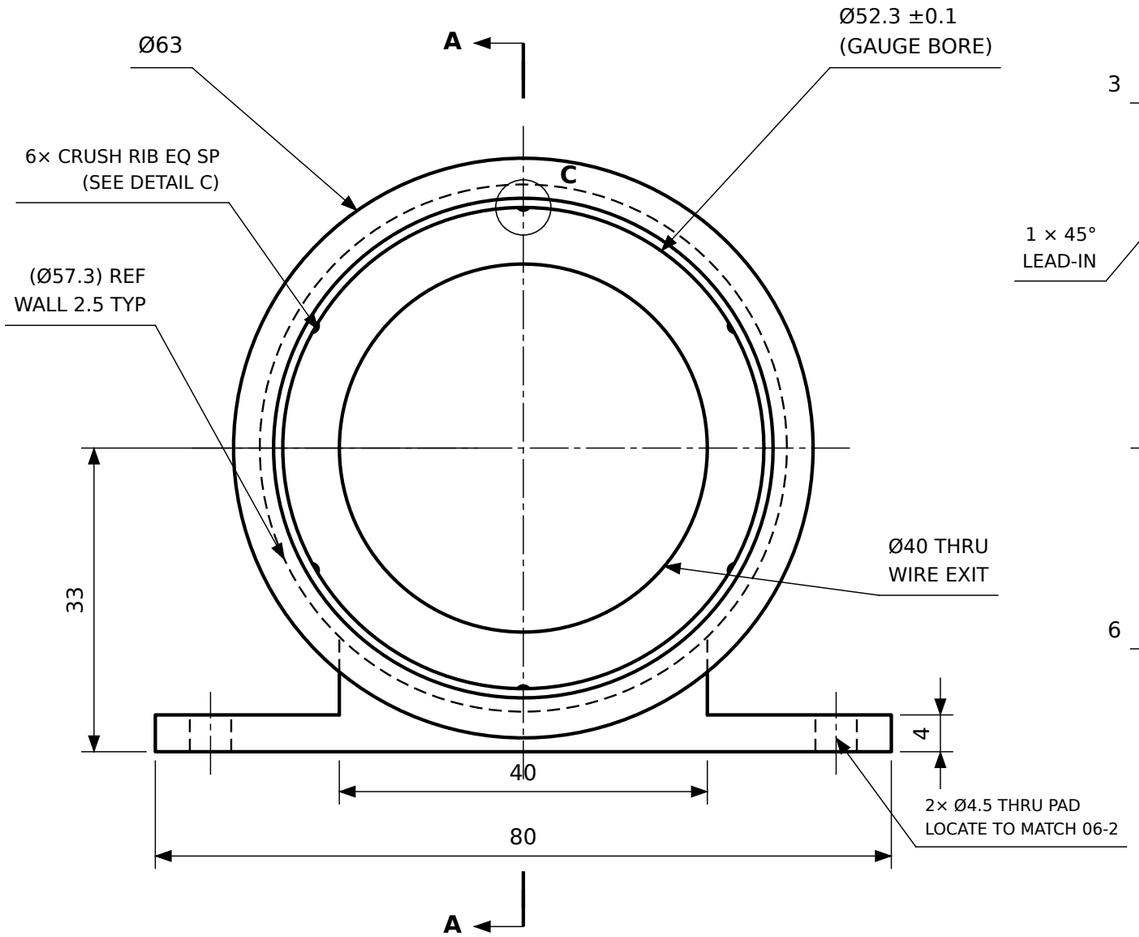
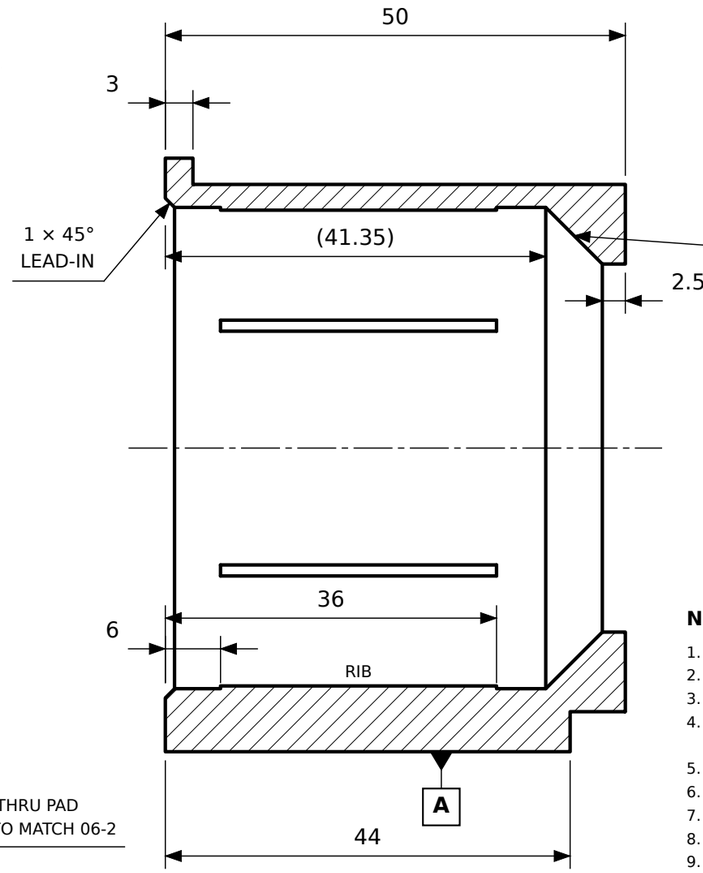


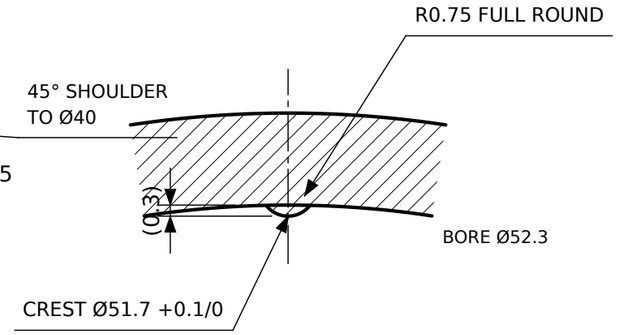
FRONT VIEW (BEZEL FACE)

SCALE 1.5:1



SECTION A-A

SCALE 1.5:1



DETAIL C

SCALE 6:1

NOTES - UNLESS OTHERWISE SPECIFIED

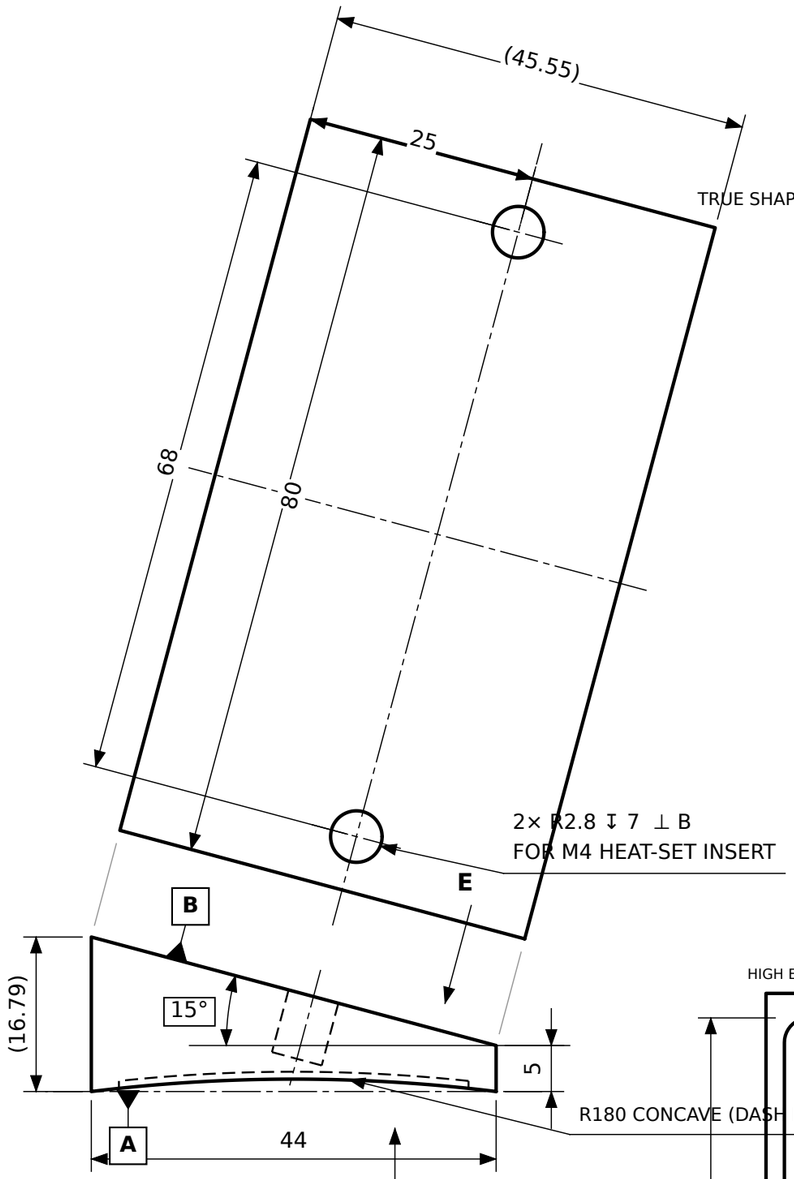
1. DIMENSIONS IN MILLIMETRES. THIRD-ANGLE PROJECTION. DO NOT SCALE.
2. MATERIAL: ASA. (DASH TOPS PASS 80°C - PLA / PETG WILL CREEP.)
3. GENERAL TOLERANCES ±0.2. ANGLES ±1°.
4. ALL EDGES BROKEN 0.5 mm UNLESS NOTED.
   EXCEPTIONS: CRUSH RIBS AND DATUM FACE A - LEAVE SHARP.
5. WALL 2.5 TYP (UNIFORM). OD Ø57.3 IS REFERENCE ONLY.
6. 6× CRUSH RIBS EQUALLY SPACED, ONE AT 12 O'CLOCK.
7. MEASURE THE GAUGE FIRST - TABLE 1. TUNE RIB CREST ±0.1.
8. PRINT FRONT FACE DOWN, NO SUPPORTS. 4 WALLS, 15% GYROID.
9. FACE A MOUNTS ON 06-2 FACE B WITH 2× M4 x 10 BUTTON HEAD.

TABLE 1 - FIT TO PURCHASED 52 mm GAUGE (NOT SUPPLIED)

FEATURE	06-1 POD	GAUGE (MEASURE IT)	RESULT
BODY	BORE Ø52.3 ±0.1	Ø52.0 TYP (51.8-52.1)	0.1-0.6 CLEARANCE ON Ø
RIBS	CREST Ø51.7 +0.1/0	Ø52.0 TYP	0-0.4 CRUSH ON Ø = LIGHT SNUG
BEZEL	FRONT FACE Ø63	BEZEL Ø56-60 TYP	BEZEL SEATS ON FRONT FACE
DEPTH	(41.35) TO SHOULDER	BODY DEPTH BEHIND BEZEL	MUST BE 41 MAX
REAR	WIRE EXIT Ø40	STUDS / PLUG / BULB	MUST PASS Ø40

GEARHED DESIGN & FABRICATION - PRACTICE 06 - 52 mm GAUGE POD (GDF-P06)

COMPANY: **GEARHED DESIGN & FABRICATION**			
TITLE: **06-1 POD CUP (52 mm)**			
MATERIAL: ASA (FDM)		UNITS: **MILLIMETRES**	
DWG NO.: **GDF-P06-1**	SCALE: 1.5:1	SIZE / SHEET: A3 1 OF 3	THIRD ANGLE PROJECTION
CLIENT / PROJECT: GDF PRACTICE 06 - GAUGE POD		DATE / REV: 2026-10-31 A	



VIEW E

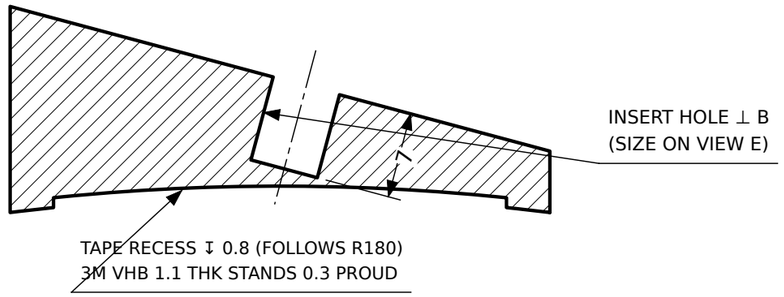
TRUE SHAPE OF FACE B, SCALE 1.5:1

FRONT VIEW

SCALE 1.5:1

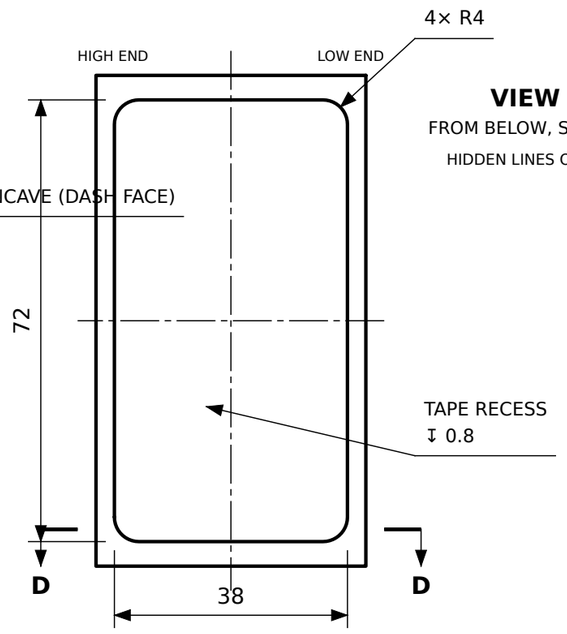
NOTES - UNLESS OTHERWISE SPECIFIED

1. DIMENSIONS IN MILLIMETRES. THIRD-ANGLE PROJECTION. DO NOT SCALE.
2. MATERIAL: ASA (SAME AS 06-1).
3. GENERAL TOLERANCES ±0.2. ANGLES ±1°.
4. ALL EDGES BROKEN 0.5 mm UNLESS NOTED.
   EXCEPTIONS: FACE B AND TAPE RECESS EDGES - LEAVE SHARP.
5. DATUM A = PLANE THROUGH THE TWO LOWER EDGES OF THE R180 FACE.
6. DATUM B = TOP FACE. INSERT HOLES ARE PERPENDICULAR TO B.
7. INSERTS: 2× M4 x 5.7 BRASS HEAT-SET, PRESS FLUSH WITH B.
8. R180 SUITS A CONVEX DASH. CHECK WITH A CARD TEMPLATE FIRST.
9. PRINT FACE B DOWN, NO SUPPORTS. 4 WALLS, 20% GYROID.
10. 06-1 FRONT FACE ENDS FLUSH WITH THE HIGH END (SHEET 3).



SECTION D-D

SCALE 2:1



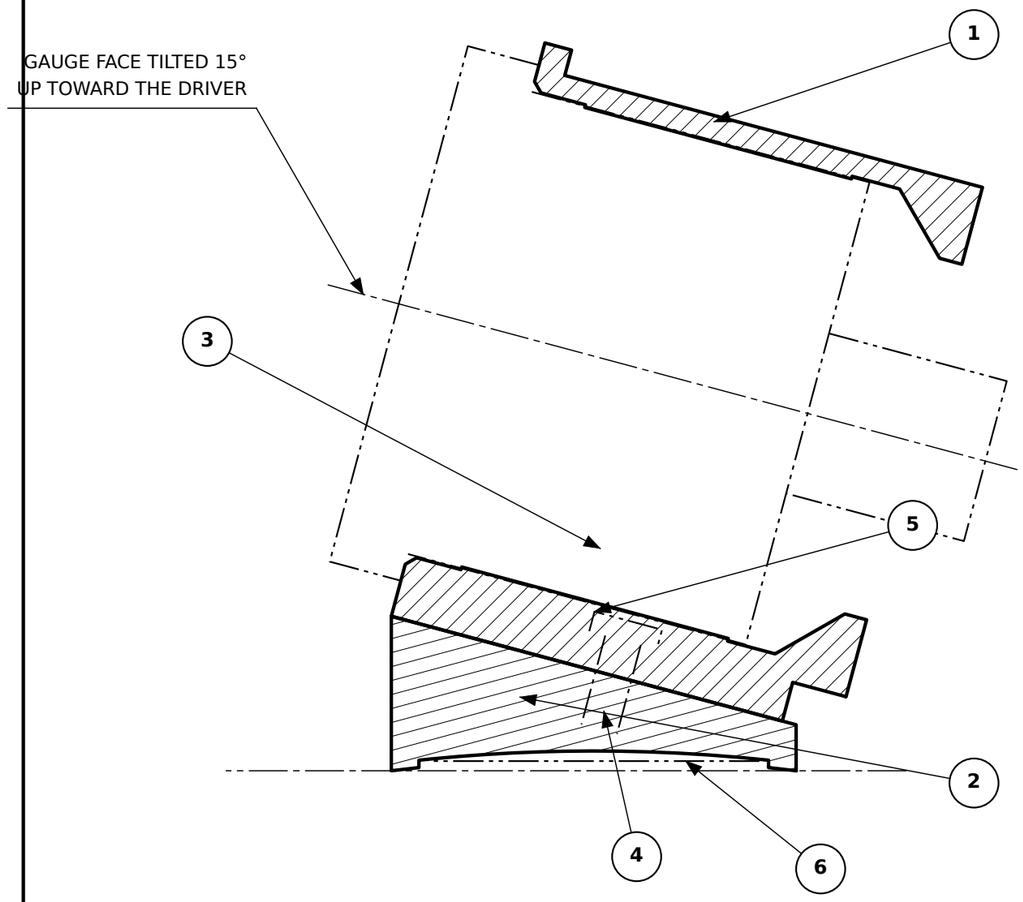
VIEW F

FROM BELOW, SCALE 1:1

HIDDEN LINES OMITTED

GEARHED DESIGN & FABRICATION - PRACTICE 06 - 52 mm GAUGE POD (GDF-P06)

COMPANY: **GEARHED DESIGN & FABRICATION**			
TITLE: **06-2 ANGLED BASE (15°)**			
MATERIAL: ASA (FDM)		UNITS: **MILLIMETRES**	
DWG NO.: **GDF-P06-2**	SCALE: 1.5:1	SIZE / SHEET: A3 2 OF 3	THIRD ANGLE PROJECTION
CLIENT / PROJECT: GDF PRACTICE 06 - GAUGE POD		DATE / REV: 2026-10-31 A	



ASSEMBLY - SECTION ON THE CENTRE PLANE

SCALE 1.5:1. GAUGE, SCREWS AND TAPE SHOWN PHANTOM (NOT MODELLED)

FOR INFORMATION ONLY - DO NOT MODEL FROM THIS VIEW

PARTS LIST

ITEM	PART	QTY	NOTE
1	06-1 POD CUP	1	GDF-P06-1, ASA, PRINT FRONT FACE DOWN
2	06-2 ANGLED BASE	1	GDF-P06-2, ASA, PRINT FACE B DOWN
3	52 mm (2-1/16") GAUGE	1	PURCHASED. MEASURE PER SHEET 1 TABLE 1
4	M4 x 5.7 HEAT-SET INSERT	2	BRASS, INTO 06-2 FACE B
5	M4 x 10 BUTTON HEAD	2	THROUGH 06-1 PAD INTO ITEM 4
6	3M VHB TAPE 1.1 THK	1	CUT TO 70 x 36, IN 06-2 RECESS

PRINT PLAN (ESTIMATE - NOT SLICED)

PART	VOLUME (MODEL)	EST. PRINT	ORIENTATION
06-1 POD CUP	46.8 cm³	1.5 - 2 h	FRONT FACE DOWN
06-2 BASE	32.7 cm³	0.75 - 1 h	FACE B DOWN
TOTAL	79.5 cm³	2.25 - 3 h	K2 PLUS, 0.2 LAYERS, NO SUPPORTS

ASSEMBLY

1. PRESS ITEM 4 INSERTS INTO 06-2 WITH A SOLDERING IRON, FLUSH WITH B.
2. BOLT 06-1 TO 06-2 (ITEM 5). PAD FACE A FLAT ON FACE B.
   06-1 FRONT FACE ENDS FLUSH WITH THE 06-2 HIGH END.
3. FEED THE WIRES THROUGH THE Ø40 EXIT, THEN PUSH THE GAUGE IN
   UNTIL THE BEZEL SEATS. RIBS HOLD IT - NO GLUE.
4. CLEAN THE DASH WITH IPA. CHECK THE R180 FIT. APPLY ITEM 6,
   PRESS 30 s, WAIT 24 h BEFORE LOADING.
5. A-PILLAR OPTION: SAME PARTS, CHECK THE FACE CURVATURE FIRST.

GEARHED DESIGN & FABRICATION - PRACTICE 06 - 52 mm GAUGE POD (GDF-P06)

COMPANY: **GEARHED DESIGN & FABRICATION**			
TITLE: **06 ASSEMBLY - 52 mm GAUGE POD**			
MATERIAL: SEE PARTS LIST		UNITS: **MILLIMETRES**	
DWG NO.: **GDF-P06-0**	SCALE: 1.5:1	SIZE / SHEET: A3 3 OF 3	THIRD ANGLE PROJECTION
CLIENT / PROJECT: GDF PRACTICE 06 - GAUGE POD		DATE / REV: 2026-10-31 A	