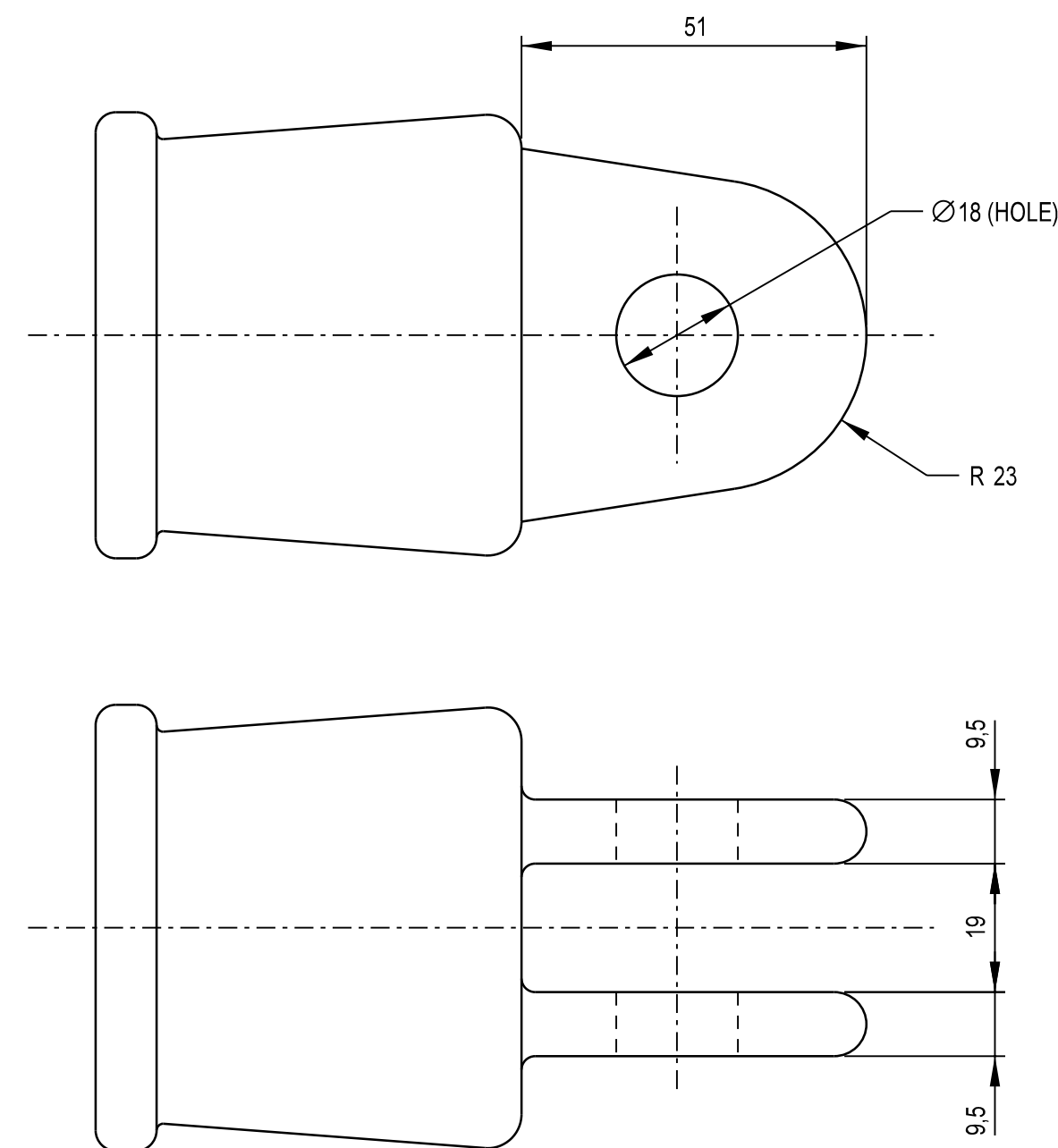
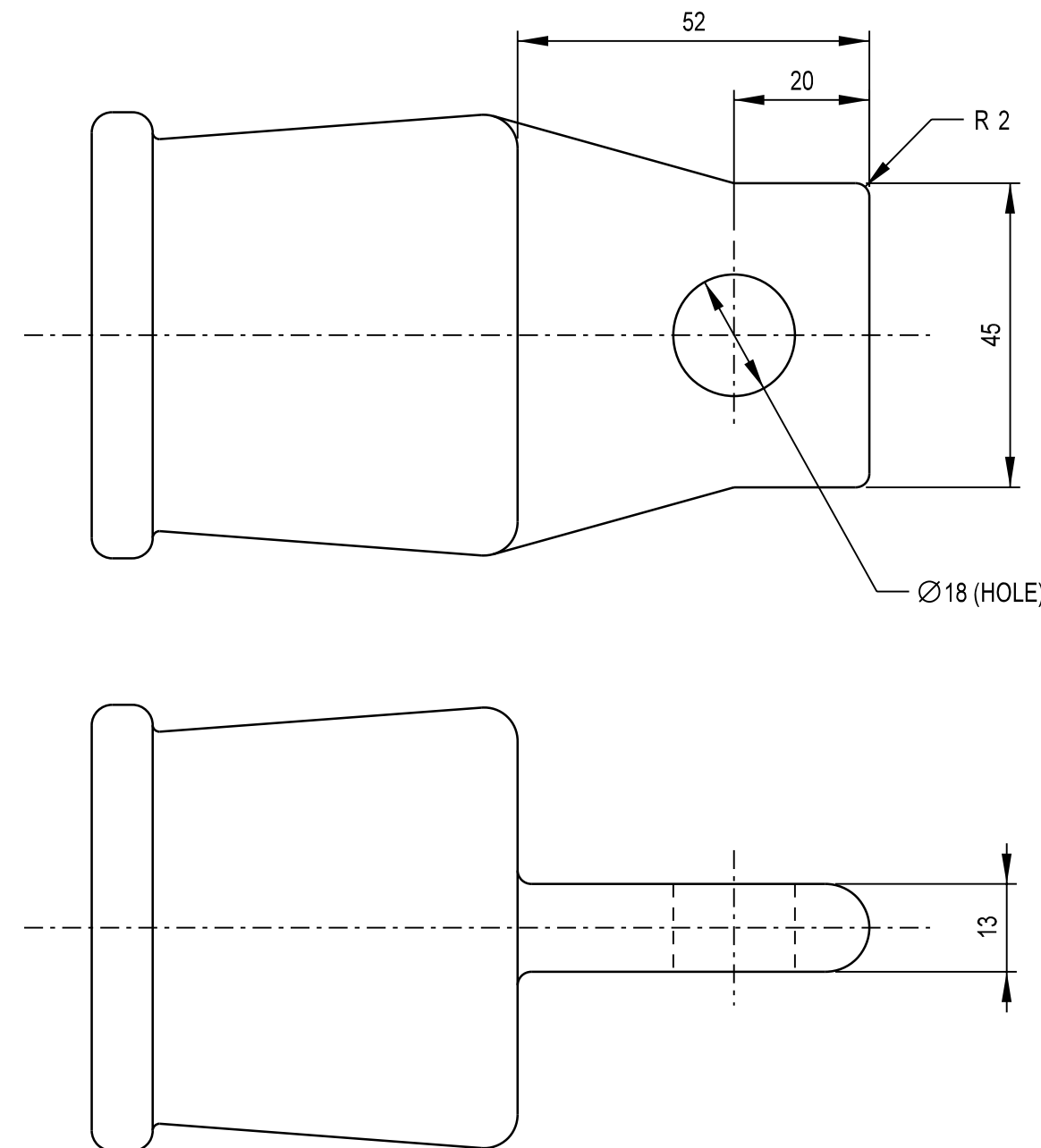
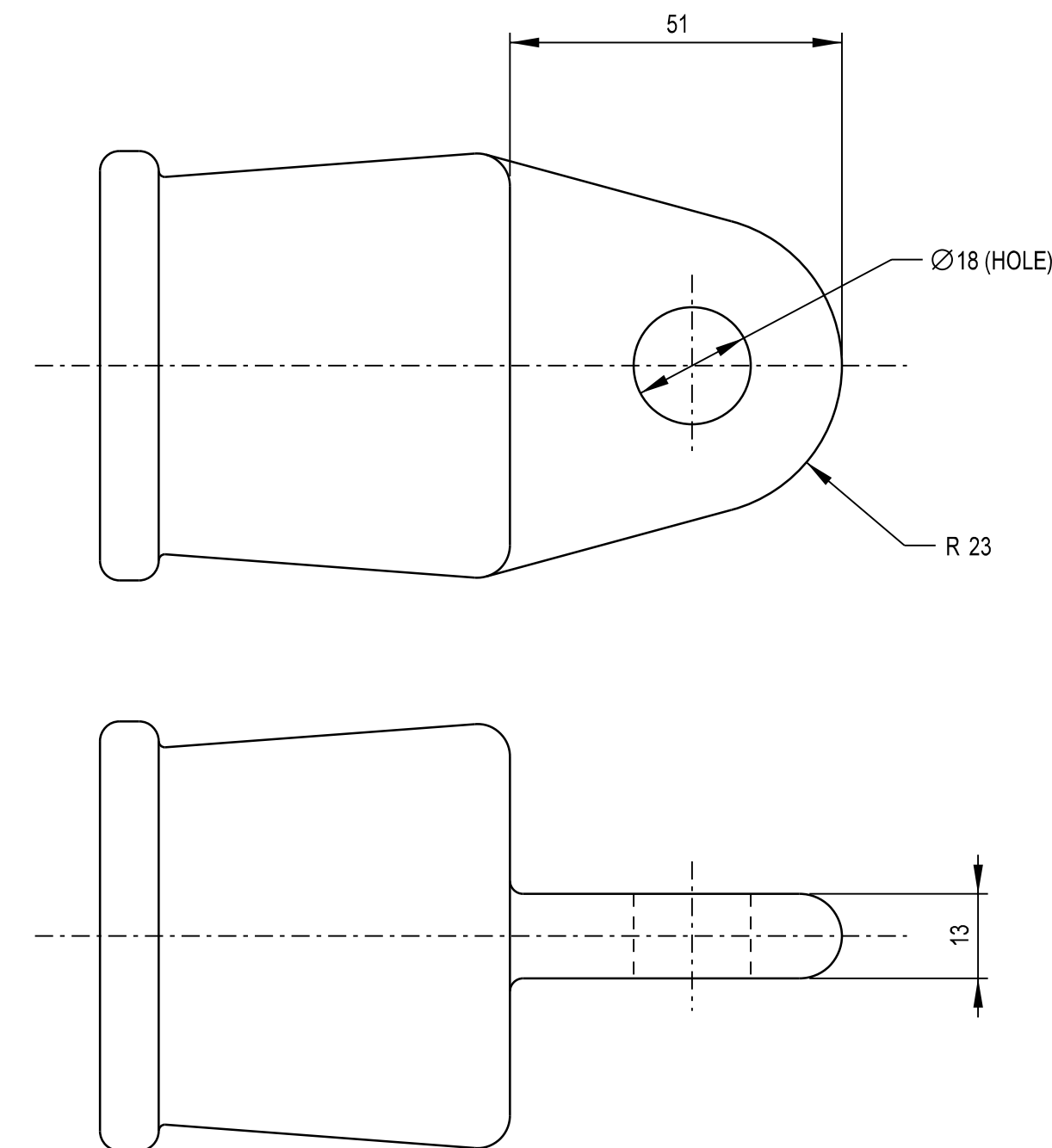




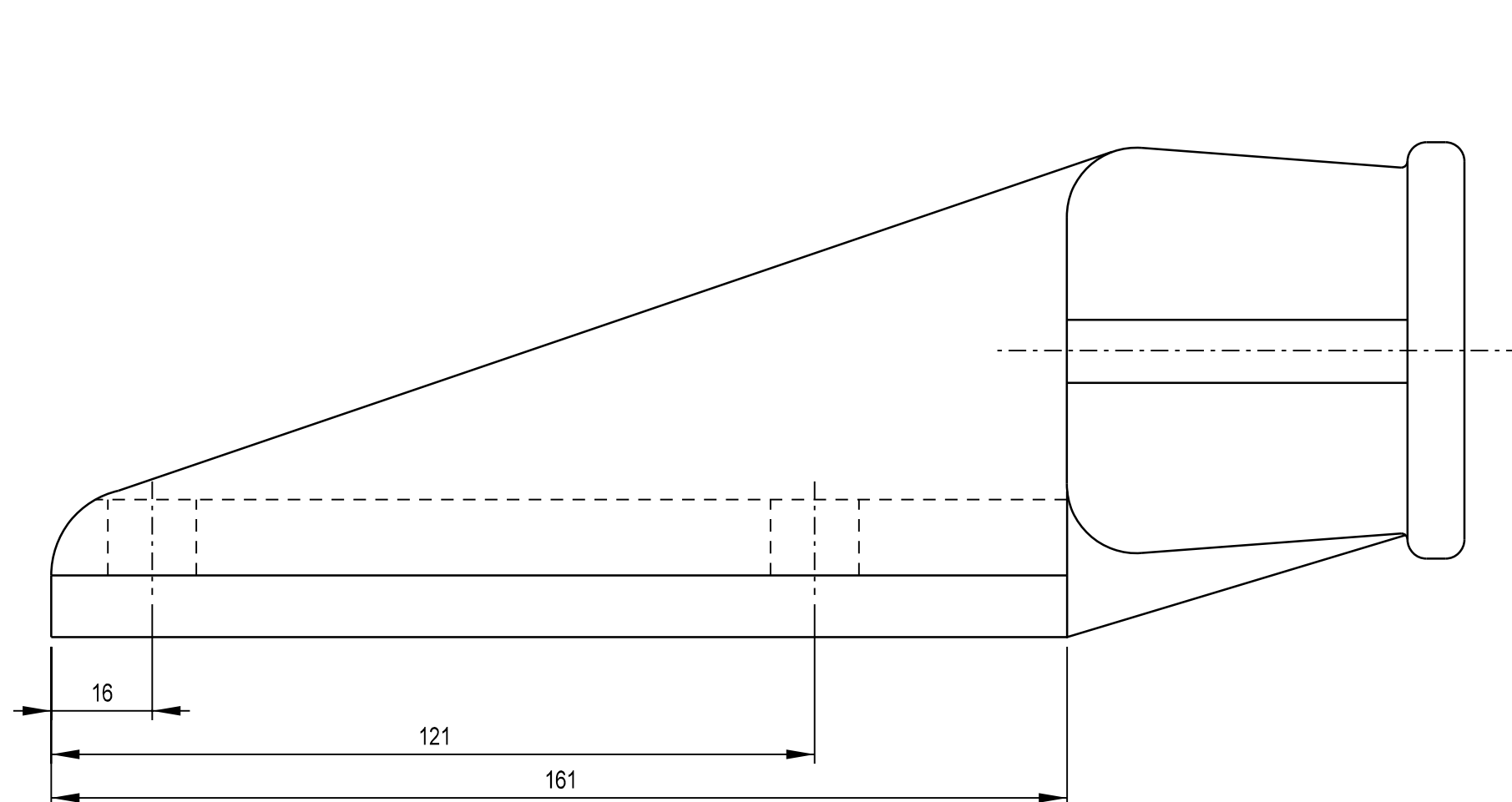
CLEVIS



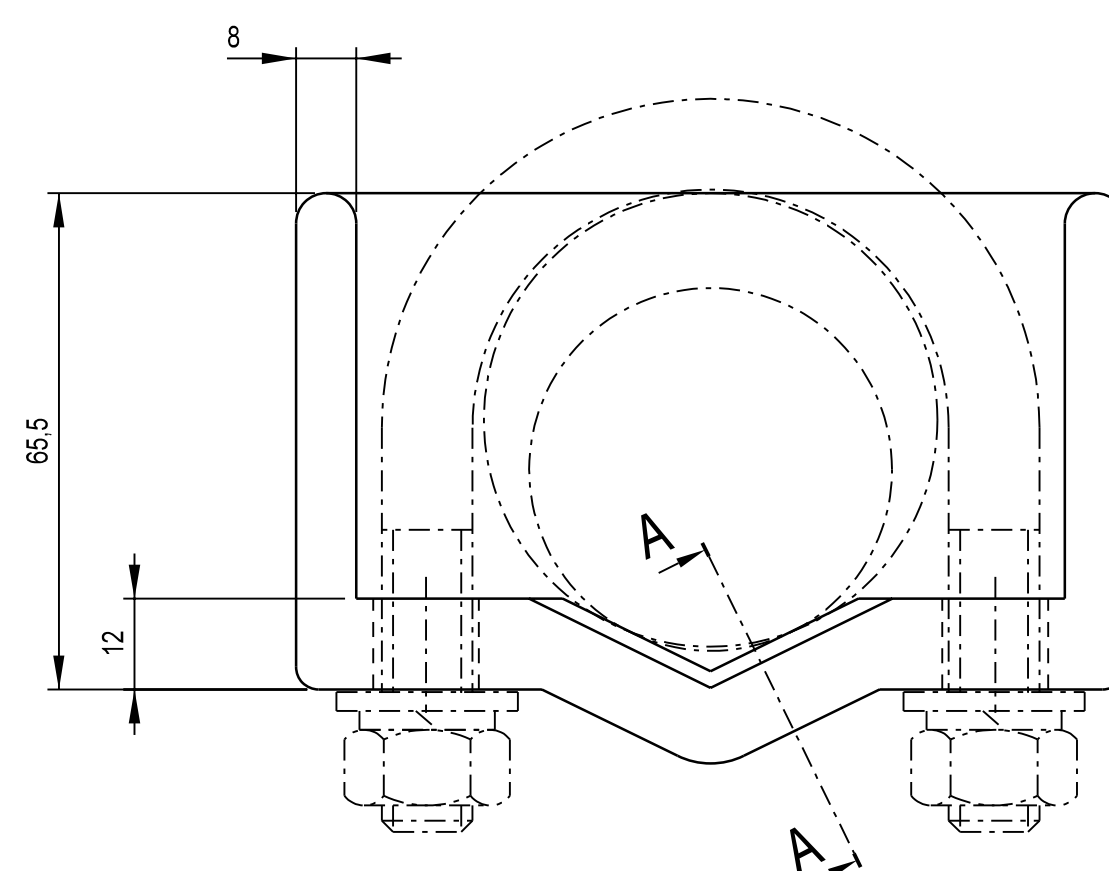
SQUARE TONGUE



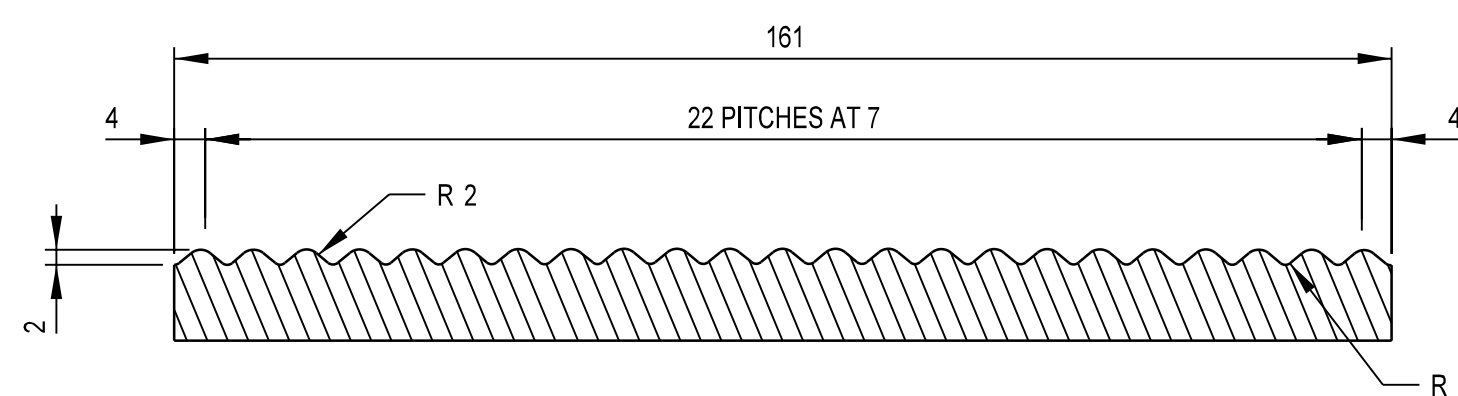
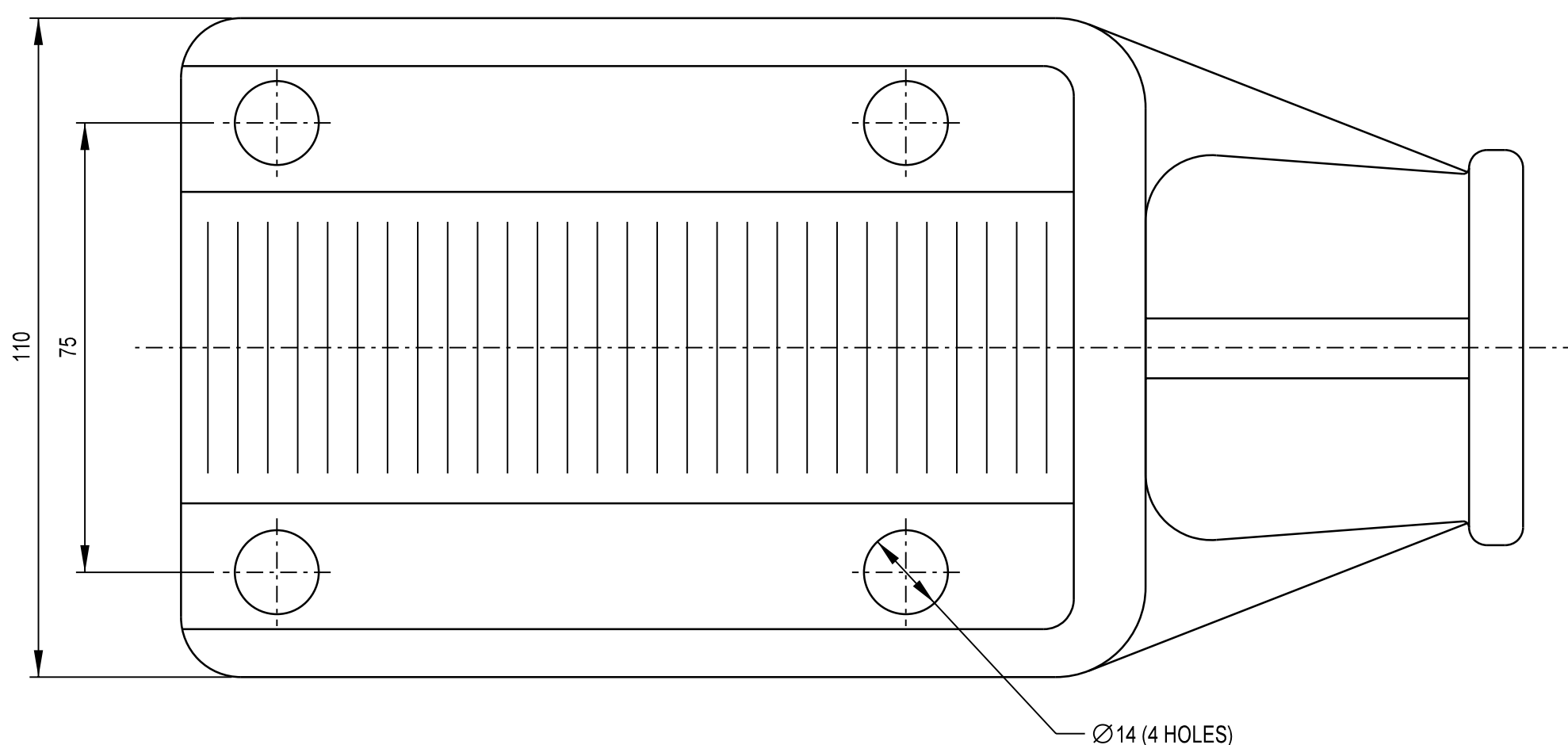
ROUND TONGUE



PIPE FITTING



TUBE FITTING



SECTION A-A

- NOTES
1. Internal and external dimensions of cap to suit insulator requirements and to be left to the manufacturer.
 2. The following permanent markings must appear on these articles:
 - A). Transnet
 - B). Maker's identification
 - C). Batch number
 3. Finish: Hot dip galvanise to Spec SANS 121
 4. For use with composite compression insulator. See Drg no BBB0429 & BBB0589

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DIMENSIONS : mm
TOLERANCE : LIN ± 1 ANG $\pm$ - ITEM NO : -
MATERIAL : Spheroidal graphite iron to Spec. SANS 936 grade SG 50
VERSION INFO : Revised, tube fitting detail added

SCALE : 1 : 1

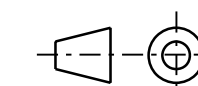
DO REF : CDO/5980
ECP REF : BBC8794
DRAWN : D.A. Ballabio
DESIGNED : -
CHECKED : J.D. van Dyk

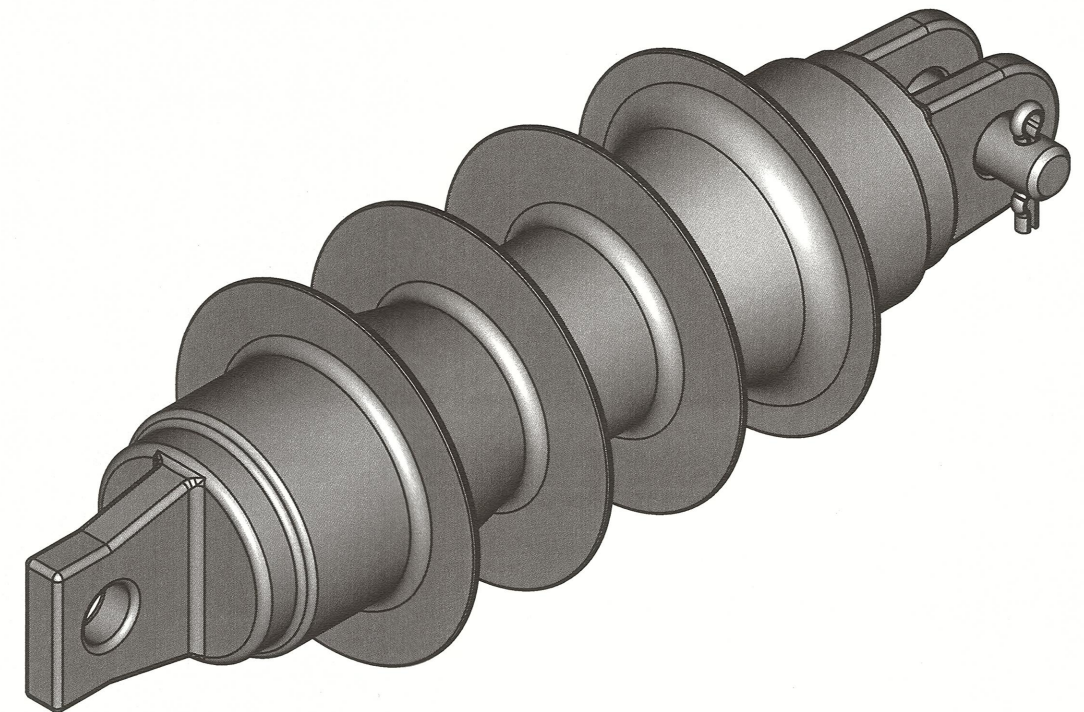
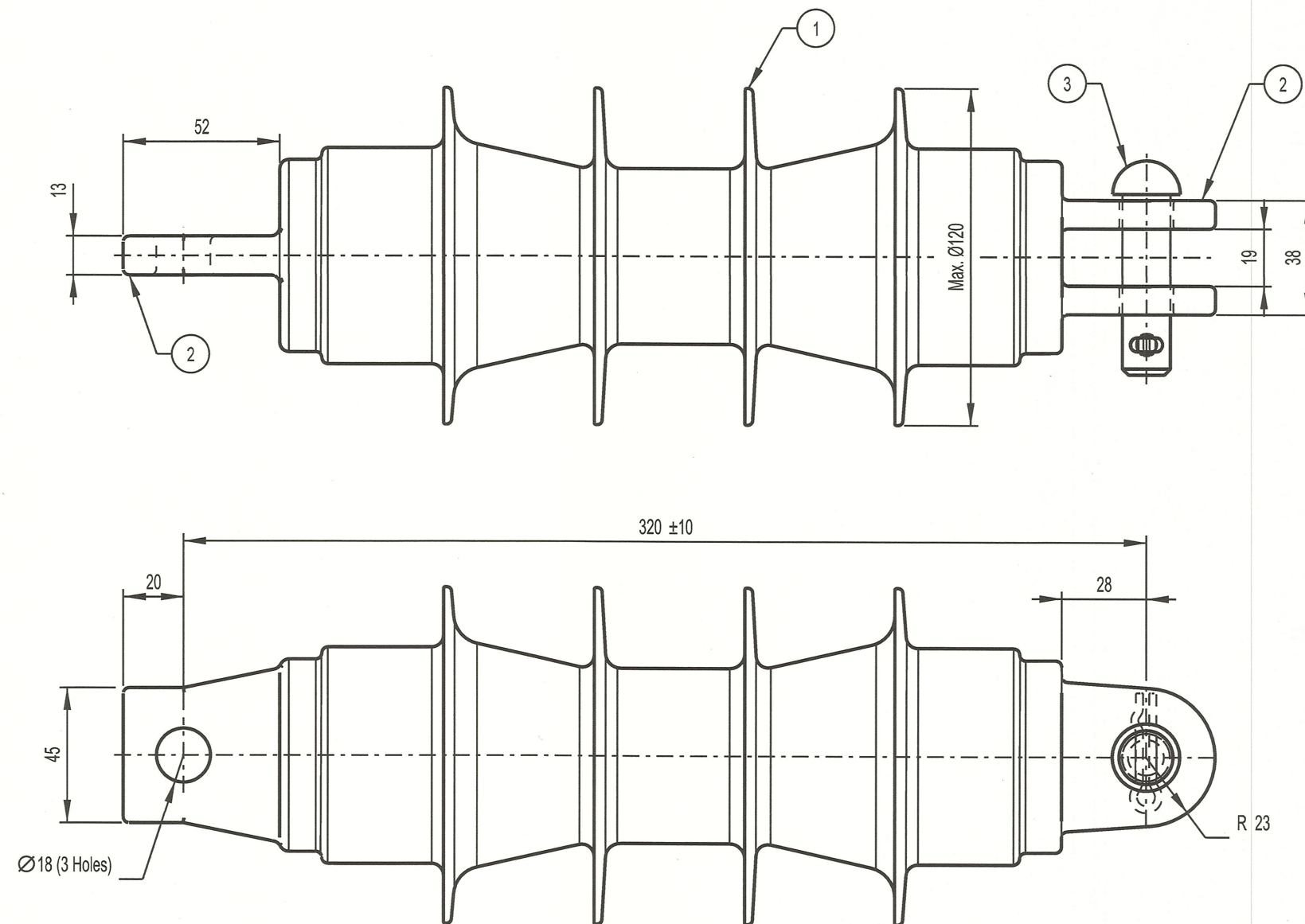
APPROVED

AUTHORISED

CLEVIS, TONGUE AND PIPE END FITTINGS FOR COMPOSITE
VANDAL PROOF COMPRESSION INSULATORS
3kV DC AND 25kV AC

TRANSNET
freight rail
BBB0430
VERSION 3





NOTES

1. This insulator to be used for all applications in high risk areas (to be used on compression arrangements e.g. PPO arrangements on curved tracks).
2. Insulator to be tested in accordance with Standard SANS 61109 for composite insulators.
3. Vandal proof properties of insulator to be equal or better than the "Rodurflex" traction insulators.
4. This is a typical drawing only (detail shed and end fittings design to suit application).
5. End fittings to be hot dipped galvanised to SANS 121
6. Insulator must be completely sealed for outdoor use.
7. The following permanent markings must appear on the insulator
 - a) Manufacturers Name or Logo
 - b) Dated Batch number
 - a) Minimum tensile breaking load = 54kN

Table A: ITEM 2	
Square tongue / Clevis	54032577
Square tongue / Pipe fitting	54033825

DESIGN INFORMATION

Minimum tensile breaking load	54kN
Compression load	23.5kN
Minimum bending load	6kN
Minimum creepage path	380mm
Minimum arcing distance	200mm
Minimum number of sheds	4
Lightning impulse withstand voltage	130kV
Withstand alternating voltage under rain	40kV

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DIMENSIONS : mm SCALE : 1 : 2
 TOLERANCE : LIN± - ANG± - ITEM NO : -
 MATERIAL : -
 VERSION INFO : Redrawn, notes and Specifications updated

+ 12/07/2018

[Signature]

APPROVED

+ 12-7-2018

[Signature]

AUTHORISED

ITEM NO	DESCRIPTION	QTY	STORES ITEM NO	DRAWING NO
3	Clevis pin Ø16 x 60 long complete with locking split pin.	As required	54004020	CEE - TX-0066
2	End fittings: HDG spheroidal graphite iron to spec SANS 936 grade SG 50	As required	-	BBB0430
1	Insulator: Ultra violet resistant, water repellant, synthetic rubber insulation e.g. silicon rubber	1	-	-

VANDAL PROOF COMPRESSION INSULATOR (COMPOSITE)
 3kV DC

TRANSNET
 freight rail
 BBB0589
 VERSION 3
 A3