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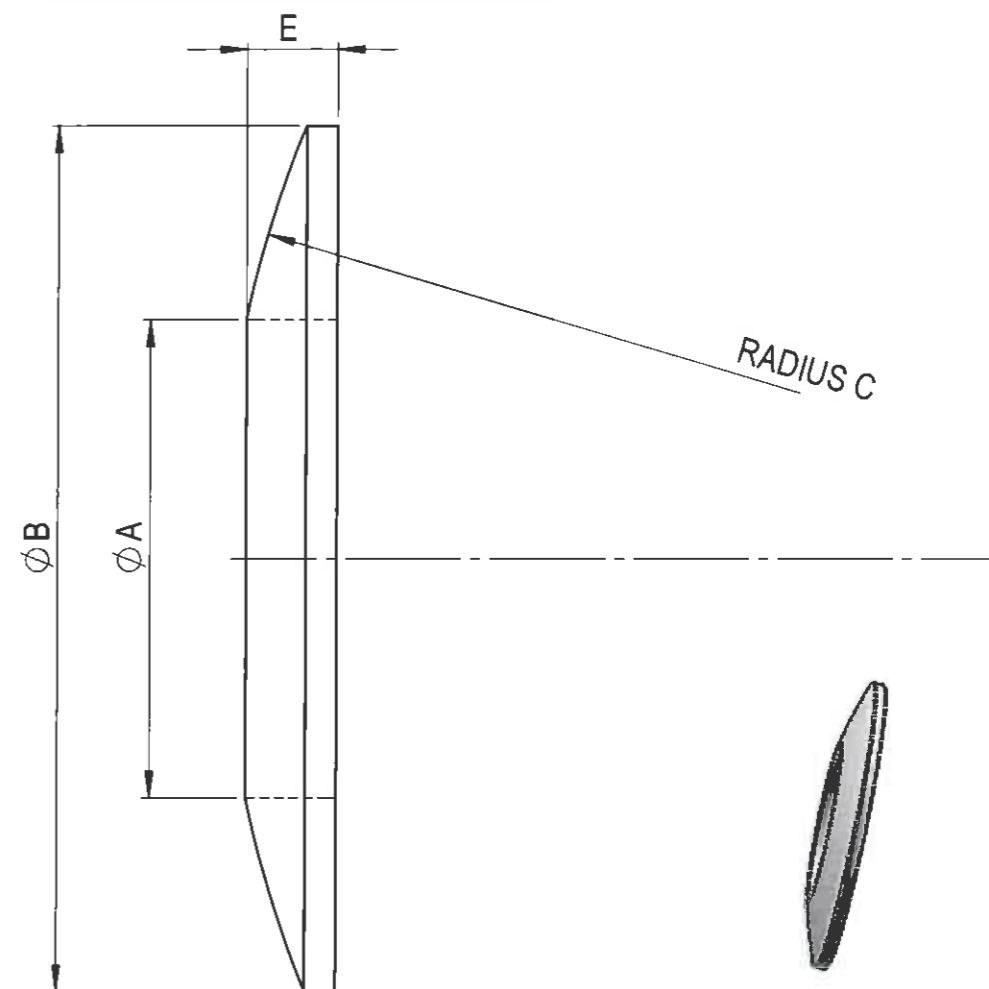
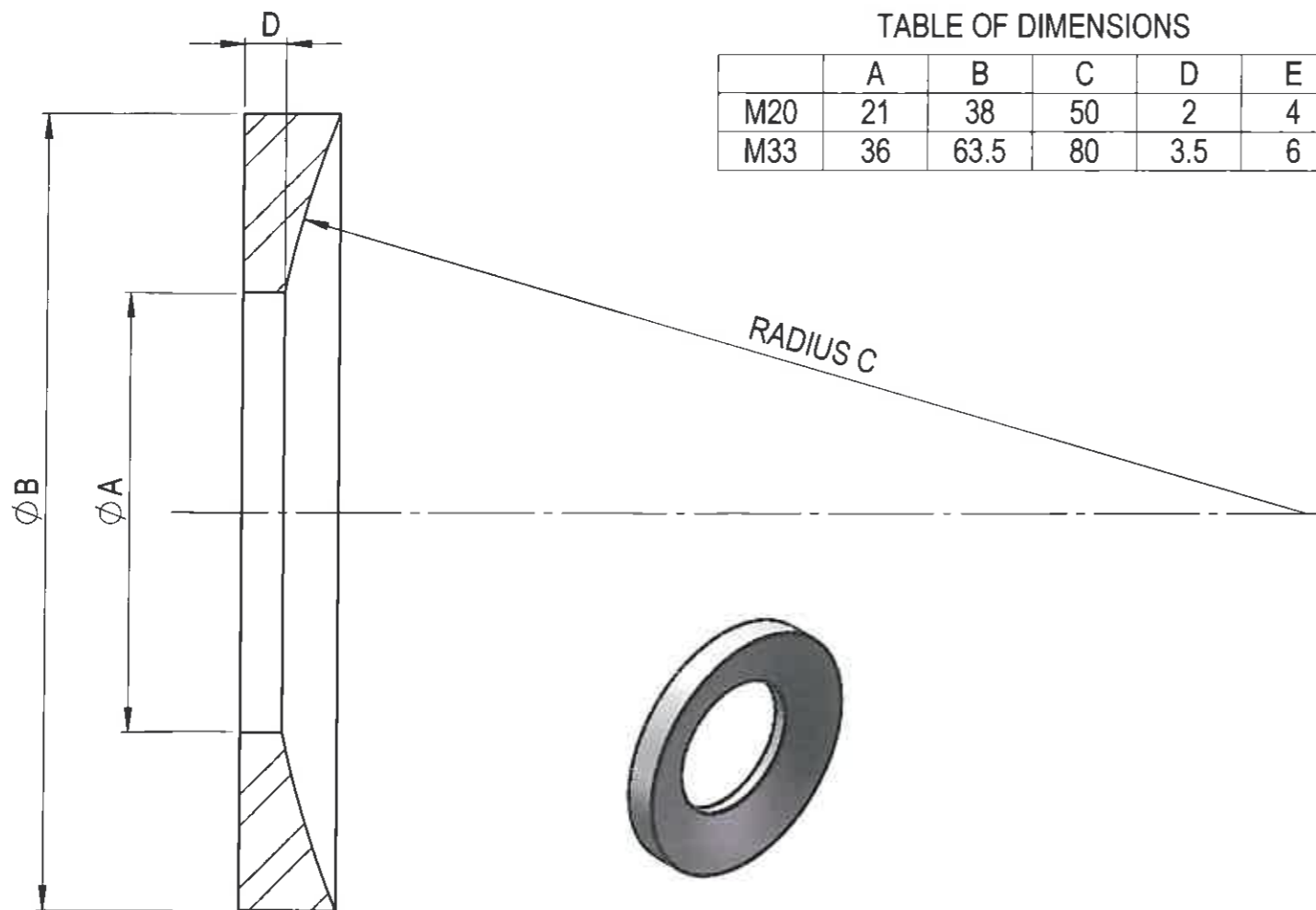
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TABLE OF DIMENSIONS

	A	B	C	D	E
M20	21	38	50	2	4
M33	36	63.5	80	3.5	6



**M20/M33 CONCAVE WASHER**  
**FOR USE ON M20 DETECTOR RODS (PT No: M02669A)**  
**FOR USE ON M33 MOTOR'S SHAFT (PT No: M02669D)**

MATERIAL: STAINLESS STEEL ROD - T316 63.5MM DIA  
 BLACKWOODS PART NO: 0133 0757  
 OR GENERAL PURPOSE BRONZE AS1565  
 REMOVE ANY BURRS AND SHARP EDGES AFTER MACHINING

NOTE: 1. EVERY DETECTOR ROD REQUIRES 2 OFF M02669C WHICH IS MADE UP BY ONE OF ITEM M02669A AND ONE OF ITEM M02669B  
 2. EVERY MOTOR'S SHAFT REQUIRES 2 OFF M02669F WHICH IS MADE UP BY ONE OF ITEM M02669D AND ONE OF ITEM M02669E

NOTES

- 1) ALL WELDS SHALL BE TO AS1554 1 SP. THE WELD METAL SHALL HAVE A MINIMUM NOMINAL TENSILE STRENGTH F<sub>UW</sub> OF 450MPa
- 2) HOT DIP GALVANISING SHALL BE TO AS1650 MIN. COATING SHALL BE Z430 FOR SHEET PRODUCTS OR 450g/m<sup>2</sup> FOR OTHER PRODUCTS
- 3) ZINC PLATING SHALL BE TO AS1769 AS APPROPRIATE. Fe/Zn 12C
- 4) ALL SURFACES TO BE PAINTED SHALL BE DEGREASED, DESCALED AND PREPARED IN ACCORDANCE WITH THE PAINT MANUFACTURER'S RECOMMENDATIONS. EACH COAT OF PAINT SHALL HAVE A MINIMUM DRY FILM THICKNESS OF 38µm
- 5) PROPRIETARY ITEMS SHALL BE MANUFACTURED TO RELEVANT AUSTRALIAN STANDARDS.
- 6) THE MANUFACTURER OR ITS SUPPLIERS SHALL KEEP AND HAVE AVAILABLE TEST CERTIFICATES FOR MATERIALS, HEAT TREATMENT, HARDENING AND SURFACE COATINGS

**M20/M33 CONVEX WASHER**  
**FOR USE ON M20 DETECTOR RODS (PT No: M02669B)**  
**FOR USE ON M33 MOTOR'S SHAFT (PT No: M02669E)**

MATERIAL: STAINLESS STEEL ROD - T316 63.5MM DIA  
 BLACKWOODS PART NO: 0133 0757  
 OR GENERAL PURPOSE BRONZE AS1565  
 REMOVE ANY BURRS AND SHARP EDGES AFTER MACHINING

- 7) PARTS SHALL BE MARKED WHERE SHOWN WITH PART NUMBER AND XXXMMYY WHERE XXX=MANUFACTURER'S MARK AND MMY=MONTH AND YEAR OF MANUFACTURE
- 8) WHERE AN ASSEMBLY IS ORDERED THE MANUFACTURER SHALL SUPPLY IT COMPLETE AND FULLY ASSEMBLED AS SHOWN UNLESS REQUESTED OTHERWISE THE ASSEMBLY SHALL HAVE A WEATHERPROOF TAG ATTACHED, MARKED WITH THE ASSEMBLY PART NUMBER AND XXXMMYY AS ABOVE
- 9) THREADED SURFACES NOT PROTECTED BY PLATING SHALL BE COATED WITH ROCOL RUSTSHIELD OR AN EQUIVALENT ALTERNATIVE
- 10) BEARING SURFACES NOT PROTECTED BY PLATING SHALL BE COATED WITH ROCOL A S. SPRAY OR AN EQUIVALENT ALTERNATIVE

GENERAL TOLERANCES	
LINEAR	< 1000 + 0.5mm
	> 1000 + 3mm
RADIAL	< 500 + 0.25mm
	> 500 + 1.5mm
ANGULAR	+ 30'

**RailCorp**  
 SIGNALS  
 Chief Engineer's Division

TITLE **M20/M33 CONCAVE/CONVEX WASHER**

VERSION	DESCRIPTION	DATE	DRAWN	REVIEWED	VERIFIED	APPROVED
2	DRAWING UPDATED TO SOLIDWORKS FORMAT AND DIM. E UPDATED	14/3/12	C.Y.L.			
1	M33 WASHER AND A TABLE ADDED	28/6/10	C.Y.L.	C.Y.L.	R.L.F.	R.W.A.

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AS 1100

THIRD ANGLE PROJECTION

**CAD DO NOT AMEND MANUALLY**

DESIGNED	DRAWN	REVIEWED	VERIFIED	APPROVED
R.L.F.	R.L.F.	C.Y.L.	R.L.F.	R.W.A.
DATE	SCALE	DRG No	REV No	A3
26/05/2010	N. T. S.	M02-669	2	