



सत्यमेव जयते

भारत सरकार / Government of India  
भाभा परमाणु अनुसंधान केन्द्र / Bhabha Atomic Research Centre  
यूरेनियम निष्कर्षण प्रभाग / Uranium Extraction Division

Ref: UED/Pl.13/22/30420

Dated: 17/03/2022

## **TENDER ENQUIRY – TWO PART**

**TENDER NO : BARC / UED/ AR/ 21152**

**START DATE: Feb 19, 2022**

**END DATE: March 04, 2022**

**Subject: Fabrication and Supply of Graphite Crucible and Liner**

Dear Sir/Madam,

Quotations are invited in sealed envelope for and on behalf of The President of India acting through Head, UED for supply of above item as per the following terms and conditions. The tender is a **two-part tender** where in the party needs to provide **Part A (Technical) and Part B (Financial) Bid in two separate envelopes**. The party needs to mention Part-A (Technical) and Part B (Financial) clearly on the envelope.

**Both the envelopes are to be put in a third single envelope and sent through Speed/Registered Post Only.** Please note that quotations shall be submitted on **printed letterheads and must bear PAN NO / GSTIN** etc. Quotations not complying with them are liable to be rejected. **The party should clearly write Tender No. and the due date on the top of the third single envelope.** Part A will be opened as per due date; Part B will be opened only after scrutinizing the technical part by the appropriate committee or authority. Only the Part B of technically suitable offer will be opened for further processing.

**Note:** *The offer with the single bid (either Part A or Part B only) or non-compliant to above format will be considered as invalid offer.*

The quotations are to be sent to

The Head UED  
RUMP Building, Uranium Extraction Division (South Site)  
Bhabha Atomic Research Centre  
Trombay, Mumbai – 400085

*The quotations should reach UED Office only after the Start Date and on or before the End Date otherwise the quotations shall be deemed invalid.*

## 1. Description of work:

- i. Fabrication and Supply of graphite Crucible and Liner as per the table given below and attached drawings.

S. No	Item Description	Quantity
1	Crucible 1 T v4.0.1	4 Nos.
2	Graphite Liner v2	3 Nos.
3	Graphite Liner v3	4 Nos.
4	Cover Disk -3	4 Nos.
5	Graphite Liner v4	3 Nos
6	Cover Disk-4	3 Nos

- ii. The jobs require strict compliance with precision and soft handling due to fragile nature of the Liners. The Supply of liners is to be made by proper packaging so as to not damage the material in transportation.

- iii. **The Material must conform to the following physical and Chemical Properties**

Sr. No.	Properties	Value	Sr. No.	Element	Conc. in ppm (max)
1	Apparent Density	1.67 gm/cc (min.)	8	Calcium (Ca)	500
2	Porosity	20% (Maximum)	9	Silicon (Si)	500
3	Particle size	0.8mm (max.)	10	Sulphur (S)	500
4	Volatile Matter	0.2% (max.)	11	Aluminum (Al)	200
5	Ash Content	0.32% (max.)	12	Nickel (Ni)	10
6	Carbon (C)	99.5% (min.)	13	Boron (B)	5
7	Iron (Fe)	0.1% (max.)	14	Cadmium (Cd)	5

- iv. For testing of raw material quality, contractor should supply a “machined test specimen” in the form of a solid cylinder [ $\varnothing 2" \times H6"$ ] or a rectangular block [ $2" \times 2" \times 6"$ ]. **Quotations without the machined test specimen may not be considered.** Apart from this, the supplier has to furnish the raw material test certificate for chemical and physical from a reputed govt. approved laboratory along with the offer. **After supply is made, similar testing shall be done randomly from the supplied components/items and in case the results (Raw material result and finished product result) do not match with each other, material will be rejected and no payment will be made.**

2. **FIM:** NO FIM.

3. **Work Completion:** *Within 4 months* from the date of receipt of the order.

4. **Inspection Testing/Reports:**

- a) Material Testing Reports and other inspection reports carried out from time to time are to be submitted in Soft Copy / Hard Copy Format.

**5. Technical Bid:**

- a. Party should preferably be a manufacturer of graphite. A certificate to that effect has to be provided by the participating party.
- b. Party shall have to provide product catalogue or Purchase Order copies with detailed information on type of products made / manufactured by the party along with the Graphite purity details.
- c. The party should have an experience of fabricating both heavy crucibles as well as thin liners (which are fragile).
- d. General details of the Procedure used to make the crucible and tolerance range that can be complied by the party is to be provided.

**6. Financial Bid:** Must clearly give basic cost and break up of all the Taxes/ Transportation/ Labor charges.

**7. Guarantee/Warranty:** Trouble free performance for 1 years from the date of work completion with free repair/replacement against defective material/faulty workmanship.

**8. Income tax:** Income Tax @ 2% (on providing ITR for last 2 financial years) else @ 5% and GST TDS @ 2% shall be deducted from vendor's bill.

**9. Payment:** 100% after satisfactory completion of work and submission of the following documents.

- i. Delivery Challan
- ii. Original Bill
- iii. Advance Stamped Receipt
- iv. Guarantee Certificate
- v. ECS mandate form
- vi. GST Undertaking (Annexure II)

**Note:**

*This is to clarify that BARC is the final consumer of the Goods/Services being procured through this tender and does not intend to make any outward supply. BARC will not avail benefits of Input Tax Credit and hence goods can be supplied without Quoting GSTIN of BARC, MUMBAI on the invoice. The invoices taxed under GST, as per rates applicable under GST Schedule, shall be admitted for payment.*

*This is to certify that concessional GST (5% in current case) will be applicable for supply of material to BARC against this work order vide office notification BARC/GST/12/2017 dated 27/12/2017. GST Exemption Certificate shall be provided*

**Please note that any delay, which is attributable to the party, is liable to penalty @ 0.5% per week (max. 5.0%) to be imposed on the contractor.**

## 10. Terms and Conditions:

Note: [Reference: (2/Misc-9/Lgl/2001/92 dated April 30,2001, BARC)]

- a) **Confidentiality:** No party shall disclose any information to any third party **concerning** the matter under this contract generally. In particular, any information identified as "**Proprietary**" in nature by the disclosing party shall be kept strictly confidential by the receiving party and shall not be disclosed to any third party without the prior written consent of original disclosing party. This clause shall apply to sub-contractors, consultants, advisors or the employees engaged by a party with equal force
- b) **Restricted information: Categories under section 18 of the Atomic Energy Act, 1962 and "Official Secrets" under section 5 of the official Secret Act, 1923** - Any contravention of the above-mentioned provisions by any contractor, sub- contractor, consultant, adviser or the employees of a contractor will invite penal consequences under the aforesaid legislation.
- c) **Prohibition against use of BARC'S name without permission for publicity purpose:** The contractor or sub-contractor, consultant, adviser or the employees engaged by the contractor shall not use BARC'S name for any publicity purpose through any public media like press, Radio, TV, or Internet without the prior written approval of BARC.

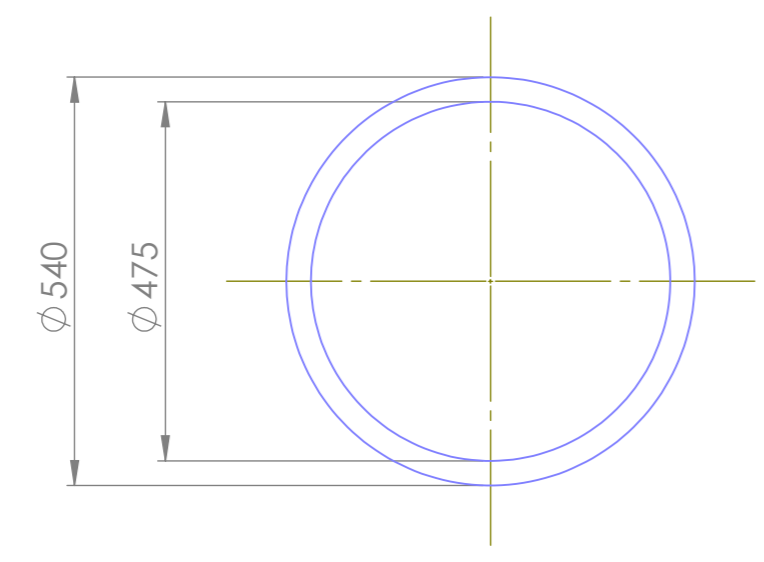
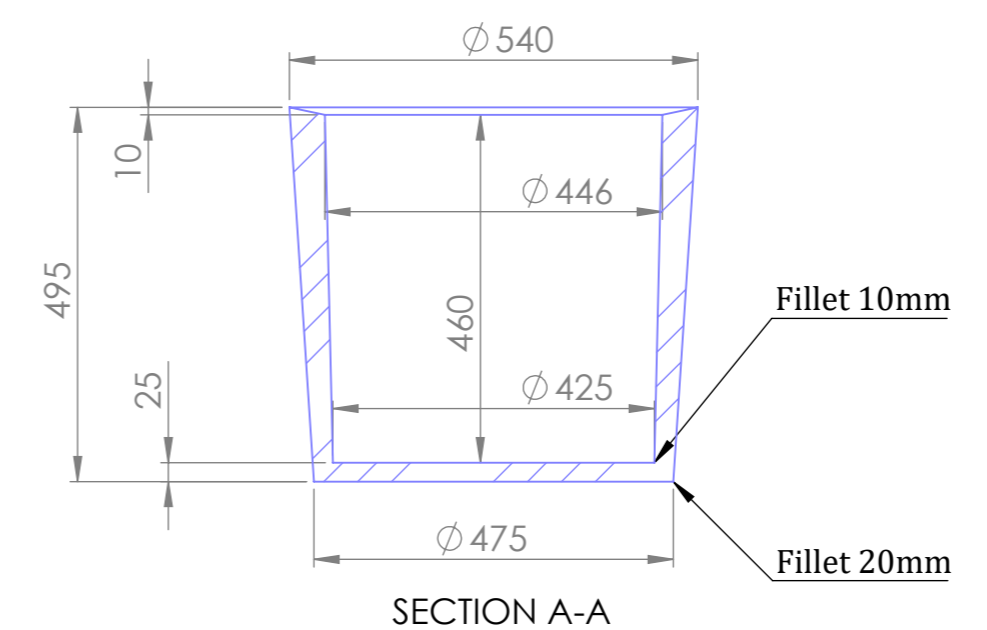
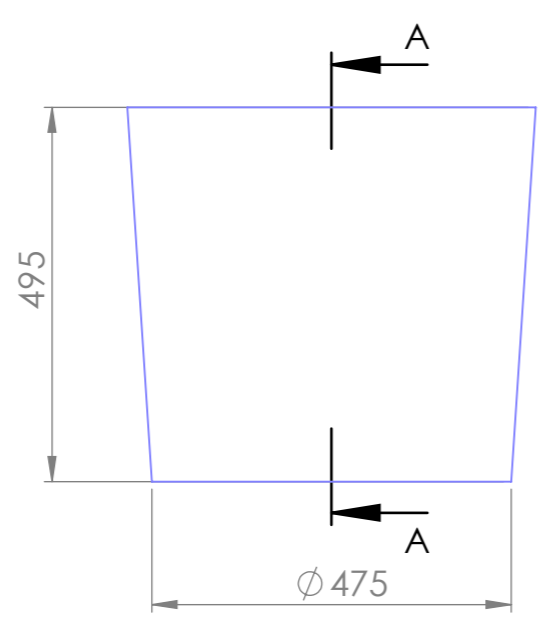
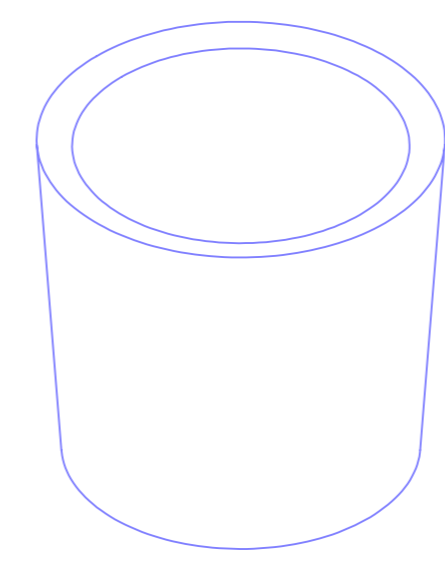
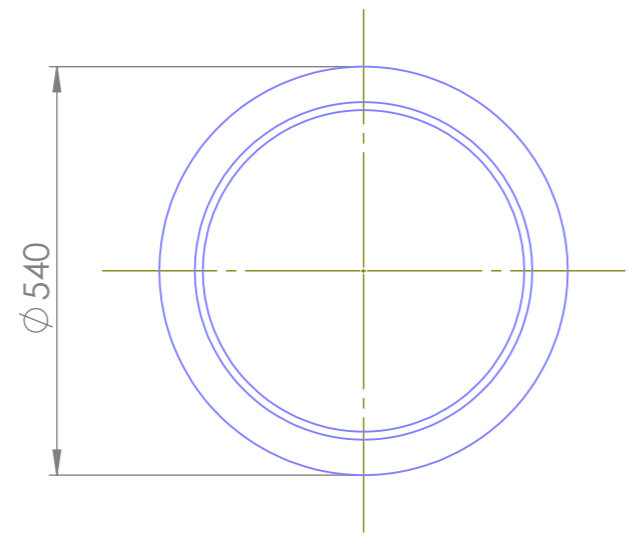
Thank you

Ph: 022-2559-6017  
email: [amulya@barc.gov.in](mailto:amulya@barc.gov.in)  
Place: Mumbai



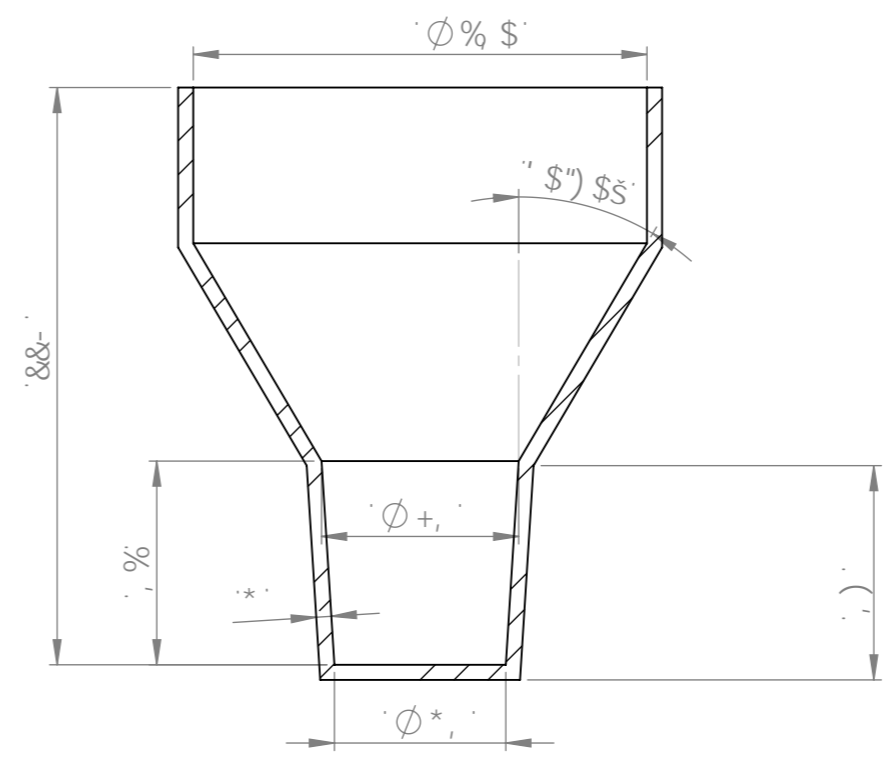
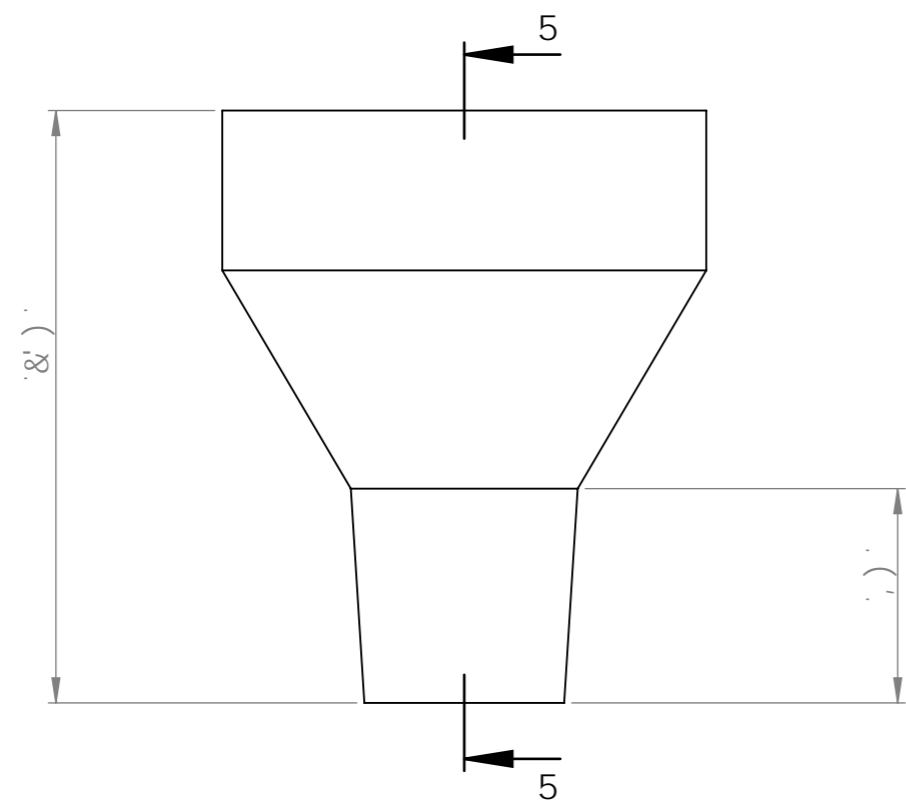
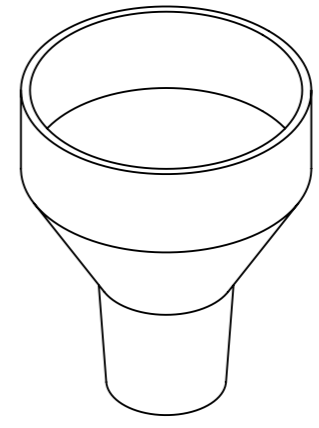
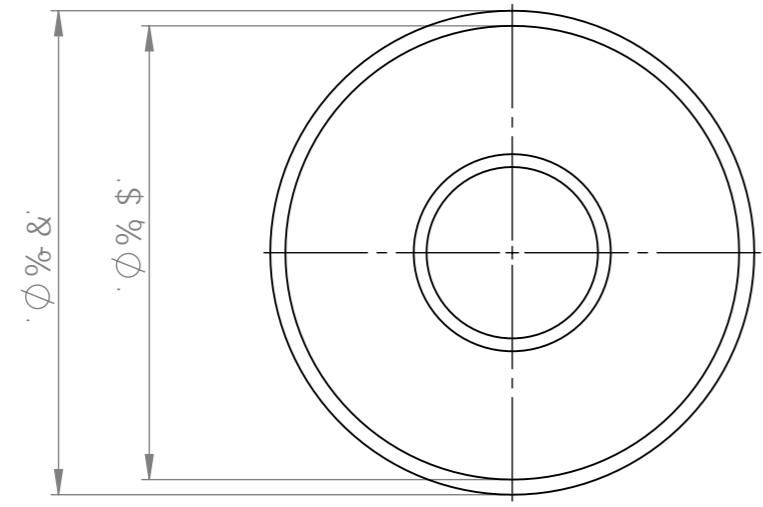
Amulya Raina (SO/D)  
UED, BARC

अमूल्य रेना / Amulya Raina  
वैज्ञानिक अधिकारी ( D ) / Scientific Officer ( D )  
युरेनियम निष्कर्षण प्रभाग / Uranium Extraction Division  
भारत सरकार / Government of India  
भाभा परमाणु अनुसंधान केन्द्र / Bhabha Atomic Research Centre  
ट्रॉम्बे, मुंबई - 400085. / Trombay, Mumbai - 400085



Approx Mass : 55kg

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:			FINISH:		DEBURR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION		
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APPV'D									A3		
MFG									WEIGHT:		
Q.A									SCALE:1:10		
									SHEET 1 OF 1		

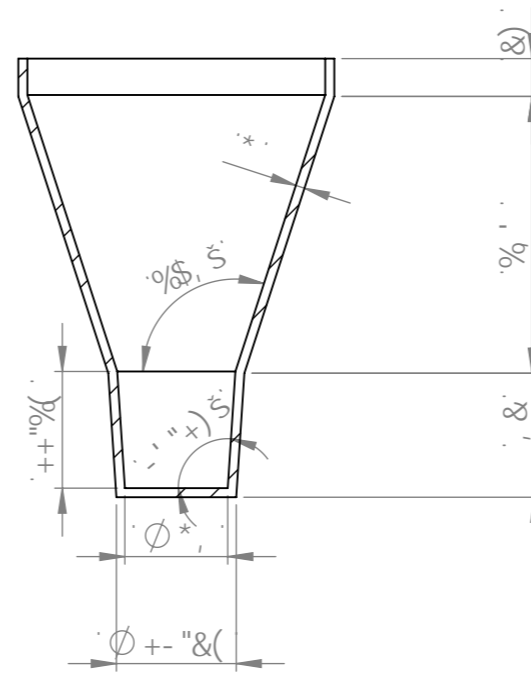
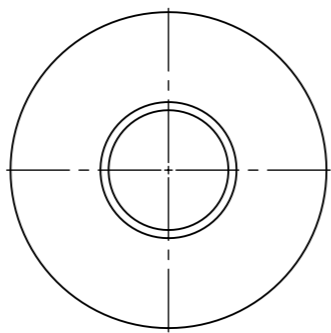
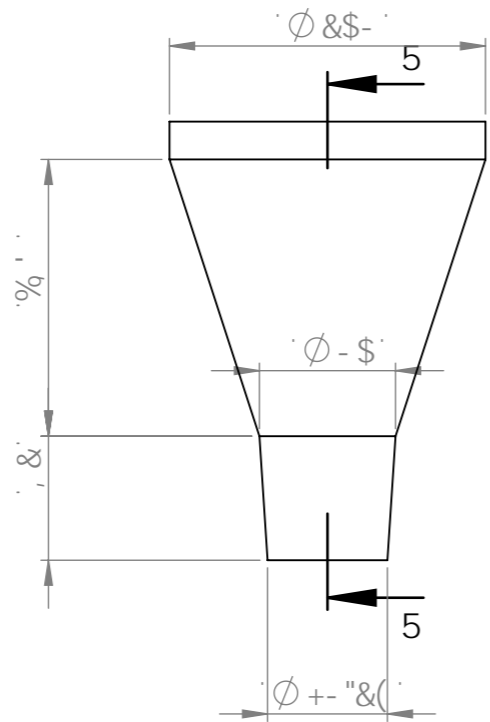
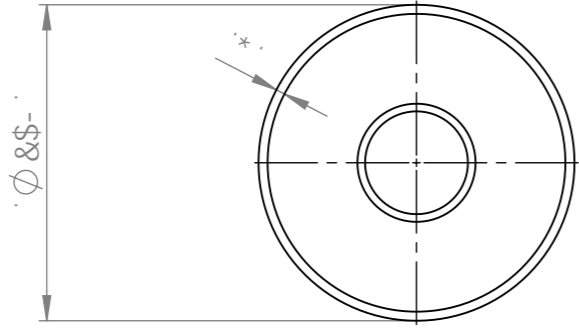


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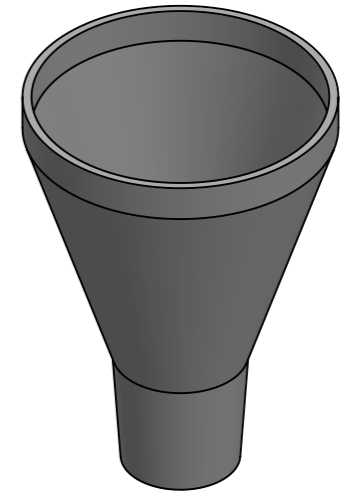
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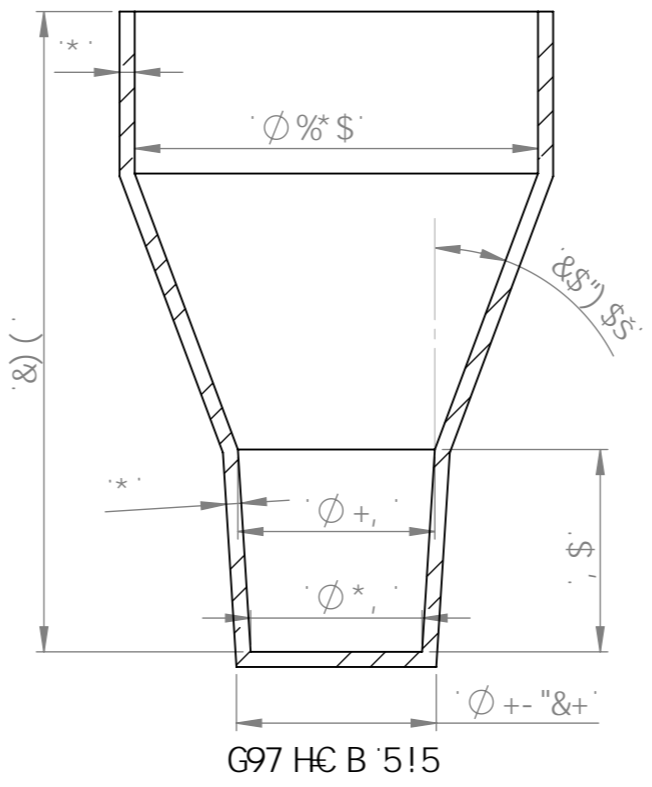
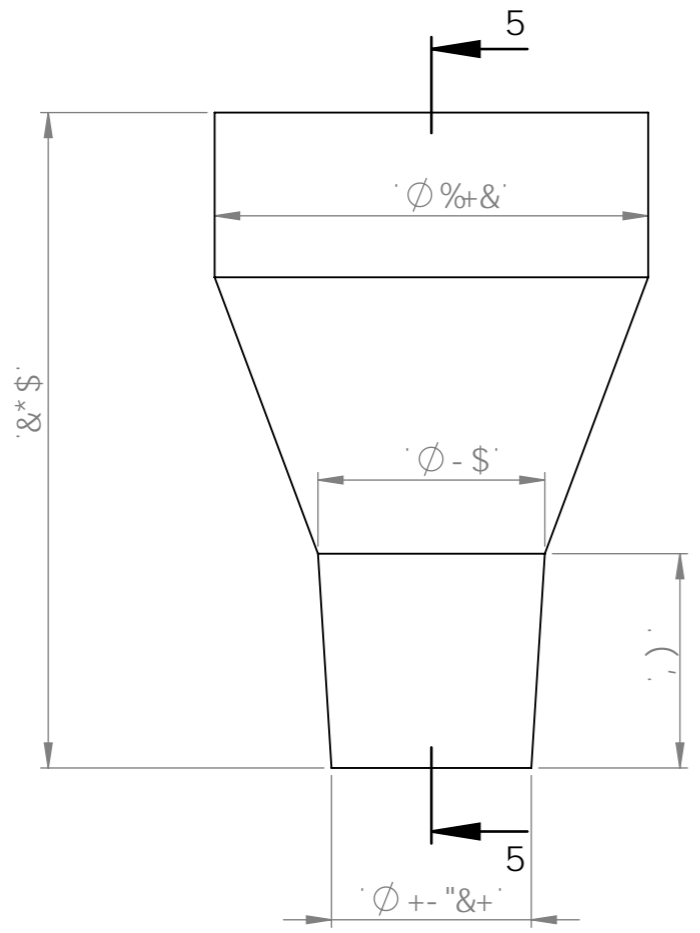
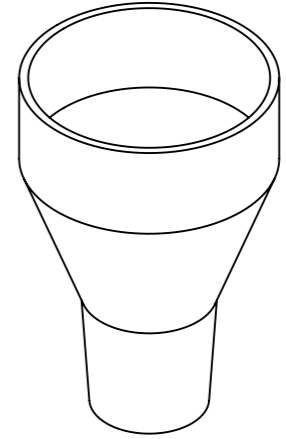
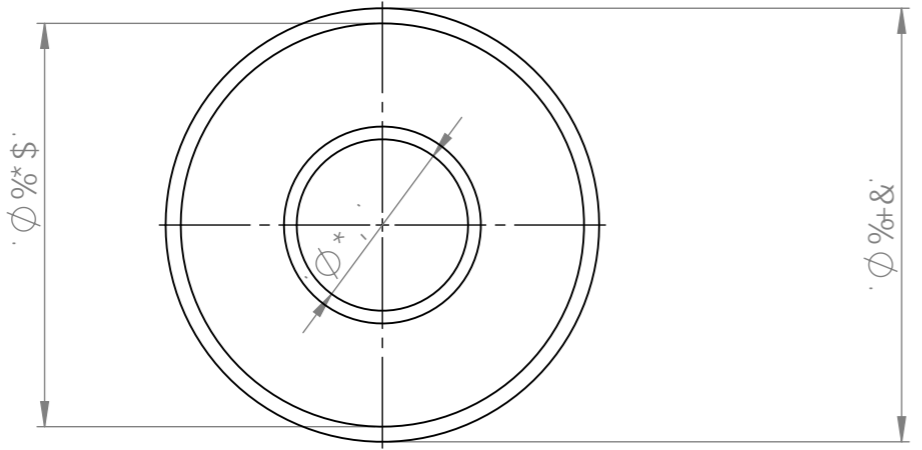


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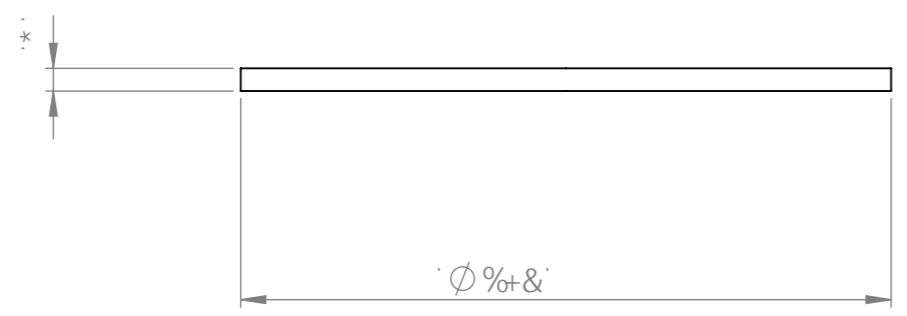
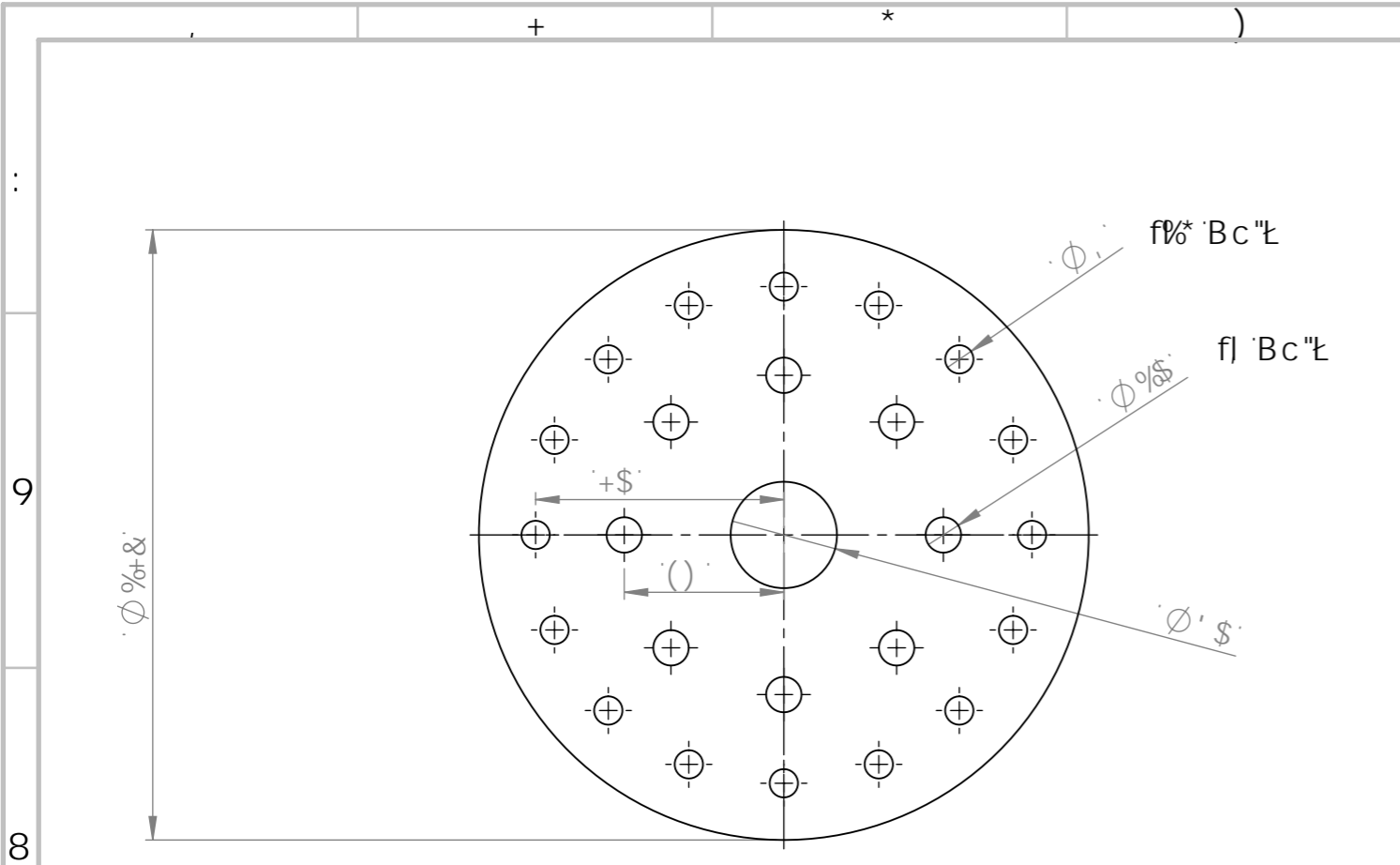


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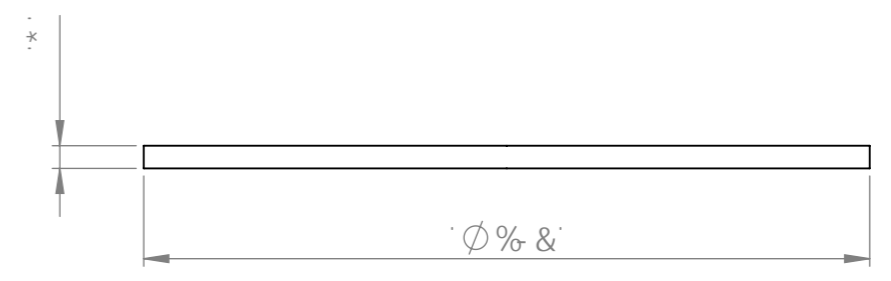
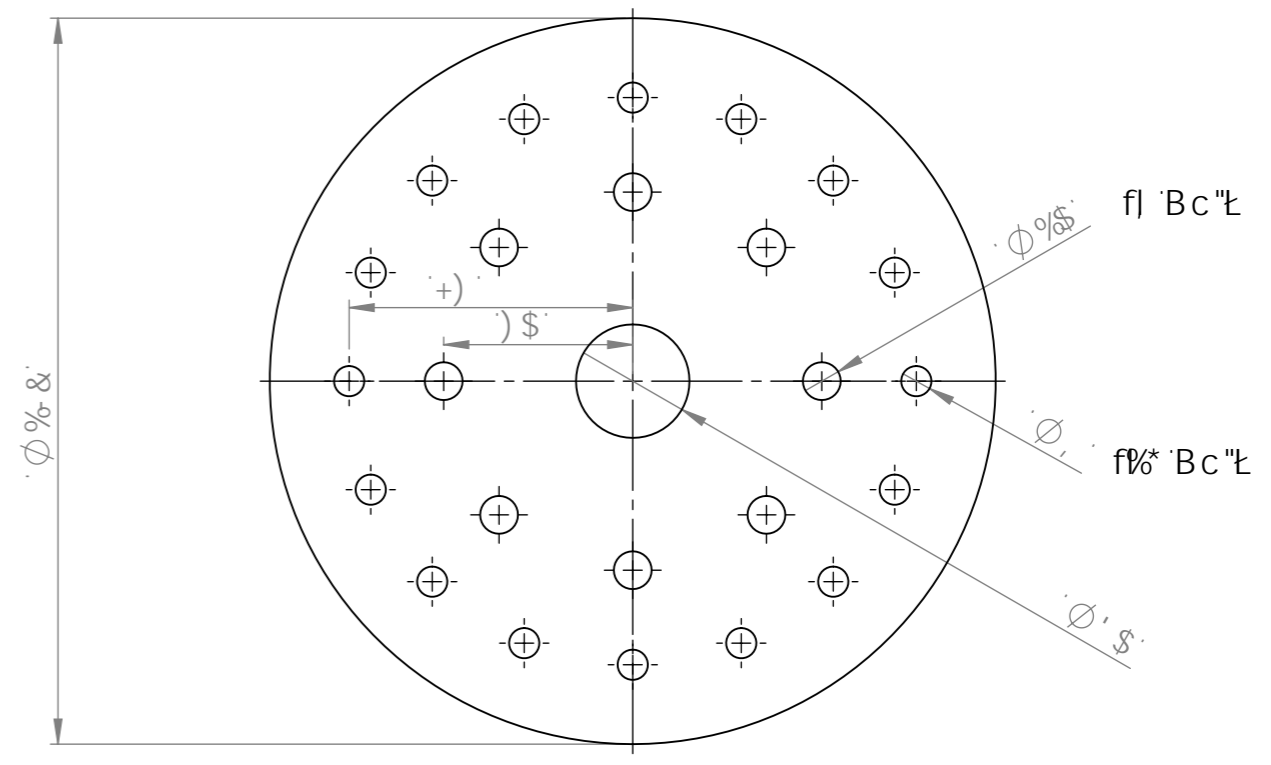
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