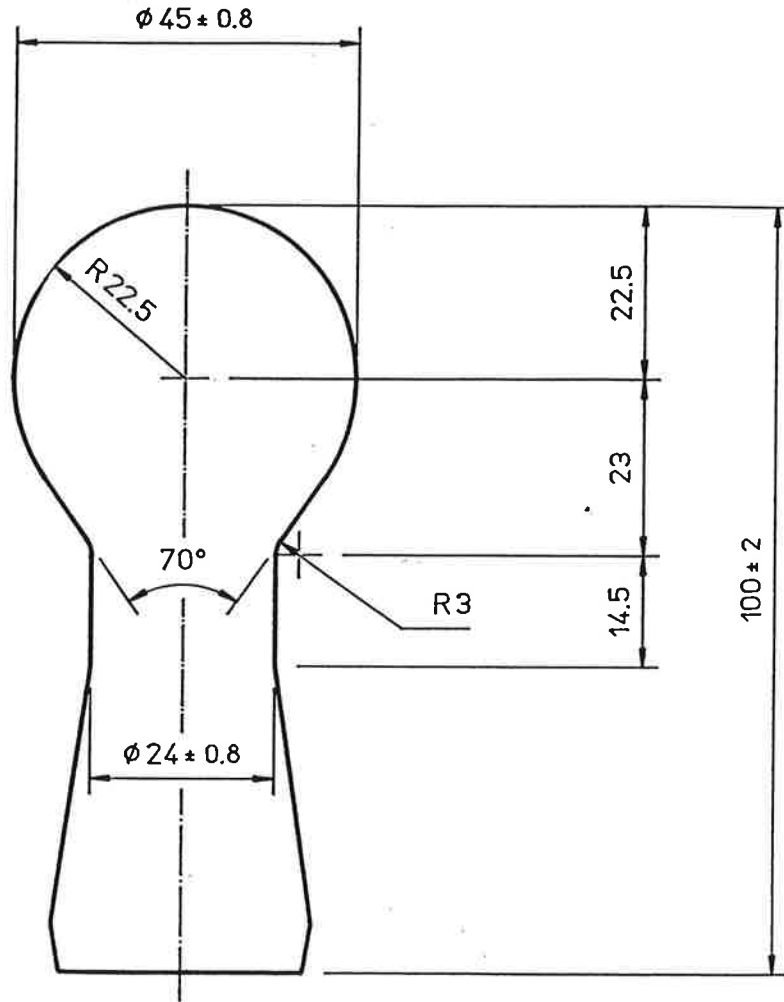
APPROVED BY	NO.	DATE	MODIFICATION	NO.	DATE	MODIFICATION
<i>[Signature]</i>	1	11-6-74	FLARE O/D WAS 70.00			
<i>[Signature]</i>	2	5-2-91	DIMENSIONS REVIEWED			

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RIBBON BULB TYPE

R045E

ISSUE DATE 25-JUN-75



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 53 FROM BULB TOP)	.41	TO	.75
SIDE	(AT MAXIMUM DIAMETER)	.30	MIN	
TOP	(AT CENTRE TOP)	.40	TO	1.20
STEM	INSIDE DIAMETER	21.6	MIN	
FLARE	INSIDE DIAMETER	25.8	MIN	OUTSIDE DIAM.36.2 MAX.

ALL DIMENSIONS ARE IN mm

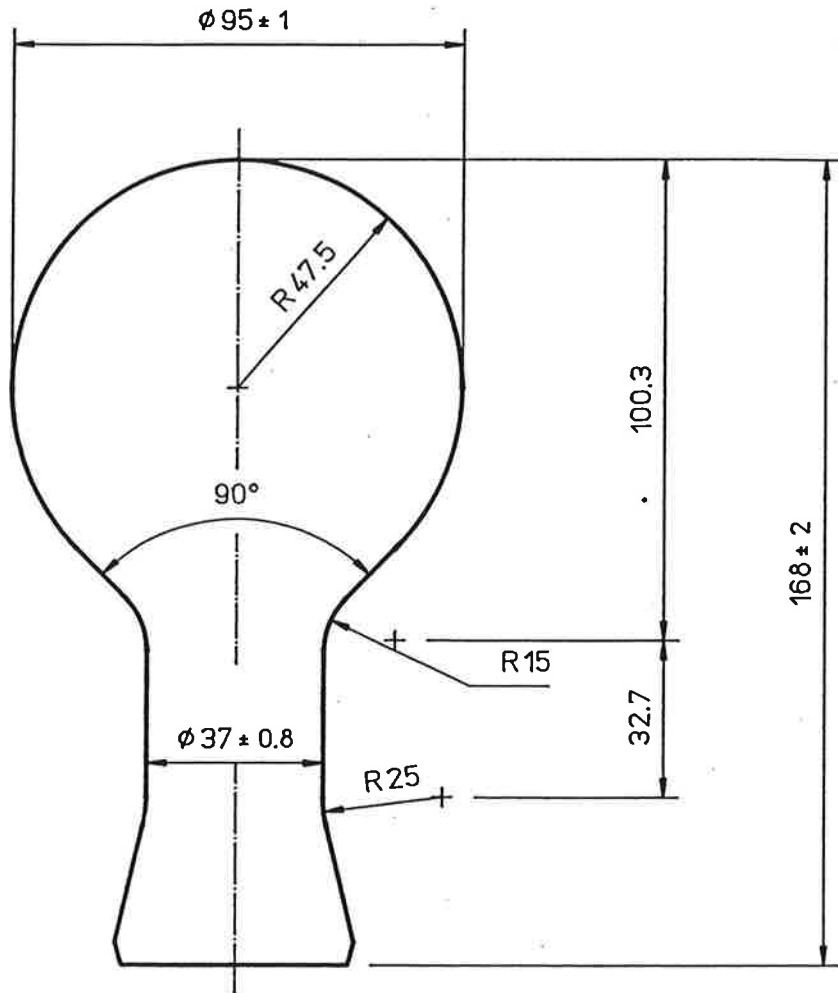
APPROVED BY	NO.	DATE	MODIFICATION	NO.	DATE	MODIFICATION
<i>[Signature]</i>	1	17-12-90	DIMENSIONS REVIEWED			
<i>[Signature]</i>						

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RIBBON BULB TYPE

R095

ISSUE DATE 7-DEC-83



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 110 FROM BULB TOP)	.50 TO 1.00
SIDE	(AT MAXIMUM DIAMETER)	.38 MIN
TOP	(AT CENTRE TOP)	.60 TO 1.80

STEM	INSIDE DIAMETER	34.6 MIN
FLARE	INSIDE DIAMETER	38.5 MIN OUTSIDE DIAM. 52.0 MAX.

ALL DIMENSIONS ARE IN mm

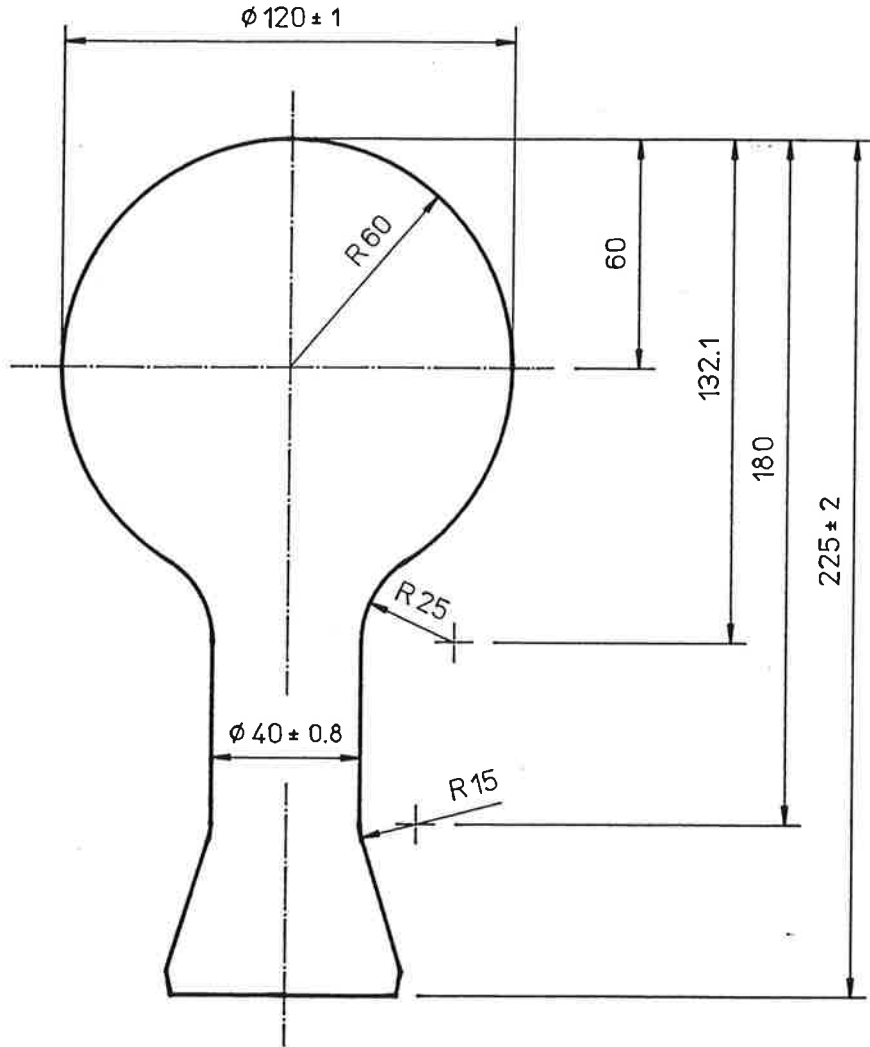
APPROVED BY	NO.	DATE	MODIFICATION	NO.	DATE	MODIFICATION
<i>[Signature]</i>	1	15-1-85	NECK MEASURING POSITION WAS 120	2	16-1-91	DIMENSIONS REVIEWED
<i>[Signature]</i>						

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RIBBON BULB TYPE

R120

ISSUE DATE 16-Jun-93



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 150 FROM BULB TOP)	.50	TO	1.10
SIDE	(AT MAXIMUM DIAMETER)	.38	min	
TOP	(AT CENTRE TOP)	.80	TO	2.50
STEM	INSIDE DIAMETER	37.3	MIN	
FLARE	INSIDE DIAMETER	50.0	MIN	OUTSIDE DIAM. 65.5 MAX.

ALL DIMENSIONS ARE IN mm

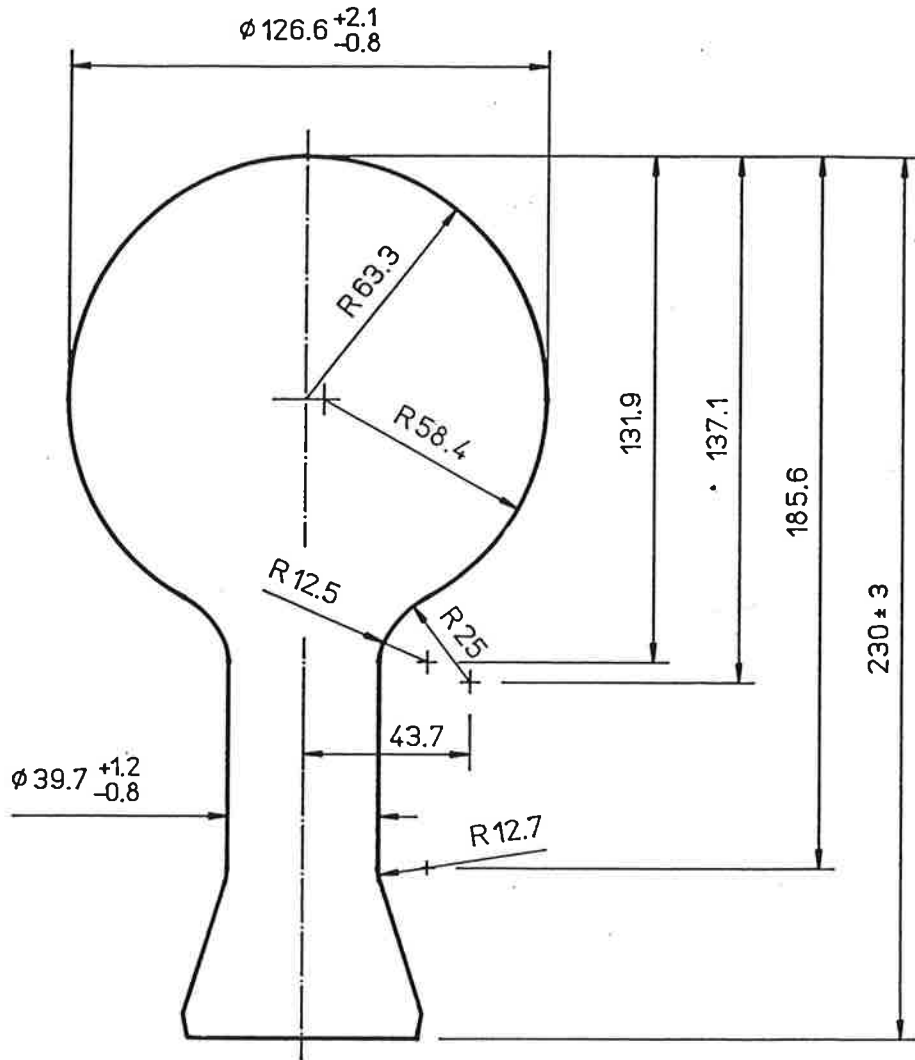
APPROVED BY <i>M. B. [Signature]</i>	NO.	DATE	MODIFICATION	NO.	DATE	MODIFICATION
APPROVED BY <i>C. White</i>						

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RIBBON BULB TYPE

R127

ISSUE DATE 20-FEB-81



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 149 FROM BULB TOP)	0.53 TO 1.14
SIDE	(AT MAXIMUM DIAMETER)	0.45 MIN
TOP	(AT CENTRE TOP)	0.89 TO 2.54

STEM	INSIDE DIAMETER	36.3	MIN
FLARE	INSIDE DIAMETER	50.2	MIN
	OUTSIDE DIAM.	65.5	MAX.

ALL DIMENSIONS ARE IN mm

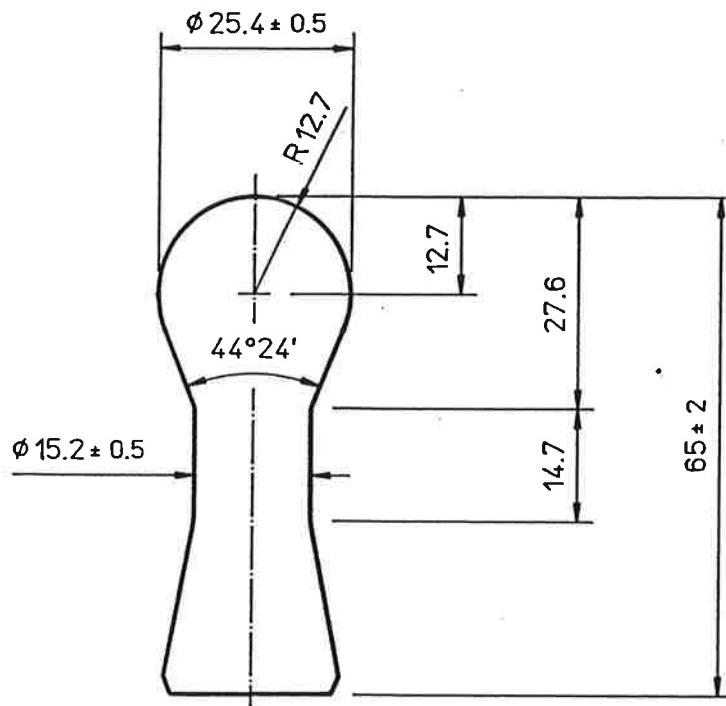
APPROVED BY <i>[Signature]</i>	NO.	DATE	MODIFICATION	NO.	DATE	MODIFICATION
APPROVED BY <i>[Signature]</i>	1	11-1-91	DIMENSIONS REVIEWED			

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RIBBON BULB TYPE

ST025.4

ISSUE DATE 18-NOV-76



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 33 FROM BULB TOP)	0.35 TO 0.66
SIDE	(AT MAXIMUM DIAMETER)	0.25 MIN
TOP	(AT CENTRE TOP)	0.33 TO 1.14

STEM	INSIDE DIAMETER	13.1	MIN
FLARE	INSIDE DIAMETER	16.4	MIN
	OUTSIDE DIAM.	23.6	MAX

ALL DIMENSIONS ARE IN mm

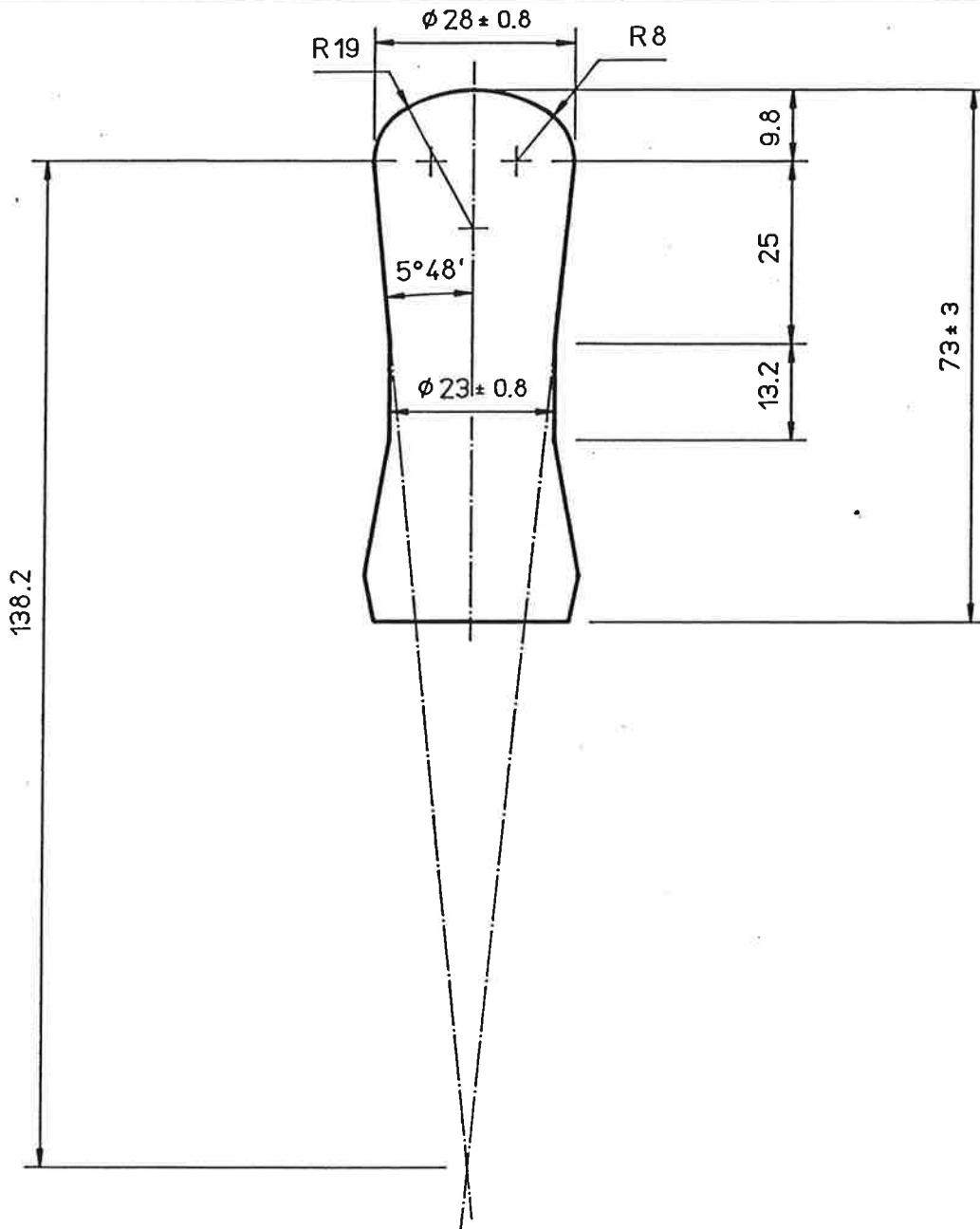
APPROVED BY	NO.	DATE	MODIFICATION	NO.	DATE	MODIFICATION
<i>[Signature]</i>	1	6-4-79	REVISED	3	11-1-91	DIMENSIONS REVIEWED
<i>[Signature]</i>	2	19-7-79	FLARE O/D WAS 24.23			

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RIBBON BULB TYPE

ST028

ISSUE DATE 24-MAY-50



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 42 FROM BULB TOP)	.46	TO	.89
SIDE	(AT MAXIMUM DIAMETER)	.51	MIN	
TOP	(AT CENTRE TOP)	.51	TO	1.52

STEM	INSIDE DIAMETER	20.6	MIN	
FLARE	INSIDE DIAMETER	22.1	MIN	OUTSIDE DIAM. 31.6 MAX.

ALL DIMENSIONS ARE IN mm

APPROVED BY	NO.	DATE	MODIFICATION	NO.	DATE	MODIFICATION
<i>[Signature]</i>	1	14-1-91	DIMENSIONS REVIEWED			
<i>[Signature]</i>						

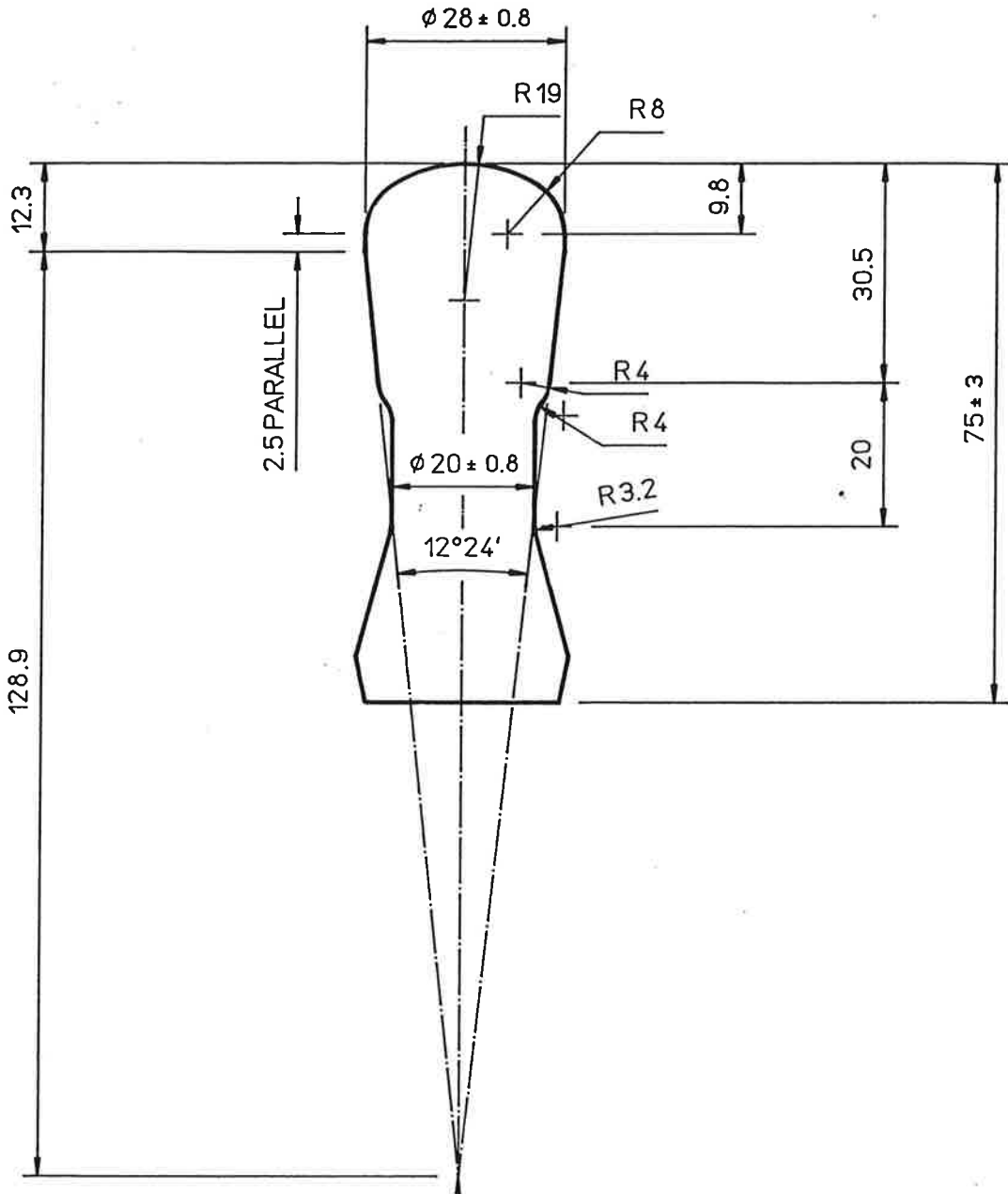
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RIBBON BULB TYPE

ST028E

ISSUE DATE

5-APR-57



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 39 FROM BULB TOP)	.40	TO	.75
SIDE	(AT MAXIMUM DIAMETER)	.51	MIN	
TOP	(AT CENTRE TOP)	.51	TO	1.52
<hr/>				
STEM	INSIDE DIAMETER	17.6	MIN	
FLARE	INSIDE DIAMETER	22.1	MIN	OUTSIDE DIAM.31.6 MAX.

ALL DIMENSIONS ARE IN mm

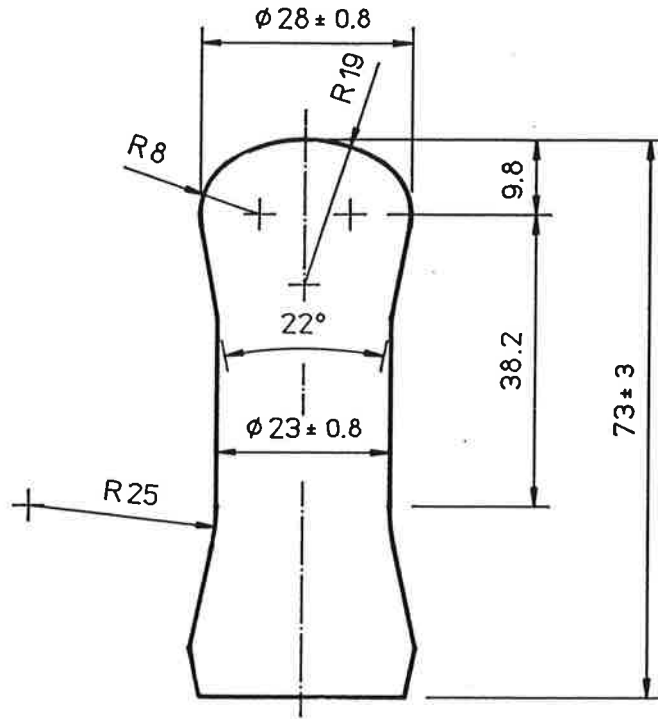
APPROVED BY	NO.	DATE	MODIFICATION	NO.	DATE	MODIFICATION
<i>[Signature]</i>	1	19-1-83	FLARE O/D WAS 30.51 MAX	3	17-11-92	NECK WALL THICKNESS
<i>C.W.H.</i>	2	14-1-91	DIMENSIONS REVIEWED			REDUCED.

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RIBBON BULB TYPE

ST028K

ISSUE DATE 20-DEC-77



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 42 FROM BULB TOP)	.46	TO	.89
SIDE	(AT MAXIMUM DIAMETER)	.51	MIN	
TOP	(AT CENTRE TOP)	.51	TO	1.52
STEM	INSIDE DIAMETER	20.6	MIN	
FLARE	INSIDE DIAMETER	22.1	MIN	OUTSIDE DIAM.30.5 MAX.

ALL DIMENSIONS ARE IN mm

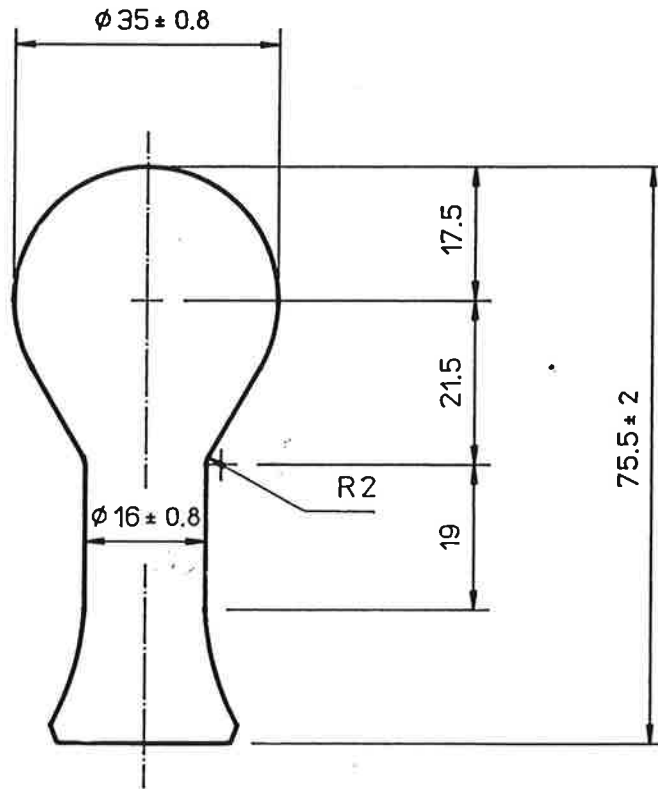
APPROVED BY	NO.	DATE	MODIFICATION	NO.	DATE	MODIFICATION
<i>[Signature]</i>	1	31-1-80	ANGLE WAS 20°			
<i>[Signature]</i>	2	15-1-91	DIMENSIONS REVIEWED			

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RIBBON BULB TYPE

ST035

ISSUE DATE 11-JUN-70



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 48 FROM BULB TOP)	.38	TO	.76
SIDE	(AT MAXIMUM DIAMETER)	.30	MIN	
TOP	(AT CENTRE TOP)	.51	TO	1.52
STEM	INSIDE DIAMETER	13.6	MIN	
FLARE	INSIDE DIAMETER	15.4	MIN	OUTSIDE DIAM. 26.0 MAX.

ALL DIMENSIONS ARE IN mm

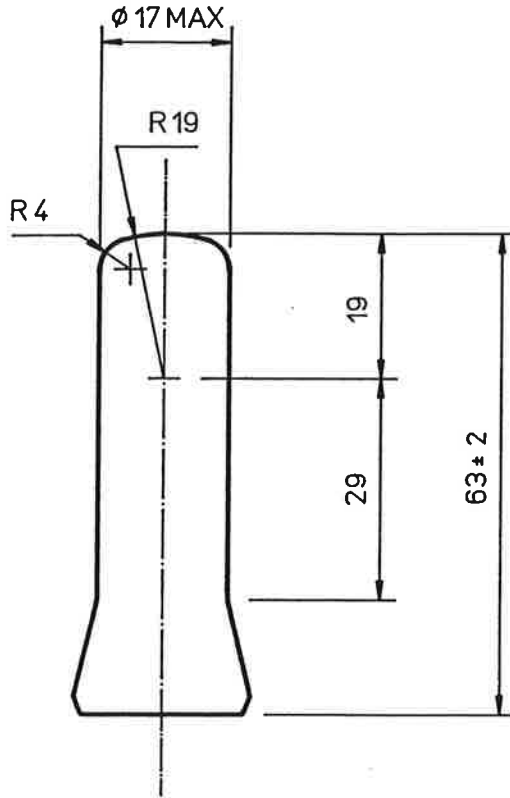
APPROVED BY	NO.	DATE	MODIFICATION	NO.	DATE	MODIFICATION
<i>[Signature]</i>	1	5-2-91	DIMENSIONS REVIEWED			
<i>[Signature]</i>						

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RIBBON BULB TYPE

T017

ISSUE DATE 14-OCT-52



WALL THICKNESS LIMITS & MEASURING POSITION

NECK

SIDE	(AT 40 FROM TOP)	.40	TO	.80
TOP	(AT CENTRE TOP)	.51	TO	1.52

STEM	INSIDE DIAMETER	14.6	MIN	
FLARE	INSIDE DIAMETER	15.4	MIN	OUTSIDE DIAM. 24.2 MAX.

ALL DIMENSIONS ARE IN mm

APPROVED BY	NO.	DATE	MODIFICATION	NO.	DATE	MODIFICATION
<i>[Signature]</i>	1	5-2-91	DIMENSIONS REVIEWED			
<i>[Signature]</i>						

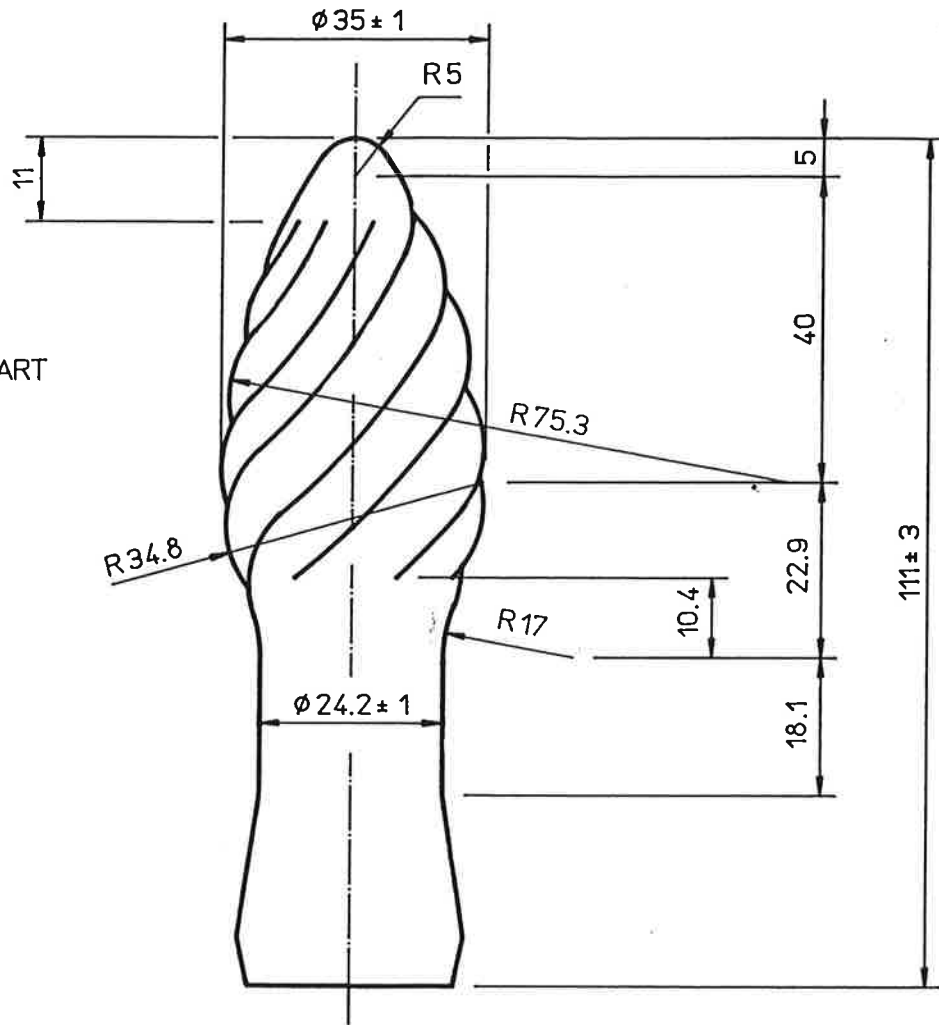
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RIBBON BULB TYPE

TC035B

ISSUE DATE 13-APR-77

FLUTES 8 START



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 76 FROM BULB TOP)	.38	TO	.76
SIDE	N/A			
TOP	(AT CENTRE TOP)	.40	MIN	

STEM	INSIDE DIAMETER	20.6	MIN	
FLARE	INSIDE DIAMETER	22.1	MIN	OUTSIDE DIAM. 32.2 MAX.

ALL DIMENSIONS ARE IN mm

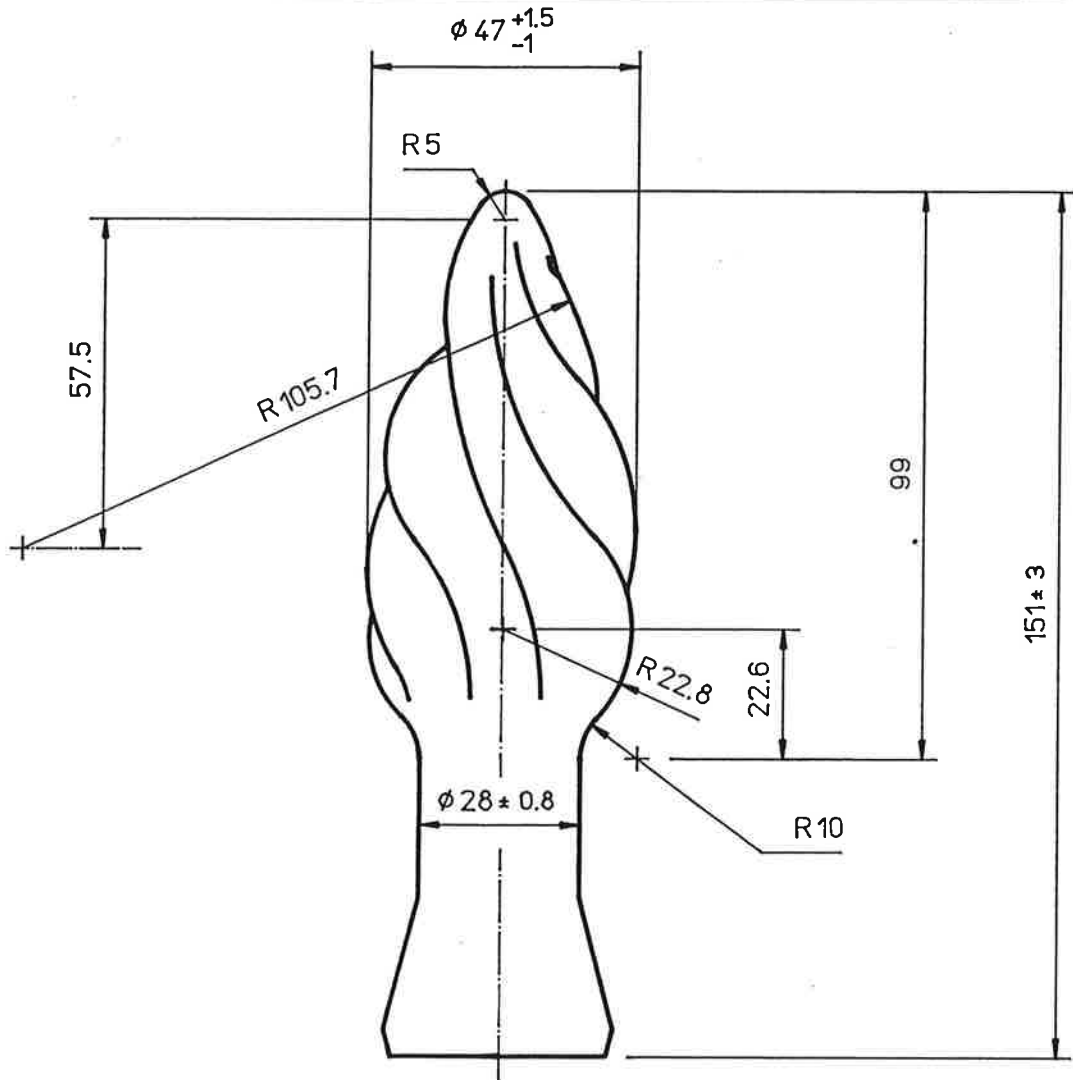
APPROVED BY	NO.	DATE	MODIFICATION	NO.	DATE	MODIFICATION
<i>[Signature]</i>	1	31-5-77	2nd PROPOSAL	2	17-1-91	DIMENSIONS REVIEWED
<i>[Signature]</i>			(PLAIN TOP)	3	27-3-91	DIMENSIONS REVIEWED

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RIBBON BULB TYPE

TC047

ISSUE DATE 11-SEP-62



WALL THICKNESS LIMITS & MEASURING POSITION

NECK (AT 104 FROM BULB TOP) .38 TO .76
 SIDE (AT MAXIMUM DIAMETER)
 TOP (AT CENTRE TOP)

STEM INSIDE DIAMETER 25.6 MIN
 FLARE INSIDE DIAMETER 32.0 MIN OUTSIDE DIAM. 41.4 MAX.

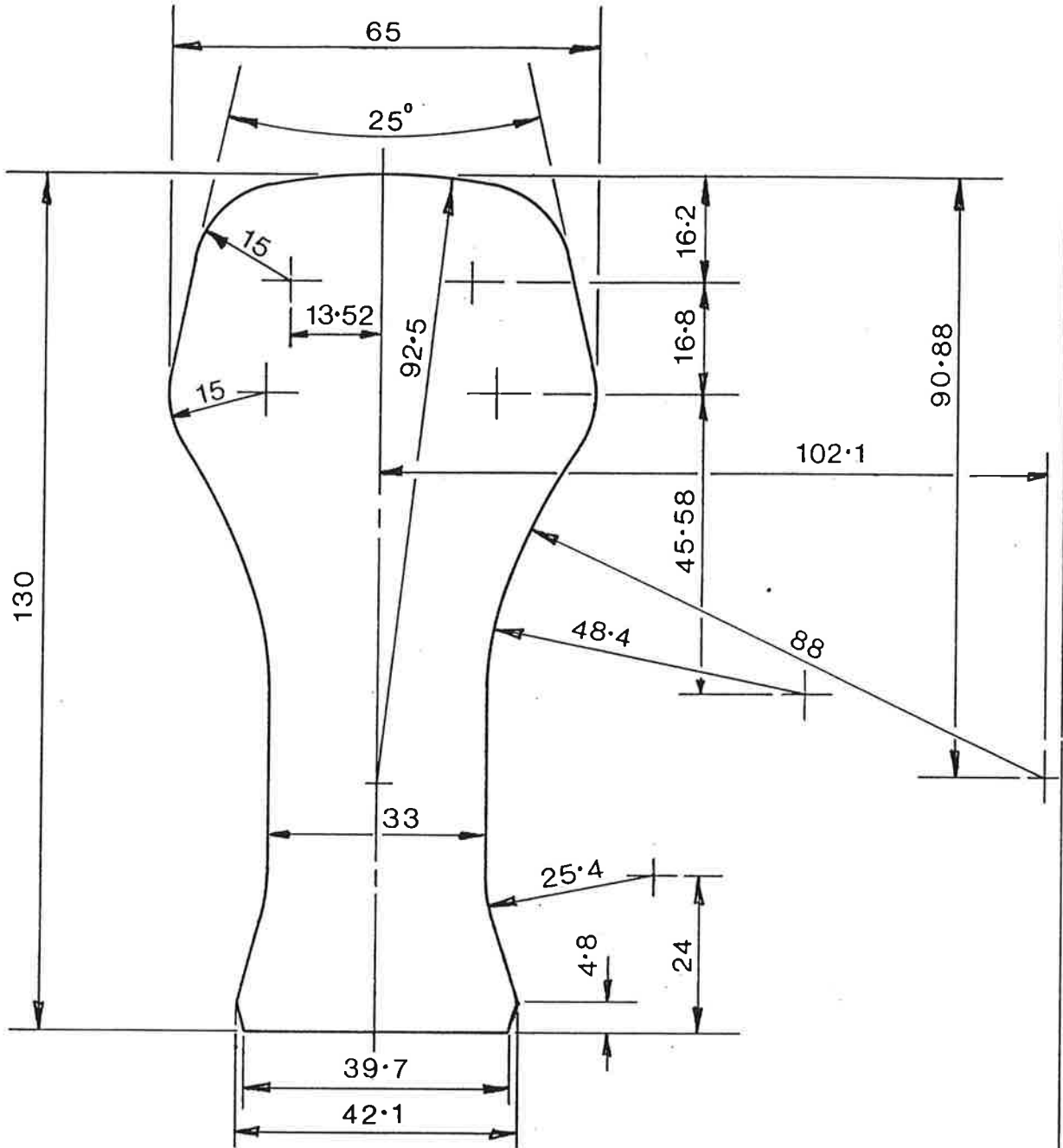
ALL DIMENSIONS ARE IN mm

APPROVED BY	NO.	DATE	MODIFICATION	NO.	DATE	MODIFICATION
<i>[Signature]</i>	1	12-12-72	RAD DIM ADDED			
<i>[Signature]</i>	2	25-2-88	FLARE TAPER CHANGED			

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Ribbon Bulb Type **DK 065**

Issued 2-9-82



— WALL THICKNESS LIMITS & MEASURING POSITION —

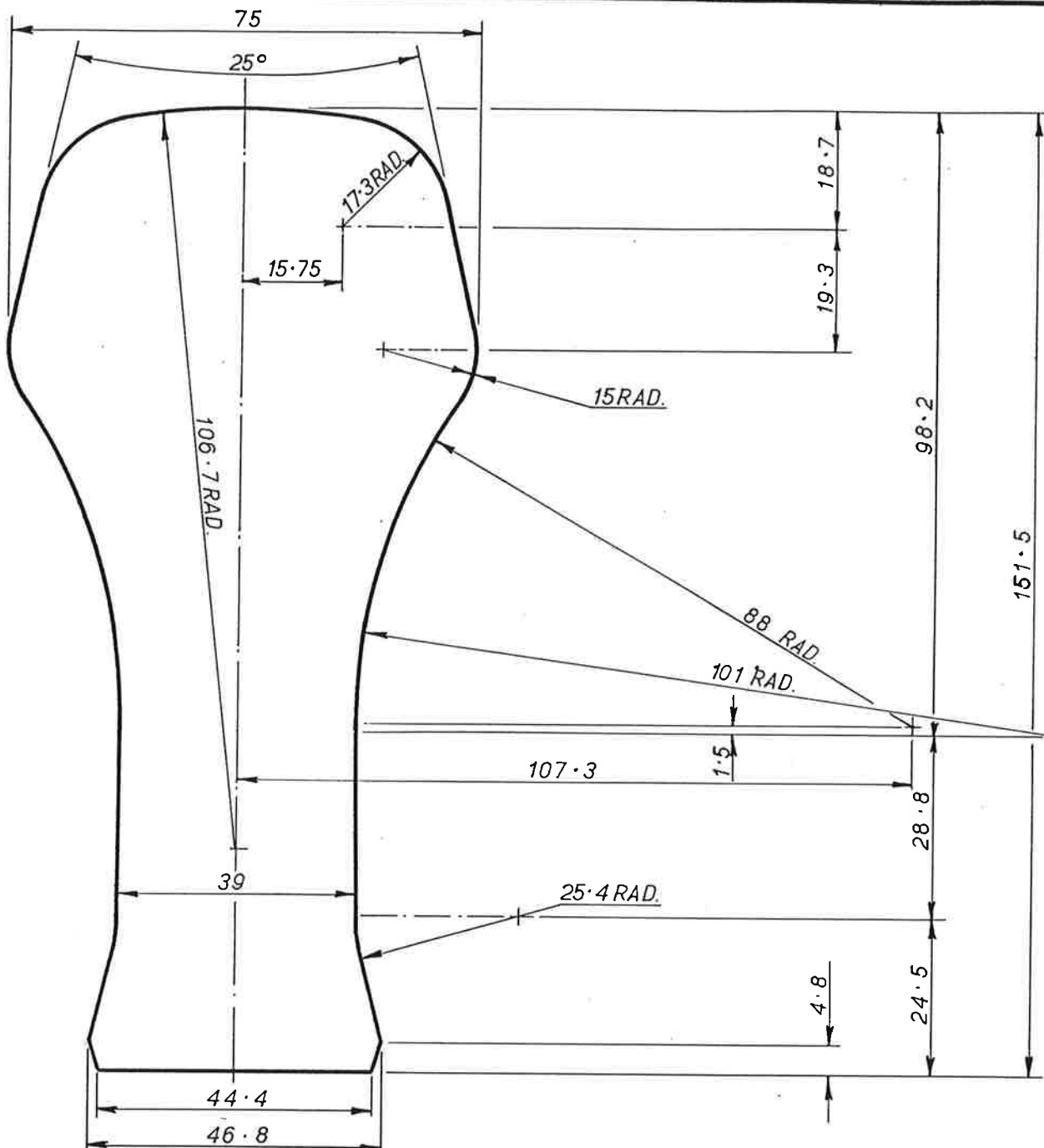
NECK	(at 92 from bulb top)	0.38 - 0.69
SIDE	(at maximum diameter)	0.35 min.
TOP	(at centre top)	0.51 - 1.20
STEM	Inside diameter	30.59 min.
	Outside diameter	max.
FLARE	Inside diameter	32.05 min.
	Outside diameter	43.28 max.
	Outside diameter	+/-
BULB	Length overall	130 +/- 3.17
	Calculated weight	gms.

— All dimensions are in millimeters —

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publication is accurate to the best of the knowledge of Glass Bulbs Limited, however the company does not accept any liability whatsoever in respect of any product described herein.

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ALL DIMENSIONS ARE IN MILLIMETRES ARE OUTSIDE AND FOR FINISHED BULBS

SPECIFICATION

WALL THICKNESS LIMITS IN MILLIMETRES

NECK .38 — .69

SIDE .35 Min.

TOP .51 — 1.20

WALL THICKNESS MEASURING POSITIONS

NECK Measure at 114 Millimetres from Top of Bulb

SIDE Measure at Maximum Diameter

TOP Measure at Centre Top

STEM inside Diameter 36.59 Millimetres Minimum

FLARE inside Diameter 36.83 Millimetres Minimum

FLARE outside Diameter 48.24 Millimetres Maximum

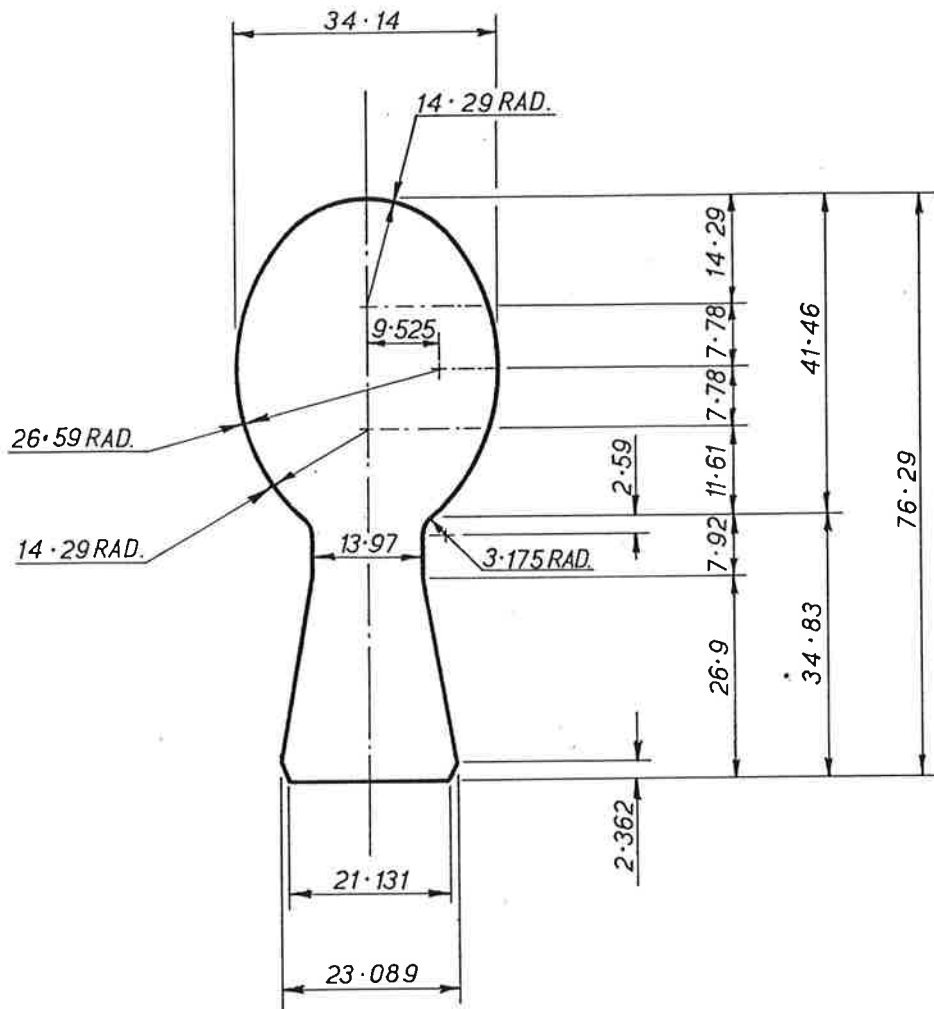
BULB LENGTH 151.5 ± 3.17 Millimetres

APPROVED

REVISED

REVISED

REVISED



ALL DIMENSIONS ARE IN MILLIMETRES ARE OUTSIDE AND FOR FINISHED BULBS

SPECIFICATION

WALL THICKNESS LIMITS IN MILLIMETRES

NECK	.406	.838
SIDE	.305	.813
TOP	.381	1.270

WALL THICKNESS MEASURING POSITIONS

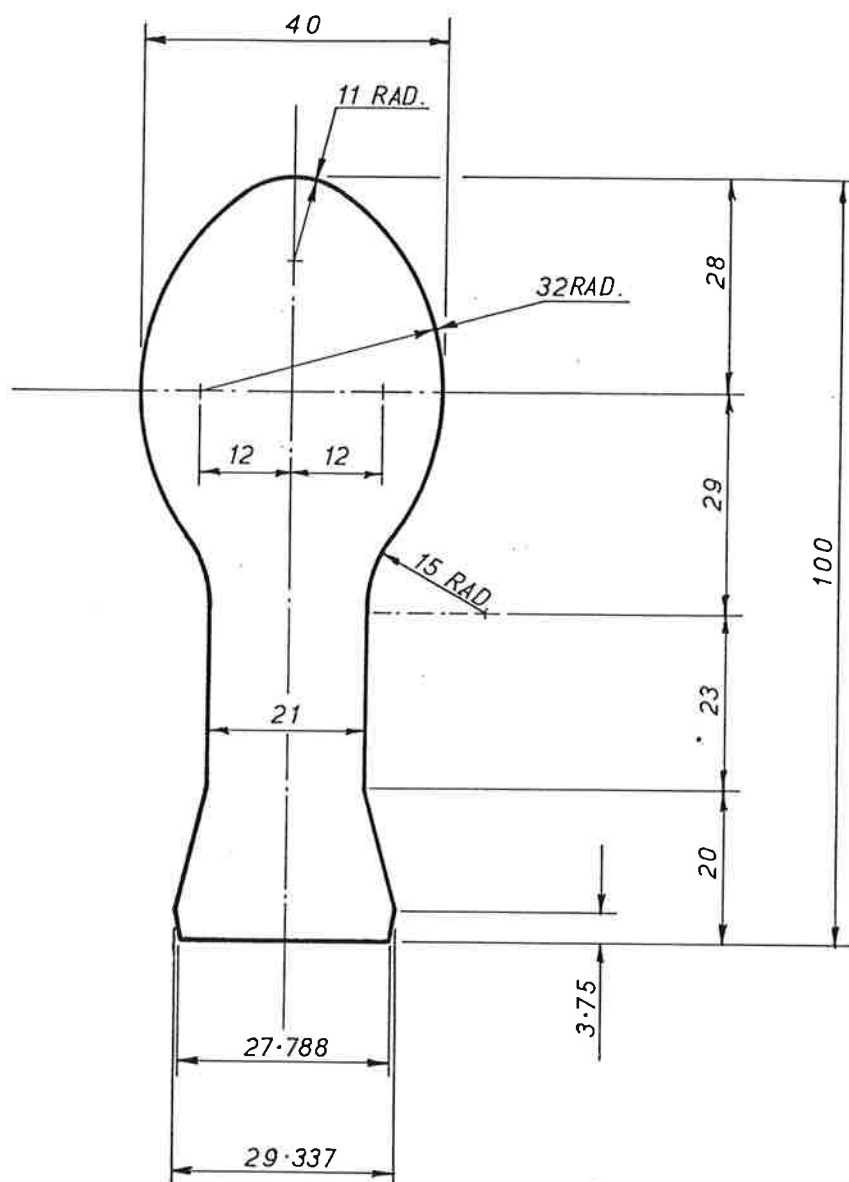
NECK Measure at 48 Millimetres from Top of Bulb
 SIDE Measure at Maximum Diameter
 TOP Measure at Centre Top

STEM inside Diameter	11.807	Millimetres Minimum
FLARE inside Diameter	15.418	Millimetres Minimum
FLARE outside Diameter	26.000	Millimetres Maximum

BULB LENGTH 76.29 ± 3.17 Millimetres

AS NECK THICKNESS IS CRITICAL EFFORTS SHOULD BE MADE TO KEEP THIS AS LOW AS POSSIBLE—BELOW .7 Millimetres

APPROVED <i>[Signature]</i>	REVISED 26.000 WAS 24.232 21.6.73	REVISED	REVISED
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ALL DIMENSIONS ARE IN MILLIMETRES ARE OUTSIDE AND FOR FINISHED BULBS

SPECIFICATION

WALL THICKNESS LIMITS IN MILLIMETRES

NECK .30 .65

SIDE .30 Min.

TOP .4 1.4

WALL THICKNESS MEASURING POSITIONS

NECK Measure at 67 Millimetres from Top of Bulb

SIDE Measure at Maximum Diameter

TOP Measure at Centre Top

STEM inside Diameter 18.59 Millimetres Minimum

FLARE inside Diameter 22.07 Millimetres Minimum

FLARE outside Diameter 30.51 Millimetres Maximum

BULB LENGTH 100 ± 3.17 Millimetres

BULB O.D. 40mm. ± 1 m.m.

APPROVED

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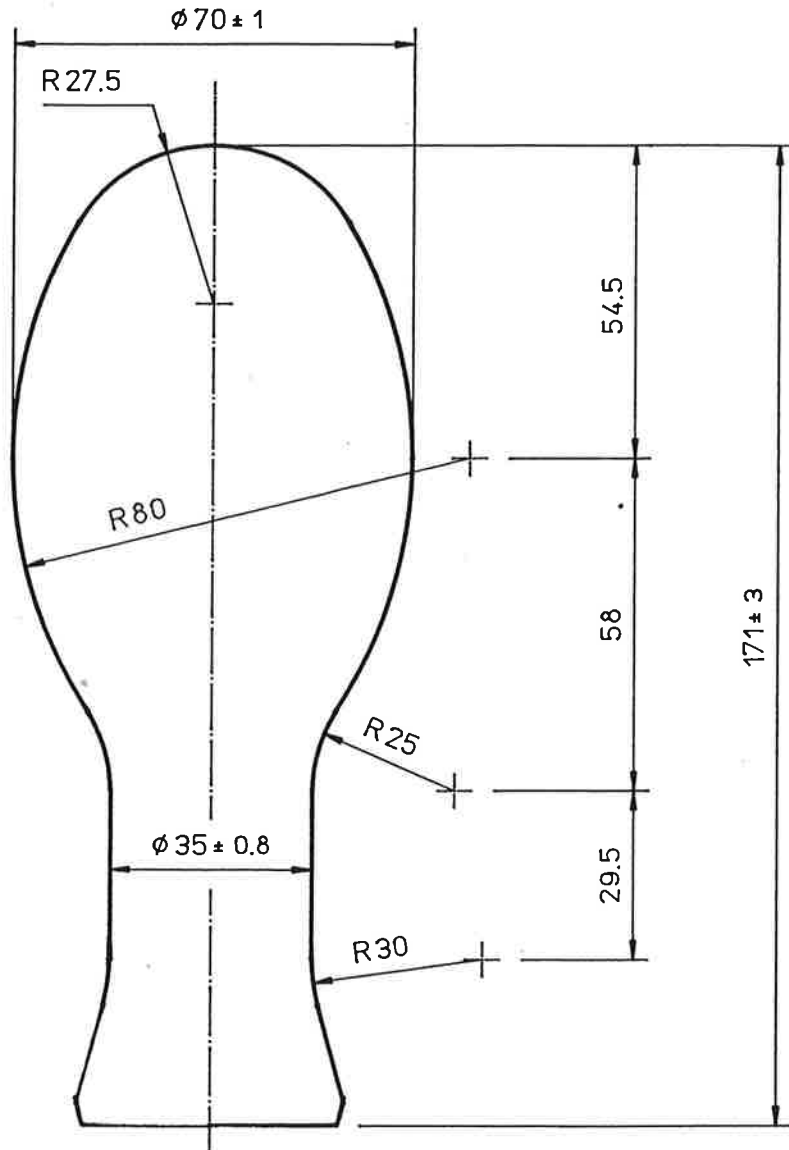
REVISED

REVISED

RIBBON BULB TYPE

E070A

ISSUE DATE 2-Aug-90



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 130 FROM BULB TOP)	.41	TO	.76
SIDE	(AT MAXIMUM DIAMETER)	.38		
TOP	(AT CENTRE TOP)	.51	TO	1.52

STEM	INSIDE DIAMETER	32.6	MIN	
FLARE	INSIDE DIAMETER	36.8	MIN	OUTSIDE DIAM. 50.9 MAX.

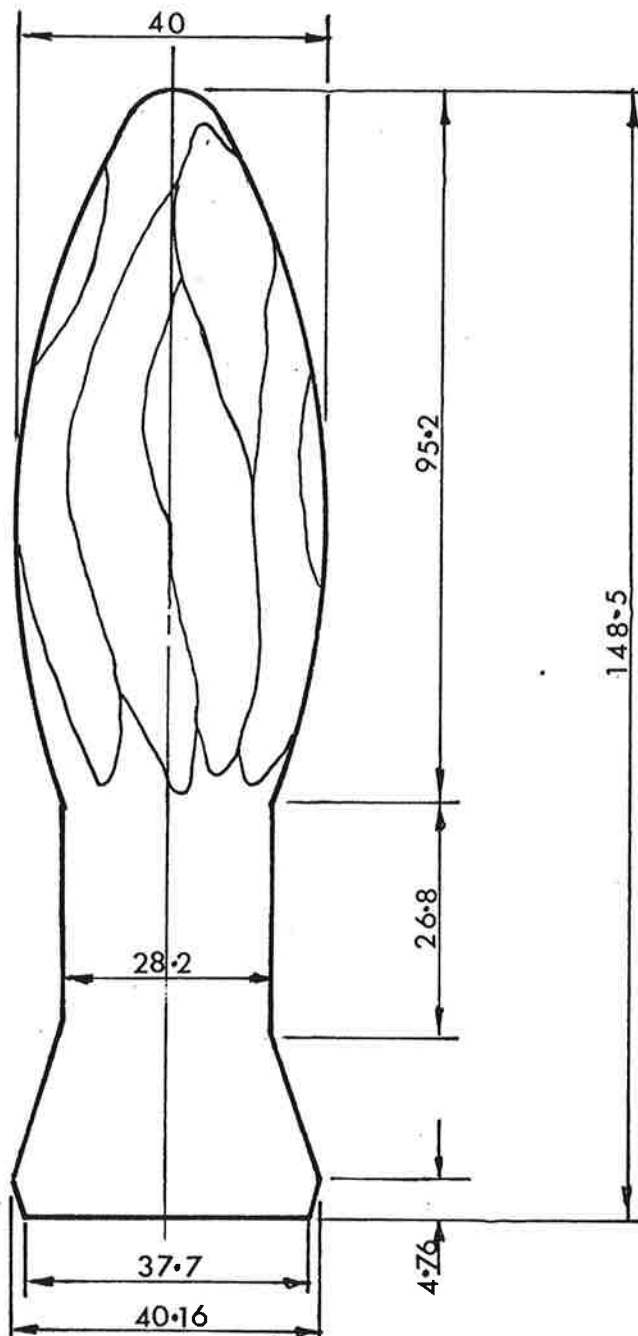
ALL DIMENSIONS ARE IN mm APPROX. WT - gms

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APPROVED BY	<i>[Signature]</i>						

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Ribbon Bulb Type FB040

Issued 16-1-89



— WALL THICKNESS LIMITS & MEASURING POSITION —

NECK-38--76 (at 110 from bulb top)

SIDE — (at maximum diameter)

TOP — (at centre top)

STEM Inside diameter 25.59 min.
Outside diameter — max.

FLARE Inside diameter 31.97 min.
Outside diameter 41.36 max.

BULB Outside diameter — +
Length overall 148.5 + 3
Calculated weight gms.

— All dimensions are in millimeters —

Approved

Revised

Revised

Revised

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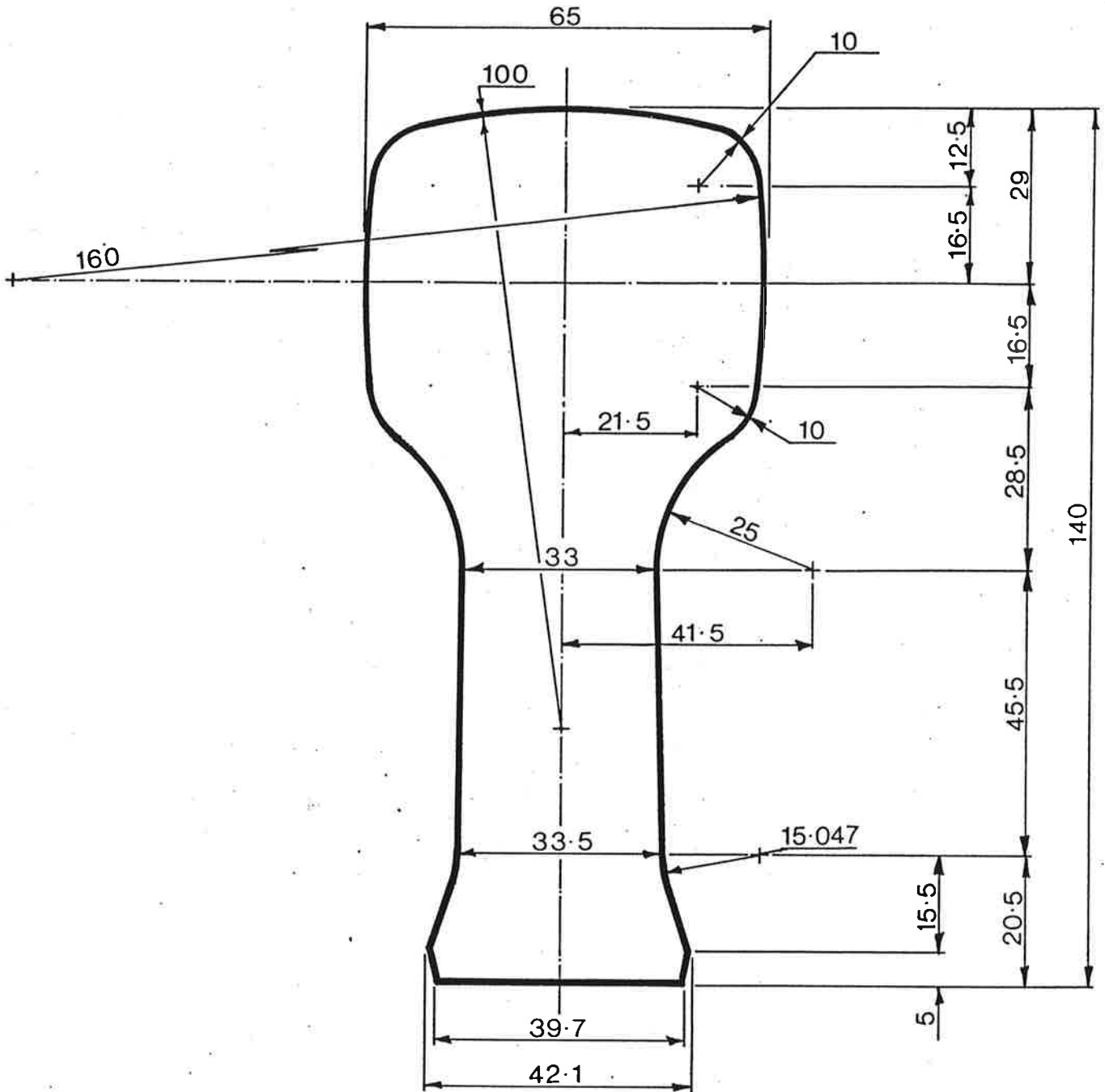
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Data contained in this —ever in respect of the

Ribbon Bulb Type

H 065

Issued 31. 12 . 68



— WALL THICKNESS LIMITS & MEASURING POSITION —

NECK	(at 77 from bulb top)	.38 — .72
SIDE	(" 40 " ")	.40
TOP	(at periphery of 15 from centre)	60 — 1.55
STEM	Inside diameter	30.5 min.
	Outside diameter	max.
FLARE	Inside diameter	32.05 min.
	Outside diameter	48.24 max.
BULB	Outside diameter	65 ±1.0
	Length overall	140 ±3.17
	Calculated weight	33 gms.

— All dimensions are in millimeters —

Approved

Revised 20-12-72

1.3.76

Revised

Revised

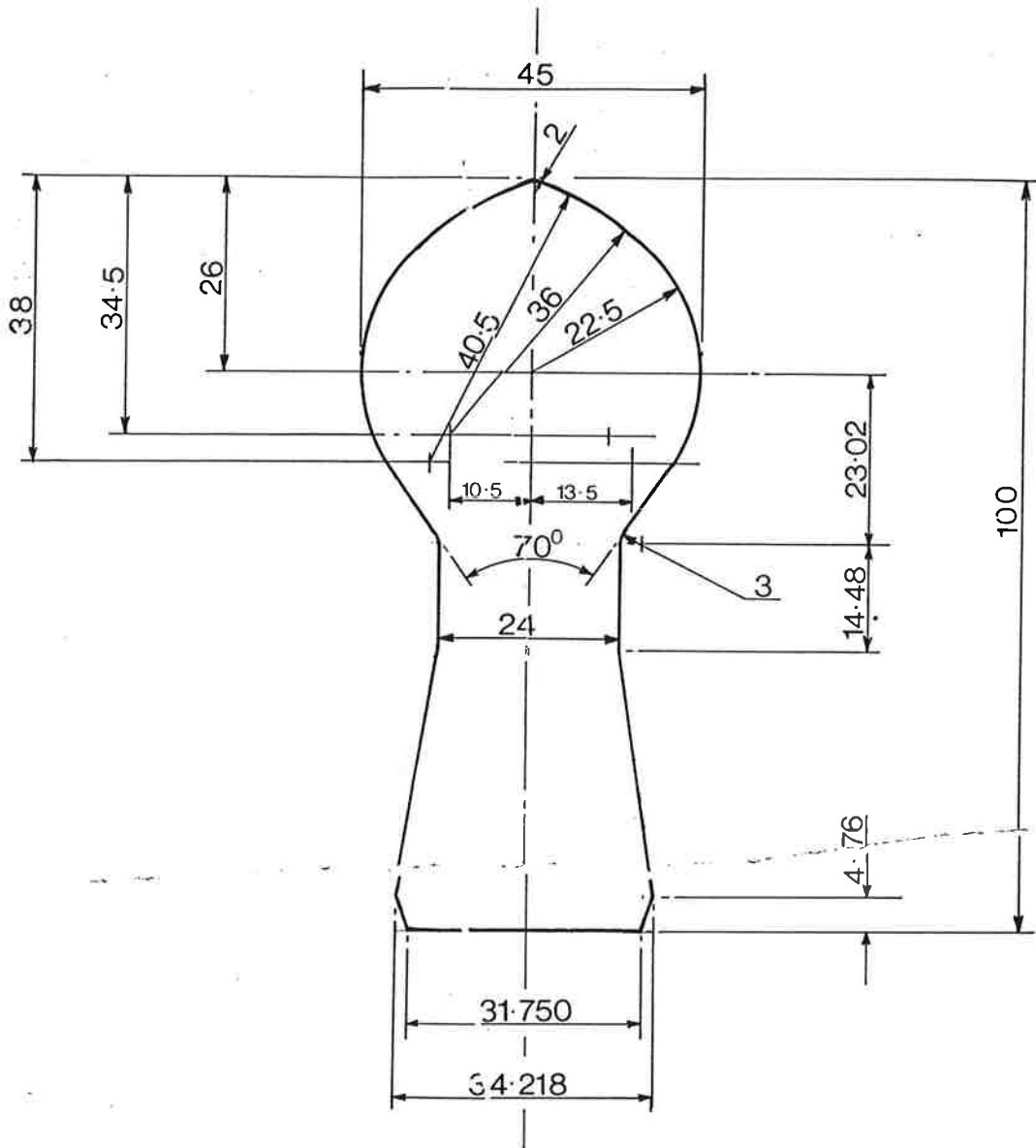
Dome rad. was 160

NECK WAS 35 FROM TOP.

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Ribbon Bulb Type **LS 045/A**

Issued 17.9.79



—WALL THICKNESS LIMITS & MEASURING POSITION—

NECK	(at	from bulb top)	.41	—	.84
SIDE	(at maximum diameter)		.30	—	.81
TOP	(at centre top)		.38	—	1.27
STEM	Inside diameter		21.59	min.	
	Outside diameter			max.	
FLARE	Inside diameter		25.817	min.	
	Outside diameter		36.20	max.	
BULB	Outside diameter		45	± 1.0	
	Length overall		100	± 3.17	
	Calculated weight				gms.

— All dimensions are in millimeters —

Approved

Revised

Revised

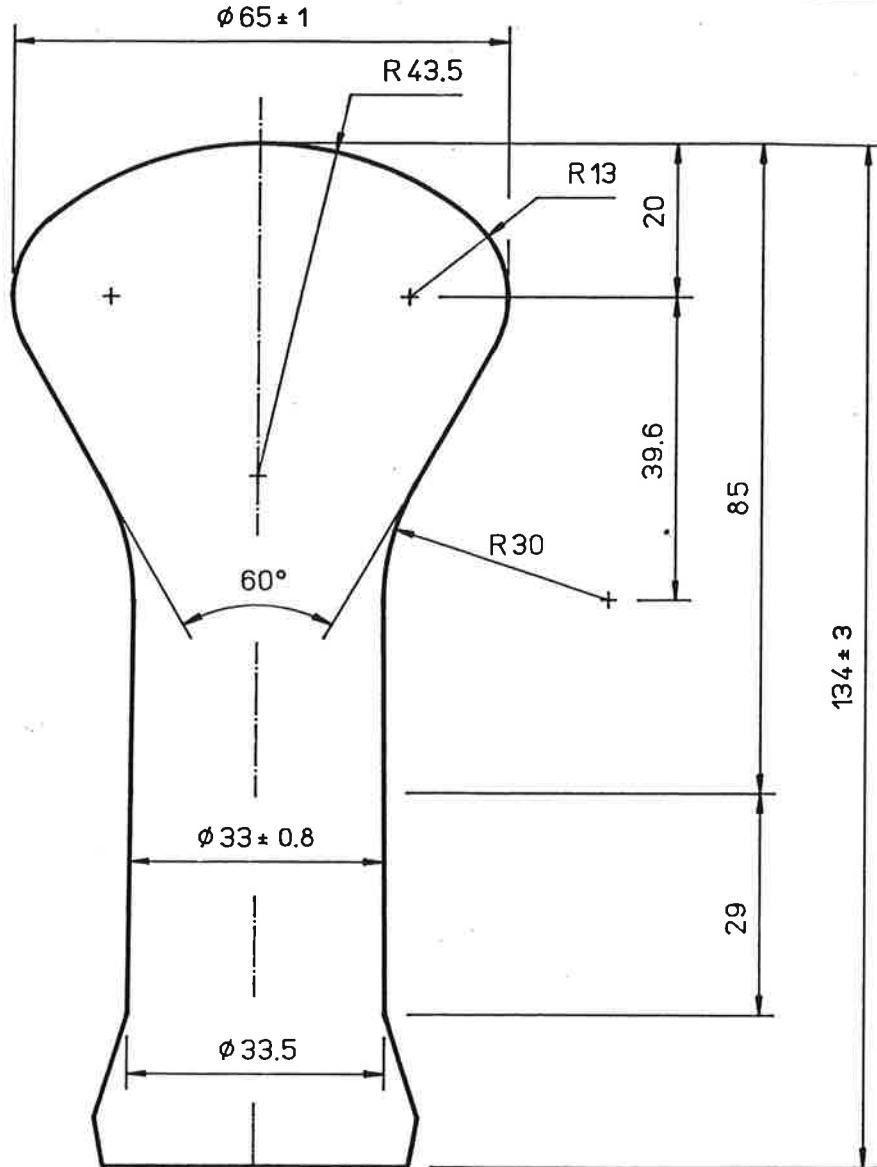
Revised

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RIBBON BULB TYPE

M065

ISSUE DATE 26-Nov-65



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 85 FROM BULB TOP)	.41	TO	.76
SIDE	(AT MAXIMUM DIAMETER)	.38	MIN	
TOP	(AT CENTRE TOP)	.51	TO	1.52

STEM	INSIDE DIAMETER	30.6	MIN	
FLARE	INSIDE DIAMETER	32.1	MIN	OUTSIDE DIAM. 43.3 MAX.

ALL DIMENSIONS ARE IN mm

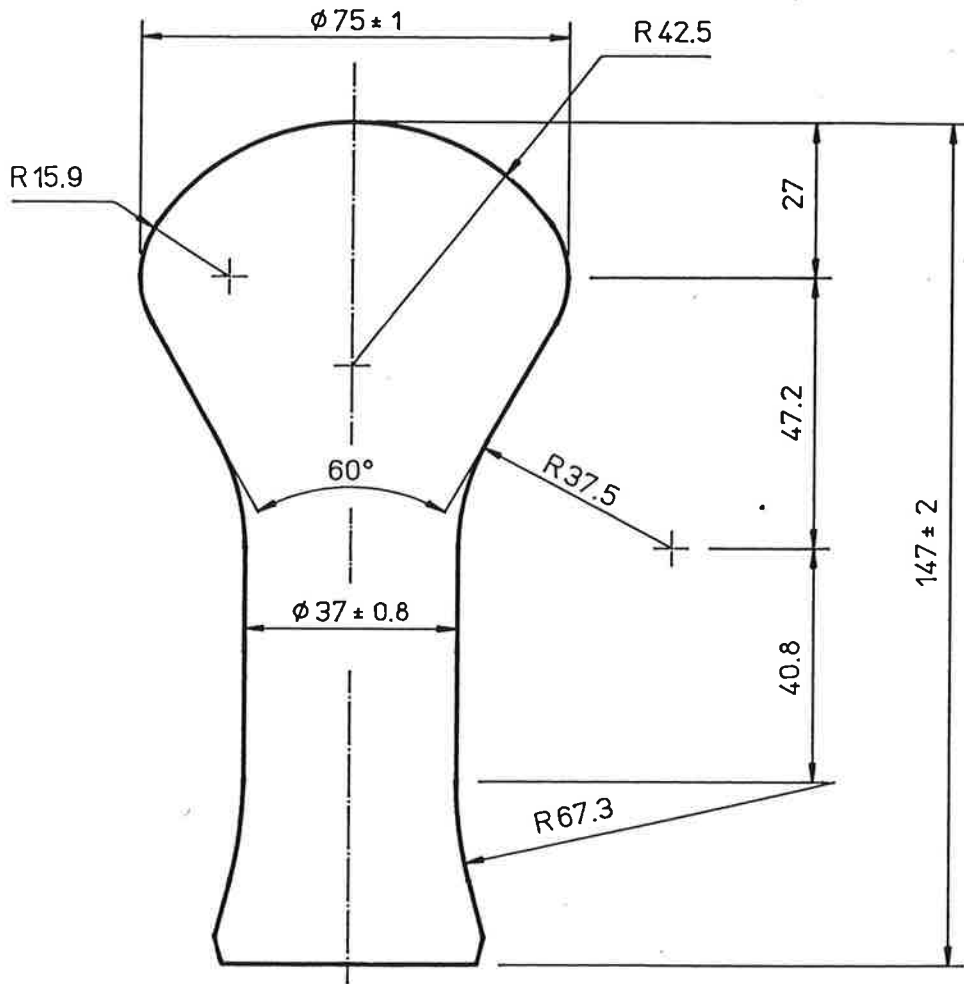
APPROVED BY <i>[Signature]</i>	NO.	DATE	MODIFICATION	NO.	DATE	MODIFICATION
APPROVED BY <i>[Signature]</i>	1	26.2.91	DIMENSIONS REVIEWED			

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RIBBON BULB TYPE

M075A

ISSUE DATE 6-OCT-69



WALL THICKNESS LIMITS & MEASURING POSITION

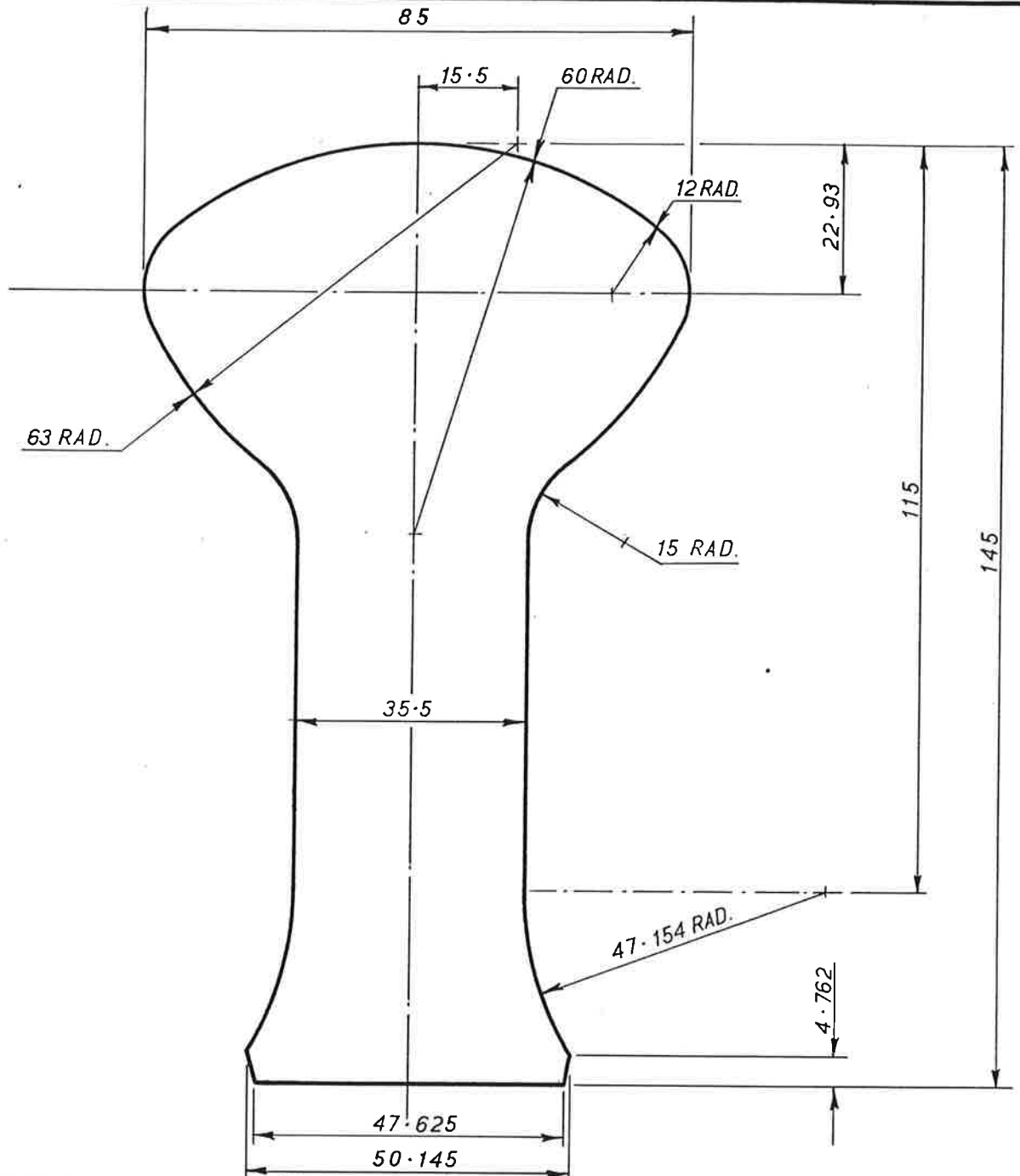
NECK	(AT 90 FROM BULB TOP)	.38	TO	.76
SIDE	(AT MAXIMUM DIAMETER)	.38	MIN	
TOP	(AT CENTRE TOP)	.51	TO	1.52

STEM	INSIDE DIAMETER	34.6	MIN	
FLARE	INSIDE DIAMETER	36.8	MIN	OUTSIDE DIAM. 48.2 MAX.

ALL DIMENSIONS ARE IN mm

APPROVED BY <i>[Signature]</i>	NO.	DATE	MODIFICATION	NO.	DATE	MODIFICATION
APPROVED BY <i>[Signature]</i>	1	16-1-91	DIMENSIONS REVIEWED			

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ALL DIMENSIONS ARE IN MILLIMETRES ARE OUTSIDE AND FOR FINISHED BULBS

SPECIFICATION

WALL THICKNESS LIMITS IN MILLIMETRES

NECK	.45	1.04
SIDE	.35	.71
TOP	1.00	2.55

WALL THICKNESS MEASURING POSITIONS

NECK Measure at 90 Millimetres from Top of Bulb
 SIDE Measure at Maximum Diameter
 TOP Measure at Centre Top

STEM	inside Diameter	33.09	Millimetres Minimum
FLARE	inside Diameter	40.00	Millimetres Minimum
FLARE	outside Diameter	57.50	Millimetres Maximum
BULB LENGTH		145 ± 3.17	Millimetres

APPROVED

REVISED

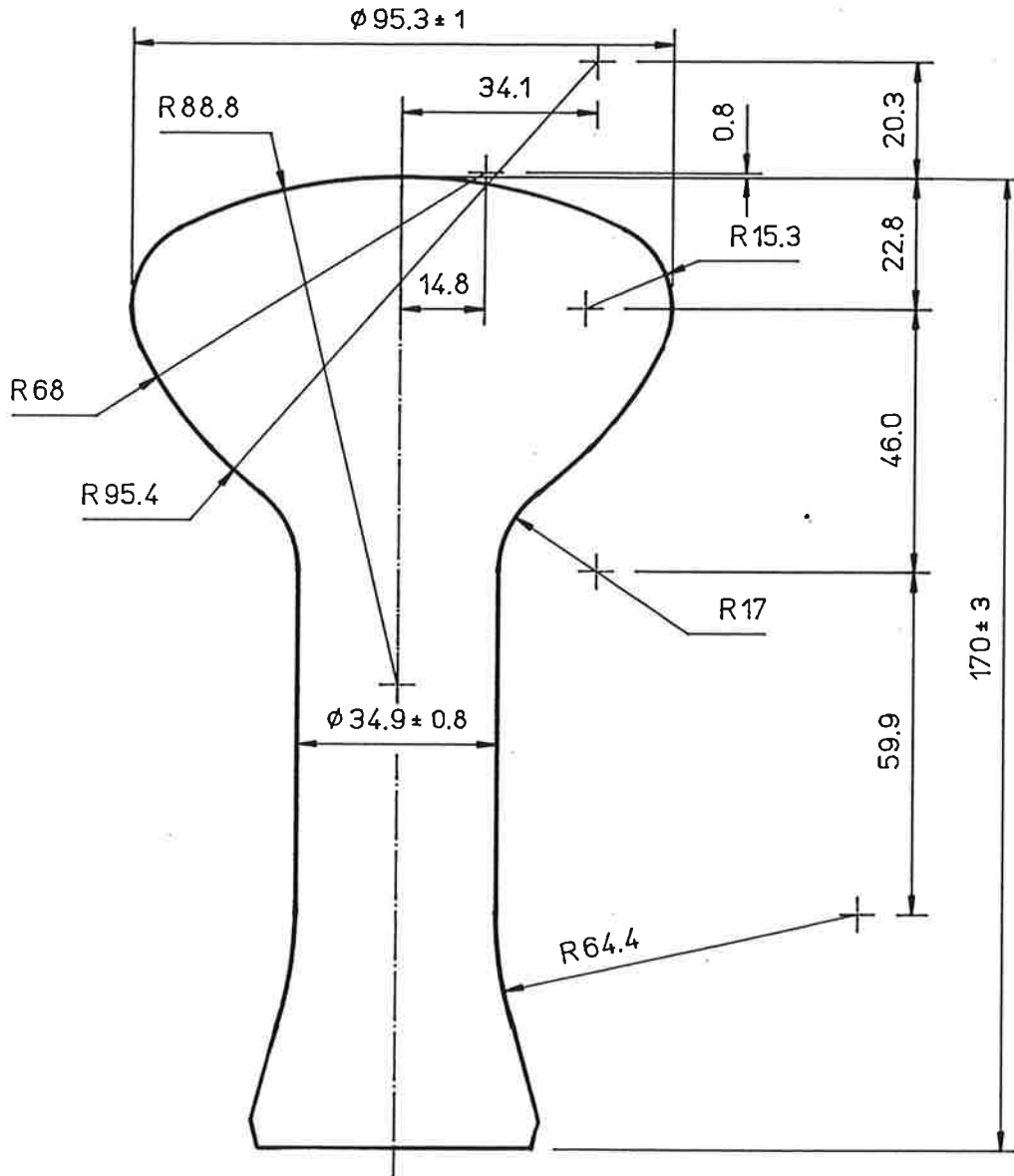
REVISED

REVISED

RIBBON BULB TYPE

M095A

ISSUE DATE 2-Dec-83



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 115 FROM BULB TOP)	.48	TO	1.09
SIDE	(AT MAXIMUM DIAMETER)	.38		
TOP	(AT CENTRE TOP)	1.00	TO	2.55

STEM	INSIDE DIAMETER	32.5	MIN	
FLARE	INSIDE DIAMETER	40.0	MIN	OUTSIDE DIAM. 52.0 MAX.

ALL DIMENSIONS ARE IN mm

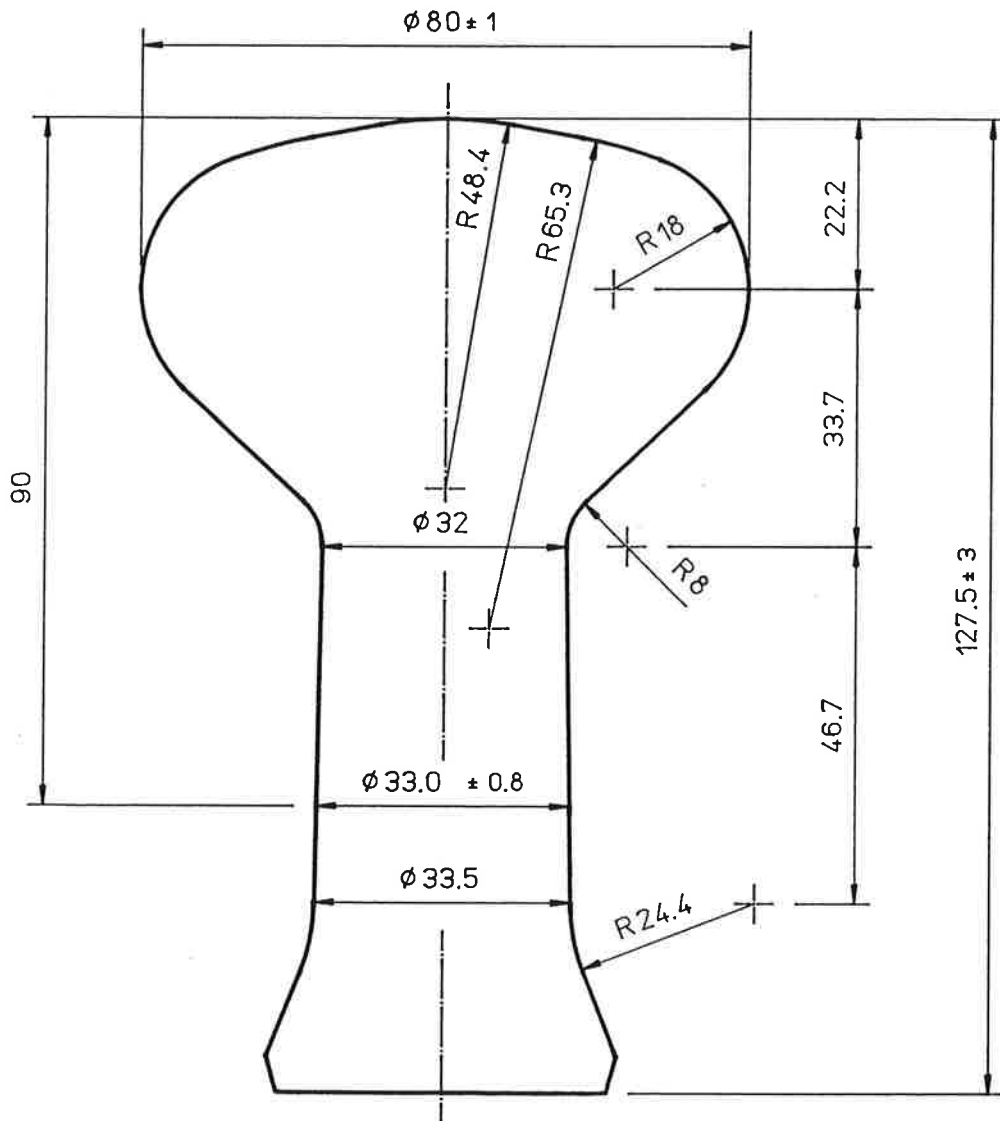
APPROVED BY <i>[Signature]</i>	NO.	DATE	MODIFICATION	NO.	DATE	MODIFICATION
APPROVED BY <i>[Signature]</i>						

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RIBBON BULB TYPE

O080A

ISSUE DATE 4-April-91



WALL THICKNESS LIMITS & MEASURING POSITION

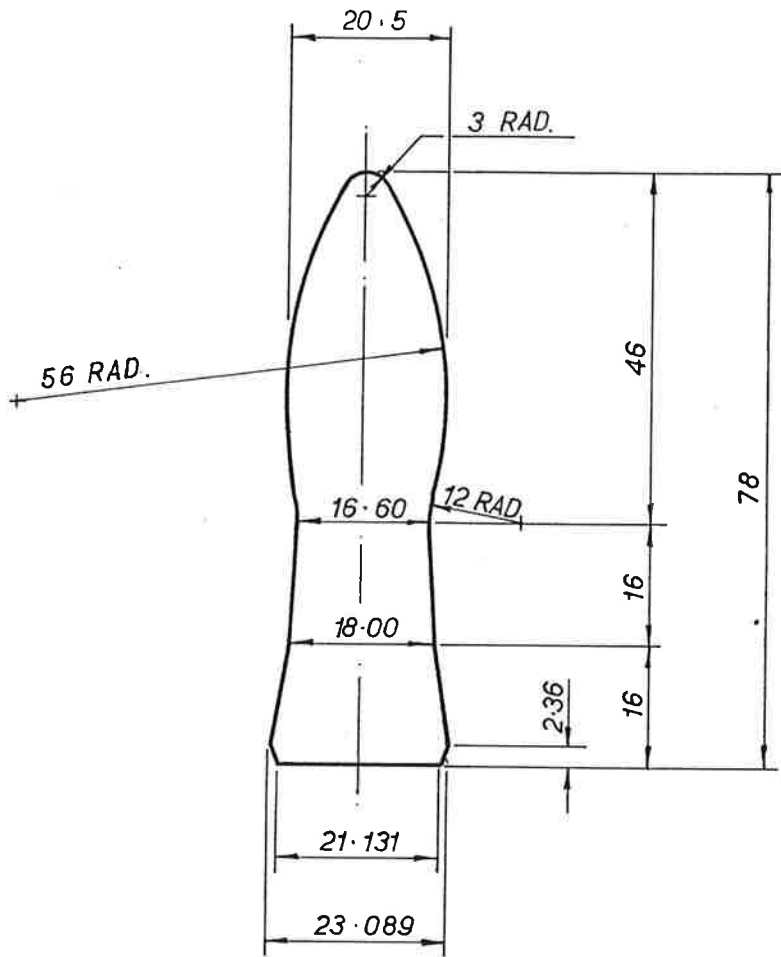
NECK	(AT 90 FROM BULB TOP)	0.41 TO 0.76
SIDE	(AT MAXIMUM DIAMETER)	0.38 MIN
TOP	(AT CENTRE TOP)	0.60 TO 1.70

STEM	INSIDE DIAMETER	29.6 MIN
FLARE	INSIDE DIAMETER	35.6 MIN
	OUTSIDE DIAM.	47 MAX.

ALL DIMENSIONS ARE IN mm

APPROVED BY	NO.	DATE	MODIFICATION	NO.	DATE	MODIFICATION
<i>[Signature]</i>						
<i>[Signature]</i>						

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ALL DIMENSIONS ARE IN MILLIMETRES ARE OUTSIDE AND FOR FINISHED BULBS

SPECIFICATION

WALL THICKNESS LIMITS IN MILLIMETRES

NECK	.30	.75
SIDE	.30	.75
TOP	.40	1.40

WALL THICKNESS MEASURING POSITIONS

NECK Measure at 54 Millimetres from Top of Bulb
 SIDE Measure at Maximum Diameter
 TOP Measure at Centre Top

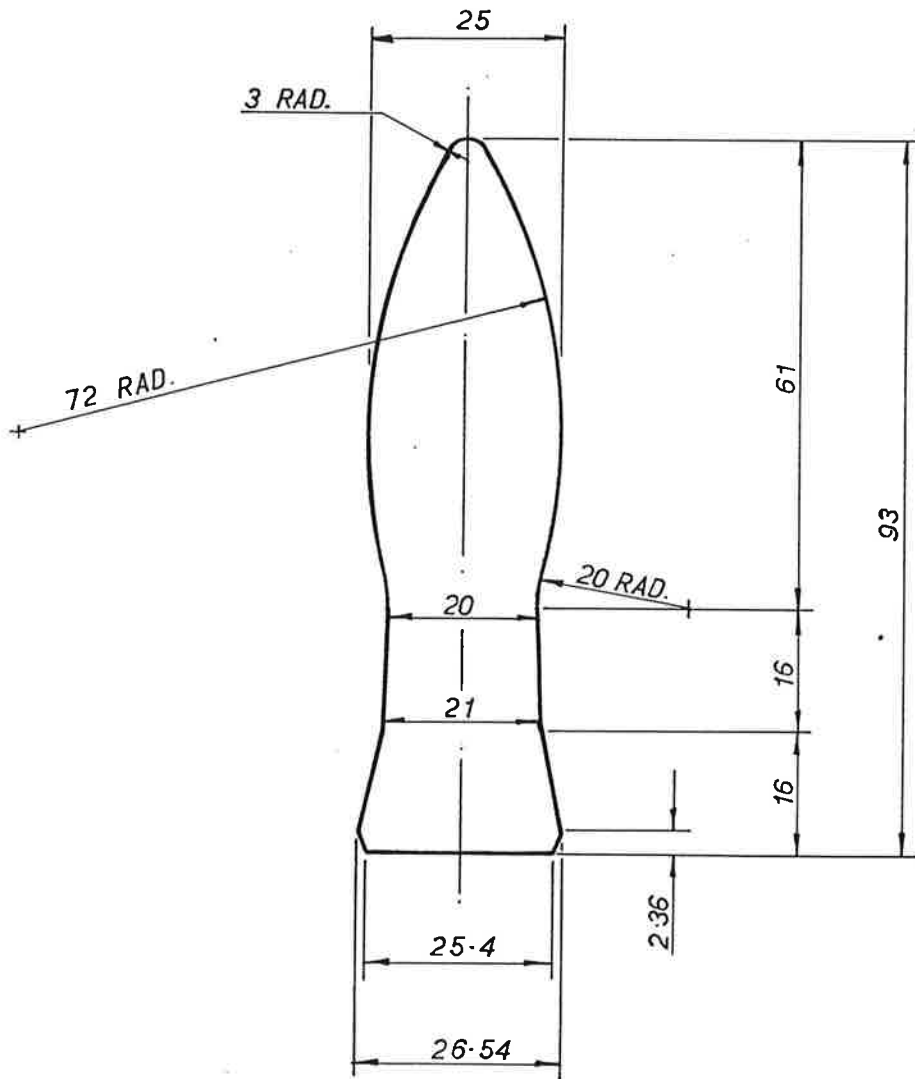
STEM inside Diameter	14.19	Millimetres Minimum
FLARE inside Diameter	15.42	Millimetres Minimum
FLARE outside Diameter	26.00	Millimetres Maximum
BULB LENGTH	78 ± 3.17	Millimetres

APPROVED
[Signature]

7-8-68
 REVISION 15-59
 STEM I.D. WAS

REVISION

REVISION



ALL DIMENSIONS ARE IN MILLIMETRES ARE OUTSIDE AND FOR FINISHED BULBS

SPECIFICATION

WALL THICKNESS LIMITS IN MILLIMETRES

NECK	.30	.75
SIDE	.30	.75
TOP	.40	1.40

WALL THICKNESS MEASURING POSITIONS

NECK Measure at 69 Millimetres from Top of Bulb
 SIDE Measure at Maximum Diameter
 TOP Measure at Centre Top

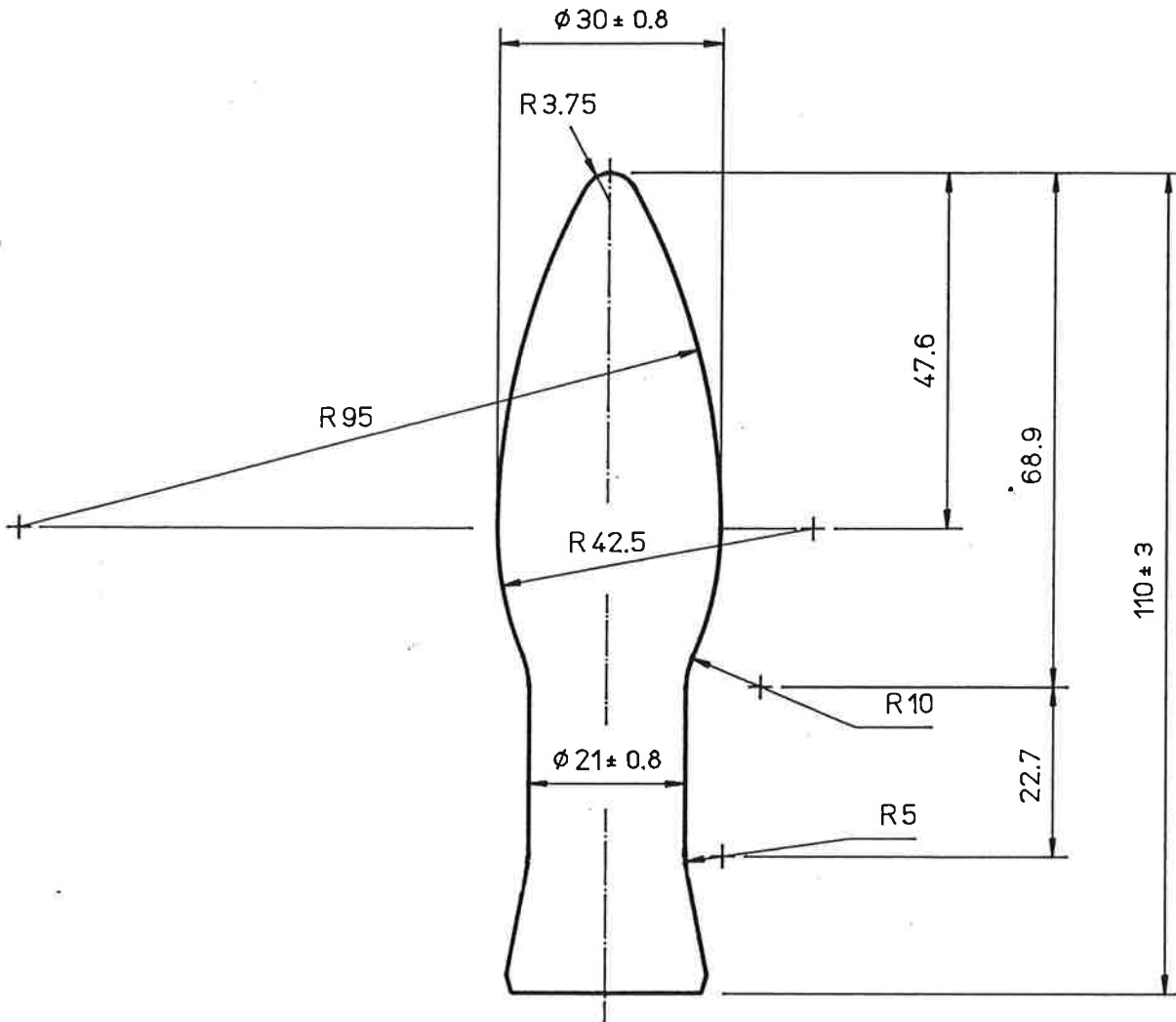
STEM	inside Diameter	17.59	Millimetres	Minimum
FLARE	inside Diameter	19.68	Millimetres	Minimum
FLARE	outside Diameter	28.04	Millimetres	Maximum
BULB LENGTH		93 ± 3.17	Millimetres	

APPROVED <i>[Signature]</i>	REVISED	REVISED	REVISED
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RIBBON BULB TYPE

OC030

ISSUE DATE 27-OCT-70



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 75 FROM BULB TOP)	.30	TO	.75
SIDE	(AT MAXIMUM DIAMETER)	.30	MIN	
TOP	(AT CENTRE TOP)	.40	TO	1.40
STEM	INSIDE DIAMETER	18.5	MIN	
FLARE	INSIDE DIAMETER	19.7	MIN	OUTSIDE DIAM. 28.0 MAX.

ALL DIMENSIONS ARE IN mm

APPROVED BY <i>[Signature]</i>	NO. 1	DATE 20-3-91	MODIFICATION DIMENSIONS REVIEWED	NO.	DATE	MODIFICATION
APPROVED BY <i>[Signature]</i>						

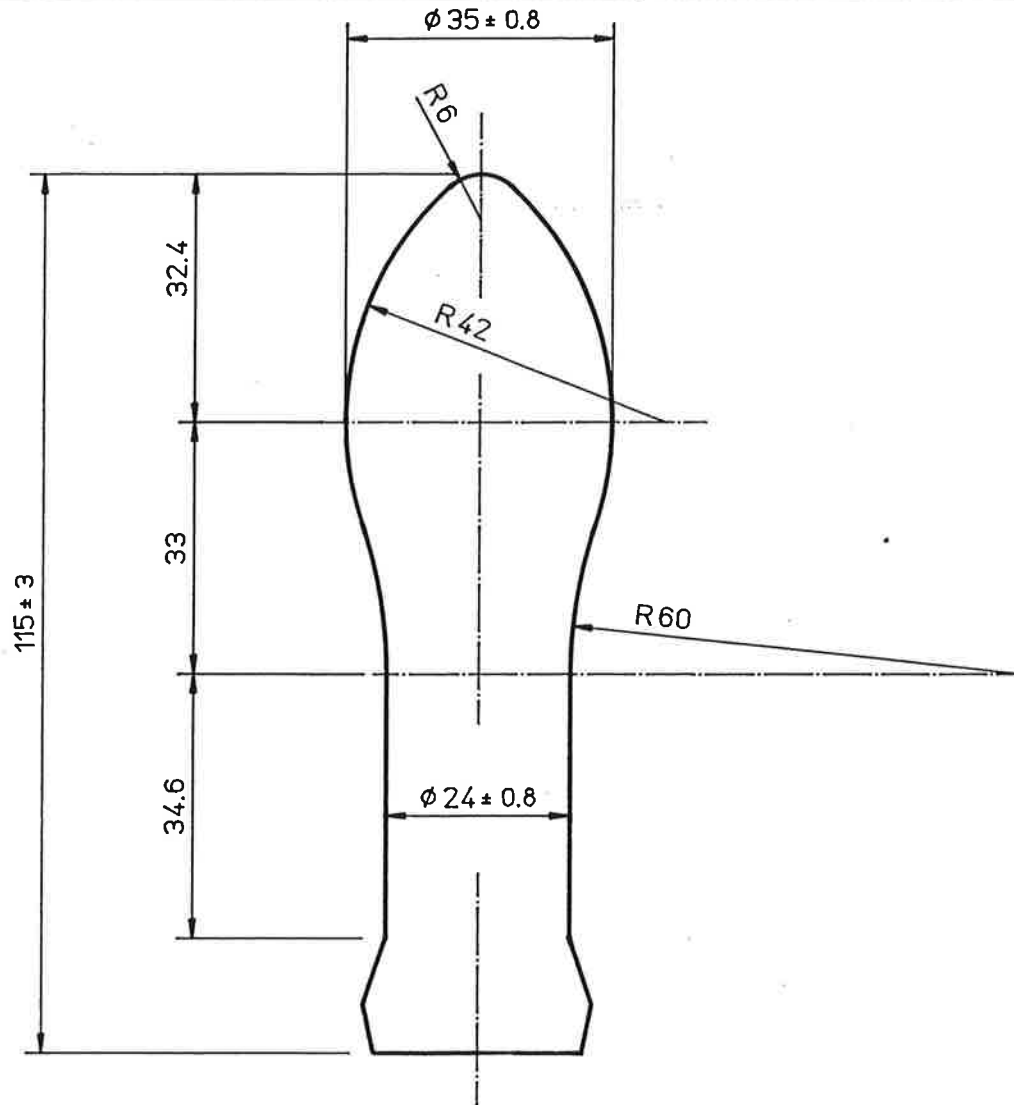
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RIBBON BULB TYPE

OC035A

ISSUE DATE

12-Jun-64



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 76 FROM BULB TOP)	.38	TO	.76
SIDE	(AT MAXIMUM DIAMETER)	.30	MIN.	
TOP	(AT CENTRE TOP)	.51	TO	1.52

STEM	INSIDE DIAMETER	21.6	MIN	
FLARE	INSIDE DIAMETER	22.1	MIN	OUTSIDE DIA 31.6 MAX

ALL DIMENSIONS ARE IN mm

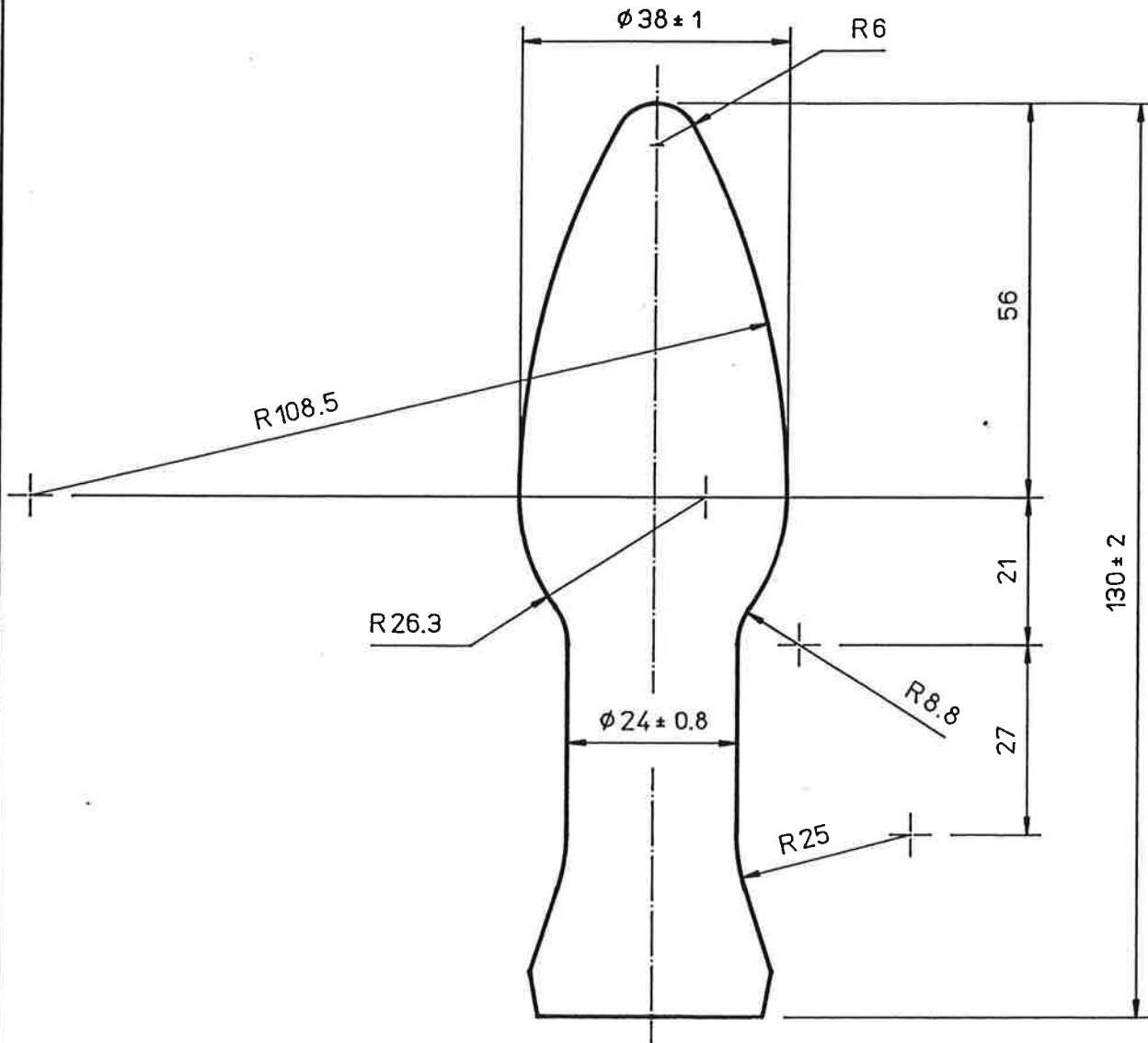
APPROVED BY	NO.	DATE	MODIFICATION	NO.	DATE	MODIFICATION
<i>[Signature]</i>	1	8-5-89	FLARE O.D. WAS 30.51			
<i>[Signature]</i>	2	27.2.91	DIMENSIONS REVIEWED			

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RIBBON BULB TYPE

OC038A

ISSUE DATE 12-May-67



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 95 FROM BULB TOP)	.38	TO	.76
SIDE	(AT MAXIMUM DIAMETER)	.30	MIN.	
TOP	(AT CENTRE TOP)	.51	TO	1.52

STEM	INSIDE DIAMETER	21.6	MIN	
FLARE	INSIDE DIAMETER	25.8	MIN	OUTSIDE DIAM. 36.2 MAX.

ALL DIMENSIONS ARE IN mm

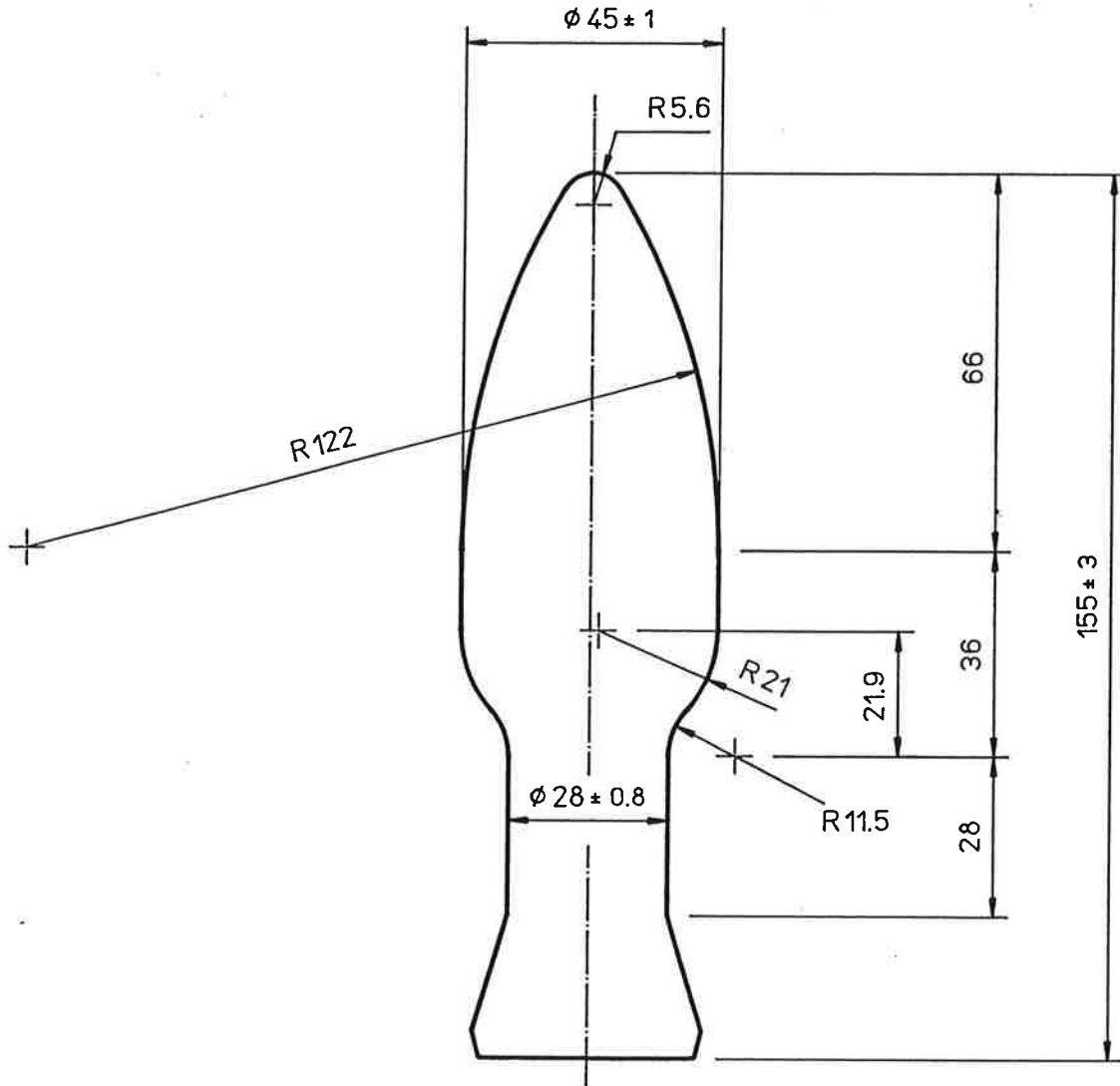
APPROVED BY	NO.	DATE	MODIFICATION	NO.	DATE	MODIFICATION
<i>[Signature]</i>	1	9.3.90	FLARE I.D. WAS 26.92			
<i>[Signature]</i>	1	9.3.90	FLARE O.D. WAS 35.56			

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RIBBON BULB TYPE

OC045

ISSUE DATE 4-MAR-56



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 14 FROM BULB TOP)	.38	TO	.76
SIDE	(AT MAXIMUM DIAMETER)	.30	MIN	
TOP	(AT CENTRE TOP)	.51	TO	1.32
STEM	INSIDE DIAMETER	25.6	MIN	
FLARE	INSIDE DIAMETER	32.0	MIN	OUTSIDE DIAM. 41.4 MAX.

ALL DIMENSIONS ARE IN mm

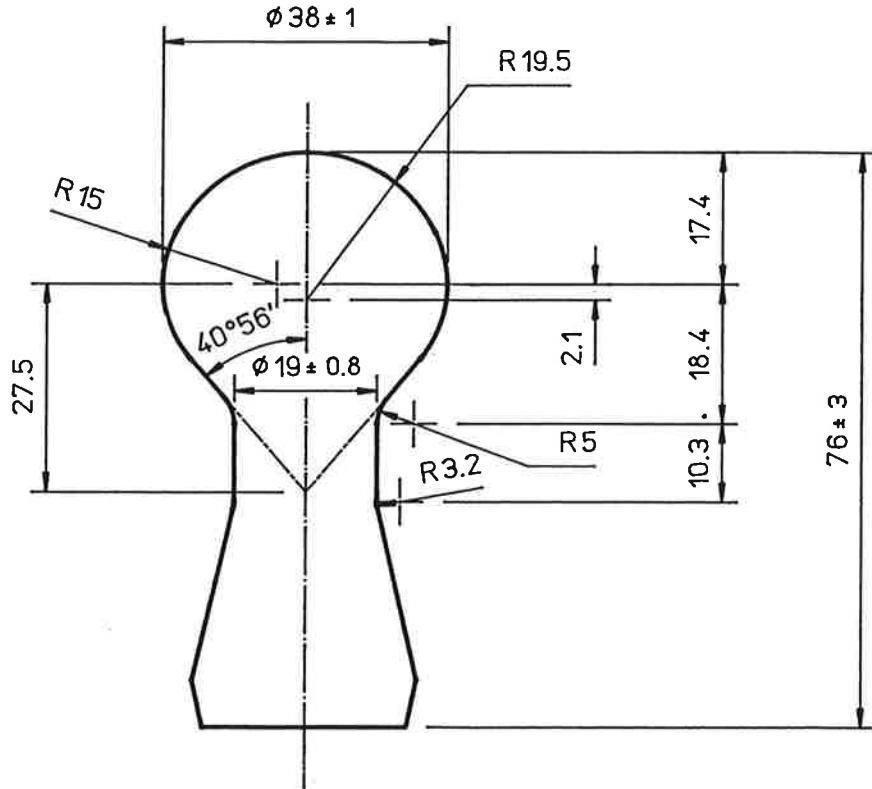
APPROVED BY	NO.	DATE	MODIFICATION	NO.	DATE	MODIFICATION
<i>[Signature]</i>	1	20-3-91	DIMENSIONS REVIEWED			
<i>[Signature]</i>						

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RIBBON BULB TYPE

PS038

ISSUE DATE 24-may-50



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 41 FROM BULB TOP)	.41	TO	.84
SIDE	(AT MAXIMUM DIAMETER)	.30	MIN	
TOP	(AT CENTRE TOP)	.38	TO	1.27
STEM	INSIDE DIAMETER	16.6	MIN	
FLARE	INSIDE DIAMETER	22.1	MIN	OUTSIDE DIAM.30.5 MAX

ALL DIMENSIONS ARE IN mm

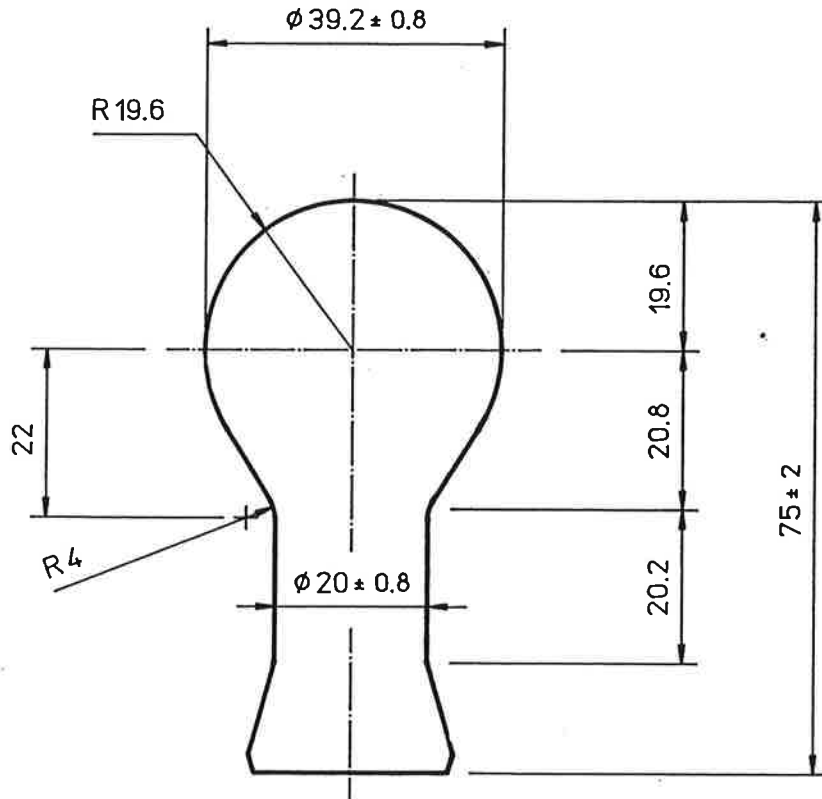
APPROVED BY <i>[Signature]</i>	NO.	DATE	MODIFICATION	NO.	DATE	MODIFICATION
APPROVED BY <i>C. White</i>	1	16-1-91	DIMENSIONS REVIEWED			

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RIBBON BULB TYPE

PS040

ISSUE DATE 5-JAN-67



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 50 FROM BULB TOP)	.41	TO	.84
SIDE	(AT MAXIMUM DIAMETER)	.30	MIN	
TOP	(AT CENTRE TOP)	.38	TO	1.27

STEM	INSIDE DIAMETER	17.6	MIN	
FLARE	INSIDE DIAMETER	19.7	MIN	OUTSIDE DIAM. 28.0 MAX.

ALL DIMENSIONS ARE IN mm

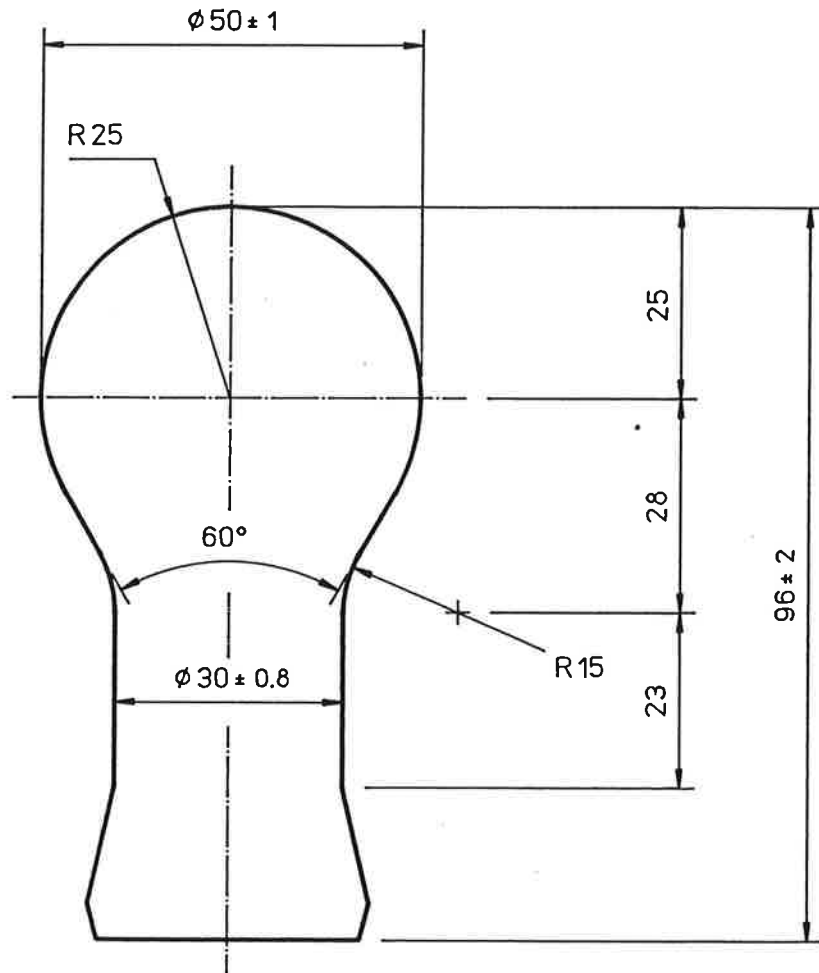
APPROVED BY <i>[Signature]</i>	NO.	DATE	MODIFICATION	NO.	DATE	MODIFICATION
APPROVED BY <i>C. White</i>	1	20-3-91	DIMENSIONS REVIEWED			

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RIBBON BULB TYPE

PS050

ISSUE DATE 6-NOV-52



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 60 FROM BULB TOP)	.41	TO	.76
SIDE	(AT MAXIMUM DIAMETER)	.38	MIN	
TOP	(AT CENTRE TOP)	.51	TO	1.52

STEM	INSIDE DIAMETER	27.6	MIN	
FLARE	INSIDE DIAMETER	28.8	MIN	OUTSIDE DIAM. 38.1 MAX.

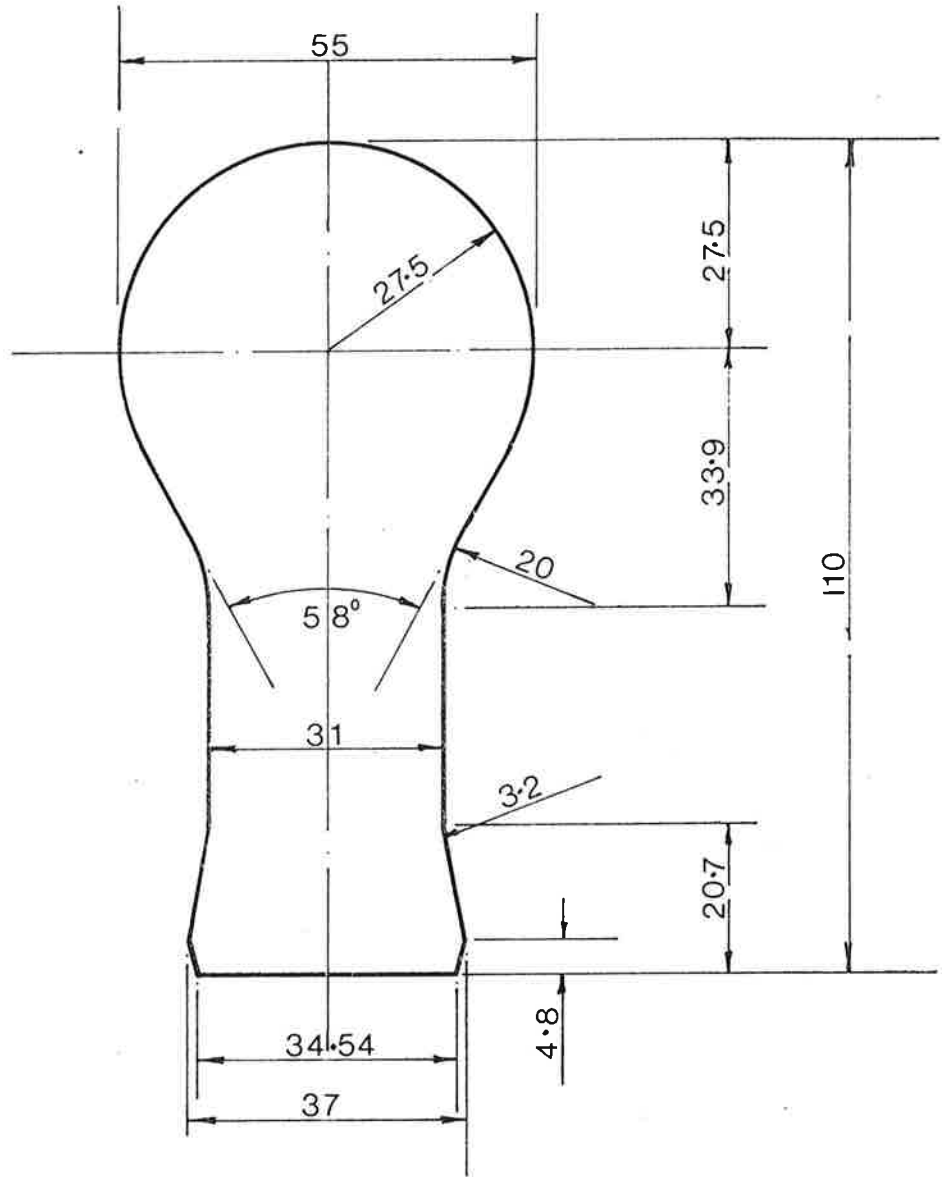
ALL DIMENSIONS ARE IN mm

APPROVED BY <i>[Signature]</i>	NO.	DATE	MODIFICATION	NO.	DATE	MODIFICATION
APPROVED BY <i>[Signature]</i>	1	20-3-91	DIMENSIONS REVIEWED			

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Ribbon Bulb Type **PS 055**

Issued 2 - 3 - 50.



— WALL THICKNESS LIMITS & MEASURING POSITIONS —

NECK	(at 71 from bulb top)	.41 — .76
SIDE	(at maximum diameter)	.38 — .76
TOP	(at centre top)	.51 — 1.52
STEM	Inside diameter	28.59 min.
	Outside diameter	31.8 max.
FLARE	Inside diameter	28.82 min.
	Outside diameter	38.14 max.
BULB	Outside diameter	55 ± 1.0
	Length overall	110 ± 3.17
	Calculated weight	23 gms.

— All dimensions are in millimetres —

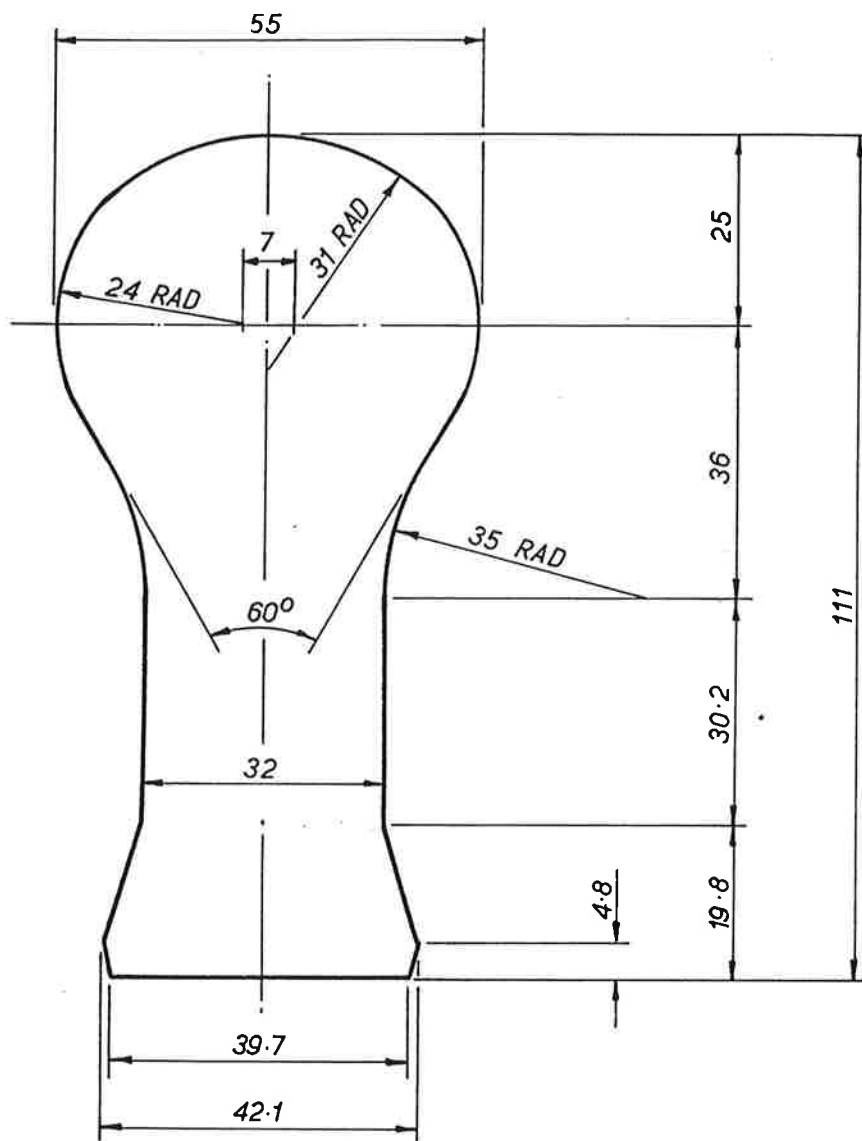
Approved
F. Hart

Revised
25-1-73. Sealing in line removed.

Revised

Revised

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ALL DIMENSIONS ARE IN MILLIMETRES ARE OUTSIDE AND FOR FINISHED BULBS

SPECIFICATION

WALL THICKNESS LIMITS IN MILLIMETRES

NECK	.41	.76
SIDE	.38	.76
TOP	.51	1.52

WALL THICKNESS MEASURING POSITIONS

NECK Measure at 71 Millimetres from Top of Bulb
 SIDE Measure at Maximum Diameter
 TOP Measure at Centre Top

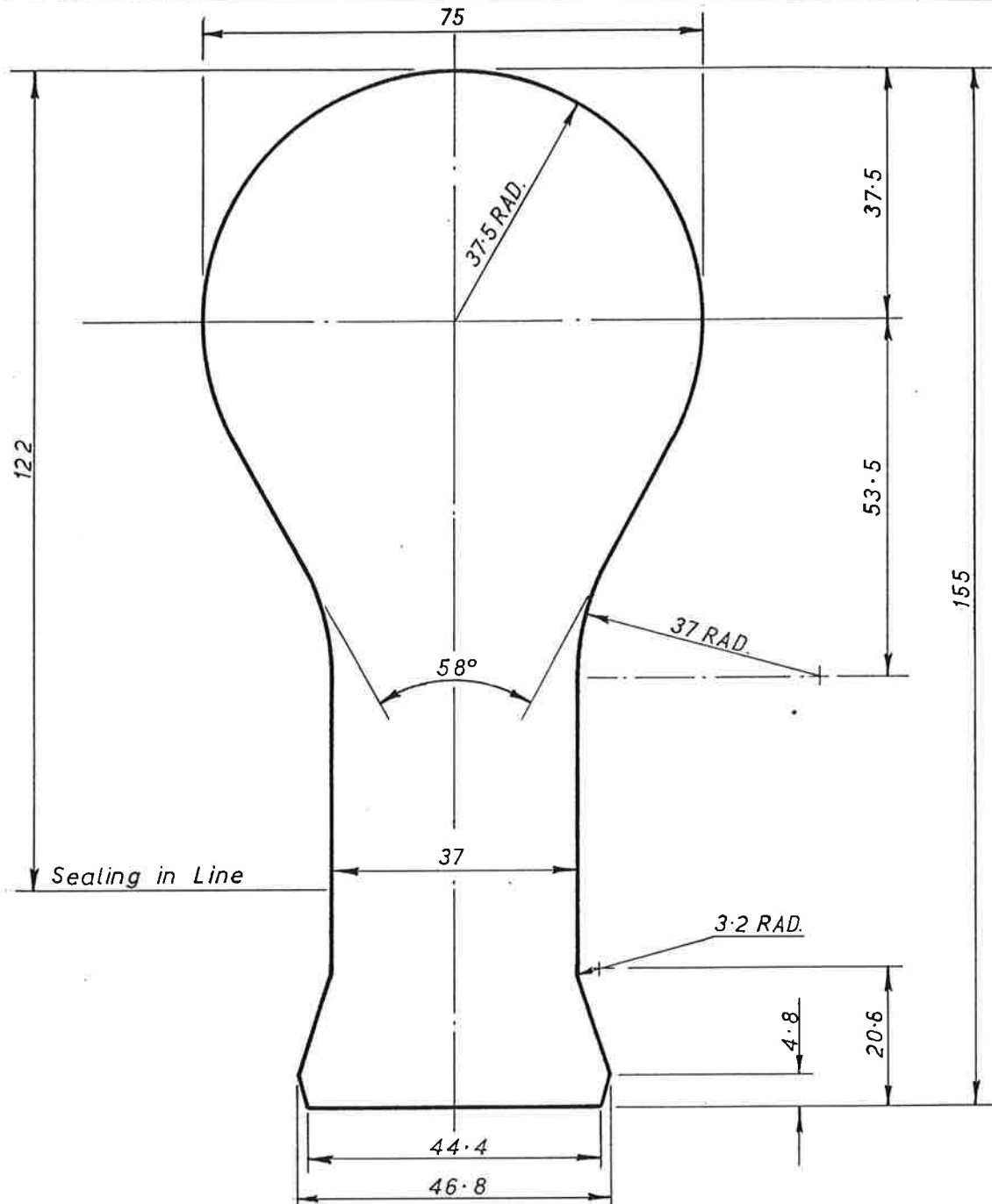
STEM inside Diameter	29.59	Millimetres Minimum
FLARE inside Diameter	32.05	Millimetres Minimum
FLARE outside Diameter	43.28	Millimetres Maximum
BULB LENGTH	111 ± 3.17	Millimetres

APPROVED

REVISED

REVISED

REVISED



ALL DIMENSIONS ARE IN MILLIMETRES ARE OUTSIDE AND FOR FINISHED BULBS

SPECIFICATION

WALL THICKNESS LIMITS IN MILLIMETRES

NECK	.41	.76
SIDE	.38	.76
TOP	.51	1.52

WALL THICKNESS MEASURING POSITIONS

NECK Measure at 116 Millimetres from Top of Bulb
 SIDE Measure at Maximum Diameter
 TOP Measure at Centre Top

STEM	inside Diameter	34.59	Millimetres Minimum
FLARE	inside Diameter	36.83	Millimetres Minimum
FLARE	outside Diameter	48.24	Millimetres Maximum
BULB LENGTH		155 ± 3.17	Millimetres

APPROVED

REVISED

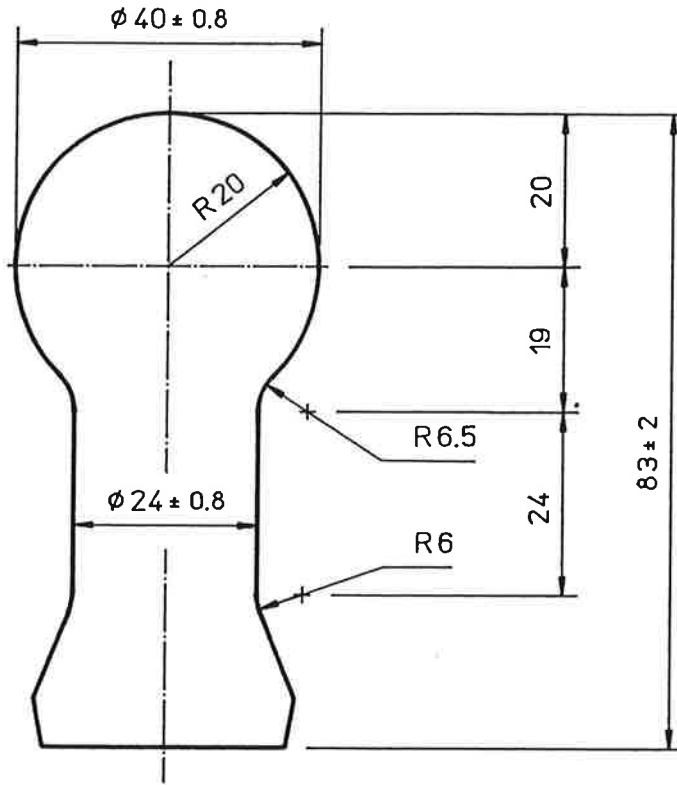
REVISED

REVISED

RIBBON BULB TYPE

R040

ISSUE DATE 4-DEC-57



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 51 FROM BULB TOP)	.41	TO	.84
SIDE	(AT MAXIMUM DIAMETER)	.30	MIN	
TOP	(AT CENTRE TOP)	.38	TO	1.27
STEM	INSIDE DIAMETER	21.6	MIN	
FLARE	INSIDE DIAMETER	26.9	MIN	OUTSIDE DIAM. 35.6 MAX.

ALL DIMENSIONS ARE IN mm

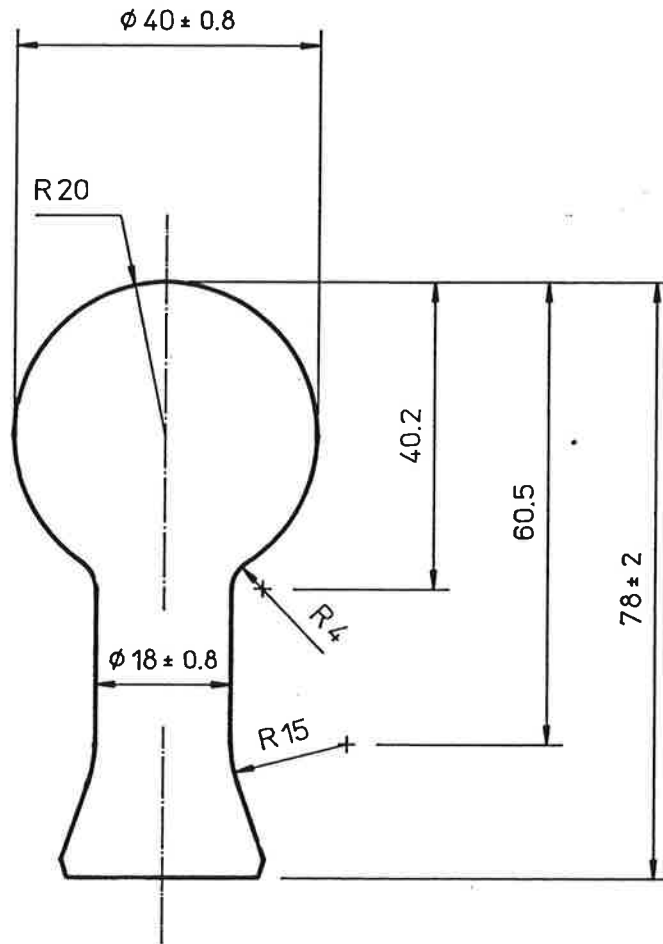
APPROVED BY	NO.	DATE	MODIFICATION	NO.	DATE	MODIFICATION
<i>[Signature]</i>	1	19-3-91	DIMENSIONS REVIEWED			
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RIBBON BULB TYPE

R040D

ISSUE DATE 10-Mar-71



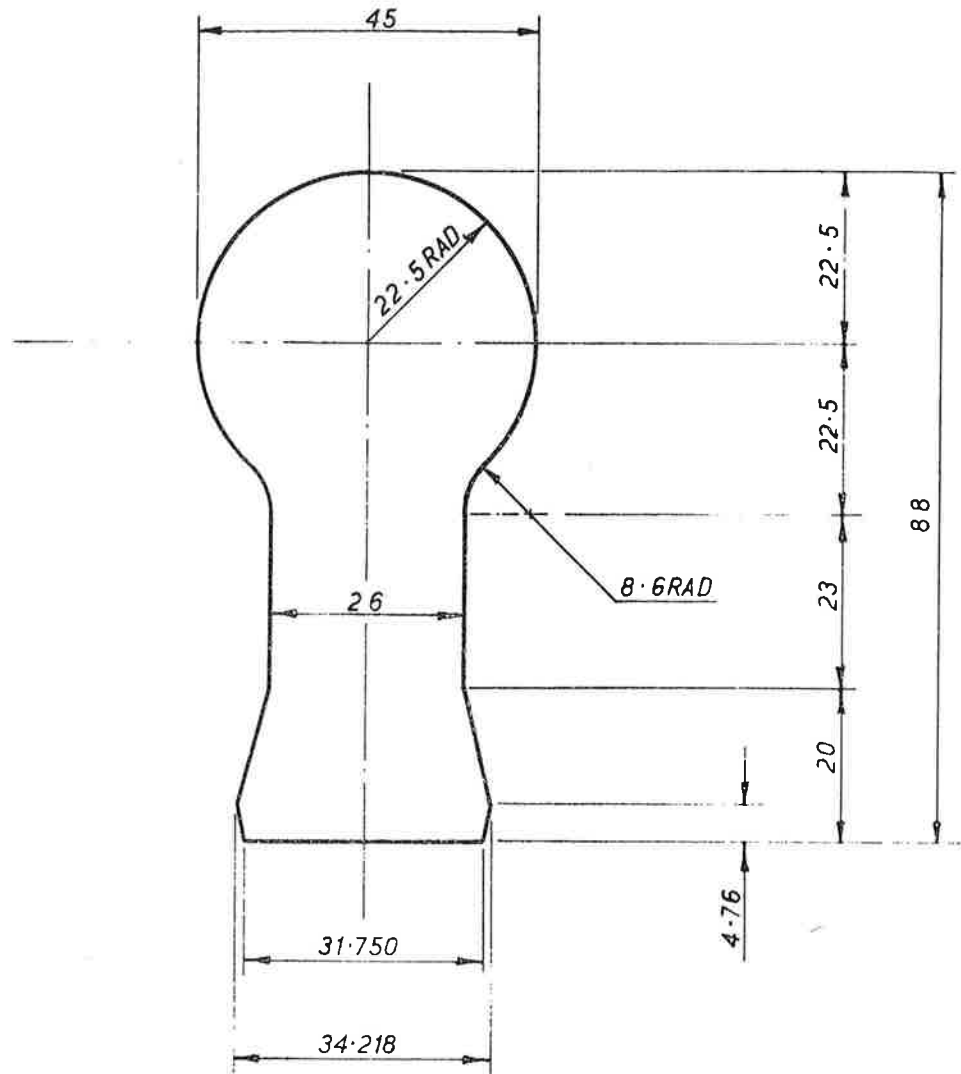
WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 50 FROM BULB TOP)	.41	TO	.84
SIDE	(AT MAXIMUM DIAMETER)	.30	MIN	
TOP	(AT CENTRE TOP)	.51	TO	1.53
—————				
STEM	INSIDE DIAMETER	15.9	MIN	
FLARE	INSIDE DIAMETER	19.7	MIN	OUTSIDE DIAM. 28.3 MAX.

ALL DIMENSIONS ARE IN mm

APPROVED BY	NO.	DATE	MODIFICATION	NO.	DATE	MODIFICATION
<i>[Signature]</i>						
<i>[Signature]</i>						

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ALL DIMENSIONS ARE IN MILLIMETRES ARE OUTSIDE AND FOR FINISHED BULBS

SPECIFICATION

WALL THICKNESS LIMITS IN MILLIMETRES

NECK	.41	.84
SIDE	.30	.81
TOP	.38	1.27

WALL THICKNESS MEASURING POSITIONS

NECK Measure at 56 Millimetres from Top of Bulb
 SIDE Measure at Maximum Diameter
 TOP Measure at Centre Top

STEM	inside Diameter	23.587	Millimetres	Minimum
FLARE	inside Diameter	26.92	Millimetres	Minimum
FLARE	outside Diameter	35.56	Millimetres	Maximum
BULB LENGTH		88 ± 2	Millimetres	

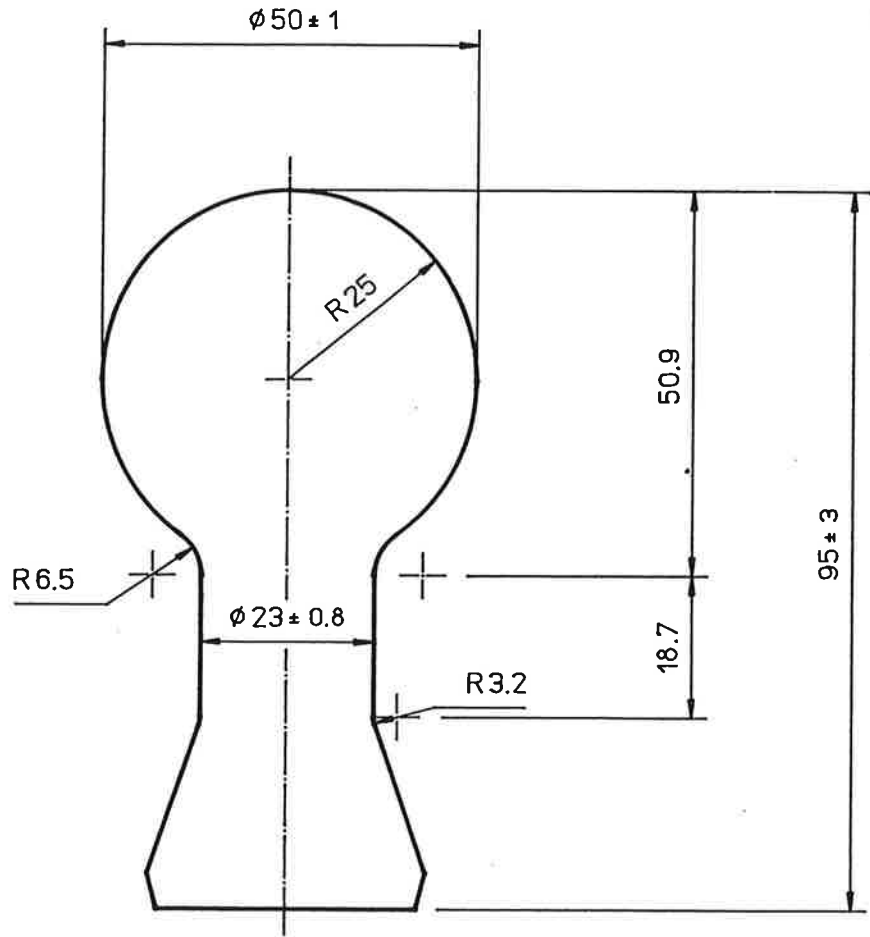
APPROVED

REVISED

REVISED

REVISED

RIBBON BULB TYPE	R050	ISSUE DATE	3-JUN-50
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WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 56 FROM BULB TOP)	.41 TO .76
SIDE	(AT MAXIMUM DIAMETER)	.38 MIN
TOP	(AT CENTRE TOP)	.51 TO 1.52

STEM	INSIDE DIAMETER	20.6 MIN
FLARE	INSIDE DIAMETER	28.8 MIN
	OUTSIDE DIAM.	38.1 MAX.

ALL DIMENSIONS ARE IN mm

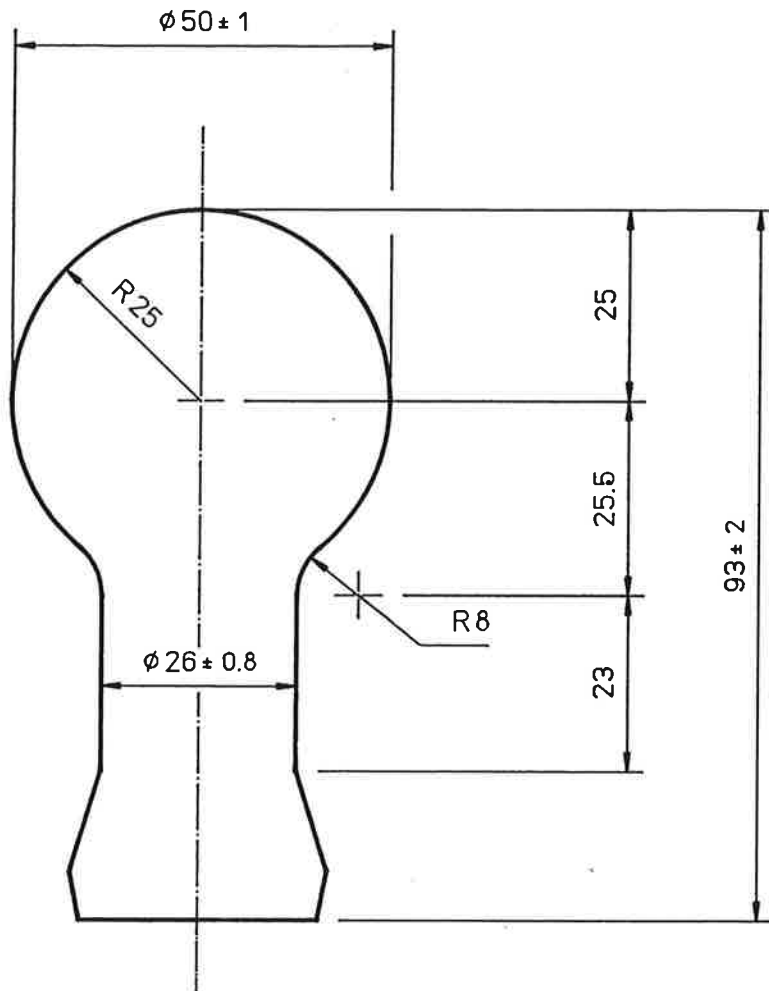
APPROVED BY	NO.	DATE	MODIFICATION	NO.	DATE	MODIFICATION
<i>[Signature]</i>	1	12-9-73	NECK WALL THICKNESS WAS .46,89			
<i>[Signature]</i>	2	11-1-91	DIMENSIONS REVIEWED			

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RIBBON BULB TYPE

R050A

ISSUE DATE 6-NOV-52



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 60 FROM BULB TOP)	.41	TO	.76
SIDE	(AT MAXIMUM DIAMETER)	.38	MIN	
TOP	(AT CENTRE TOP)	.51	TO	1.52
<hr/>				
STEM	INSIDE DIAMETER	23.6	MIN	
FLARE	INSIDE DIAMETER	26.9	MIN	OUTSIDE DIAM.35.6 MAX

ALL DIMENSIONS ARE IN mm

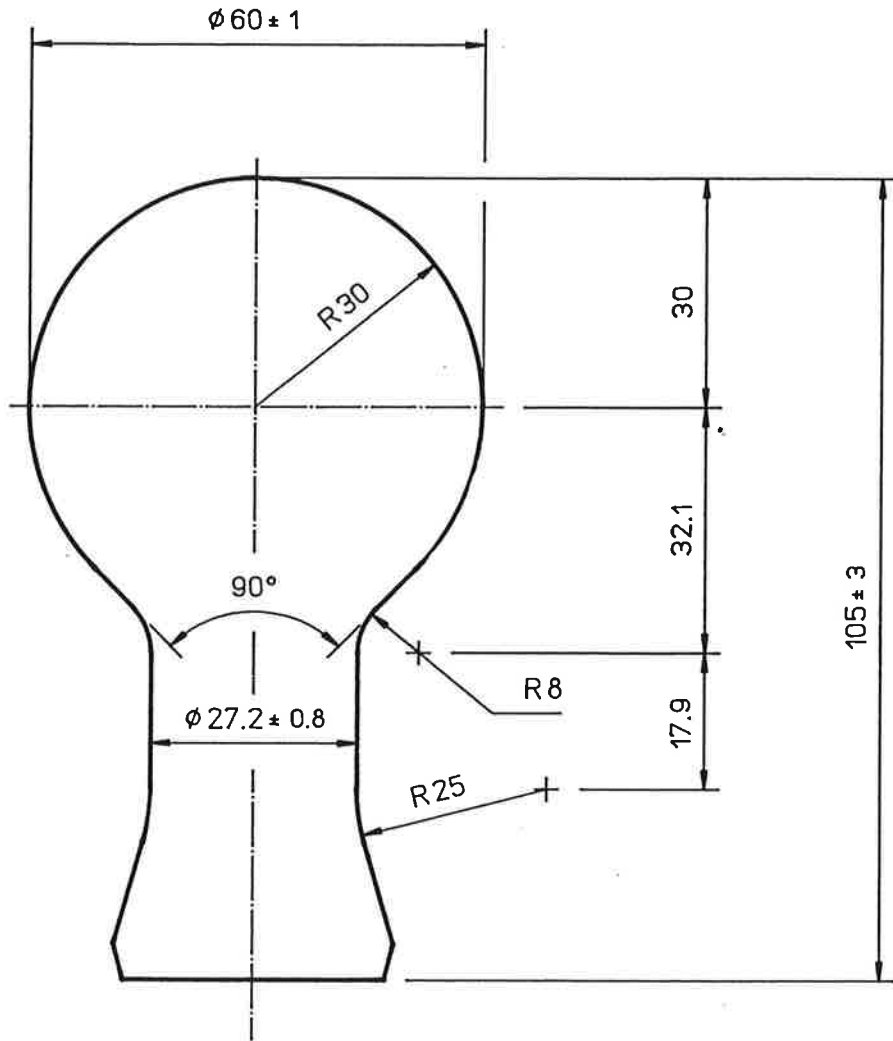
APPROVED BY <i>[Signature]</i>	NO.	DATE	MODIFICATION	NO.	DATE	MODIFICATION
APPROVED BY <i>[Signature]</i>	1	19-3-91	DIMENSIONS REVIEWED			

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RIBBON BULB TYPE

R060

ISSUE DATE 9-Mar-72



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 70 FROM BULB TOP)	.38	TO	.76
SIDE	(AT MAXIMUM DIAMETER)	.35	MIN	
TOP	(AT CENTRE TOP)	.51	TO	1.52
STEM	INSIDE DIAMETER	24.8	MIN	
FLARE	INSIDE DIAMETER	28.8	MIN	OUTSIDE DIAM. 38.2 MAX.

ALL DIMENSIONS ARE IN mm

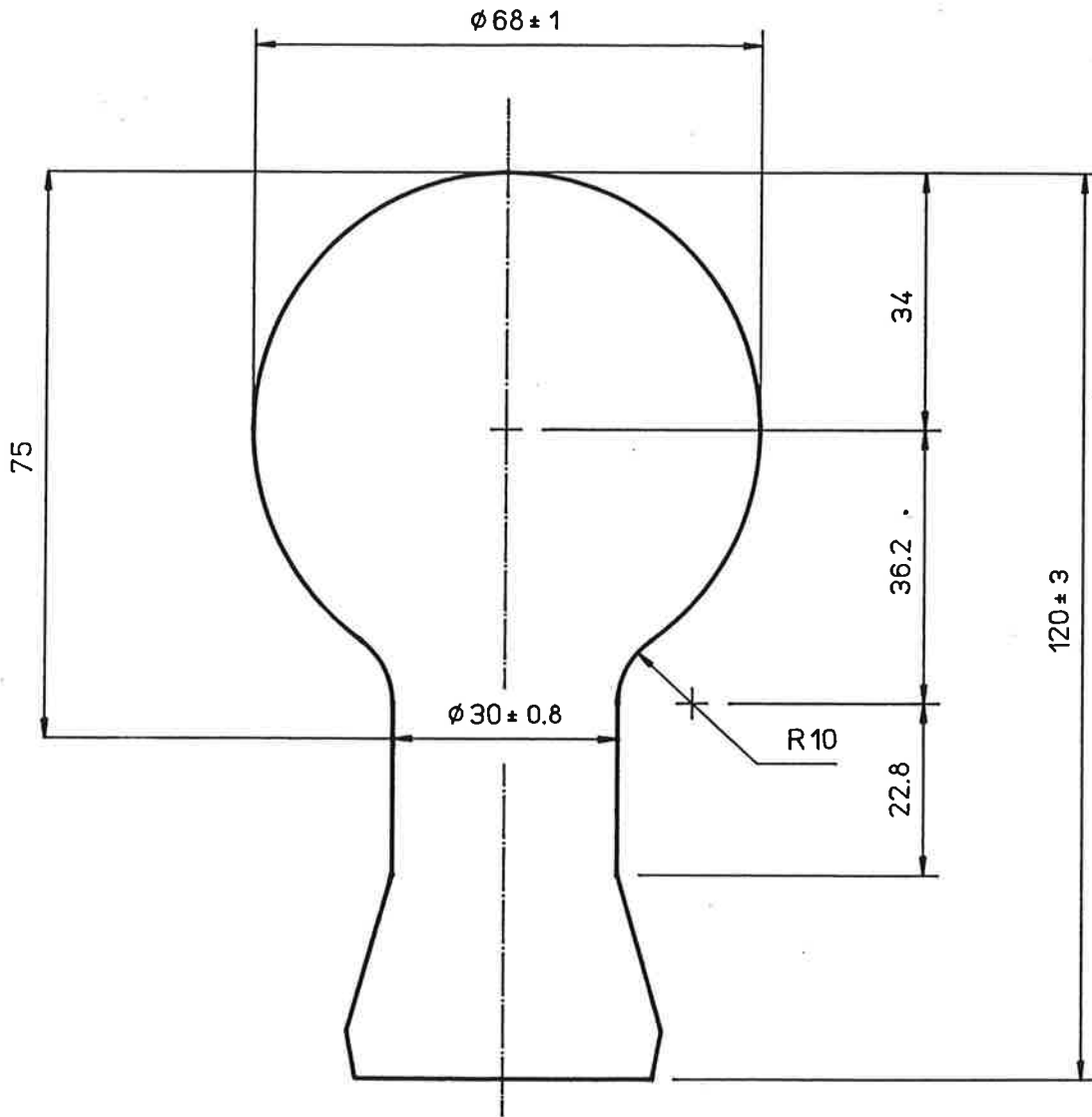
APPROVED BY	NO.	DATE	MODIFICATION	NO.	DATE	MODIFICATION
<i>[Signature]</i>	1	19-3-91	DIMENSIONS REVIEWED			
APPROVED BY <i>[Signature]</i>						

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RIBBON BULB TYPE

R068

ISSUE DATE 26-JUN-86



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 75 FROM BULB TOP)	.41	TO	.76
SIDE	(AT MAXIMUM DIAMETER)	.38	MIN	
TOP	(AT CENTRE TOP)	.51	TO	1.52

STEM	INSIDE DIAMETER	27.6	MIN	
FLARE	INSIDE DIAMETER	32.1	MIN	OUTSIDE DIAM.43.3 MAX.

ALL DIMENSIONS ARE IN mm

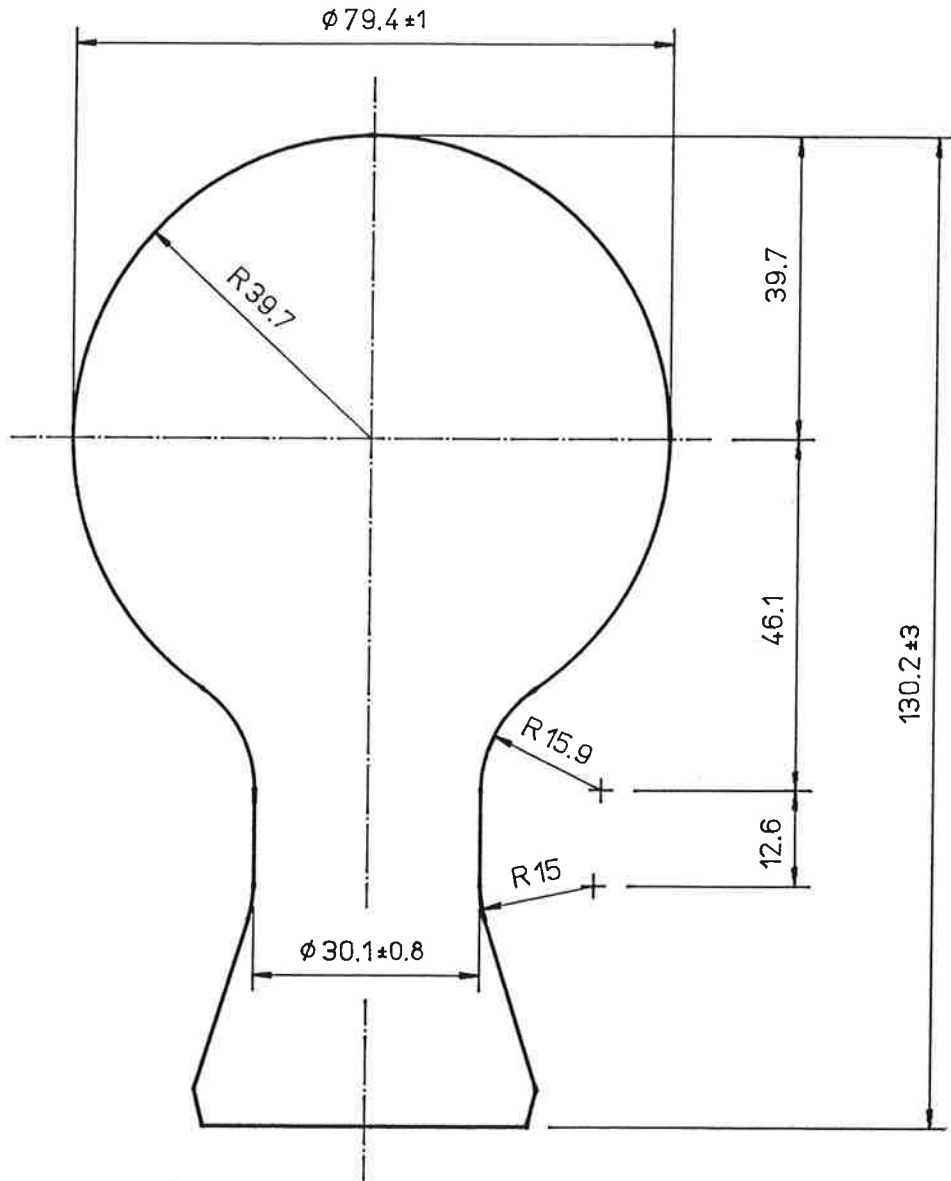
APPROVED BY	NO.	DATE	MODIFICATION	NO.	DATE	MODIFICATION
<i>[Signature]</i>	1	17-Jan-91	DIMENSIONS REVIEWED			
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RIBBON BULB TYPE

R079

ISSUE DATE 21-Dec-93



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 92 FROM BULB TOP)	.51	TO	1.02
SIDE	(AT MAXIMUM DIAMETER)	.38	MIN	
TOP	(AT CENTRE TOP)	.76	TO	2.03

STEM	INSIDE DIAMETER	27.7	MIN	
FLARE	INSIDE DIAMETER	35.6	MIN	OUTSIDE DIAM. 47.0 MAX.

ALL DIMENSIONS ARE IN mm

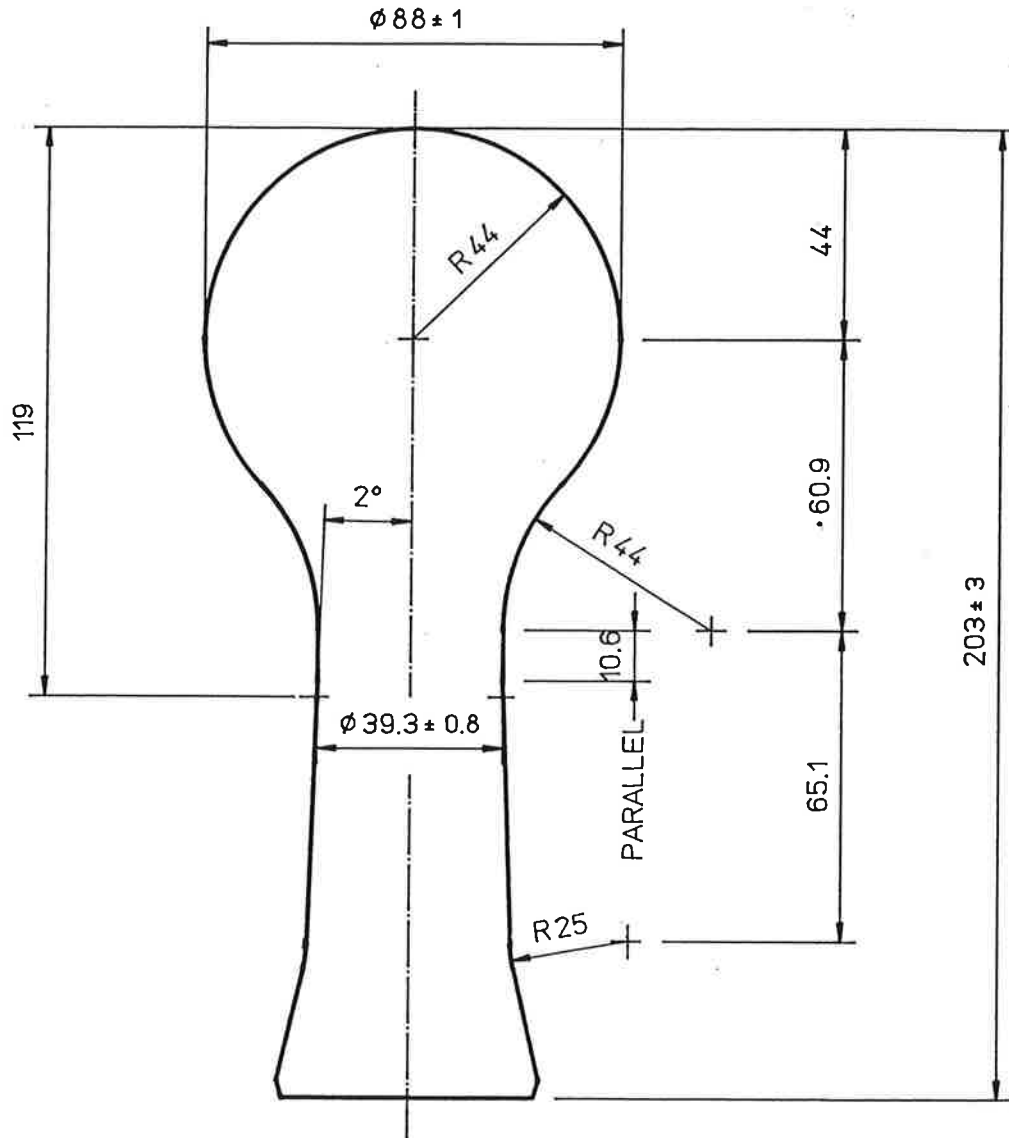
APPROVED BY <i>[Signature]</i>	NO.	DATE	MODIFICATION	NO.	DATE	MODIFICATION
APPROVED BY <i>[Signature]</i>						

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RIBBON BULB TYPE

R088

ISSUE DATE 17-NOV-71



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 119 FROM BULB TOP)	.51	TO	.86
SIDE	(AT MAXIMUM DIAMETER)	.41	MIN	
TOP	(AT CENTRE TOP)	.51	TO	1.90

STEM	INSIDE DIAMETER	36.6	MIN	
FLARE	INSIDE DIAMETER	43.7	MIN	OUTSIDE DIAM. 57.7 MAX.

ALL DIMENSIONS ARE IN mm APPROX. WT - gms

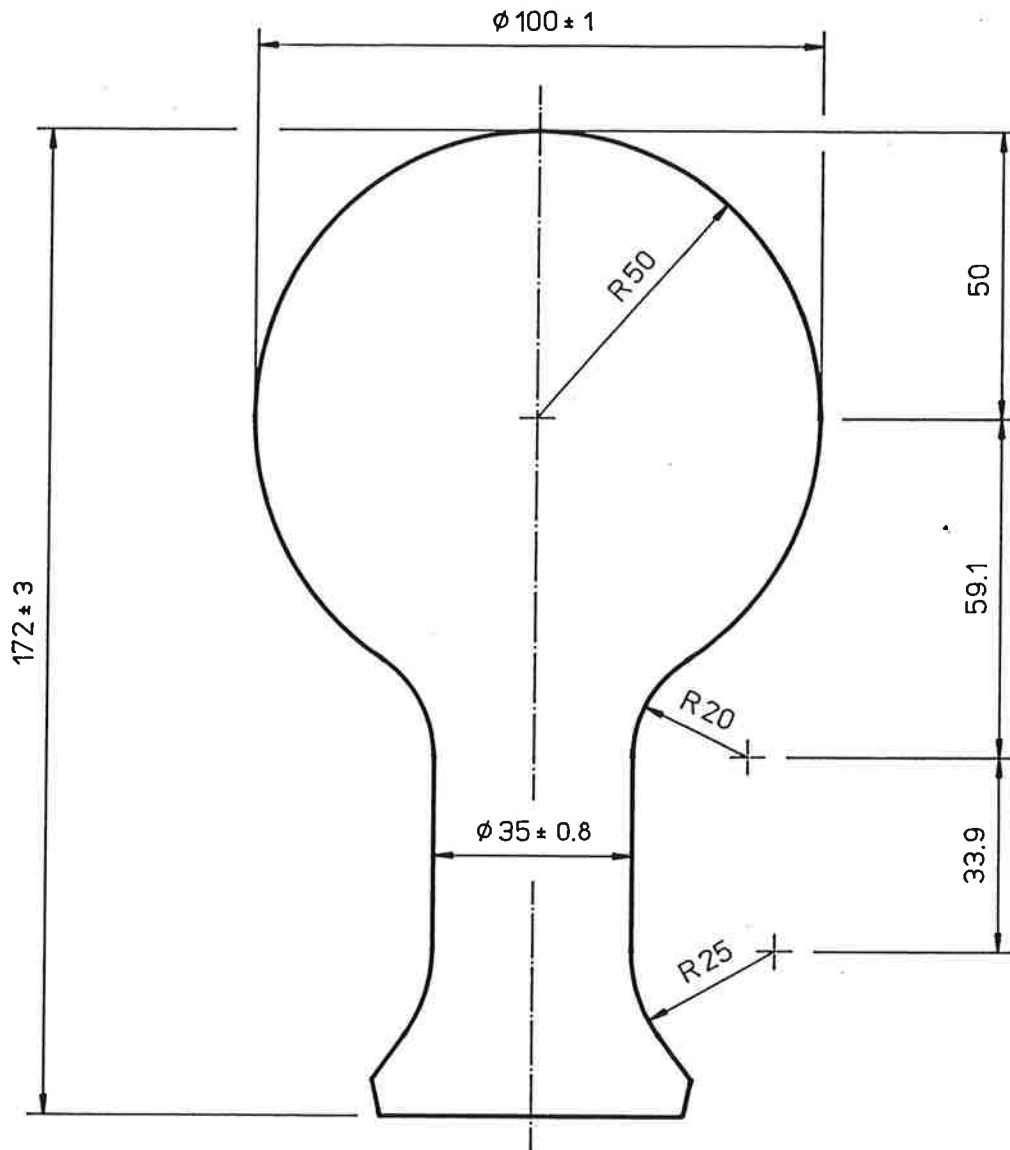
APPROVED BY <i>[Signature]</i>	NO.	DATE	MODIFICATION	NO.	DATE	MODIFICATION
APPROVED BY <i>[Signature]</i>	1	29-DEC-92	REVISED			

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RIBBON BULB TYPE

R100A

ISSUE DATE 18-DEC-72



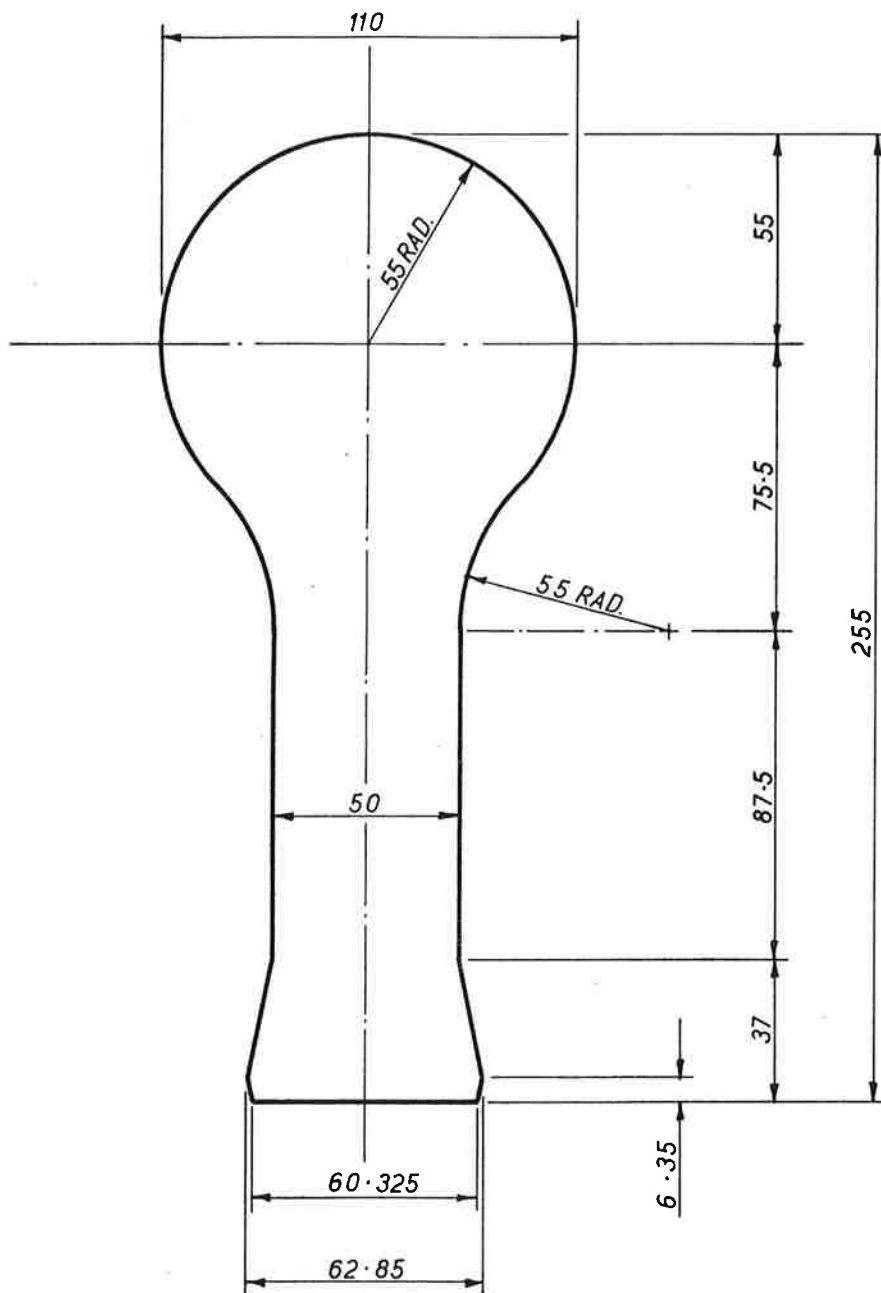
WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 127 FROM BULB TOP)	.56	TO	1.07
SIDE	(AT MAXIMUM DIAMETER)	.38	MIN	
TOP	(AT CENTRE TOP)	.83	TO	2.00
STEM	INSIDE DIAMETER	31.6	MIN	
FLARE	INSIDE DIAMETER	46.4	MIN	OUTSIDE DIAM. 62.0 MAX.

ALL DIMENSIONS ARE IN mm

APPROVED BY	NO.	DATE	MODIFICATION	NO.	DATE	MODIFICATION
<i>[Signature]</i>	1	20-3-91	DIMENSIONS REVIEWED			
<i>[Signature]</i>						

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Scale: $\frac{1}{2}$

ALL DIMENSIONS ARE IN MILLIMETRES ARE OUTSIDE AND FOR FINISHED BULBS

SPECIFICATION

WALL THICKNESS LIMITS IN MILLIMETRES

NECK	.56	1.07
SIDE	.38 Min.	
TOP	.89	2.41

WALL THICKNESS MEASURING POSITIONS

NECK	Measure at 197	Millimetres from Top of Bulb
SIDE	Measure at Maximum Diameter	
TOP	Measure at Centre Top	

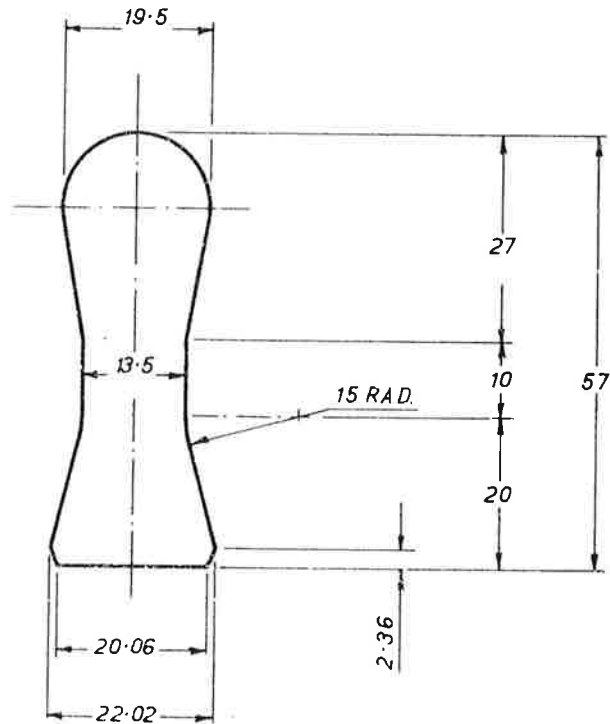
STEM	inside Diameter	47.50	Millimetres Minimum
FLARE	inside Diameter	49.50	Millimetres Minimum
FLARE	outside Diameter	66.00	Millimetres Maximum
BULB LENGTH		255 ± 3.17	Millimetres

APPROVED

REVISED

REVISED

REVISED



ALL DIMENSIONS ARE IN MILLIMETRES ARE OUTSIDE AND FOR FINISHED BULBS

SPECIFICATION

WALL THICKNESS LIMITS IN MILLIMETRES

NECK .41 — .76
 SIDE .35 MIN.
 TOP .51 — 1.51

WALL THICKNESS MEASURING POSITIONS

NECK Measure at 32 Millimetres from Top of Bulb
 SIDE Measure at Maximum Diameter
 TOP Measure at Centre Top

STEM inside Diameter 11 Millimetres Minimum
 FLARE inside Diameter 14.35 Millimetres Minimum
 FLARE outside Diameter 22.377 Millimetres Maximum
 BULB LENGTH 57 ± 3.17 Millimetres

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[Signature]

REVISED

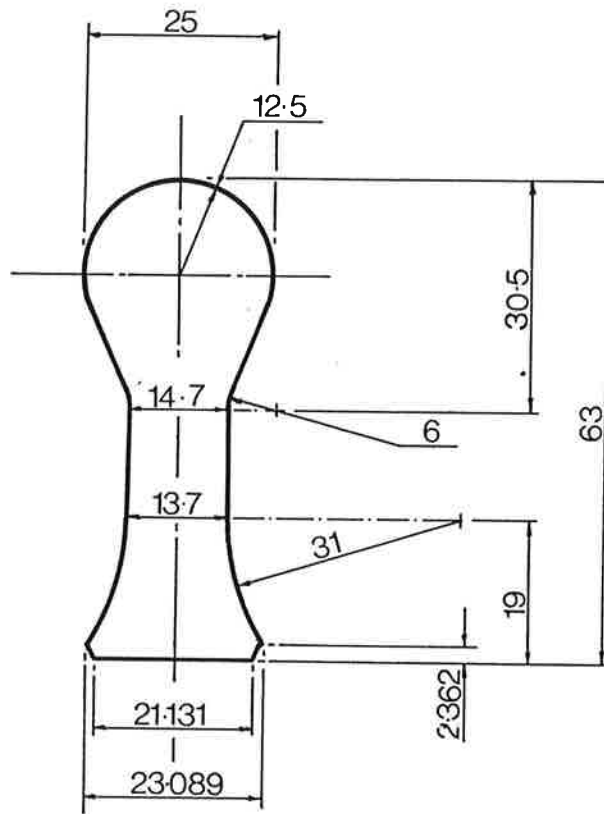
REVISED

REVISED

Ribbon Bulb Type

ST 025 E

Issued 22.5.70



- WALL THICKNESS LIMITS & MEASURING POSITION -

NECK	(at 37 from bulb top)	.40	—	.80
SIDE	(at maximum diameter)	.30		
TOP	(at centre top)	.33	—	1.14
STEM	Inside diameter	12.00	min.	
	Outside diameter		max.	
FLARE	Inside diameter	16.39	min.	
	Outside diameter	23.50	max.	
BULB	Outside diameter	25.00	±1.00	
	Length overall	63.00	±3.17	
	Calculated weight	10.50	gms.	

- All dimensions are in millimeters -

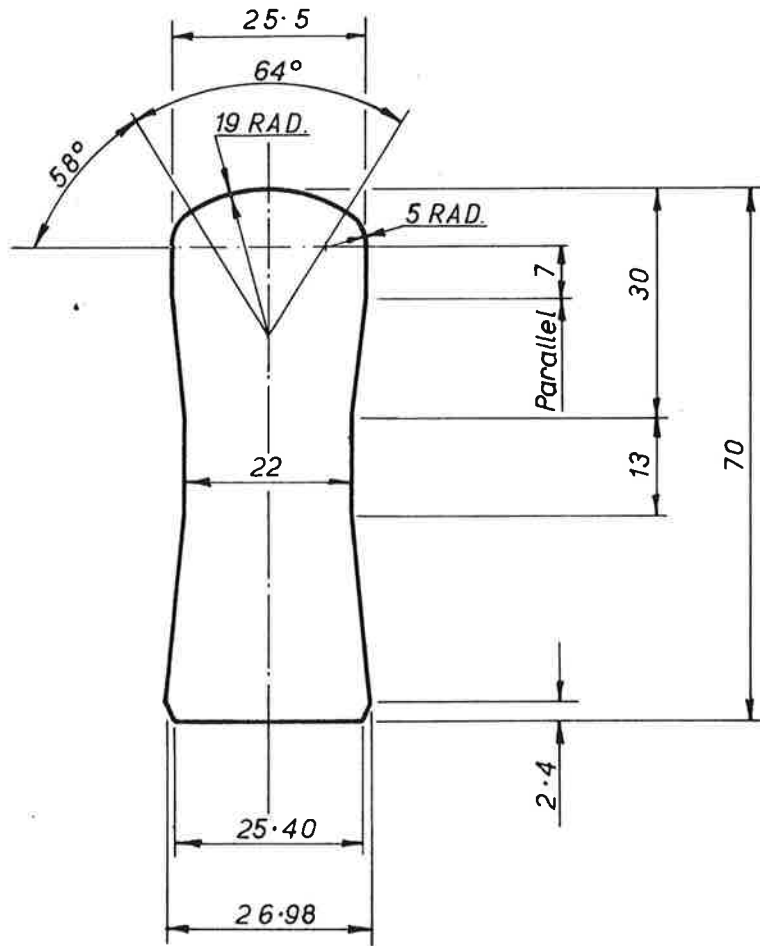
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Approved
[Signature]

Revised

Revised

Revised



ALL DIMENSIONS ARE IN MILLIMETRES ARE OUTSIDE AND FOR FINISHED BULBS

SPECIFICATION

WALL THICKNESS LIMITS IN MILLIMETRES

NECK	.38	.84
SIDE	.25	.76
TOP	.40	1.51

WALL THICKNESS MEASURING POSITIONS

NECK Measure at 37 Millimetres from Top of Bulb
 SIDE Measure at Maximum Diameter
 TOP Measure at Centre Top

STEM	inside Diameter	19.59	Millimetres	Minimum
FLARE	inside Diameter	21	Millimetres	Minimum
FLARE	outside Diameter	28.04	Millimetres	Maximum
BULB LENGTH		70 ± 3.17	Millimetres	
BULB O. DIA		25.5 ± .8	Mms	

APPROVED

REVISED

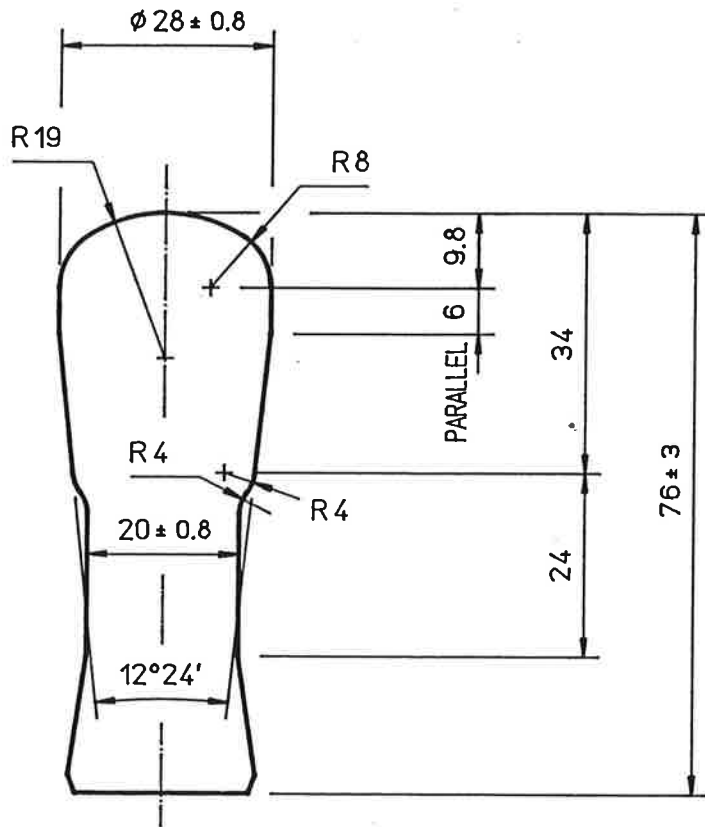
REVISED

PLATE SIZE
1.00"

RIBBON BULB TYPE

ST028G

ISSUE DATE 23-Mar-81



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 45 FROM BULB TOP)	0.38 TO .89
SIDE	(AT MAXIMUM DIAMETER)	.38 MIN.
TOP	(AT CENTRE TOP)	.51 TO 1.51
STEM	INSIDE DIAMETER	17.6 MIN
FLARE	INSIDE DIAMETER	17.6 MIN
		OUTSIDE DIAM. 26.9 MAX.

ALL DIMENSIONS ARE IN mm

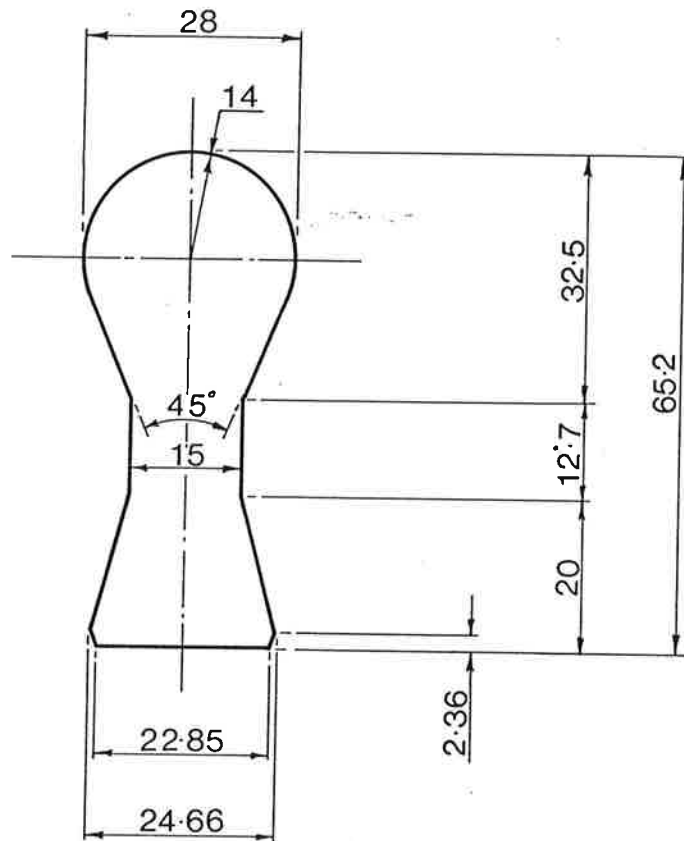
APPROVED BY	NO.	DATE	MODIFICATION	NO.	DATE	MODIFICATION
<i>[Signature]</i>	1	26.2.91	DIMENSIONS REVIEWED			
<i>[Signature]</i>	2	17-NOV-92	NECK MEAS POS CHANGED			

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Ribbon Bulb Type

ST 028H

Issued 19 · 7 · 65



—WALL THICKNESS LIMITS & MEASURING POSITION—

NECK	(at 38 from bulb top)	.41	.76
SIDE	(at maximum diameter)	.38	min.
TOP	(at centre top)	.51	1.52
STEM	Inside diameter	12.59	min.
	Outside diameter		max.
FLARE	Inside diameter	17.32	min.
	Outside diameter	26	max.
BULB	Outside diameter	28	±1.0
	Length overall	65.2	±3.17
	Calculated weight	9	gms.

— All dimensions are in millimeters —

Approved

Revised

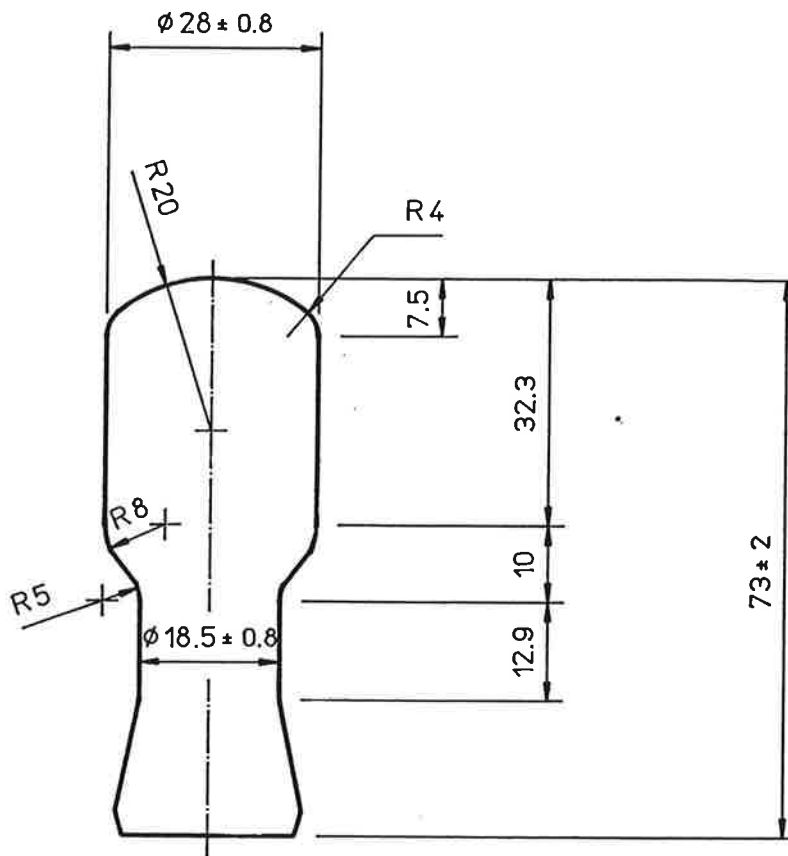
Revised

Revised

RIBBON BULB TYPE

ST028L

ISSUE DATE 12-AUG-80



WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 47 FROM BULB TOP)	.38 TO .89
SIDE	(31 FROM BULB TOP)	.38 MIN
TOP	(AT CENTRE TOP)	.51 TO 1.51

STEM	INSIDE DIAMETER	16.0 MIN
FLARE	INSIDE DIAMETER	17.6 MIN
	OUTSIDE DIAM.	25.4 MAX.

ALL DIMENSIONS ARE IN mm

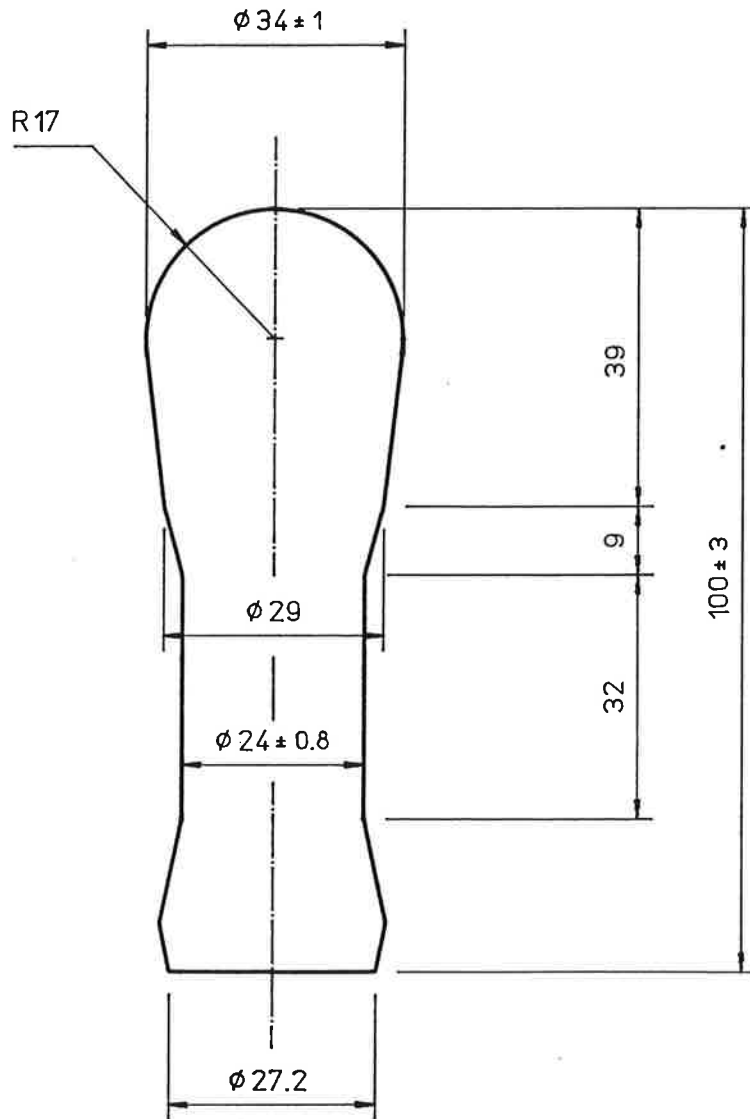
APPROVED BY	NO.	DATE	MODIFICATION	NO.	DATE	MODIFICATION
<i>[Signature]</i>	1	5-2-81	REDRAWN	2	4-12-90	SIDE MEASURING
<i>[Signature]</i>	3	11-1-91	DIMENSIONS REVIEWED			POSITION AMENDED

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RIBBON BULB TYPE

ST034

ISSUE DATE 12-JUL-66



WALL THICKNESS LIMITS & MEASURING POSITION

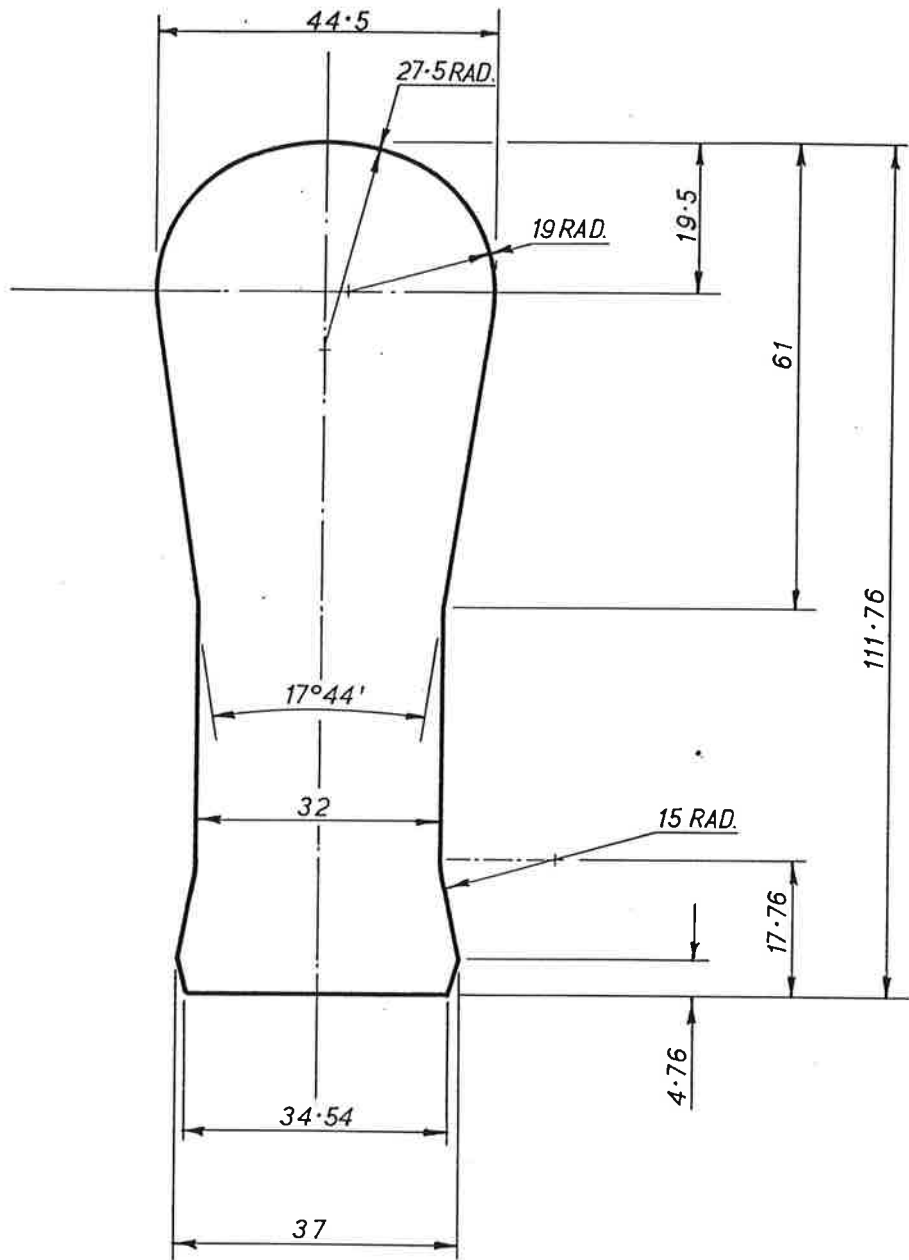
NECK	(AT 64 FROM BULB TOP)	.38	TO	.76
SIDE	(AT MAXIMUM DIAMETER)	.38	MIN.	
TOP	(AT CENTRE TOP)	.45	TO	1.27

STEM	INSIDE DIAMETER	21.0	MIN	
FLARE	INSIDE DIAMETER	21.0	MIN	OUTSIDE DIAM. 30.5 MAX.

ALL DIMENSIONS ARE IN mm

APPROVED BY <i>[Signature]</i>	NO.	DATE	MODIFICATION	NO.	DATE	MODIFICATION
APPROVED BY <i>[Signature]</i>	1	26.2.91	DIMENSIONS REVIEWED			

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ALL DIMENSIONS ARE IN MILLIMETRES ARE OUTSIDE AND FOR FINISHED BULBS

SPECIFICATION

WALL THICKNESS LIMITS IN MILLIMETRES

NECK	.41	.89
SIDE	.41	1.02
TOP	.51	1.51

WALL THICKNESS MEASURING POSITIONS

NECK Measure at 81 Millimetres from Top of Bulb

SIDE Measure at Maximum Diameter

TOP Measure at Centre Top

STEM	inside Diameter	29.59	Millimetres Minimum
FLARE	inside Diameter	28.82	Millimetres Minimum
FLARE	outside Diameter	38.14	Millimetres Maximum
BULB LENGTH		112 ± 3.17	Millimetres

APPROVED

REVISED

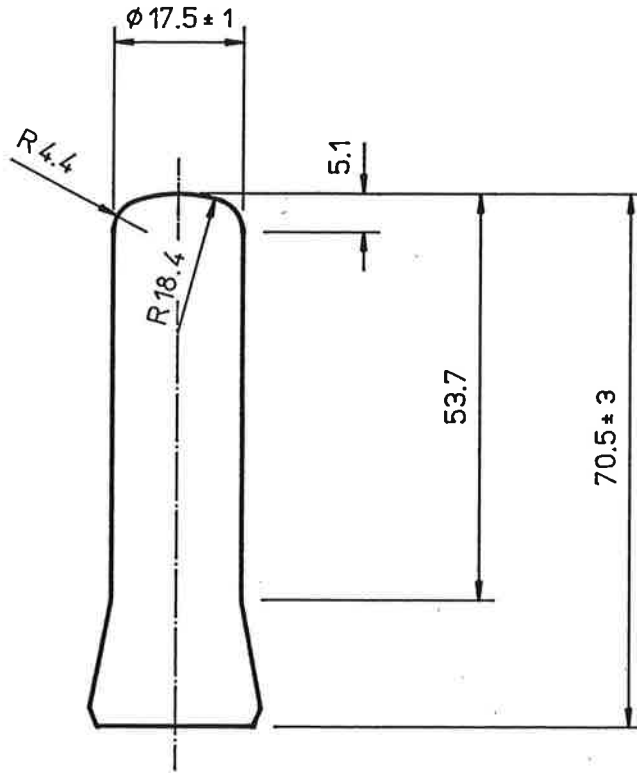
REVISED

REVISED

RIBBON BULB TYPE

T017.5

ISSUE DATE 18-Nov-57



WALL THICKNESS LIMITS & MEASURING POSITION

NECK

SIDE	(AT 42 FROM BULB TOP)	.40	TO	.80
TOP	(AT CENTRE TOP)	.51	TO	1.52

STEM	INSIDE DIAMETER	15.0	MIN	
FLARE	INSIDE DIAMETER	15.4	MIN	OUTSIDE DIAM. 24.2 MAX.

ALL DIMENSIONS ARE IN mm

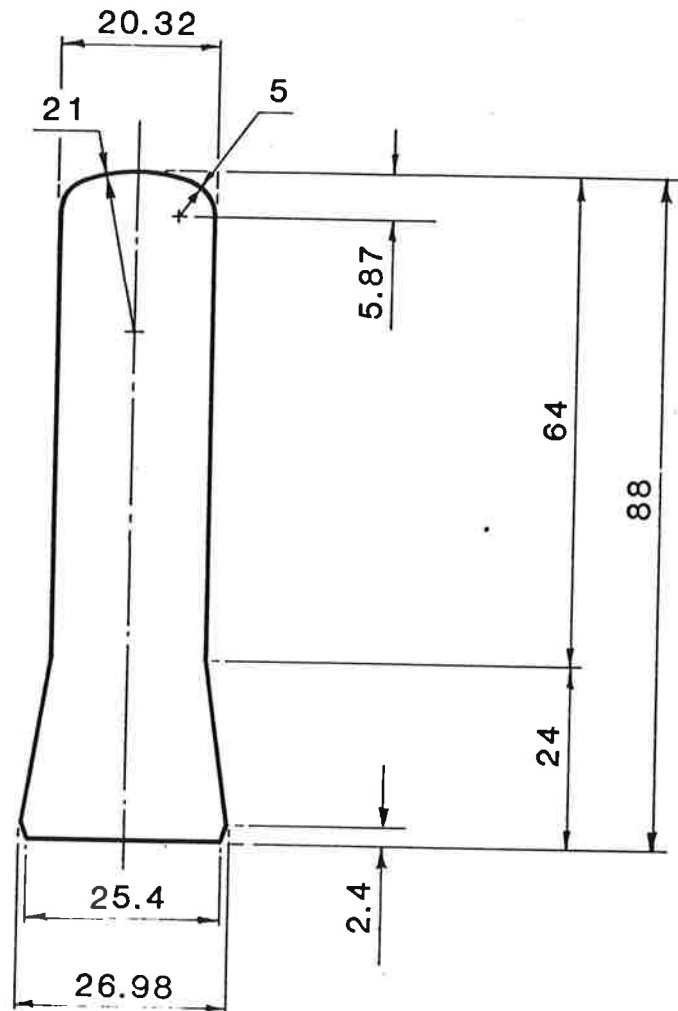
APPROVED BY <i>[Signature]</i>	NO. 2	DATE 17-NOV-92	MODIFICATION DIMENSIONS REVIEWED	NO.	DATE	MODIFICATION
APPROVED BY <i>[Signature]</i>						

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Ribbon Bulb Type

T 020-5

Issued 18-11-57



- WALL THICKNESS LIMITS & MEASURING POSITION -

SIDE	(at 38 from bulb top)	.51 - .89
TOP	(at centre top)	.63 - 1.14
STEM	Inside diameter	17.91 min. (from 7 from top)
	Outside diameter	max.
FLARE	Inside diameter	min.
	Outside diameter	max.
BULB	Outside diameter	21.26 ±
	Length overall	88 ± 3.17
	Calculated weight	gms.

- All dimensions are in millimeters -

Approved

16-2-76 Revised
Reissued as bulb type

20-4-78 Revised
STEM I.D. WAS 18-42

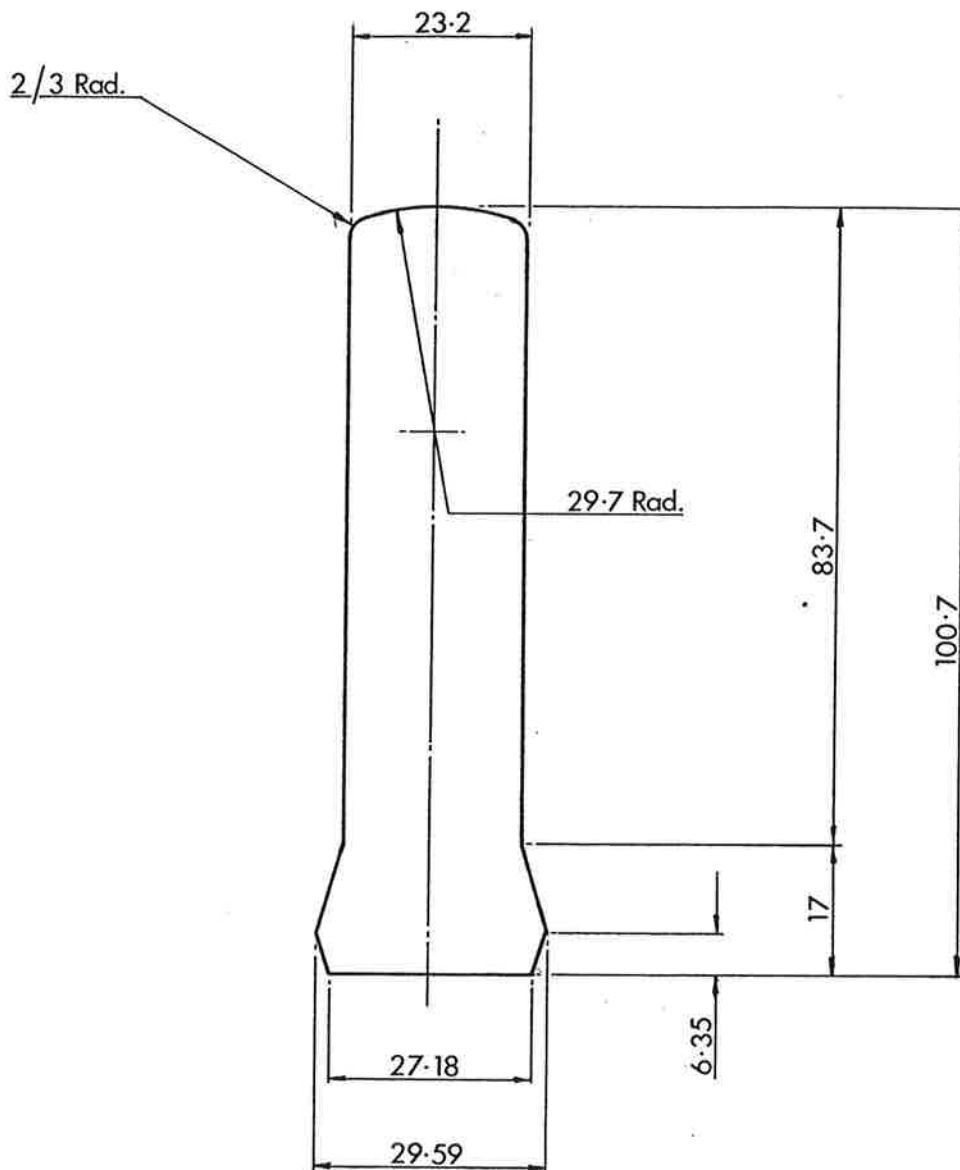
Revised

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Ribbon Bulb Type

T 023 A

Issued 7-2-85



— WALL THICKNESS LIMITS & MEASURING POSITION —

NECK	(at 70 from bulb top)		.38-.76
SIDE	(at maximum diameter)		.38 min.
TOP	(at centre top)		.51-1.52
STEM	Inside diameter	min.	20.59
	Outside diameter	max.	
FLARE	Inside diameter	min.	22.07
	Outside diameter	max.	31.59
BULB	Outside diameter	±	
	Length overall	100.7 ±	3.17
	Calculated weight		gms.

— All dimensions are in millimeters —

J. Hickman Approved *[Signature]*

Revised

Revised

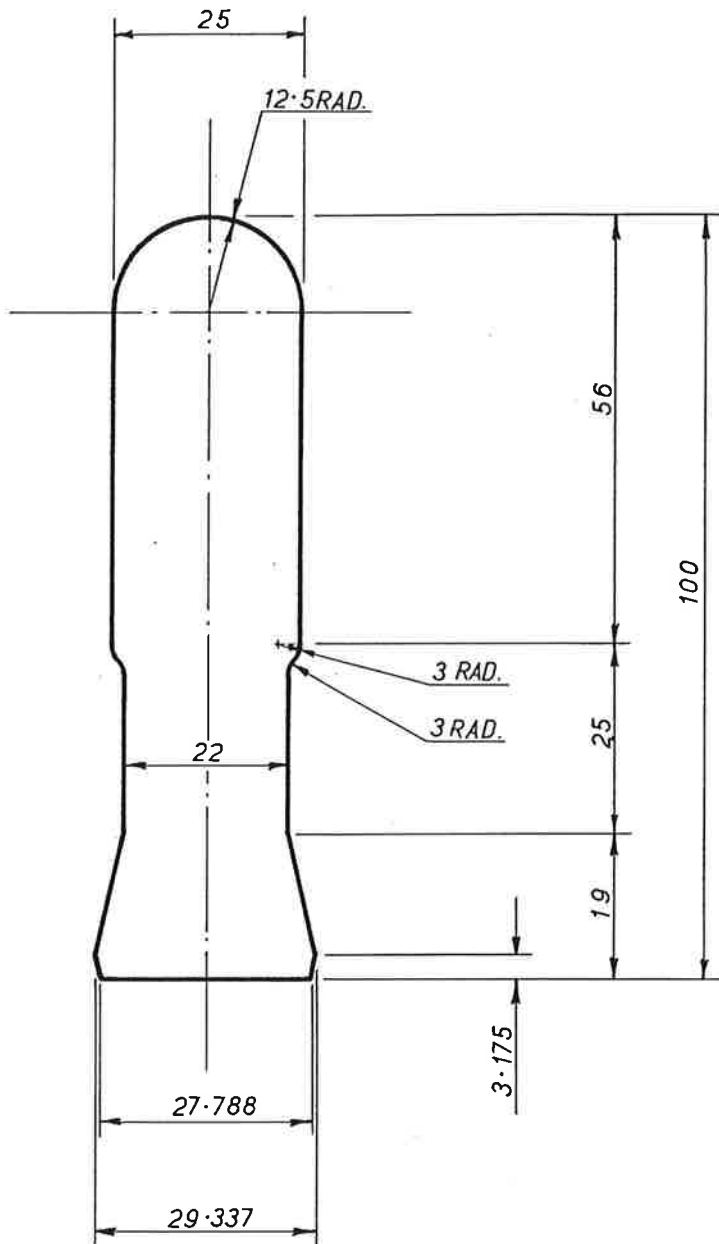
Revised

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ALL DIMENSIONS ARE IN MILLIMETRES ARE OUTSIDE AND FOR FINISHED BULBS

SPECIFICATION

WALL THICKNESS LIMITS IN MILLIMETRES

NECK	.38	.76
SIDE	.35	.76
TOP	.51	1.52

WALL THICKNESS MEASURING POSITIONS

NECK Measure at 68 Millimetres from Top of Bulb
 SIDE Measure at 28 " " " " "
 TOP Measure at Centre Top

STEM	inside Diameter	19.59	Millimetres Minimum
FLARE	inside Diameter	22.07	Millimetres Minimum
FLARE	outside Diameter	30.51	Millimetres Maximum
BULB LENGTH		100 ± 3.17	Millimetres

APPROVED

REVISED

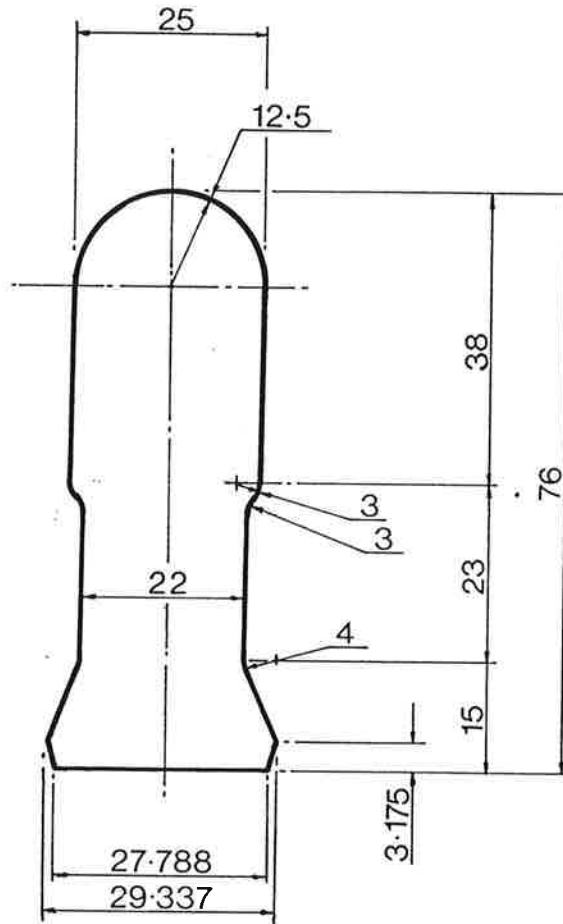
REVISED

REVISED

Ribbon Bulb Type

T 025 A

Issued 15.1.64



—WALL THICKNESS LIMITS & MEASURING POSITION—

NECK	(at 51 from bulb top)	38 - 76
SIDE	(at maximum diameter)	35 - 76
TOP	(at centre top)	51-152
STEM	Inside diameter	19.59 min.
	Outside diameter	max.
FLARE	Inside diameter	19.68 min.
	Outside diameter	30.51 max.
BULB	Outside diameter	25.0 ±1.0
	Length overall	76.0 ±317
	Calculated weight	13.00 gms.

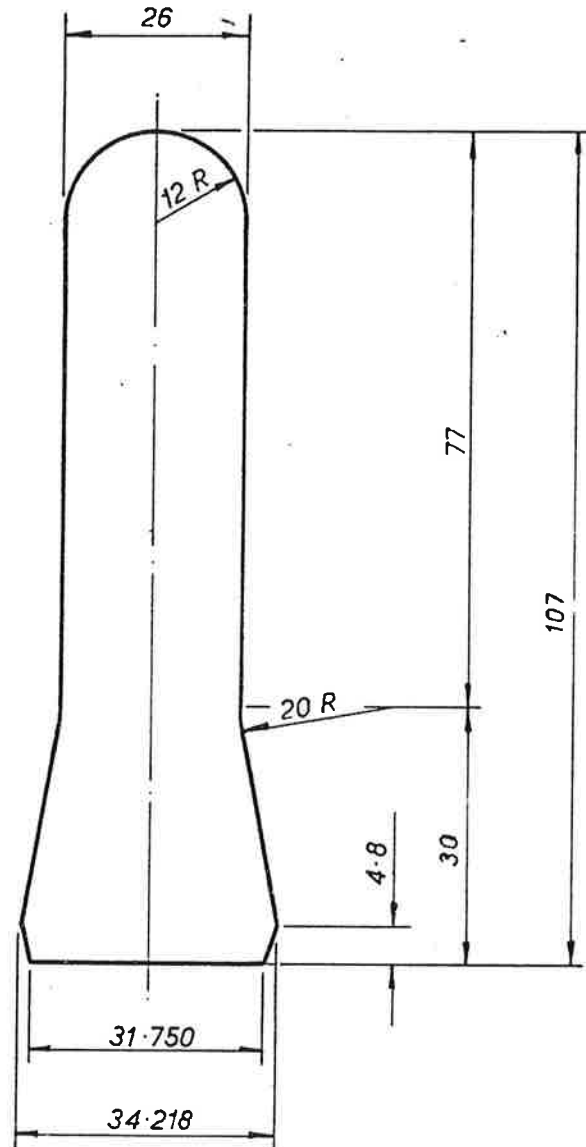
— All dimensions are in millimeters —

Approved

Revised

Revised

Revised



ALL DIMENSIONS ARE IN MILLIMETRES ARE OUTSIDE AND FOR FINISHED BULBS

SPECIFICATION

WALL THICKNESS LIMITS IN MILLIMETRES

NECK .38 - .76

SIDE

TOP .51 - 1.51

WALL THICKNESS MEASURING POSITIONS

NECK Measure at 60 Millimetres from Top of Bulb

SIDE Measure at Maximum Diameter

TOP Measure at Centre Top

STEM	inside Diameter	23	Millimetres	Minimum
FLARE	inside Diameter	26.92	Millimetres	Minimum
FLARE	outside Diameter	35.56	Millimetres	Maximum
	BULB LENGTH	107 ± 2	Millimetres	
	BULB O.D.	26 ± .8	Millimetres	

APPROVED

REVISED

REVISED

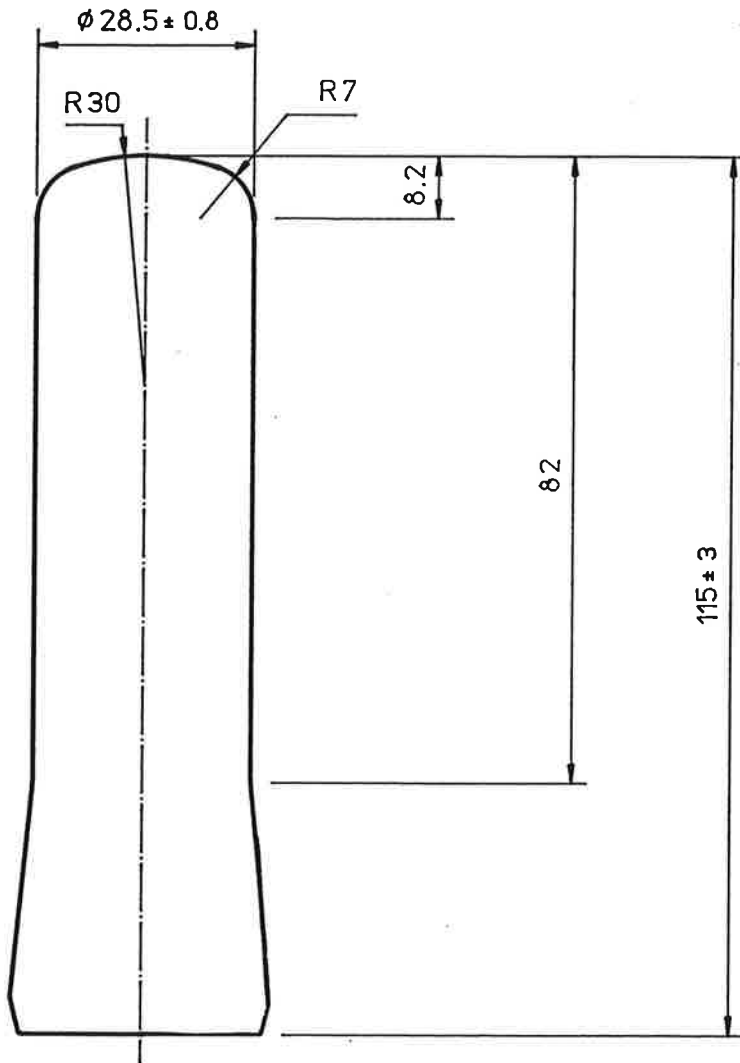
REVISED

WAS 110 12-7-66

RIBBON BULB TYPE

T028.5

ISSUE DATE 17-FEB-50



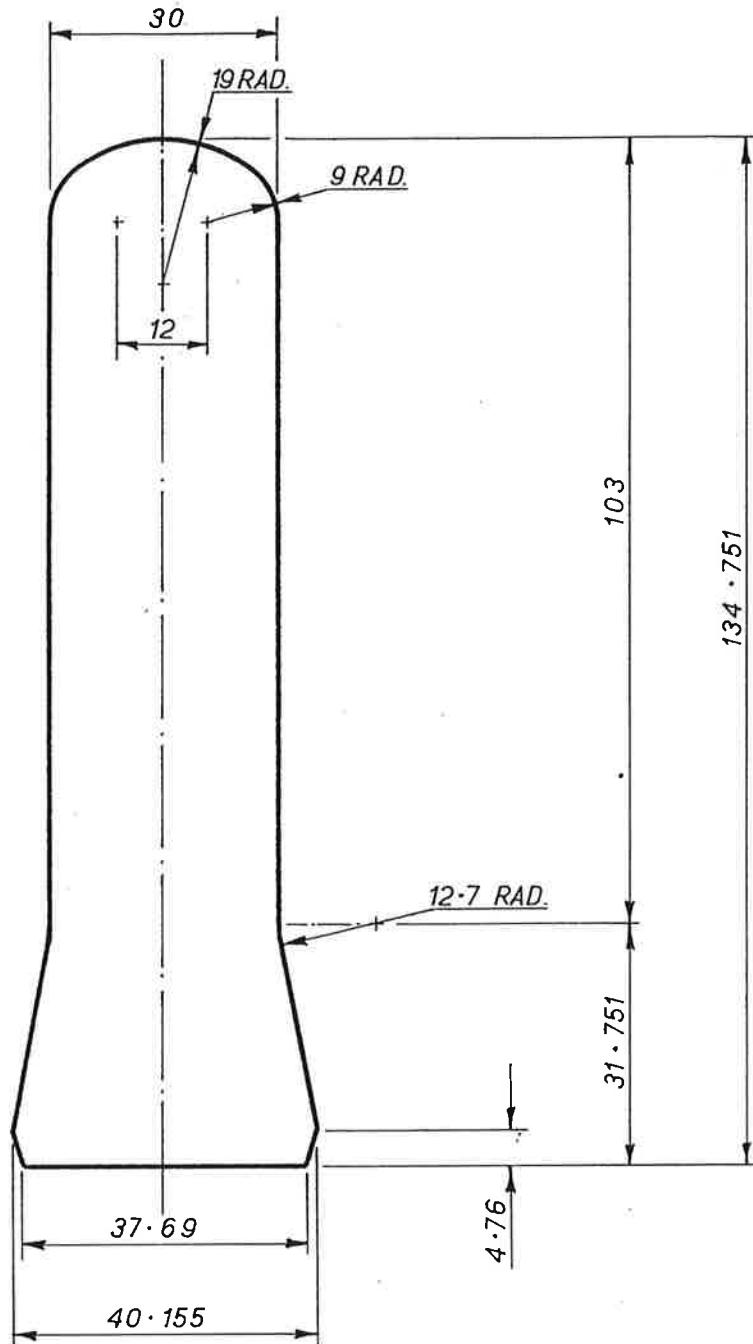
WALL THICKNESS LIMITS & MEASURING POSITION

NECK	(AT 77 FROM BULB TOP)	.43	TO	1.02
SIDE	(AT 40 FROM BULB TOP)	.43		
TOP	(AT CENTRE TOP)	.71	TO	1.40
STEM	INSIDE DIAMETER	25.7	MIN	
FLARE	INSIDE DIAMETER	26.9	MIN	OUTSIDE DIAM.35.6 MAX.

ALL DIMENSIONS ARE IN mm

APPROVED BY <i>W. Baker</i>	NO.	DATE	MODIFICATION	NO.	DATE	MODIFICATION
	1	24-5-50	REVISED	3	29-DEC-92	REVISED
APPROVED BY <i>C. Smith</i>	2	27-4-84	OUT OF ROUND ADDED	4	22-JAN-93	OUT OF ROUND DEL

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ALL DIMENSIONS ARE IN MILLIMETRES ARE OUTSIDE AND FOR FINISHED BULBS

SPECIFICATION

WALL THICKNESS LIMITS IN MILLIMETRES

NECK	.43	1.14
SIDE		
TOP	.71	1.40

WALL THICKNESS MEASURING POSITIONS

NECK	Measure at 93	Millimetres from Top of Bulb
SIDE	Measure at Maximum Diameter	
TOP	Measure at Centre Top	

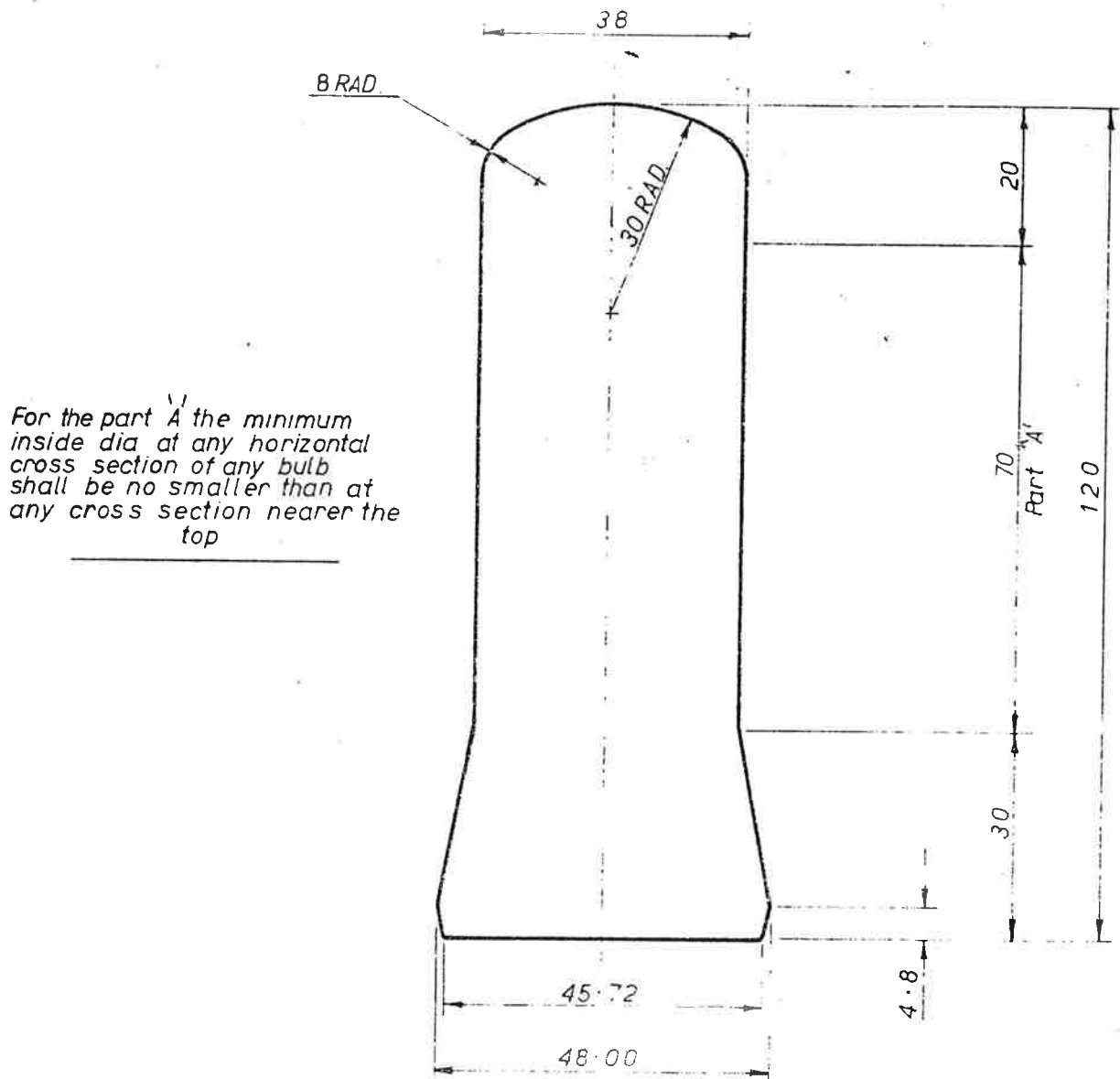
STEM	inside Diameter	27.10	Millimetres	Minimum
FLARE	inside Diameter	30.07	Millimetres	Minimum
FLARE	outside Diameter	41.298	Millimetres	Maximum
BULB LENGTH 134.751 ± 3.17 Millimetres				

APPROVED
[Signature]

REVISED
28.8.69
FLARE WAS 44.45

REVISED

REVISED



For the part A the minimum inside dia at any horizontal cross section of any bulb shall be no smaller than at any cross section nearer the top

ALL DIMENSIONS ARE IN MILLIMETRES ARE OUTSIDE AND FOR FINISHED BULBS

SPECIFICATION

WALL THICKNESS LIMITS IN MILLIMETRES

- NECK 0.75 ± 0.25
- SIDE 1.00 + 0.5 - 0.3
- TOP 1.00 + 0.5 - 0.3 — MAX SPREAD 0.5 —

WALL THICKNESS MEASURING POSITIONS

- NECK Measure at 77 Millimetres from Top of Bulb
- SIDE Measure 20 " " " " "
- TOP Measure at Centre Top

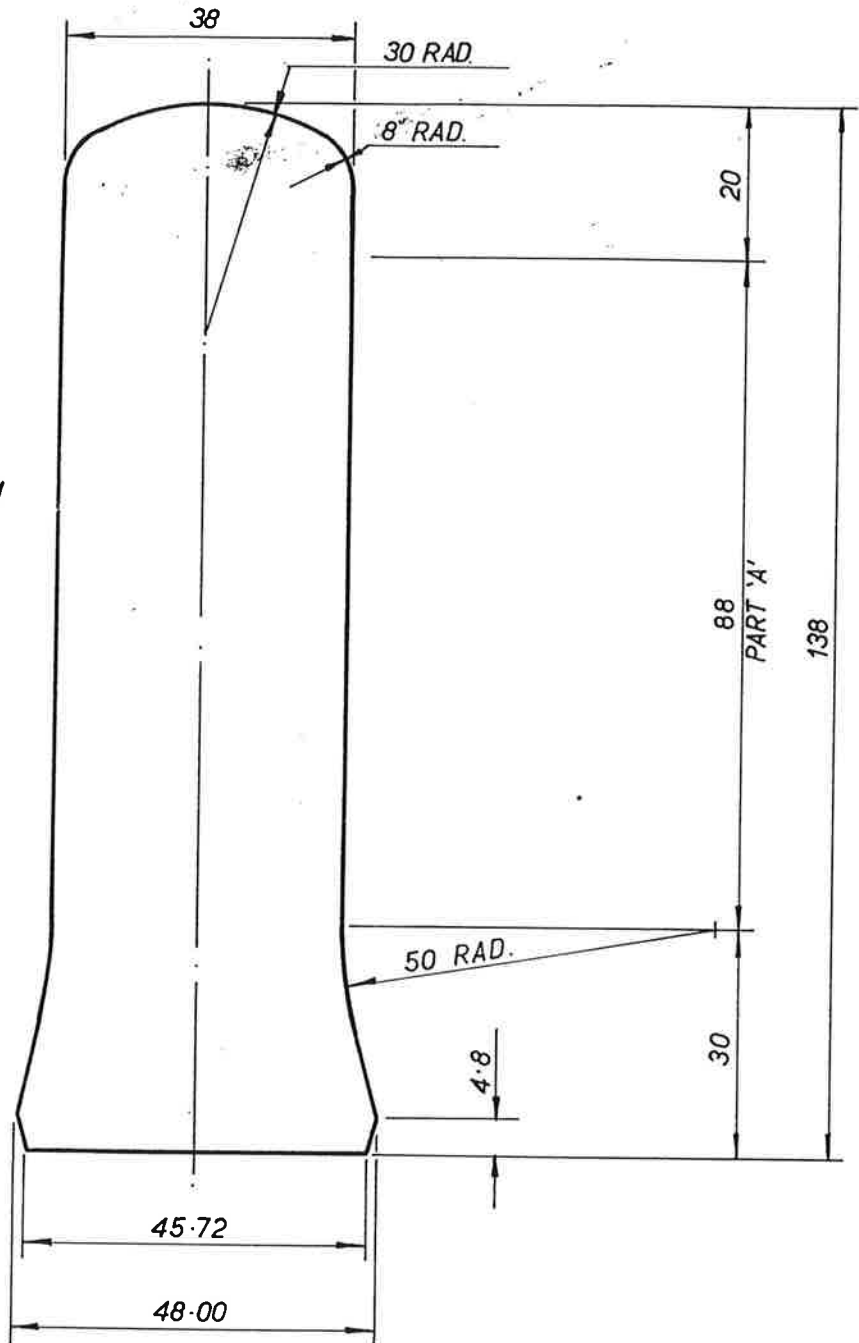
- STEM inside Diameter 35.5 ± 1.5 Millimetres Minimum
- FLARE inside Diameter 38 Millimetres Minimum
- FLARE outside Diameter 50 Millimetres Maximum
- BULB LENGTH 120 ± 2.0 Millimetres
- OUTSIDE DIA 38.6 MAX INCLUSIVE OF .75 M/M MAX. OVALITY

APPROVED

REVISED
 First Issue 27-6-61
 Second Issue 24-7-61

REVISED

PLATE SIZE
 1.800"



FOR THE PART 'A' THE MINIMUM INSIDE DIA AT ANY HORIZONTAL CROSS SECTION OF ANY BULB SHALL BE NO SMALLER THAN AT ANY CROSS SECTION NEARER THE TOP

ALL DIMENSIONS ARE IN MILLIMETRES ARE OUTSIDE AND FOR FINISHED BULBS

SPECIFICATION

WALL THICKNESS LIMITS IN MILLIMETRES

- NECK 0.75 ± 0.25
- SIDE 1.00 + 0.5 - 0.3
- TOP 1.00 + 0.5 - 0.3 MAX SPREAD 0.5

WALL THICKNESS MEASURING POSITIONS

- NECK Measure at 77 Millimetres from Top of Bulb
- SIDE 20 Measure at Maximum Diameter
- TOP Measure at Centre Top

- STEM inside Diameter 35.5 ± 1.5 Millimetres Minimum
- FLARE inside Diameter 38 Millimetres Minimum
- FLARE outside Diameter 50 Millimetres Maximum
- BULB LENGTH 138 ± 2.0 Millimetres

OUTSIDE DIA 38.6 MAX INCLUSIVE OF .75 M/M MAX OVALITY

APPROVED

REVISED

REVISED

REVISED

