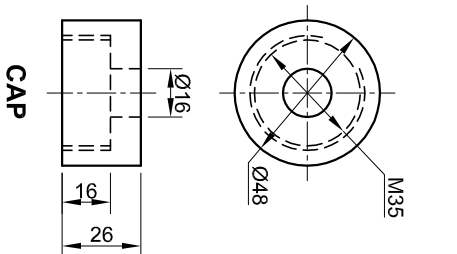
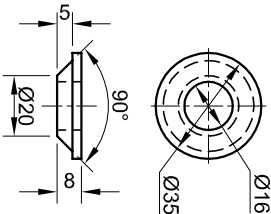


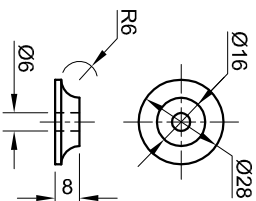
HOUSING



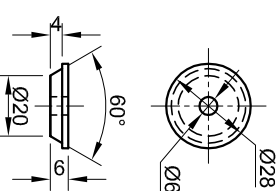
CAP



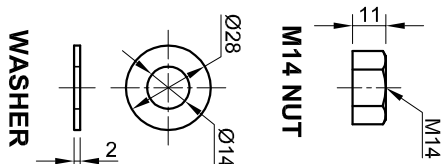
RUBBER SEAL



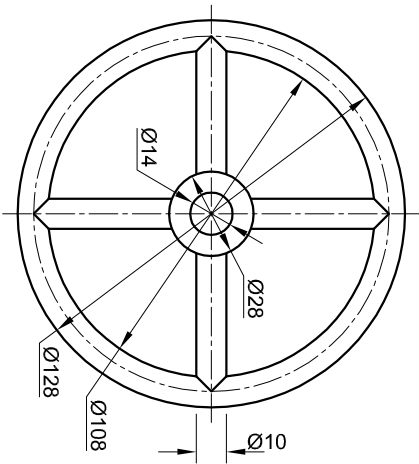
SUPPORT



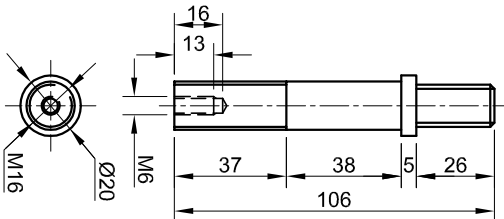
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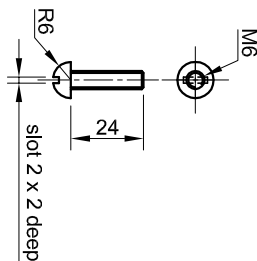
WASHER



HANDLE



SHAFT



M6 SCREW

- QUESTION 4: MECHANICAL ASSEMBLY**
- Given:**
- The exploded isometric drawing of the parts of a shut-off valve assembly, showing the position of each part relative to all the others
  - Orthographic views of each of the parts of the shut-off valve assembly

**Instructions:**

- Answer this question on page 6.
- Draw, to scale 1 : 1 and in third-angle orthographic projection, the following view of the assembled parts of the shut-off valve assembly:
- **A sectional front view**, on cutting plane A-A, as seen from the direction of the arrow shown on the exploded isometric drawing. The cutting plane is shown on the left view of the housing (part 1).
- ALL drawings must comply with the guidelines contained in the SABS 0111.

**NOTE:**

- Show three sides of the nut in the sectional front view.
- Show all the constructions for the nut.
- No hidden detail is required.

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**PARTS LIST**

PART	QUANTITY	MATERIAL
1. HOUSING	1	CAST IRON
2. SCREW	1	MILD STEEL
3. RUBBER SEAL	1	RUBBER
4. SUPPORT	1	MILD STEEL
5. RUBBER SEAL	1	RUBBER
6. CAP	1	MILD STEEL
7. SHAFT	1	MILD STEEL
8. HANDLE	1	MILD STEEL
9. WASHER	1	MILD STEEL
10. NUT	1	MILD STEEL

SHAFT

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NOVEMBER 2015

**SHUT-OFF VALVE**

