

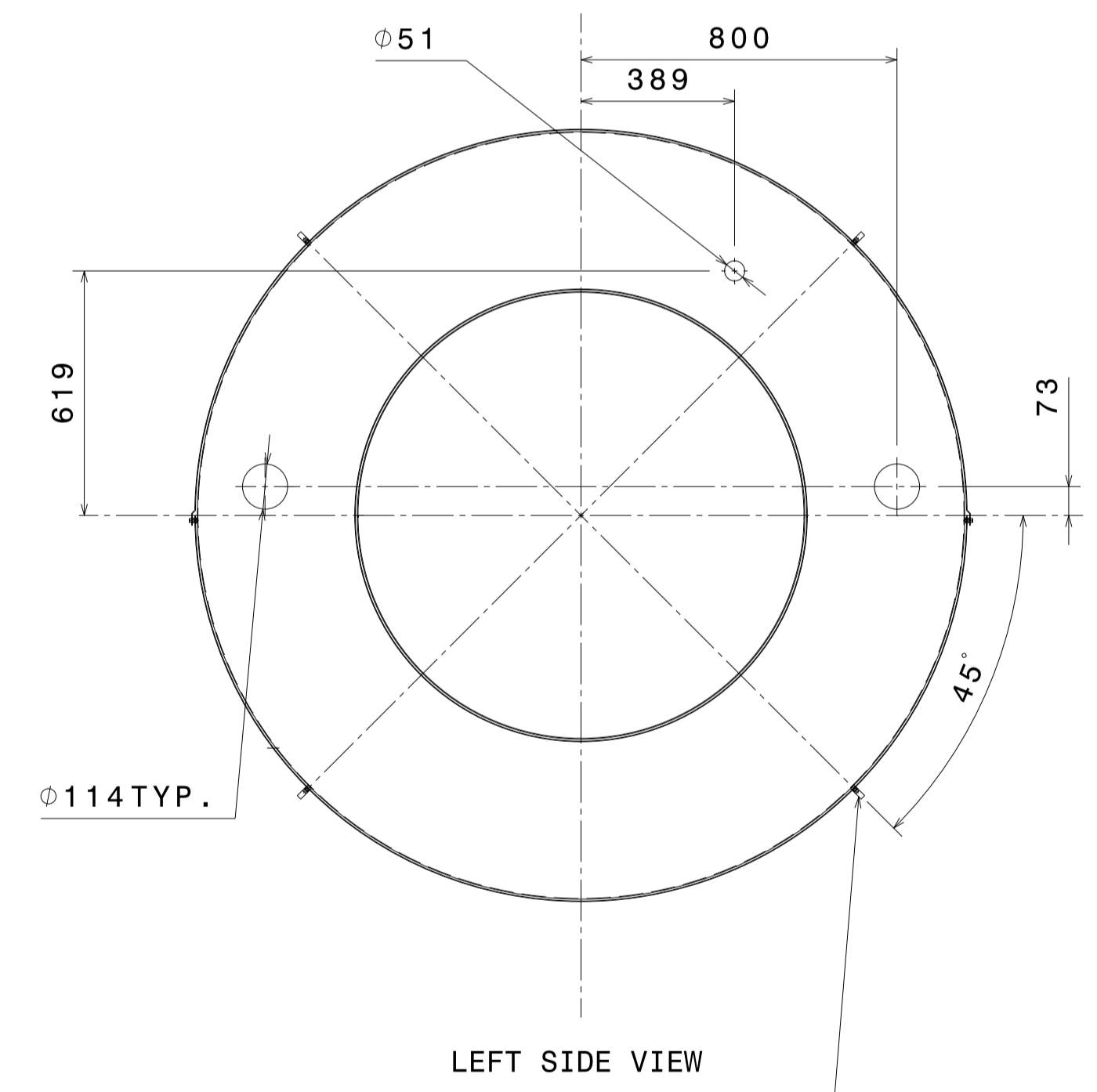
16 SHIELD ASSEMBLY

PART NO.	QUANTITY	PART NAME	MATERIAL	REFERENCE DWG NO.	REMARK
7	08	SHIELD SUPPORT	SS304L	VCP01 - 004 - R1 / SHEET - 03	-
6	01	RIGHT CYLINDERCAL END	ALUMINIUM	VCP01 - 004 - R1 / SHEET - 04	-
5	01	LEFT CYLINDERCAL END	ALUMINIUM	VCP01 - 004 - R1 / SHEET - 04	-
4	01	RIGHT END CAP	ALUMINIUM	VCP01 - 004 - R1 / SHEET - 04	-
3	01	LEFT END CAP	ALUMINIUM	VCP01 - 004 - R1 / SHEET - 04	-
2	01	SHIELD LONG BOTTOM	ALUMINIUM	VCP01 - 004 - R1 / SHEET - 03	-
1	01	SHIELD LONG TOP	ALUMINIUM	VCP01 - 004 - R1 / SHEET - 03	-

DRG. NO	▽ 8-25	▽▽ 1.6-8	▽▽▽ 0.025-1.6	▽▽▽▽ < 0.025	REVISION COLUMN					ASS'Y GROUP:	SIZE	INSTITUTE FOR PLASMA RESEARCH (LIGO-INDIA) BHAT, GANDHINAGAR-382 428.			
CO-ORDINATED BY					REV	ZONE	DESCRIPTION	DATE	REMARKS	APPROVED BY	ALL DIMENSIONS ARE IN "mm" UNLESS OTHERWISE STATED	A1	TITLE		
MACHINING DEVIATIONS FOR NON-TOLERANCED DIMENSIONS										SCALE	DATE	SHIELD ASSEMBLY			
LENGTH IN mm OF SHORTER SIDE OF ANGLES				LENGTH OR DIA	UPTO 6	6-30	30-120	120-315			DRAWN	S.P.P.	04/07/2015	REF DRG NO: VCP01-001-R1	REV R1
UPTO 10	10-50	50-120	OVER 120-400		±0.1	±0.2	±0.3	±0.5			CHECKED	R.K.	DRG. NO	VCP01-004-R1	SHEET 01 OF 04
±1'	±0'-30'	±0'-20'	±0'-10'							APPROVED	M.K.G.				

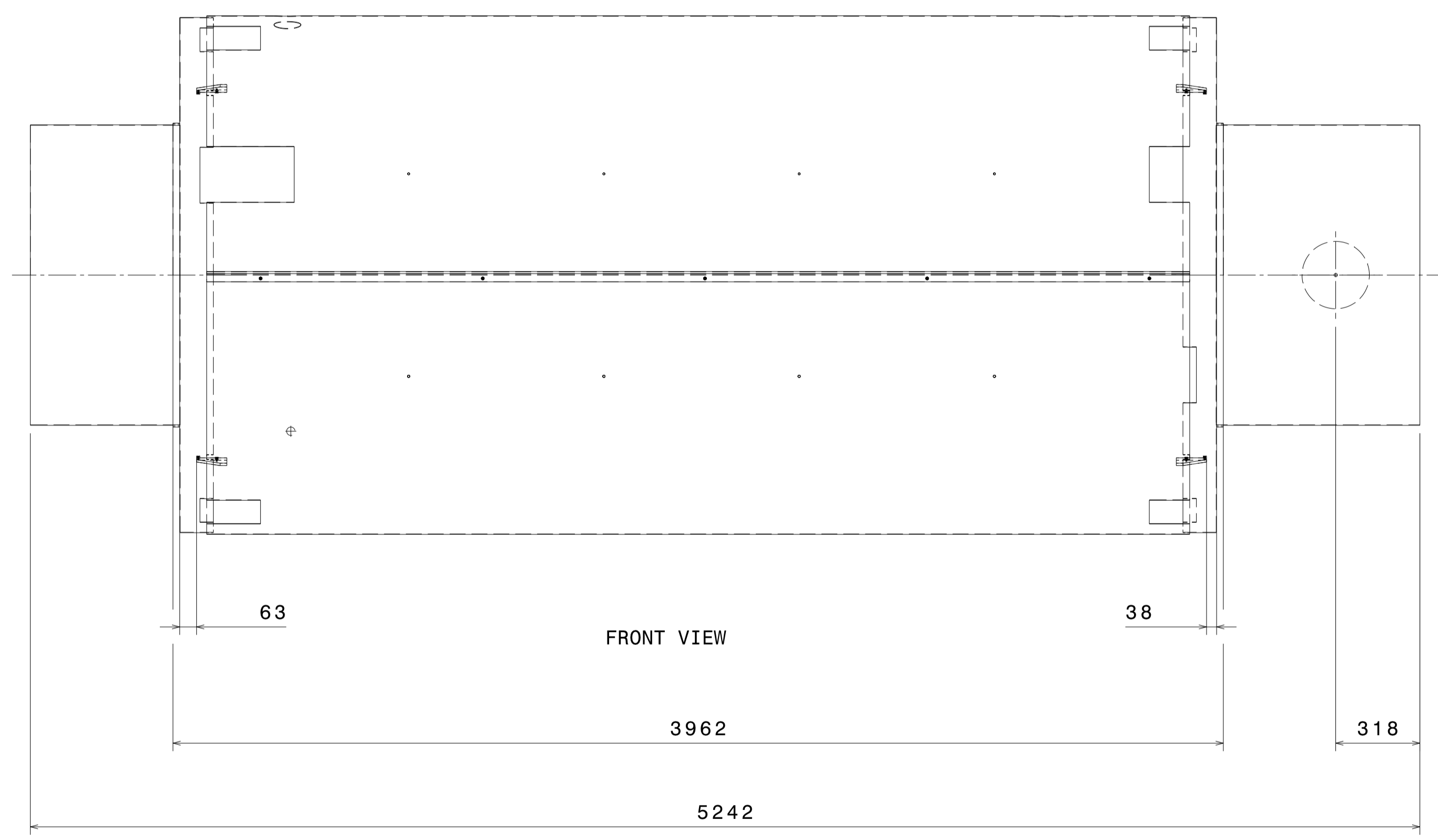
P O N M L K J I H G F E D C B A

8 7 6 5 4 3 2 1

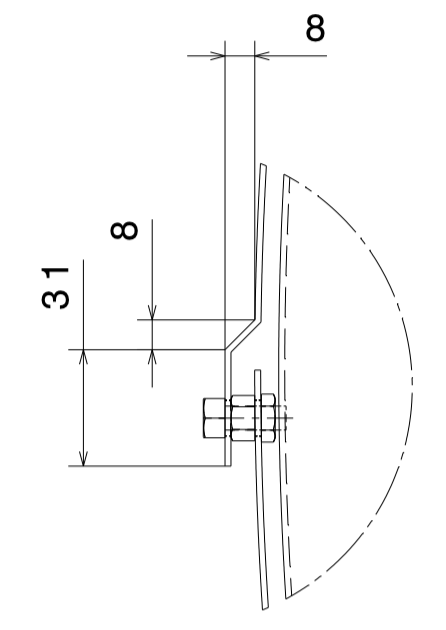


LEFT SIDE VIEW

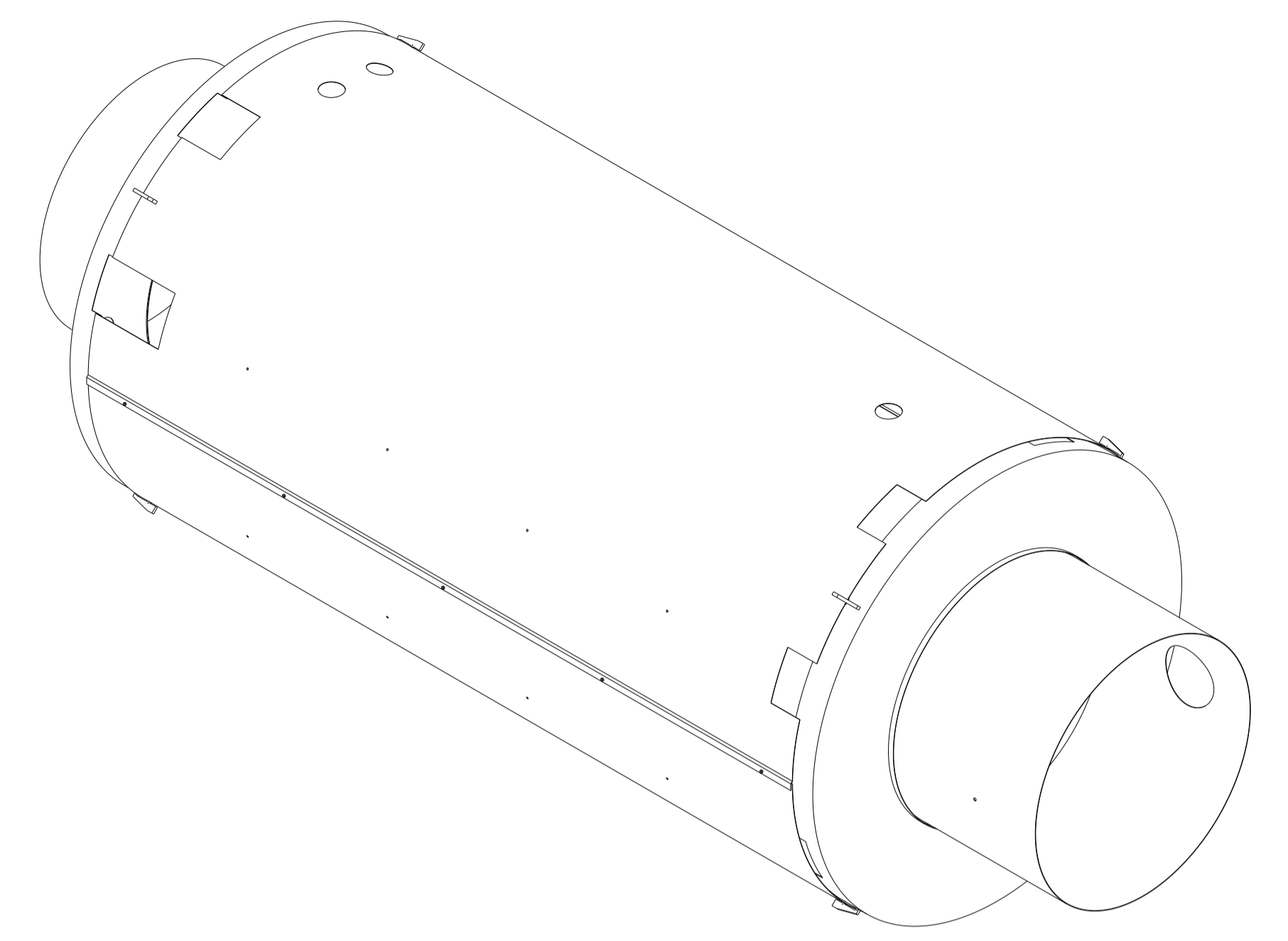
8 SHIELD SUPPORTS AT 45° WITH HORIZONTAL LINE



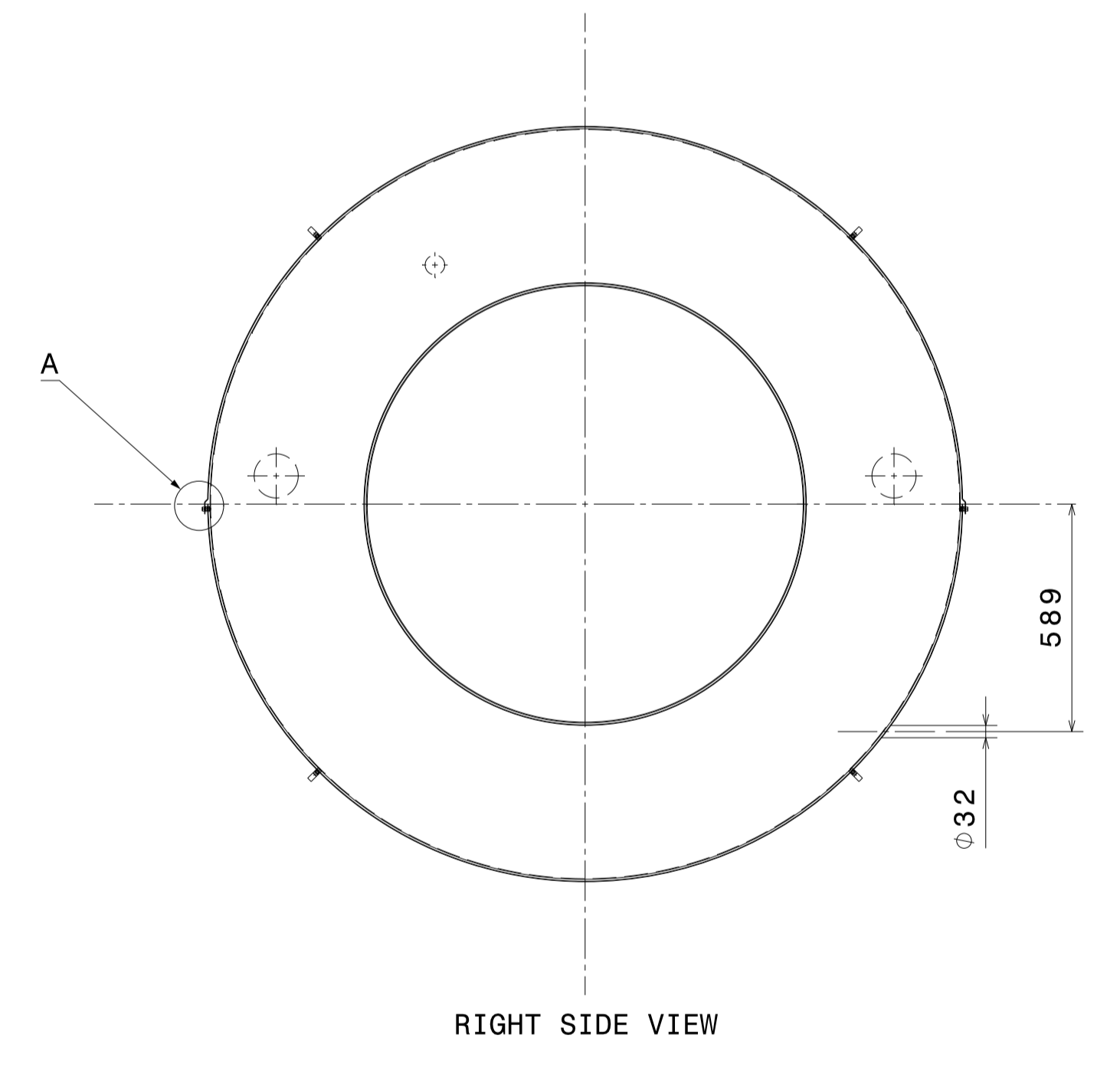
FRONT VIEW



DETAIL VIEW A
SCALE-1:5



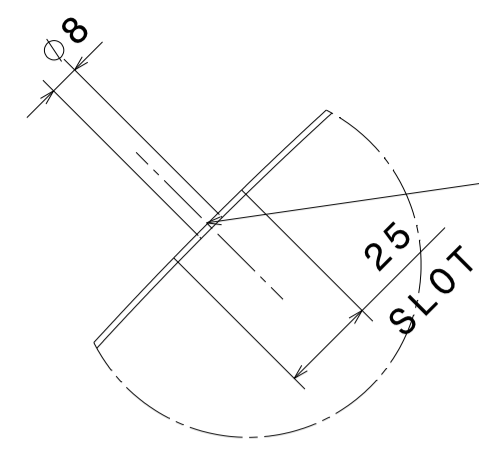
ISOMETRIC VIEW
SCALE-1:20



RIGHT SIDE VIEW

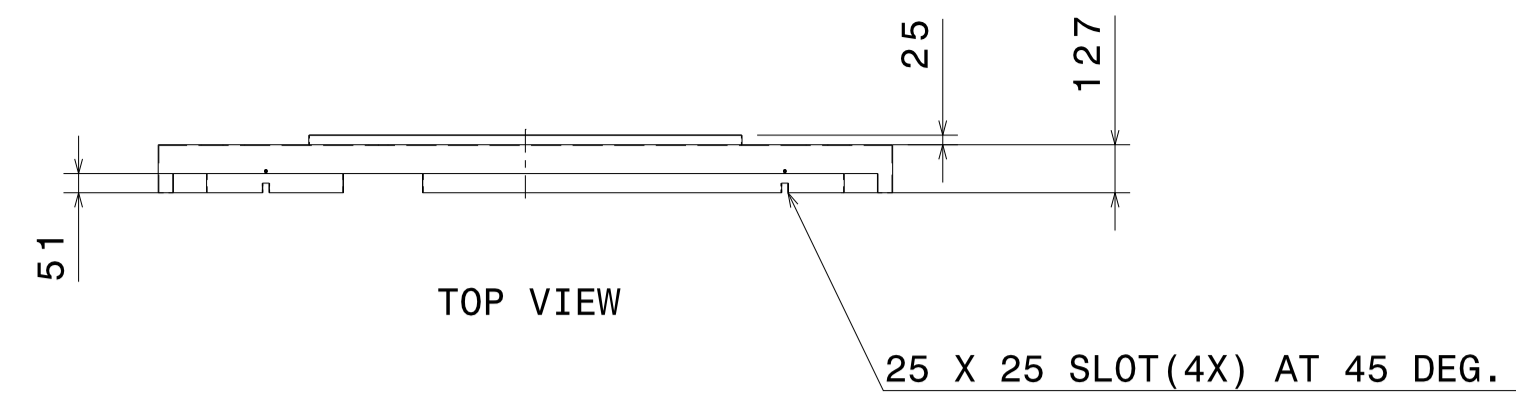
DRG. NO	▽ 8-25	▽▽ 1.6-8	▽▽▽ 0.025-1.6	▽▽▽▽ < 0.025	REVISION COLUMN				ASS'Y GROUP:	SIZE	INSTITUTE FOR PLASMA RESEARCH (LIGO-INDIA)							
CO-ORDINATED BY					REV	ZONE	DESCRIPTION	DATE	REMARKS	APPROVED BY	ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED	A1	BHAT, GANDHINAGAR-382 428.					
MACHINING DEVIATIONS FOR NON-TOLERANCED DIMENSIONS											SCALE	1:15	DATE	04/07/2015	TITLE			
LENGTH IN mm OF SHORTER SIDE OF ANGLES				LENGTH OR DIA	UPTO 6	6-30	30-120	120-315				DRAWN	S.P.P.	SHIELD ASSEMBLY				
UPTO 10	10-50	50-120	OVER 120-400		±0.1	±0.2	±0.3	±0.5			CHECKED	R.K.	REF DRG NO:	VCP01-001-R1	REV	R1		
+1'	+0'-30'	+0'-20'	+0'-10'								APPROVED	M.K.G.	DRG. NO	VCP01-004-R1	SHEET 02 OF 04			

P O N M L K J I H G F E D C B A



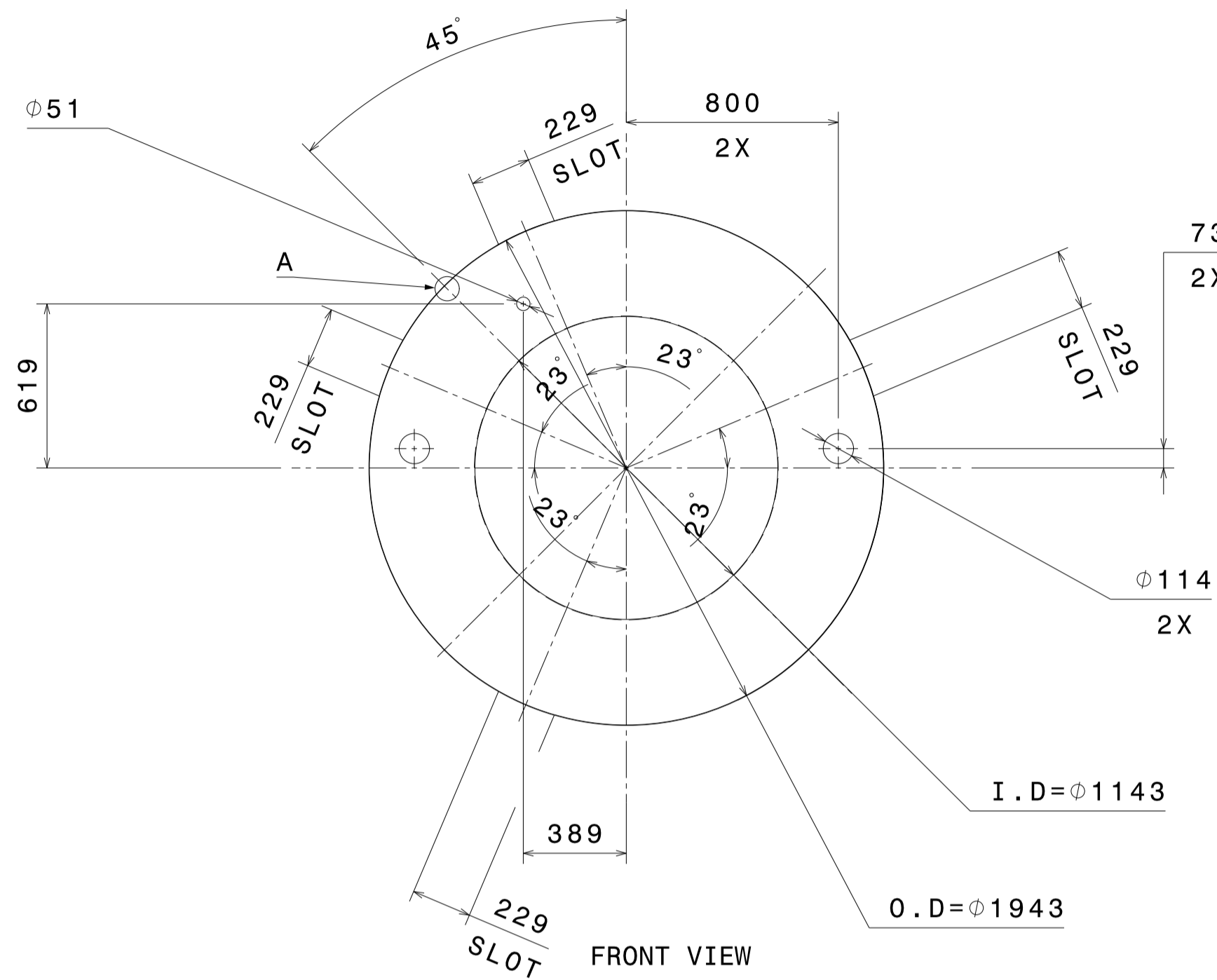
DETAIL VIEW A
SCALE-1:2

4X EQUALLY SPACED AT 45 DEG.



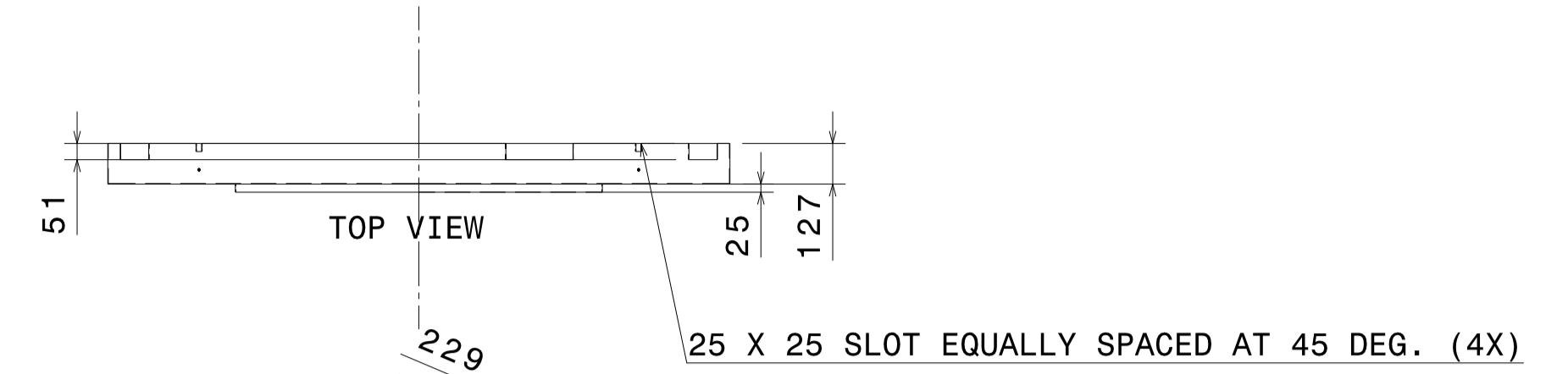
TOP VIEW

25 X 25 SLOT(4X) AT 45 DEG.



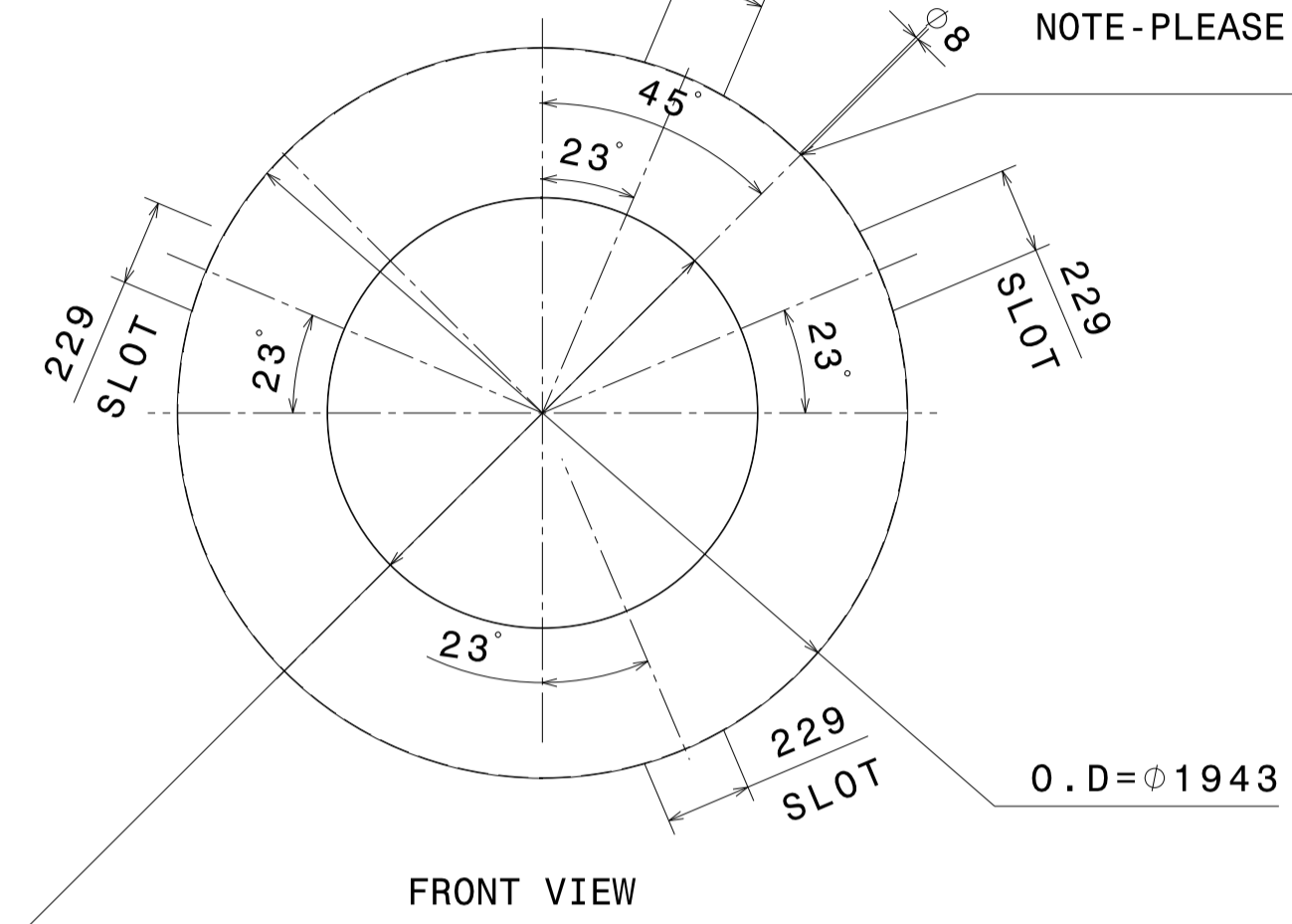
FRONT VIEW

③ LEFT END CAP
SCALE-1:20



TOP VIEW

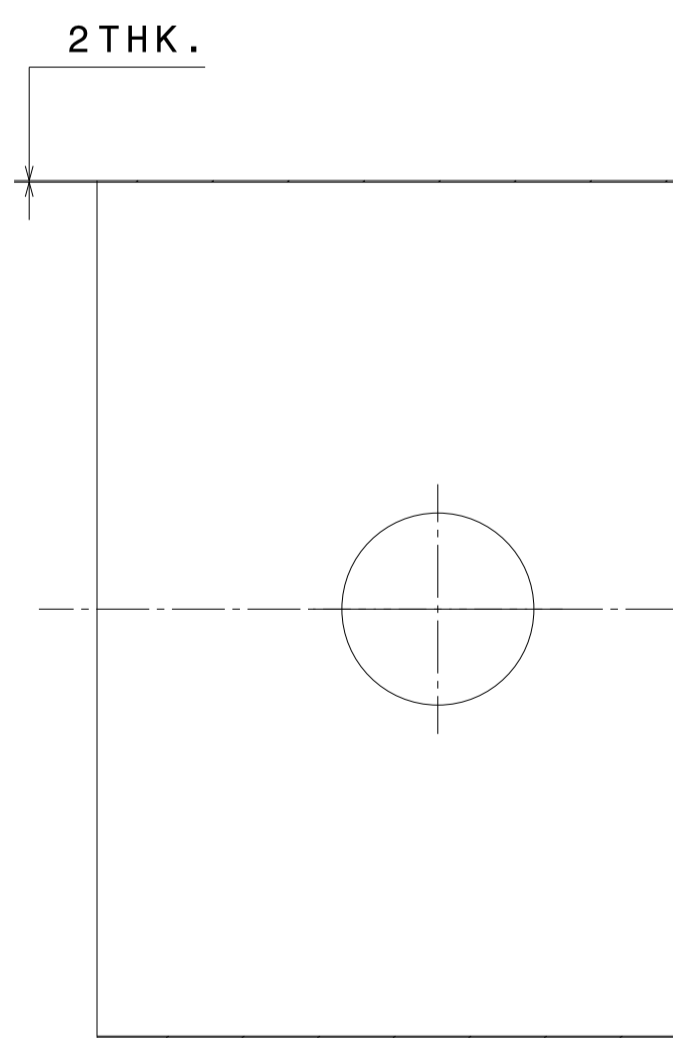
25 X 25 SLOT EQUALLY SPACED AT 45 DEG. (4X)



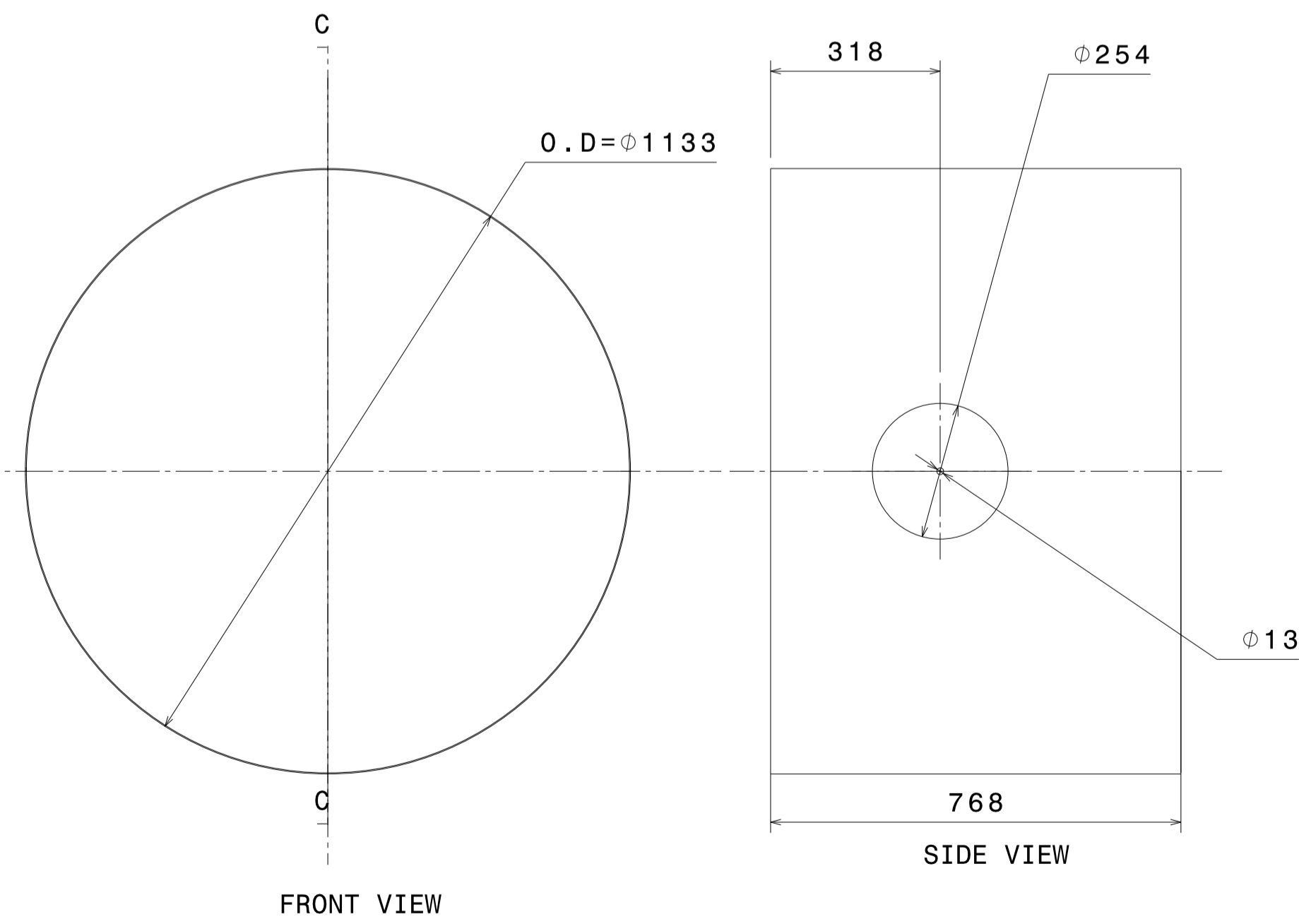
FRONT VIEW

NOTE-PLEASE REFER DETAIL VIEW A OF LEFT END CAP.

④ RIGHT END CAP
SCALE-1:20



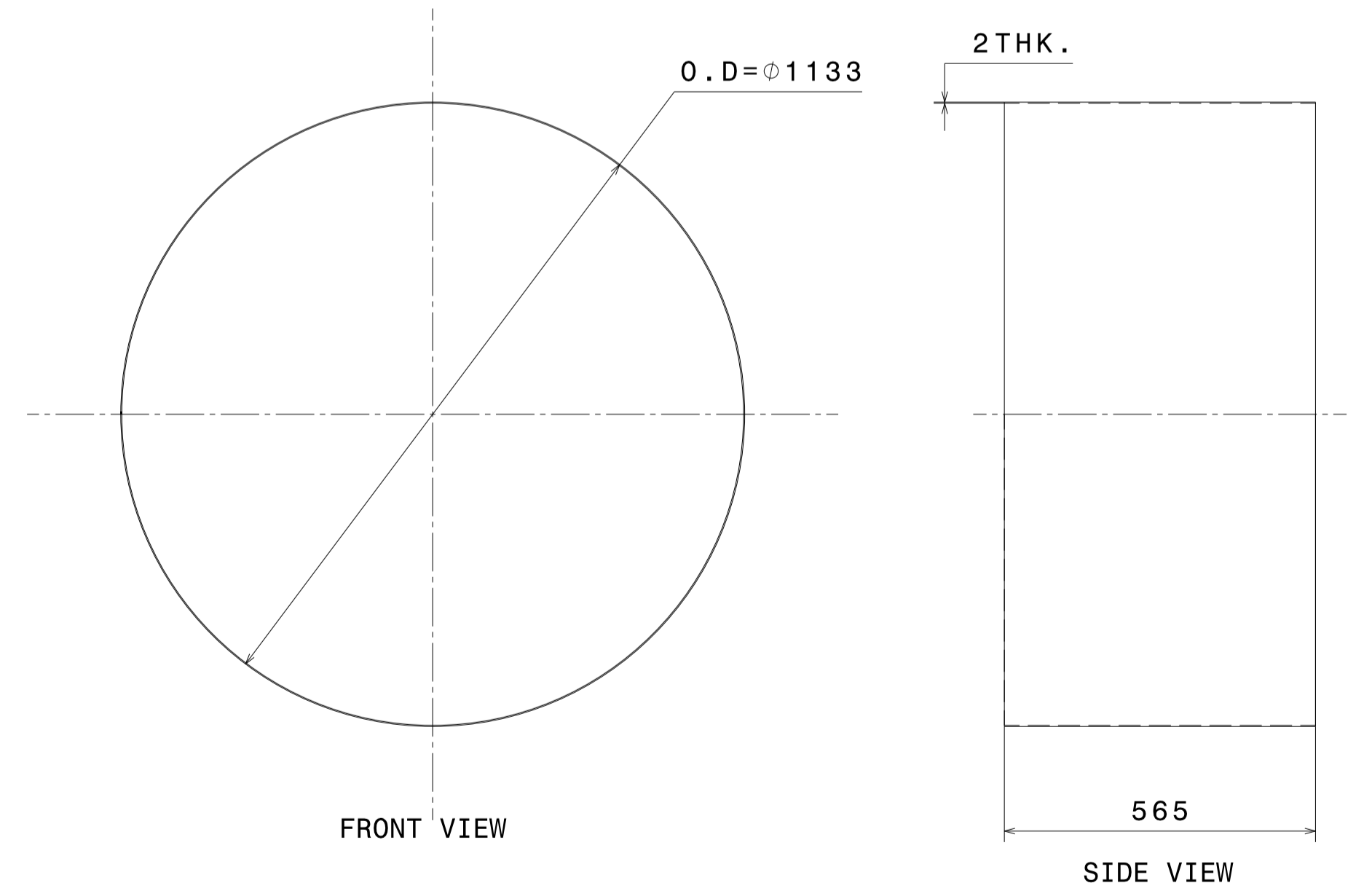
SECTION C-C



FRONT VIEW

SIDE VIEW

⑤ LEFT CYLINDERICAL END
SCALE-1:10

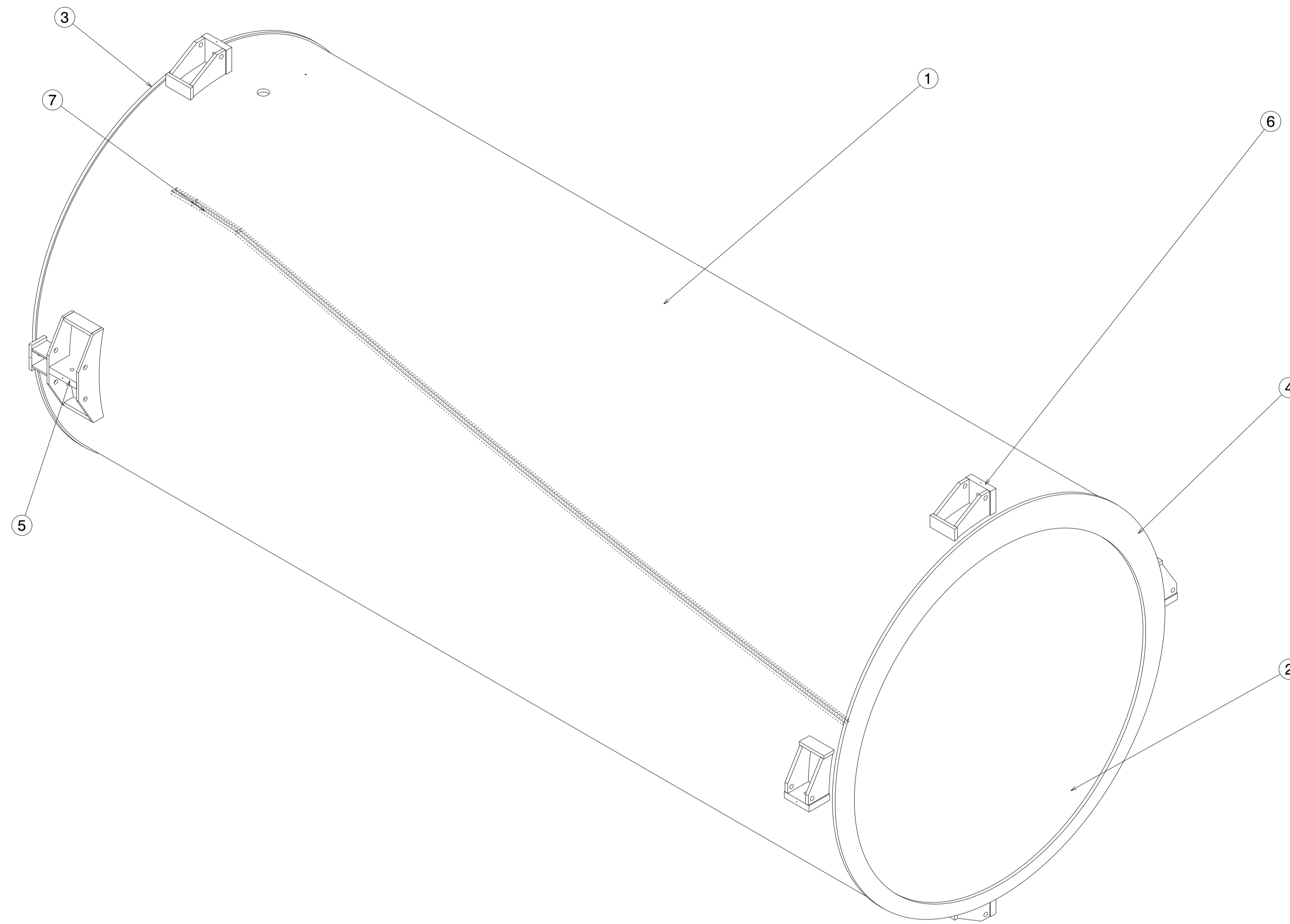


FRONT VIEW

SIDE VIEW

⑥ RIGHT CYLINDERICAL END
SCALE-1:10

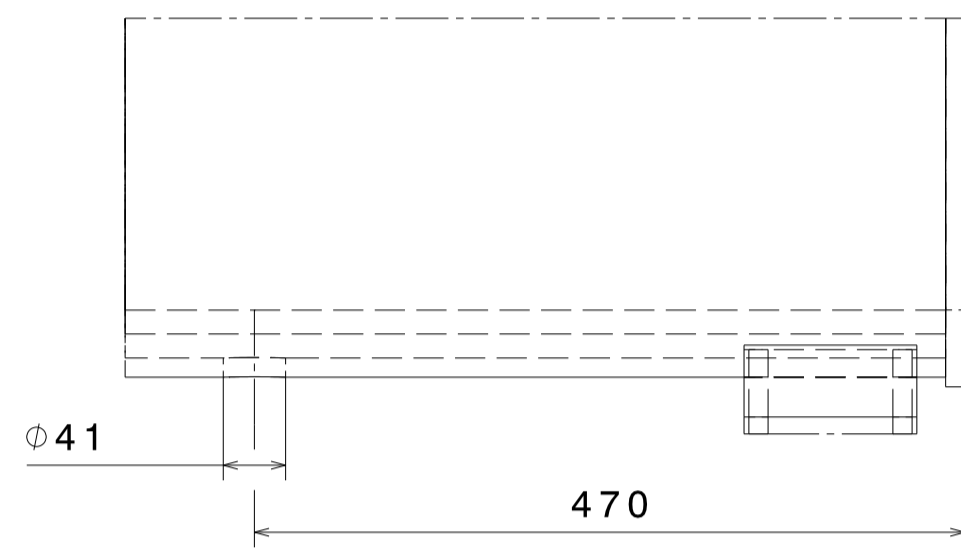
DRG.NO	▽ 8-25	▽▽ 1.6-8	▽▽▽ 0.025-1.6	▽▽▽▽ < 0.025	REVISION COLUMN				ASS'Y GROUP:	SIZE	INSTITUTE FOR PLASMA RESEARCH (LIGO-INDIA)			
CO-ORDINATED BY					REV	ZONE	DESCRIPTION	DATE	REMARKS	APPROVED BY	ALL DIMENSIONS ARE IN "mm" UNLESS OTHERWISE STATED	BHAT, GANDHINAGAR-382 428.		
MACHINING DEVIATIONS FOR NON-TOLERANCED DIMENSIONS											SCALE	AS NOTED	DATE	TITLE
LENGTH IN mm OF SHORTER SIDE OF ANGLES				LENGTH OR DIA	UPTO 6	6-30	30-120	120-315			DRAWN	S.P.P.	04/07/2015	SHIELD ASSEMBLY
UPTO 10	10-50	50-120	OVER 120-400		±0.1	±0.2	±0.3	±0.5			CHECKED	R.K.	REF DRG NO: VCP01-001-R1	REV R1
±1'	±0'-30'	±0'-20'	±0'-10'								APPROVED	M.K.G.	DRG. NO VCP01-004-R1	SHEET 04 OF 04



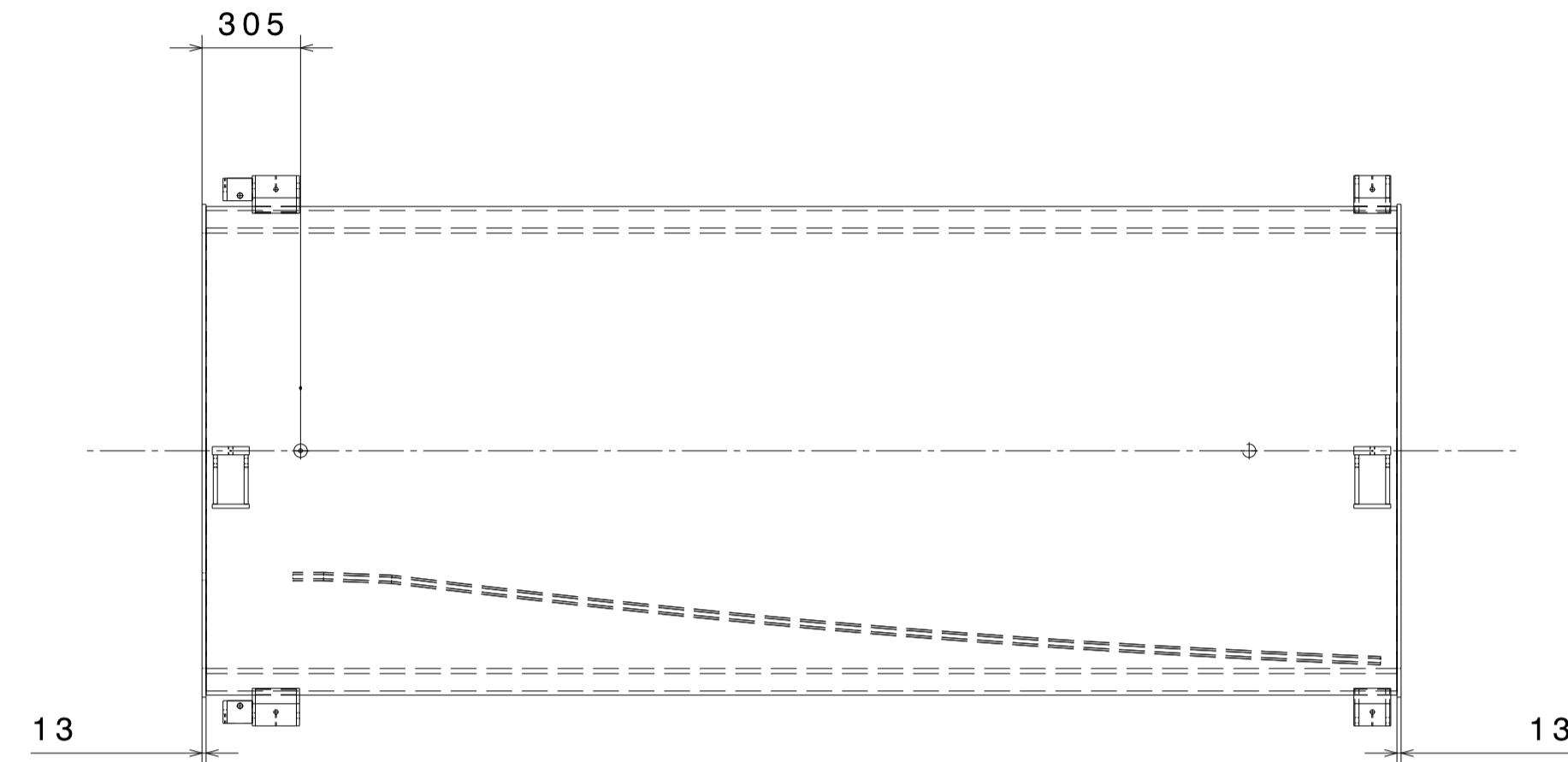
17 RESERVOIR ASSEMBLY

PART NO.	QUANTITY	PART NAME	MATERIAL	REFERENCE DWG NO.	REMARK
7	01	CHANNEL	ALUMINIUM	VCP01-005-R1/SHEET-04	-
6	06	VERTICAL FOOT	ALUMINIUM	VCP01-005-R1/SHEET-04	-
5	02	HORIZONTAL FOOT	ALUMINIUM	VCP01-005-R1/SHEET-03	-
4	01	RIGHT END ENCLOSURE	ALUMINIUM	VCP01-005-R1/SHEET-03	-
3	01	LEFT END ENCLOSURE	ALUMINIUM	VCP01-005-R1/SHEET-03	-
2	01	INNER CYLINDRICAL SHELL	ALUMINIUM	VCP01-005-R1/SHEET-03	-
1	01	OUTER CYLINDRICAL SHELL	ALUMINIUM	VCP01-005-R1/SHEET-03	-

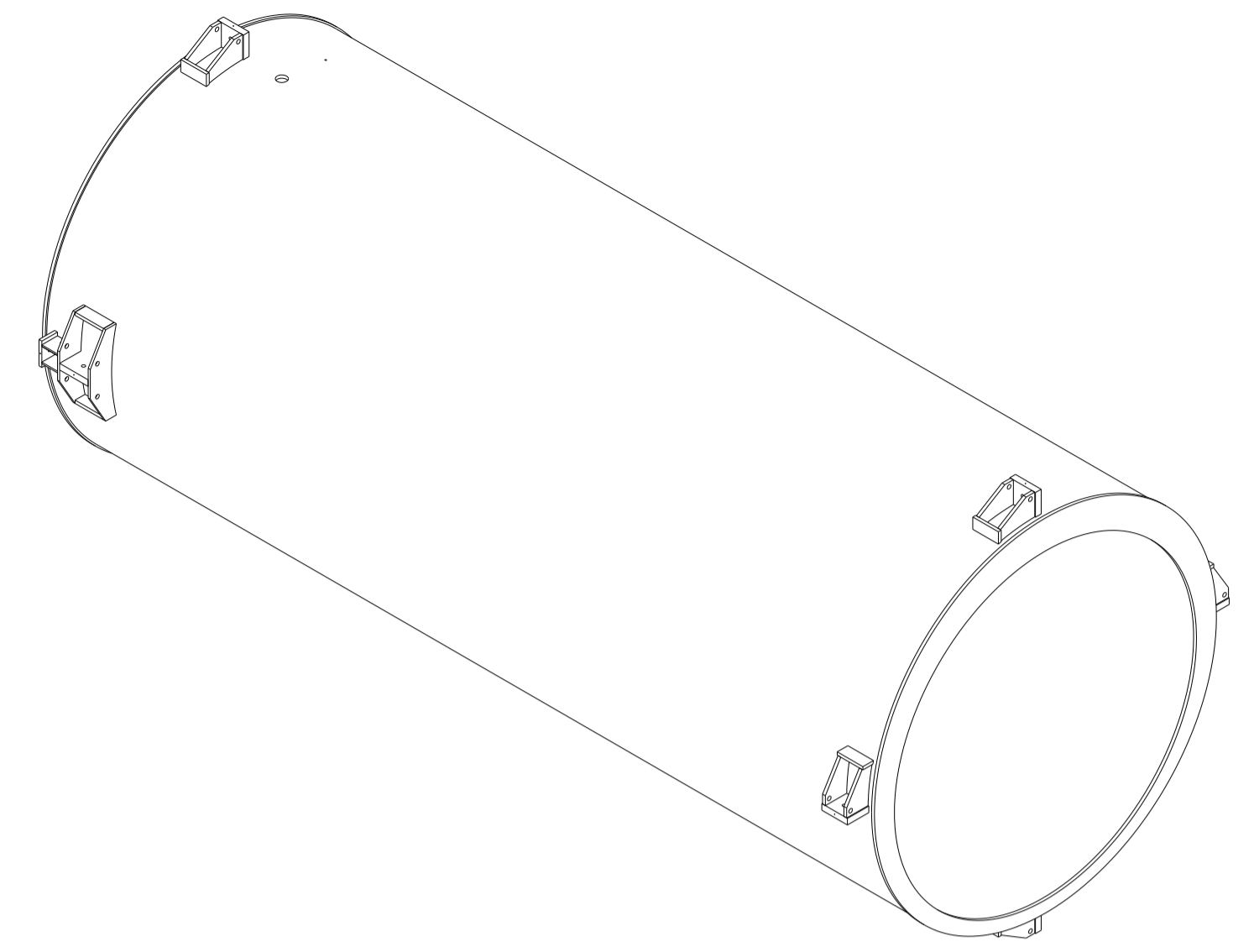
DRG. NO	▽ 8-25	▽▽ 1.6-8	▽▽▽ 0.025-1.6	▽▽▽▽ < 0.025	REVISION COLUMN				ASS'Y GROUP:	SIZE	INSTITUTE FOR PLASMA RESEARCH (LIGO-INDIA) BHAT, GANDHINAGAR-382 428.	
CO-ORDINATED BY					REV	ZONE	DESCRIPTION	DATE	REMARKS	APPROVED BY	ALL DIMENSIONS ARE IN "mm" UNLESS OTHERWISE STATED	
MACHINING DEVIATIONS FOR NON-TOLERANCED DIMENSIONS												
LENGTH IN mm OF SHORTER SIDE OF ANGLES				LENGTH OR DIA	UPTO 6	6-30	30-120	120-315	SCALE 1:10 DATE 04/07/2015			
UPTO 10	10-50	50-120	OVER 120-400		±0.1	±0.2	±0.3	±0.5	DRAWN S.P.P.		TITLE RESERVOIR ASSEMBLY	
±1'	±0'-30'	±0'-20'	±0'-10'						CHECKED R.K.	REF DRG NO: VCP01-001-R1	REV R1	
									APPROVED M.K.G.	DRG. NO VCP01-005-R1	SHEET 01 OF 04	



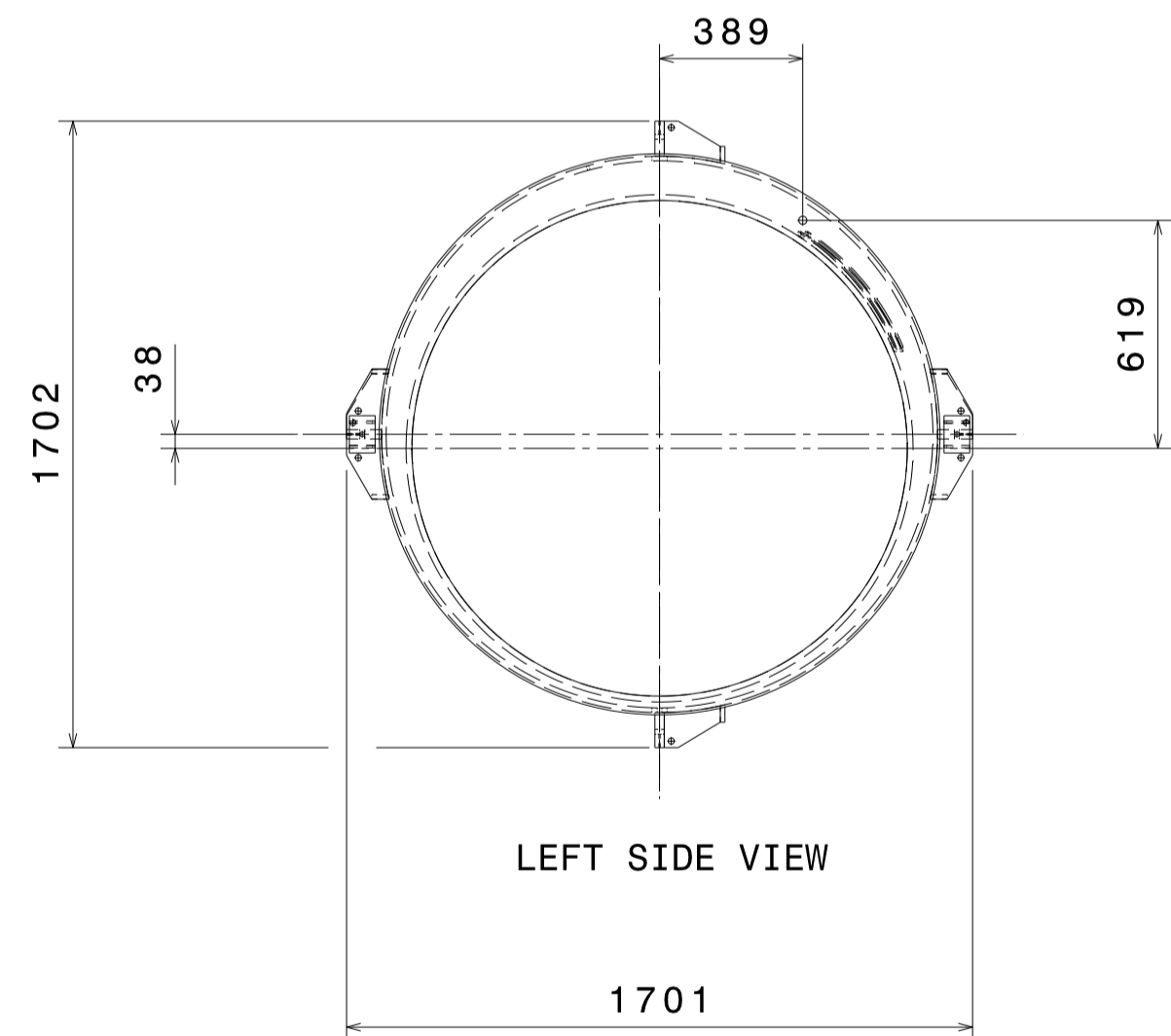
DETAIL VIEW A
SCALE-1:5



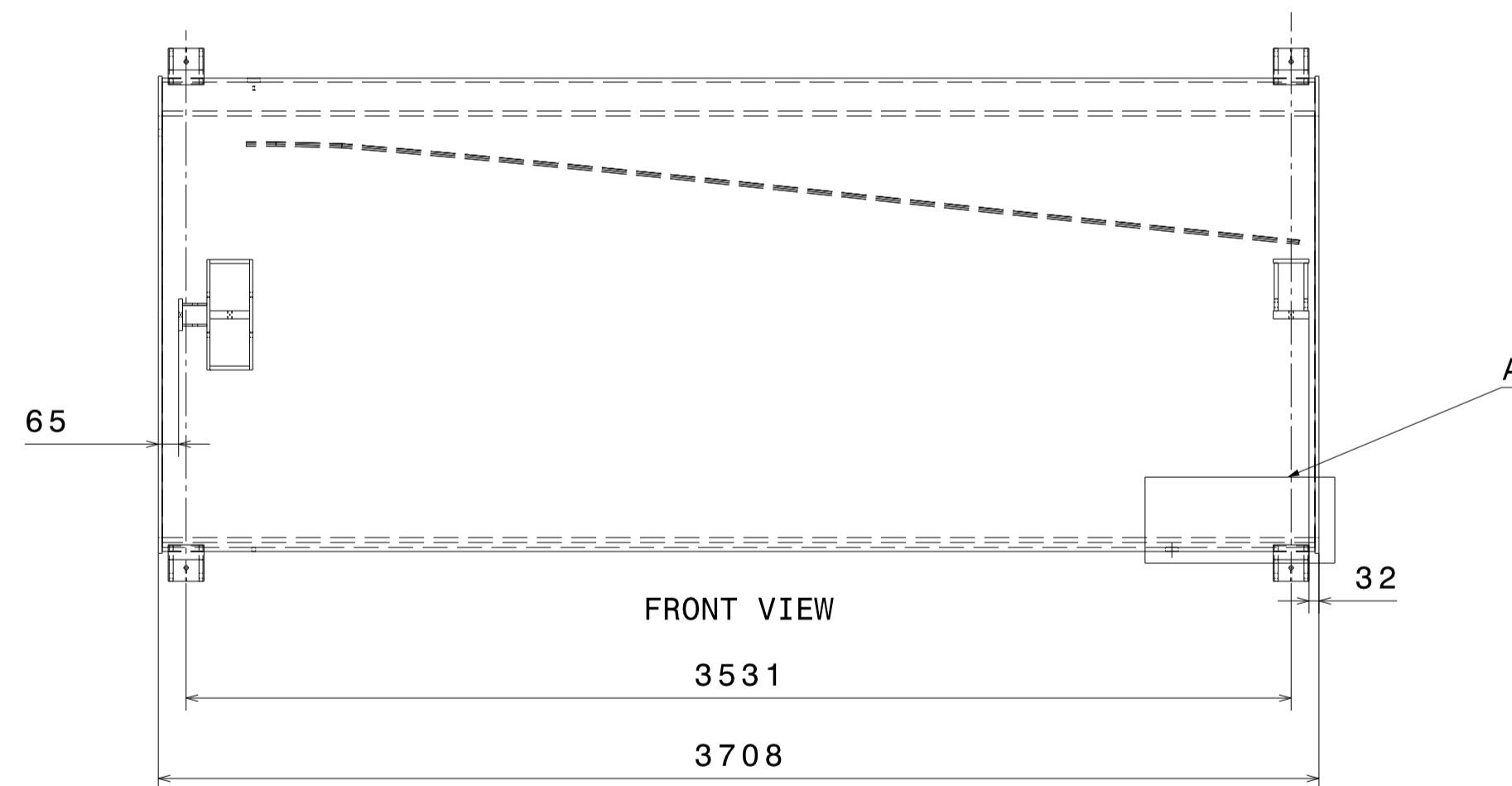
TOP VIEW



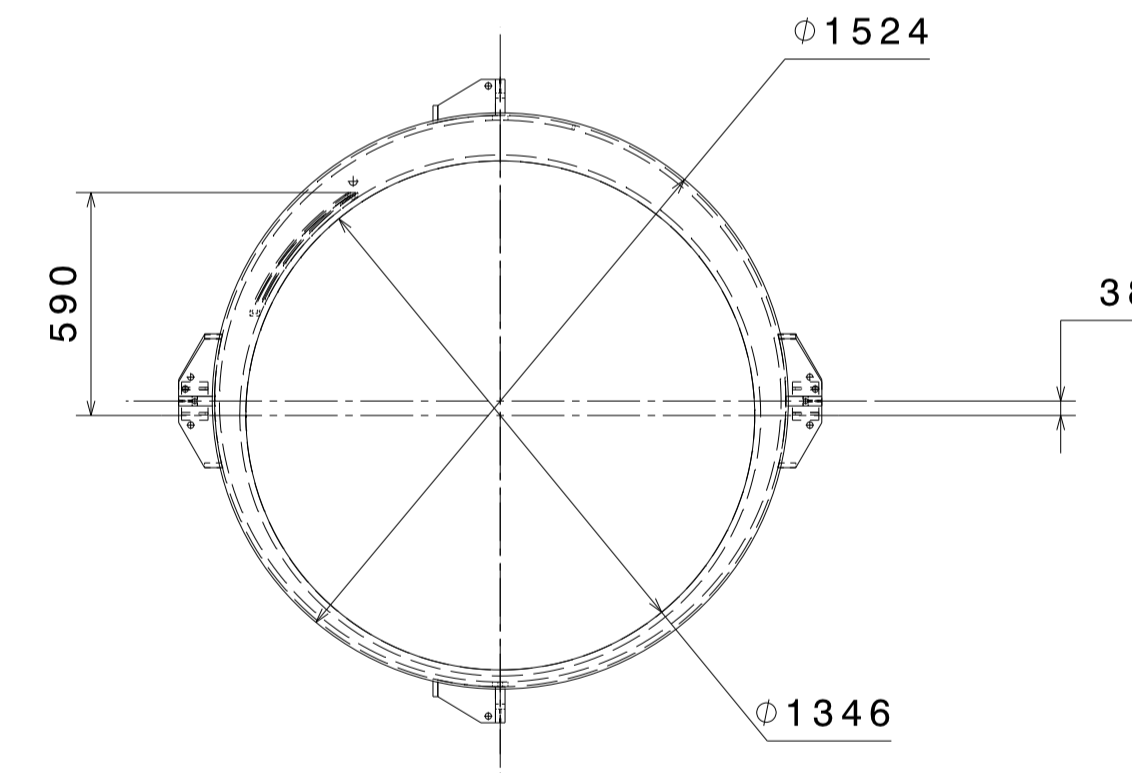
ISOMETRIC VIEW



LEFT SIDE VIEW

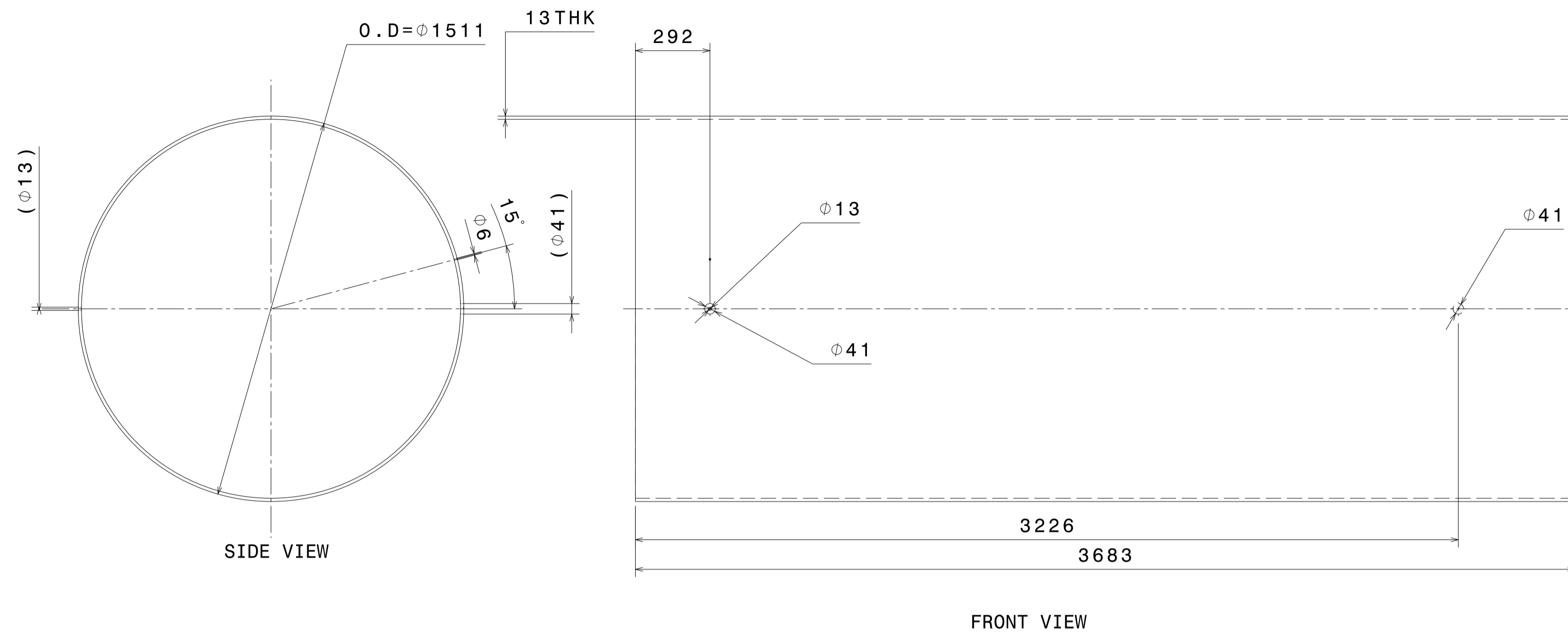


FRONT VIEW

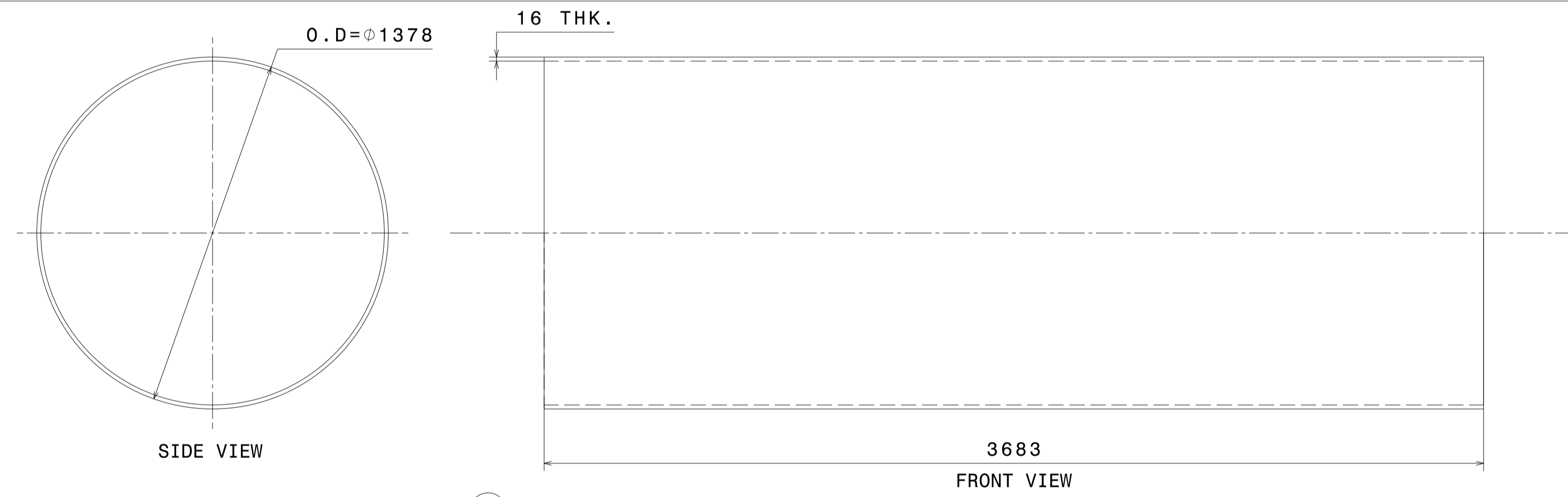


RIGHT SIDE VIEW

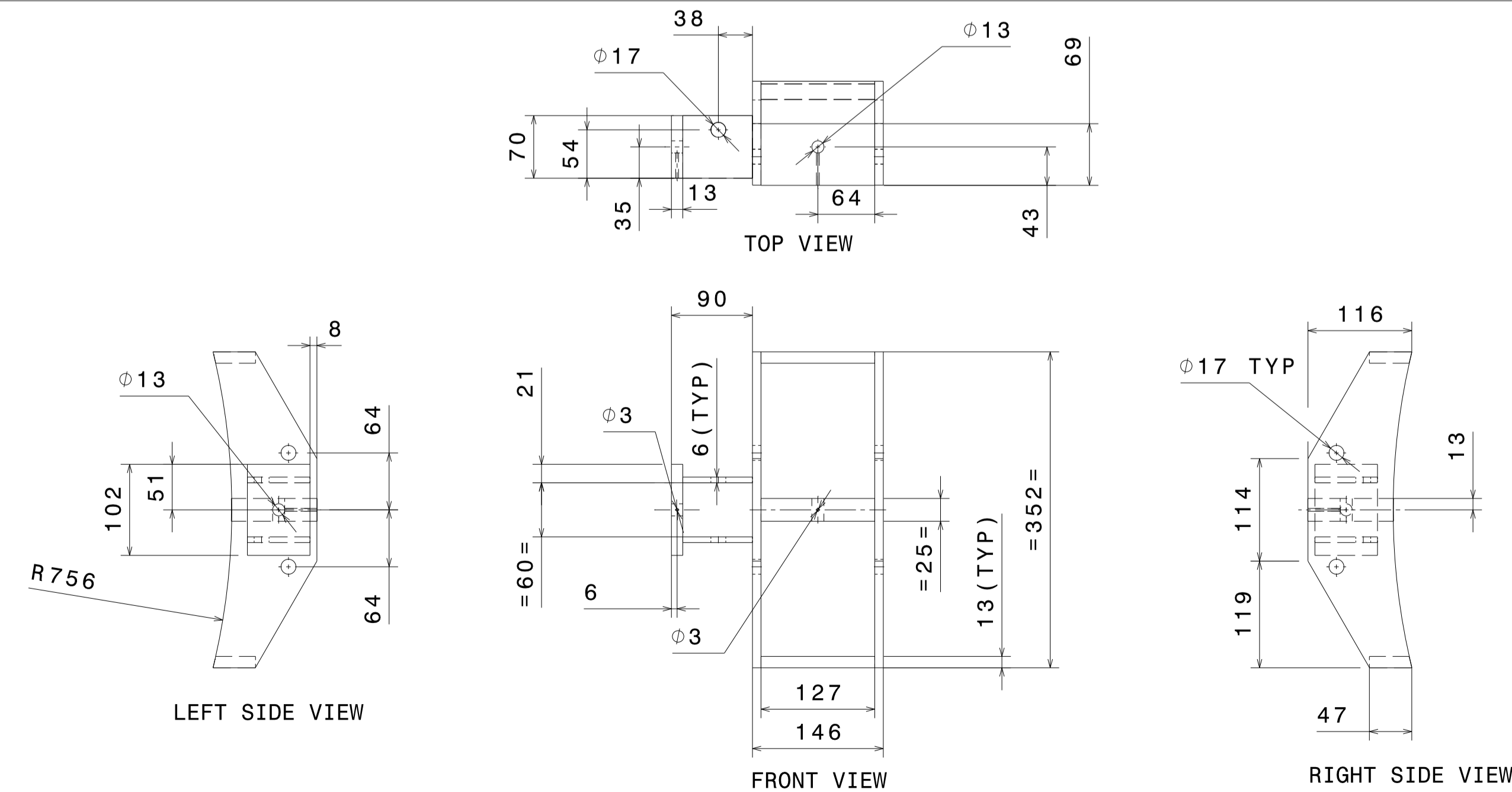
DRG.NO	▽ 8-25	▽▽ 1.6-8	▽▽▽ 0.025-1.6	▽▽▽▽ < 0.025	REVISION COLUMN				ASS'Y GROUP:	SIZE	INSTITUTE FOR PLASMA RESEARCH (LIGO-INDIA) BHAT, GANDHINAGAR-382 428.		
CO-ORDINATED BY	REV	ZONE	DESCRIPTION	DATE	REMARKS	APPROVED BY	SCALE	AS NOTED	DATE	TITLE	REF DRG NO:	REV	
MACHINING DEVIATIONS FOR NON-TOLERANCED DIMENSIONS											RESERVOIR ASSEMBLY		
LENGTH IN mm OF SHORTER SIDE OF ANGLES				LENGTH OR DIA	UPTO 6	6-30	30-120	120-315	DRAWN	S.P.P.	04/07/2015	VCP01-001-R1	R1
UPTO 10	10-50	50-120	OVER 120-400		±0.1	±0.2	±0.3	±0.5	CHECKED	R.K.			
±1'	±0'-30'	±0'-20'	±0'-10'						APPROVED	M.K.G.	DRG. NO	VCP01-005-R1	SHEET 02 OF 04



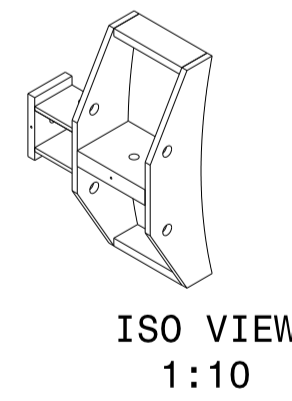
1 OUTER CYLINDRICAL SHELL
SCALE-1:15



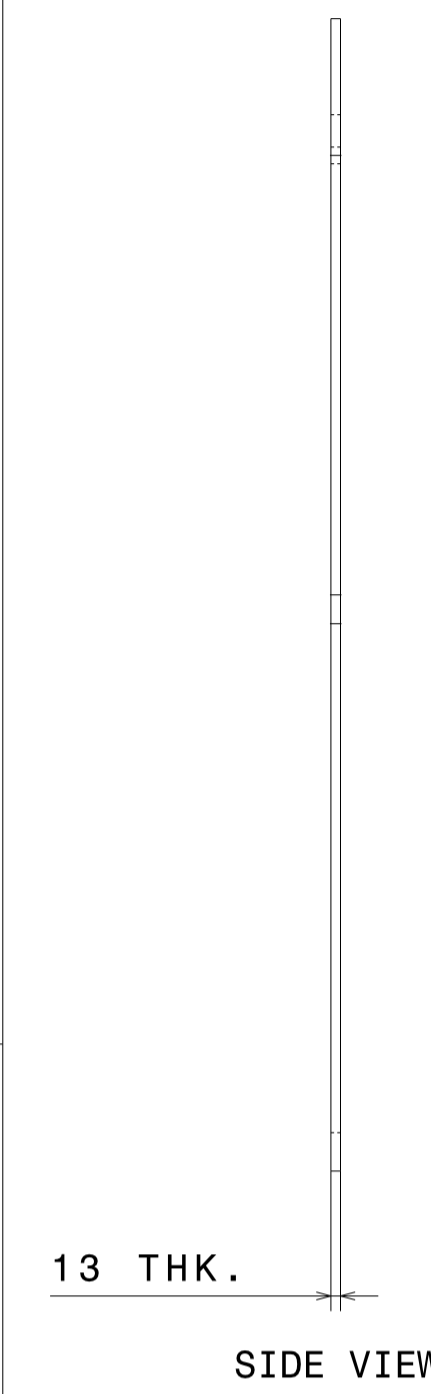
2 INNER CYLINDRICAL SHELL
SCALE-1:15



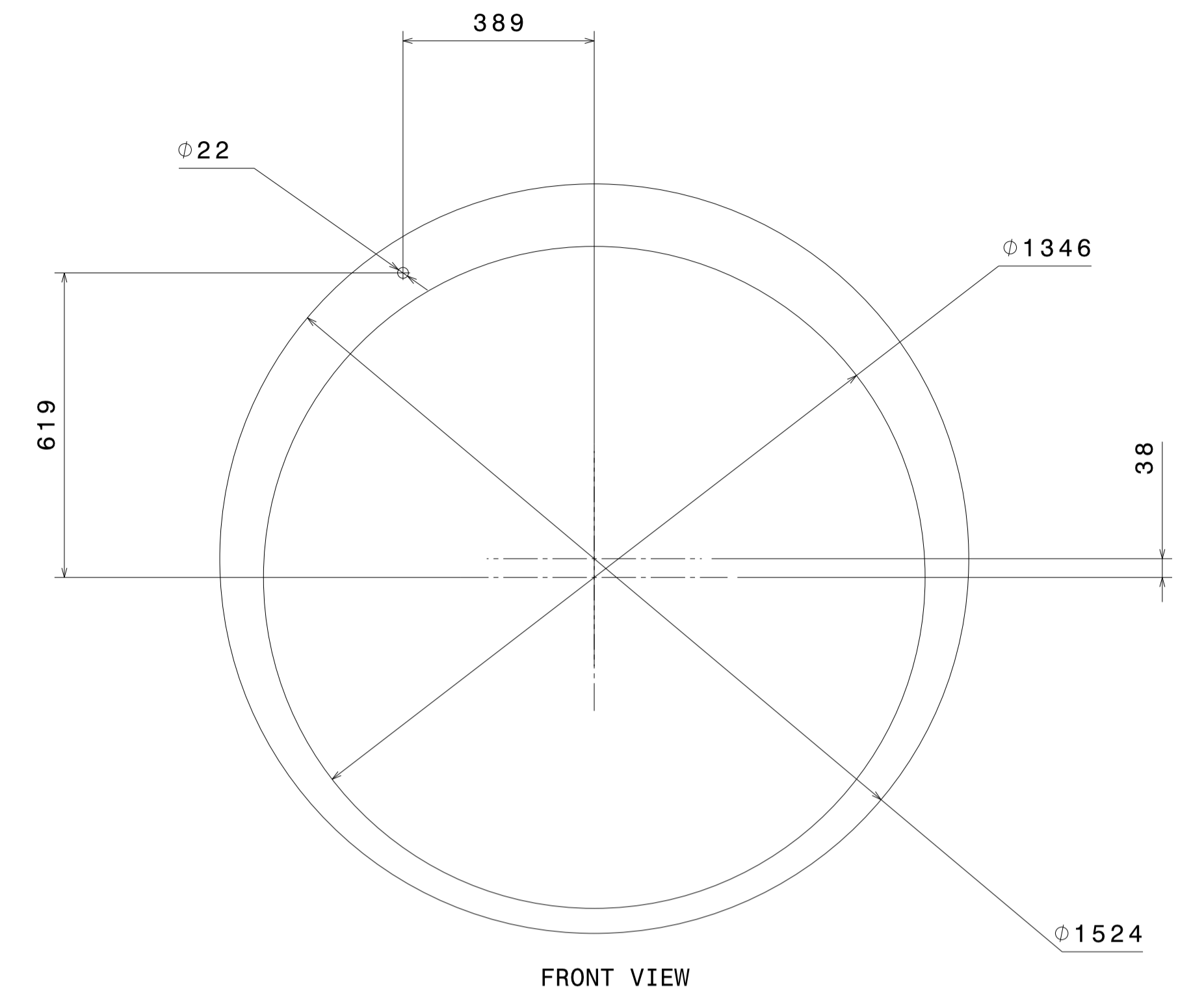
5 HORIZONTAL FOOT
SCALE-1:5



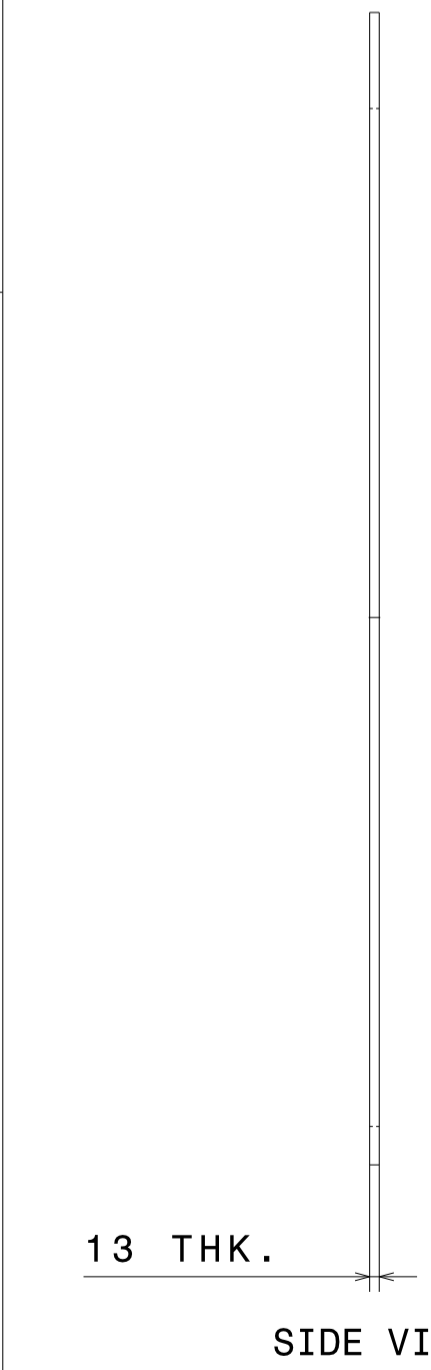
ISO VIEW
1:10



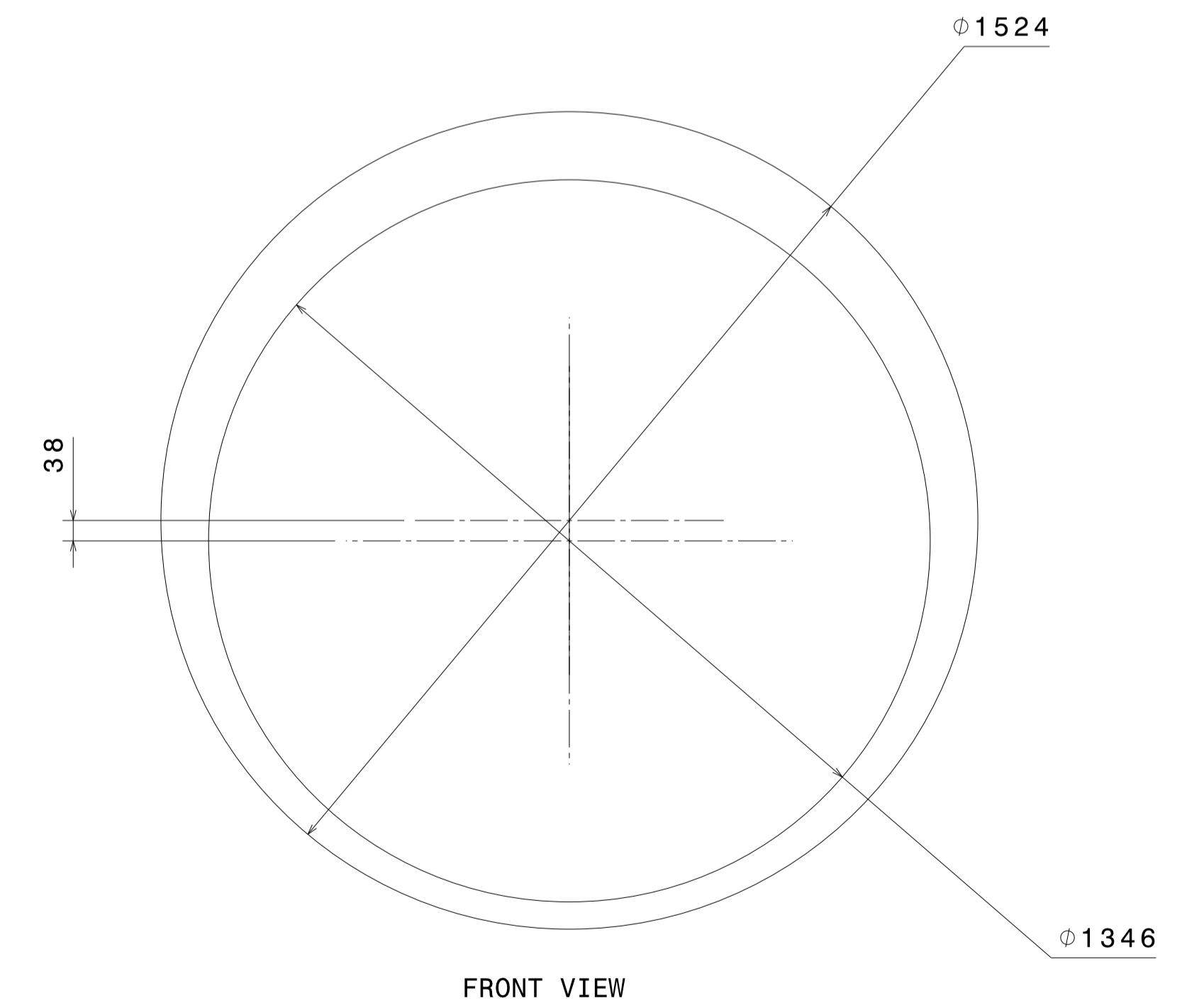
13 THK.
SIDE VIEW



3 LEFT END ENCLOSURE
SCALE-1:10

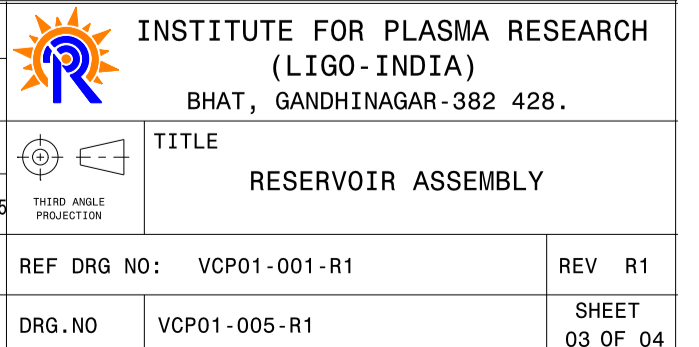


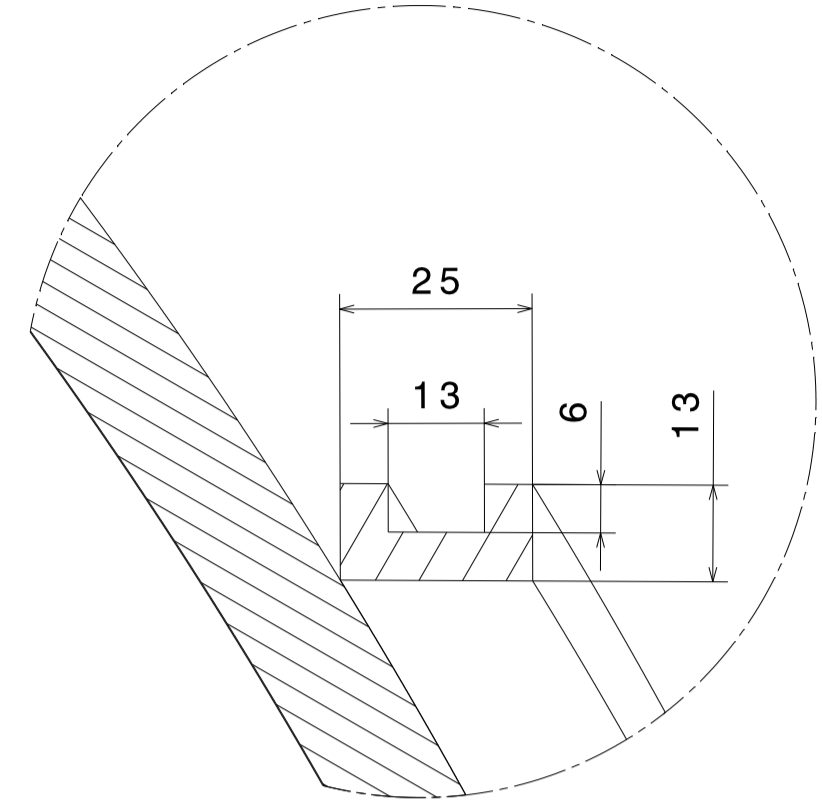
13 THK.
SIDE VIEW



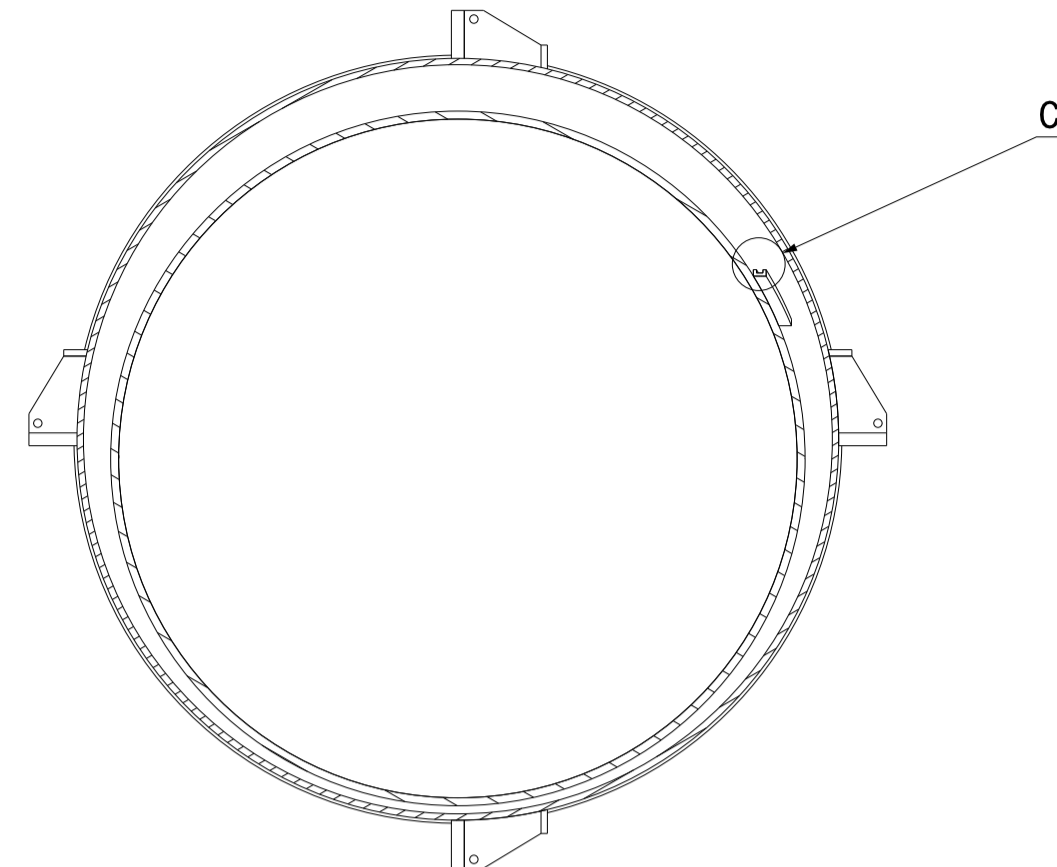
4 RIGHT END ENCLOSURE
SCALE-1:10

DRG. NO		REVISION COLUMN				ASS'Y GROUP:		SIZE	INSTITUTE FOR PLASMA RESEARCH (LIGO-INDIA)	
▽ 8-25		▽ 1.6-8	▽ 0.025-1.6	▽ 0.025	REV	ZONE	DESCRIPTION	DATE	REMARKS	APPROVED BY
MACHINING DEVIATIONS FOR NON-TOLERANCED DIMENSIONS										
LENGTH IN mm OF SHORTER SIDE OF ANGLES				LENGTH OR DIA	UPTO 6	6-30	30-120	120-315		
UPTO 10	10-50	50-120	OVER 120-400		+0.1	+0.2	+0.3	+0.5		
+1'	+0'-30'	+0'-20'	+0'-10'							
CO-ORDINATED BY						SCALE		AS NOTED	DATE	TITLE
						DRAWN		S.P.P.	04/07/2015	RESERVOIR ASSEMBLY
						CHECKED		R.K.	REF DRG NO:	VCP01-001-R1
						APPROVED		M.K.G.	DRG. NO	VCP01-005-R1
									REV	R1
									SHEET	03 OF 04

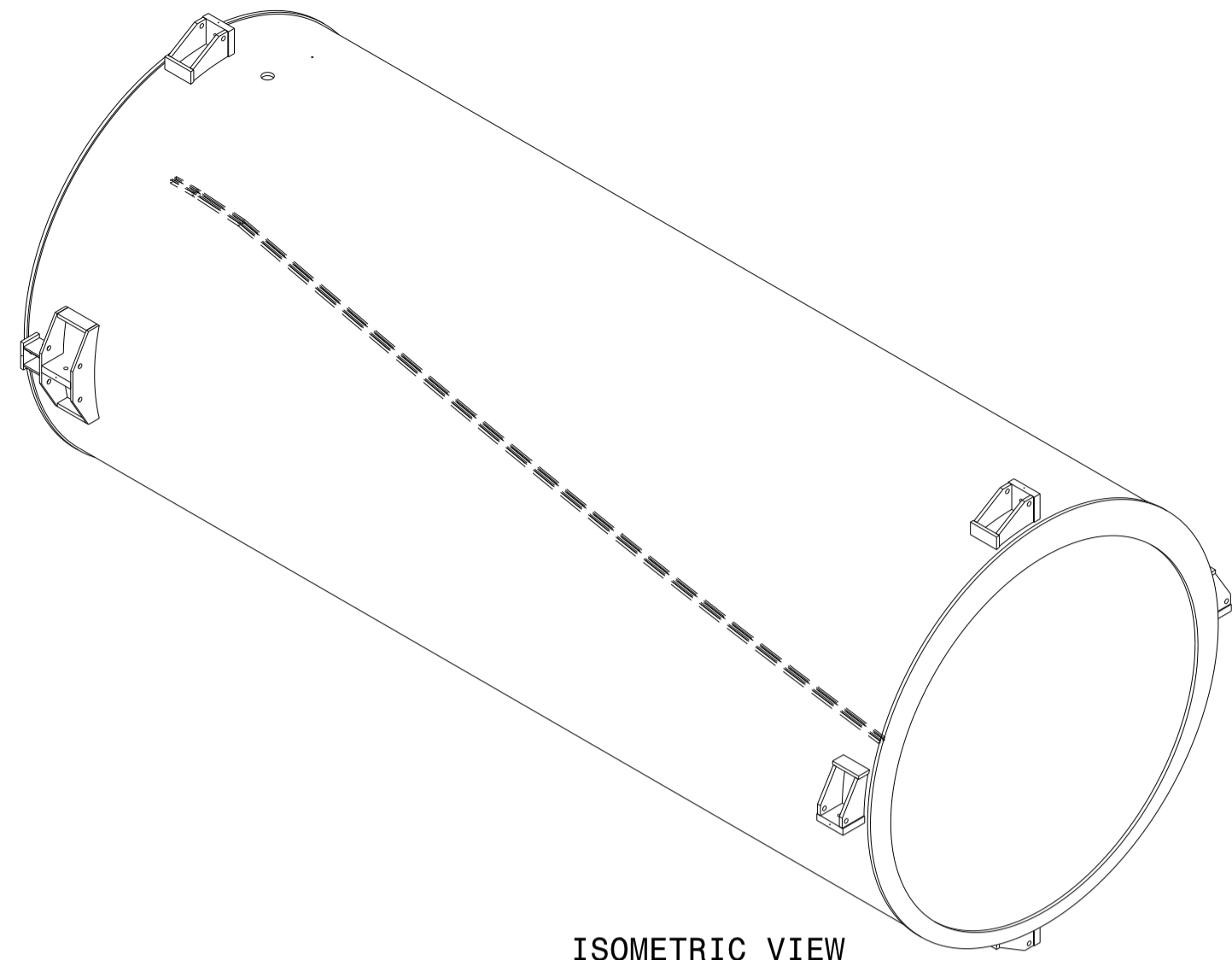




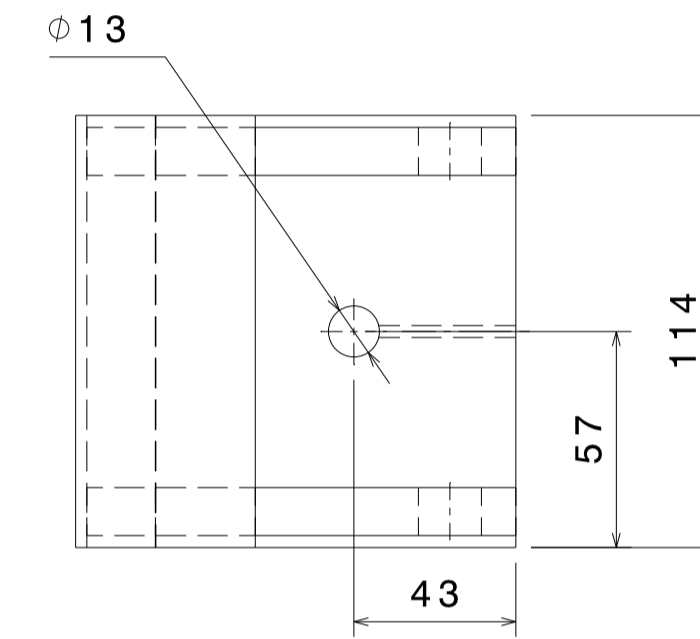
DETAIL VIEW C
SCALE- 1:1



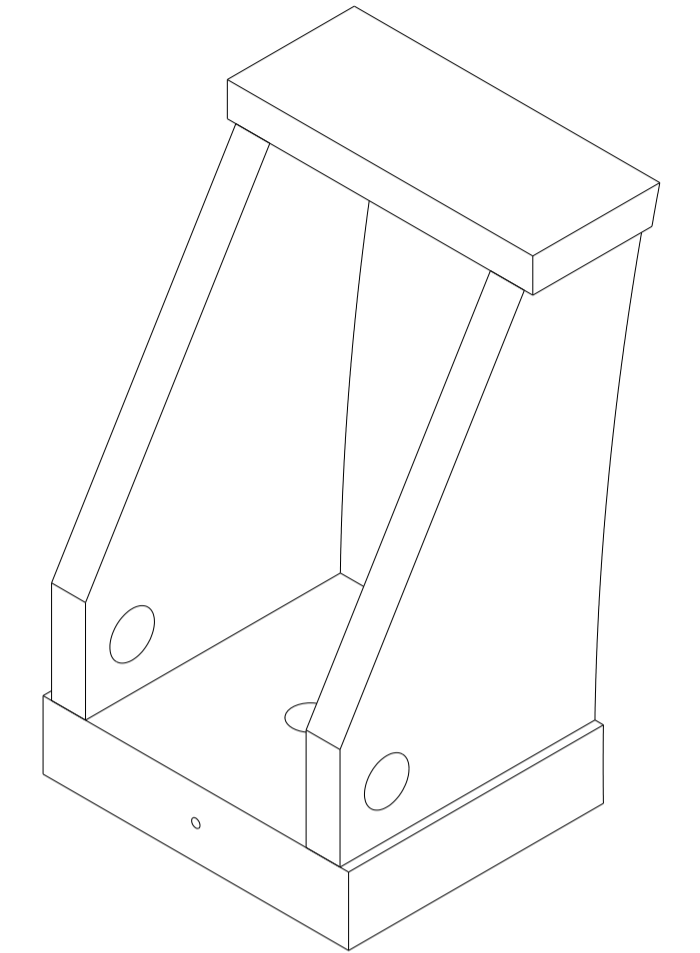
SECTION VIEW B-B



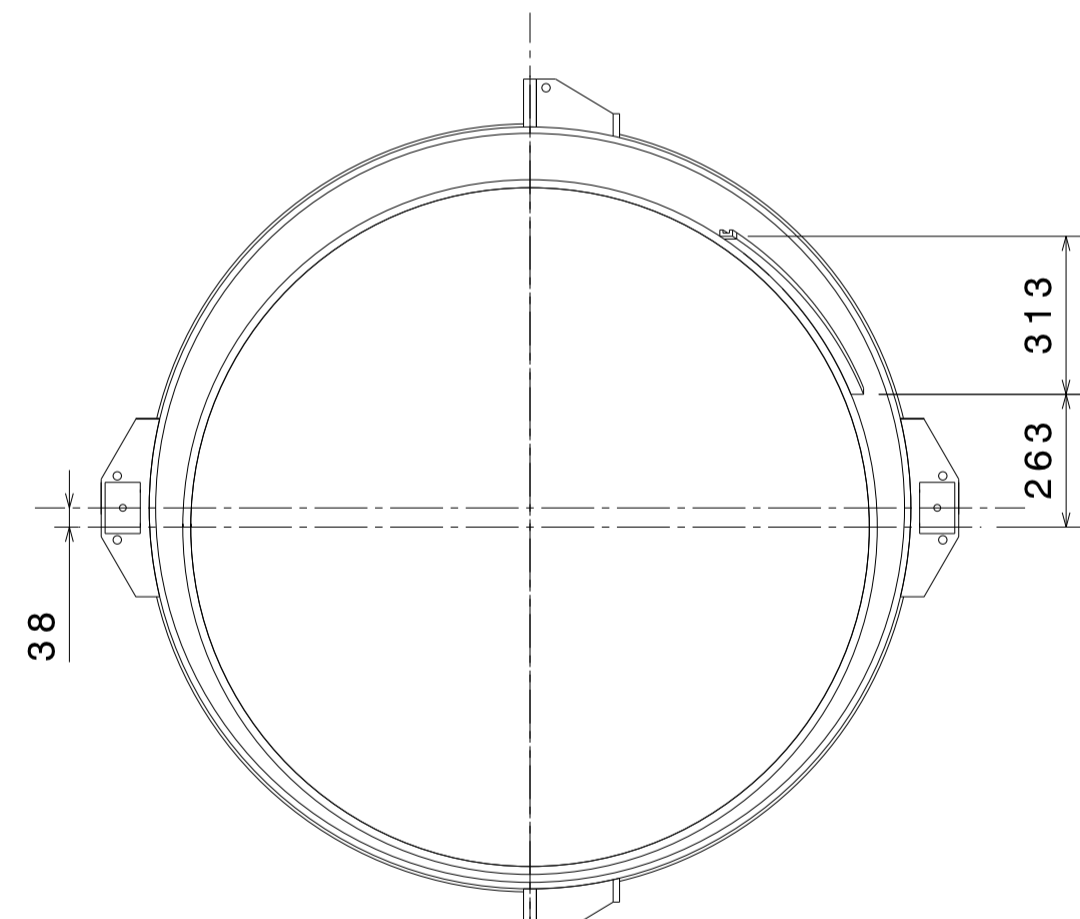
ISOMETRIC VIEW
SCALE-1:20



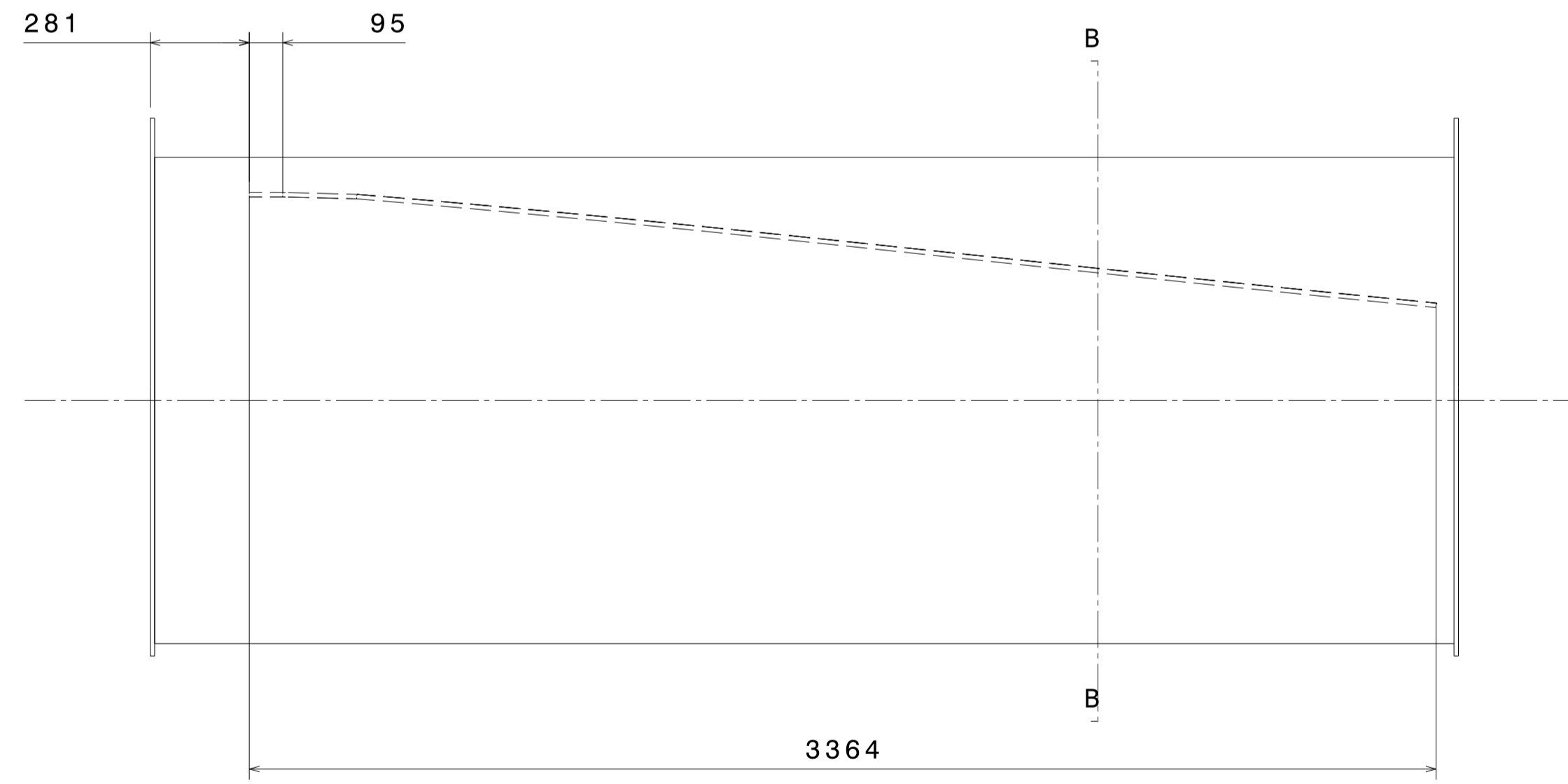
TOP VIEW



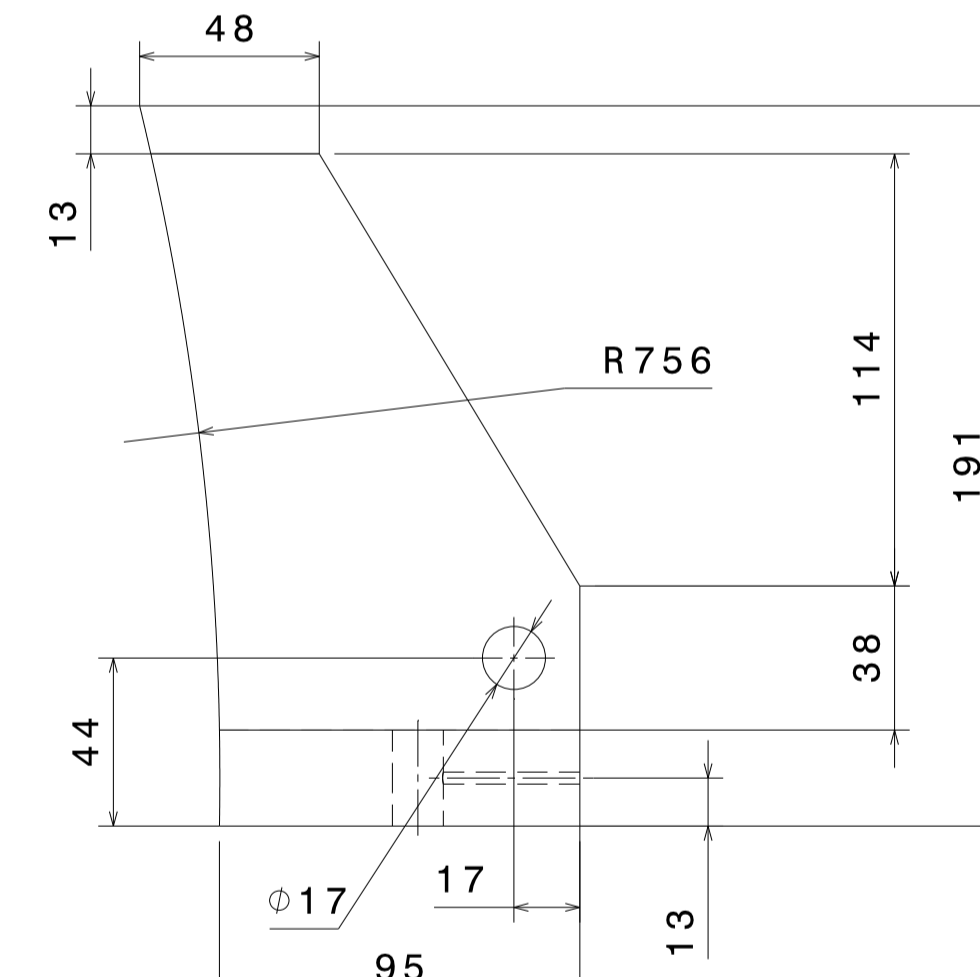
ISOMETRIC VIEW
SCALE-1:5



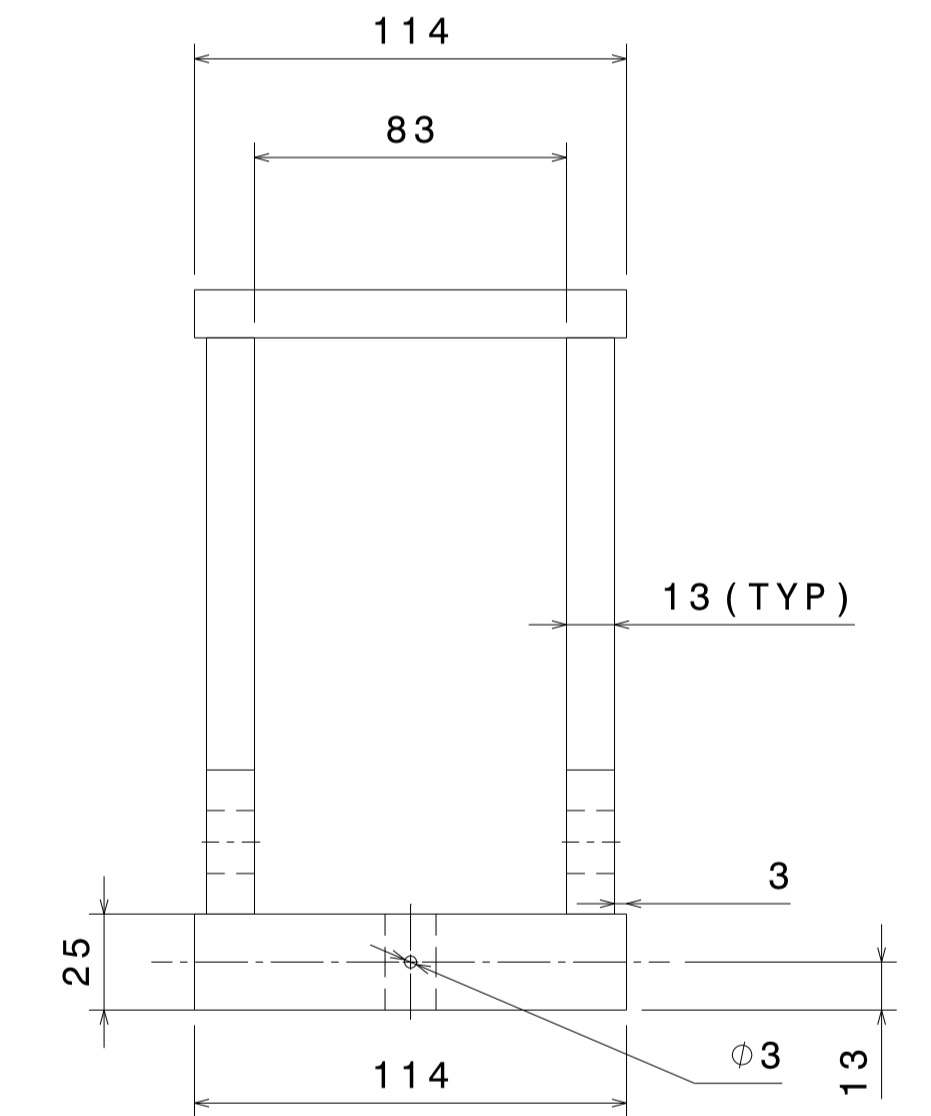
SIDE VIEW



FRONT VIEW



FRONT VIEW

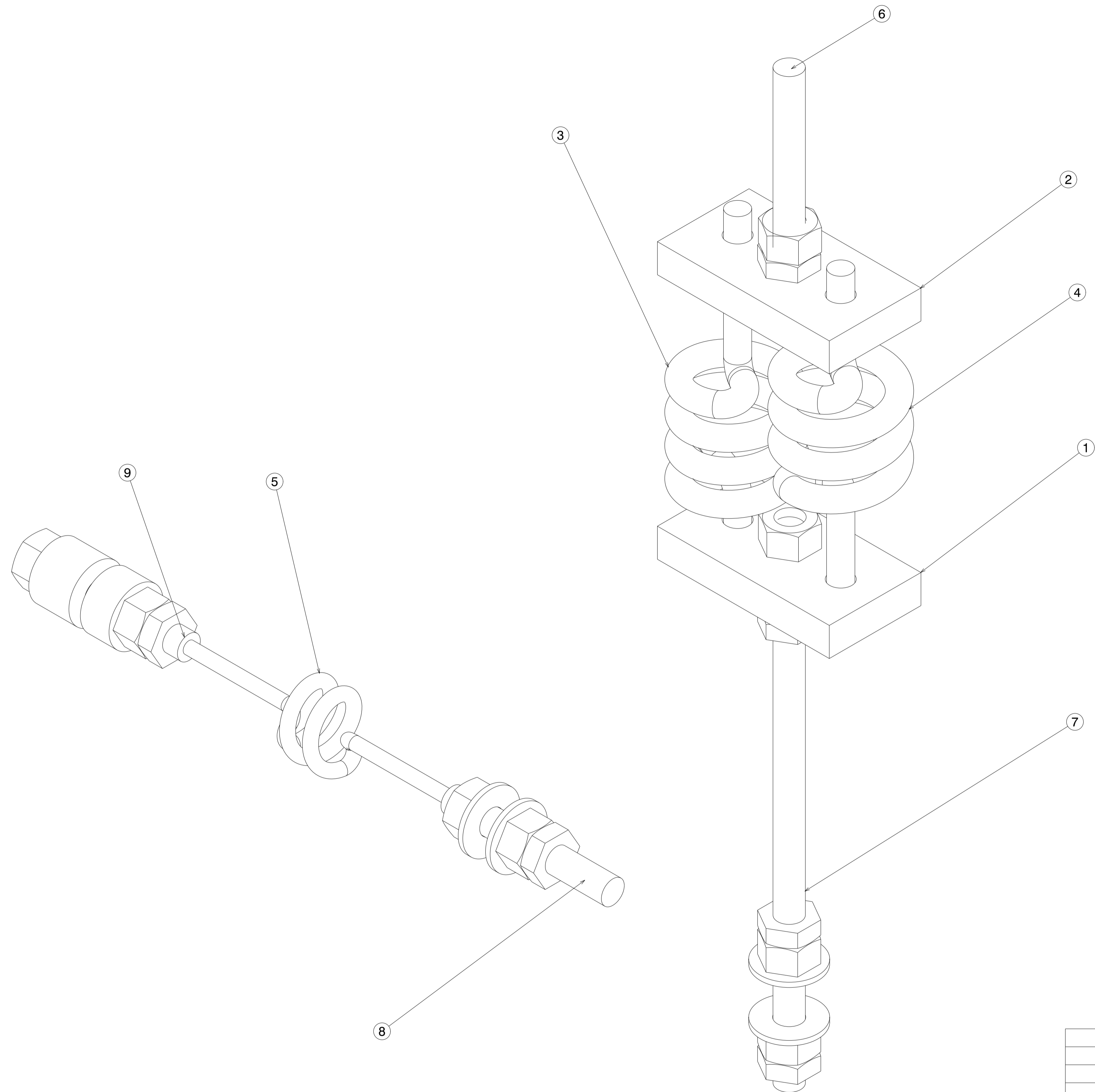


SIDE VIEW

7 CHANNEL
SCALE-1:15

6 VERTICAL FOOT
SCALE-1:2

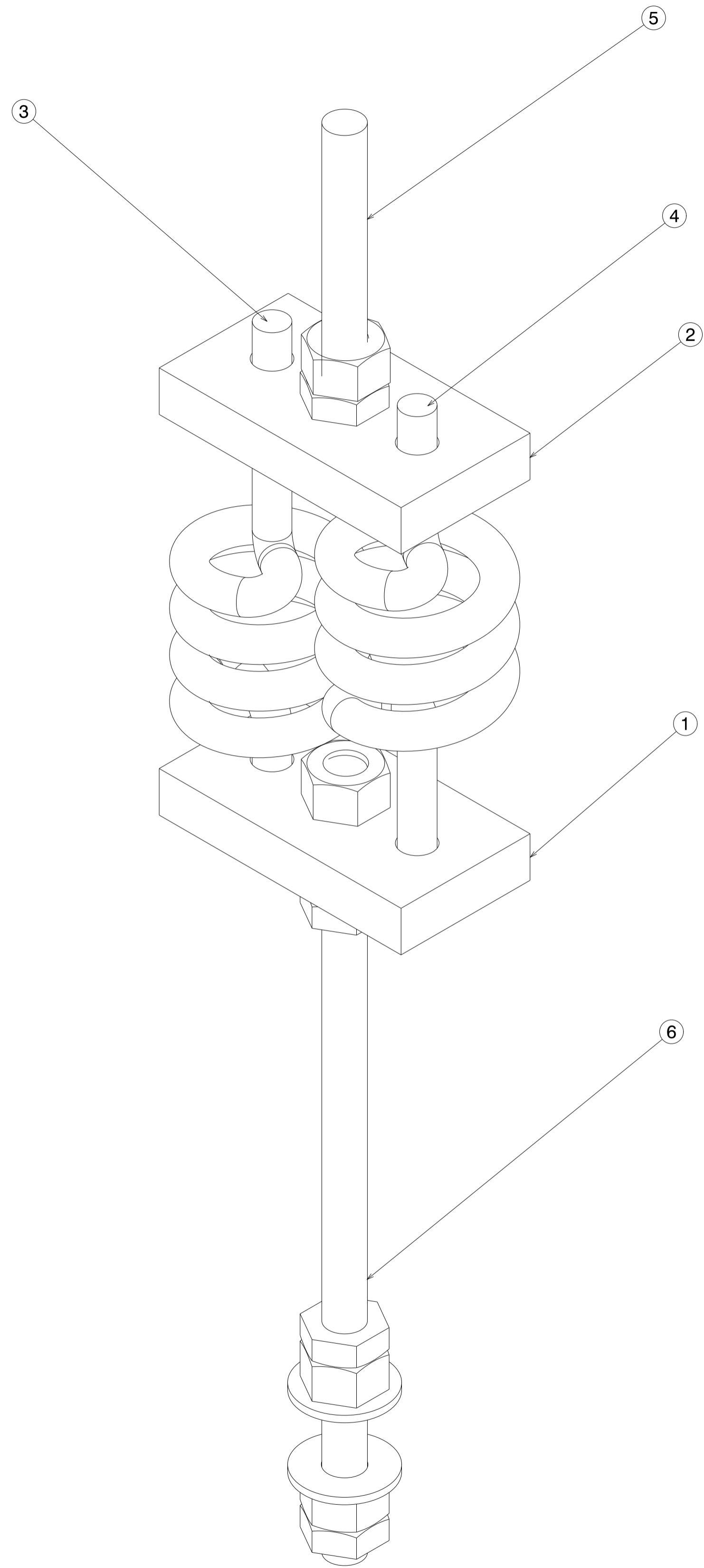
DRG.NO	▽ 8-25	▽▽ 1.6-8	▽▽▽ 0.025-1.6	▽▽▽▽ < 0.025	REVISION COLUMN				ASS'Y GROUP:	SIZE A1	INSTITUTE FOR PLASMA RESEARCH (LIGO-INDIA) BHAT, GANDHINAGAR-382 428.		
CO-ORDINATED BY	REV	ZONE	DESCRIPTION	DATE	REMARKS	APPROVED BY	SCALE	AS NOTED	DATE	TITLE	RESERVOIR ASSEMBLY		
MACHINING DEVIATIONS FOR NON-TOLERANCED DIMENSIONS													
LENGTH IN mm OF SHORTER SIDE OF ANGLES				LENGTH OR DIA	UPTO 6	6-30	30-120	120-315					
UPTO 10	10-50	50-120	OVER 120-400		±0.1	±0.2	±0.3	±0.5					
±1'	±0'-30'	±0'-20'	±0'-10'						CHECKED	R.K.	REF DRG NO: VCP01-001-R1	REV R1	
									APPROVED	M.K.G.	DRG. NO	VCP01-005-R1	SHEET 04 OF 04



18 RESERVOIR SUPPORT ASSEMBLY-1

PART NO.	QUANTITY	PART NAME	MATERIAL	REFERENCE DWG NO.	REMARK
9	01	THREADED ROD - 4	SS304L	VCP01-006-R1/SHEET-02	-
8	01	THREADED ROD - 3	SS304L	VCP01-006-R1/SHEET-02	-
7	01	THREADED ROD - 2	SS304L	VCP01-006-R1/SHEET-02	-
6	01	THREADED ROD - 1	SS304L	VCP01-006-R1/SHEET-02	-
5	01	SPRING - 3	SS304L	VCP01-006-R1/SHEET-02	-
4	01	SPRING - 2	SS304L	VCP01-006-R1/SHEET-02	-
3	01	SPRING - 1	SS304L	VCP01-006-R1/SHEET-02	-
2	01	VERTICAL SPRING SUPPORT - 2	SS304L	VCP01-006-R1/SHEET-02	-
1	01	VERTICAL SPRING SUPPORT - 1	SS304L	VCP01-006-R1/SHEET-02	-

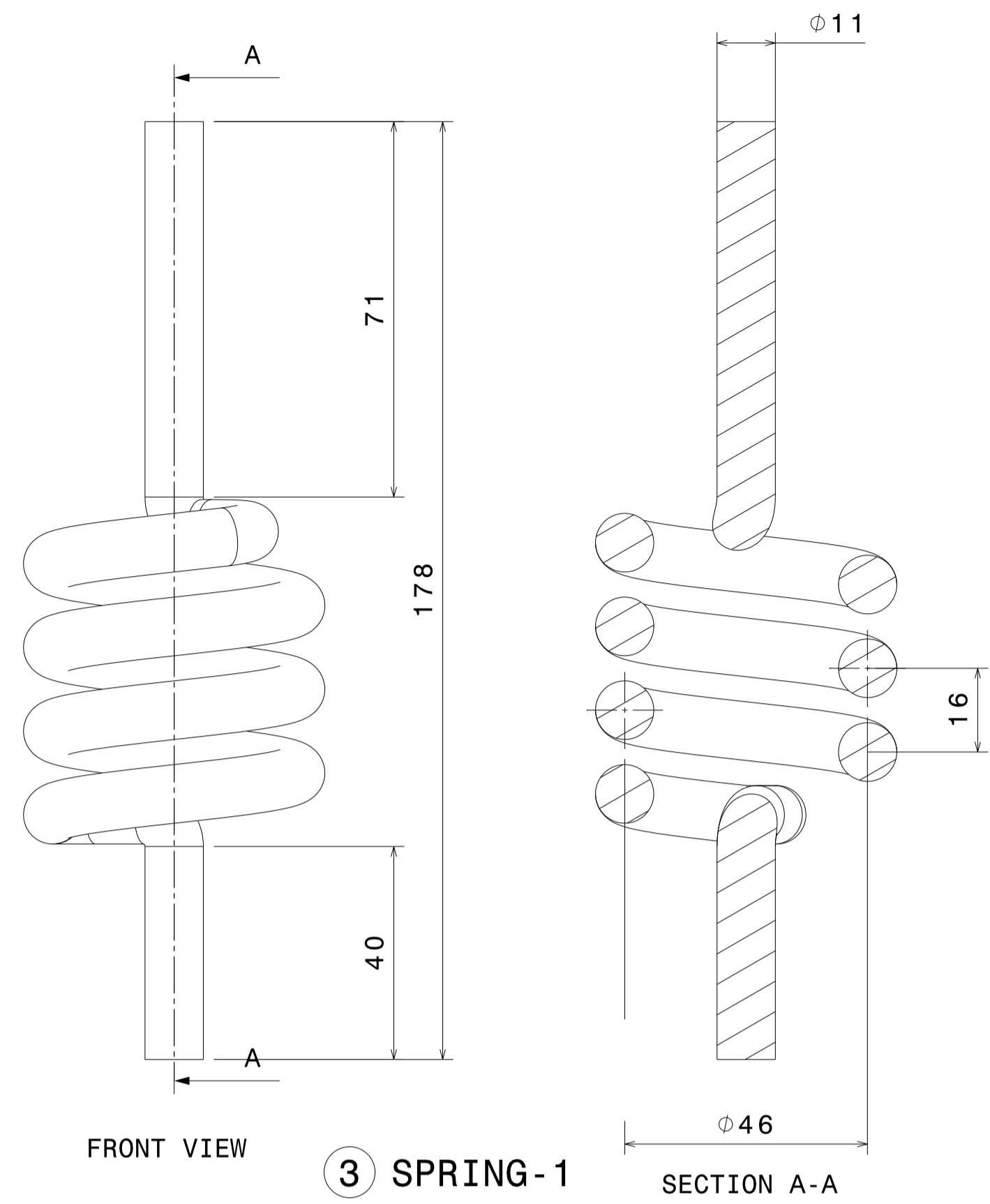
MATERIAL:		MACHINING DEVIATIONS FOR NON-TOLERANCED DIMENSIONS				REVISION COLUMN					MED		SIZE	INSTITUTE FOR PLASMA RESEARCH (LIGO-INDIA)				
CO-ORDINATED BY		▽ 8-25	▽▽ 1.6-8	▽▽▽ 0.025-1.6	▽▽▽▽ < 0.025	REV	ZONE	DESCRIPTION	DATE	REMARKS	APPROVED BY	ALL DIMENSIONS ARE IN "mm" UNLESS OTHERWISE STATED		A1	BHAT, GANDHINAGAR-382 428.			
LENGTH IN mm OF SHORTER SIDE OF ANGLES		UPTO 10	10-50	50-120	OVER 120-400	LENGTH OR DIA	UPTO 6	6-30	30-120	120-315	SCALE	AS NOTED	DATE	TITLE				
UPTO 10	10-50	50-120	OVER 120-400			UPTO 6	6-30	30-120	120-315		DRAWN	S.P.P.	04/07/2019	RESERVOIR SUPPORT ASSEMBLY-1				
+1'	+0'-30'	+0'-20'	+0'-10'				±0.1	±0.2	±0.3	±0.5	CHECKED	R.K.		REF DRG NO:	VCP01-001-R1	REV	R1	
											APPROVED	M.K.G.		DRG. NO	VCP01-006-R1			SHEET 01 OF 03



6	01	THREADED ROD-2	SS304L	VCP01-007-R1/SHEET-02	-
5	01	THREADED ROD-1	SS304L	VCP01-007-R1/SHEET-02	-
4	01	SPRING-2	SS304L	VCP01-007-R1/SHEET-02	-
3	01	SPRING-1	SS304L	VCP01-007-R1/SHEET-02	-
2	01	VERTICAL SPRING SUPPORT-2	SS304L	VCP01-007-R1/SHEET-02	-
1	01	VERTICAL SPRING SUPPORT-1	SS304L	VCP01-007-R1/SHEET-02	-
PART NO.	QUANTITY	PART NAME	MATERIAL	REFERENCE DWG NO.	REMARK

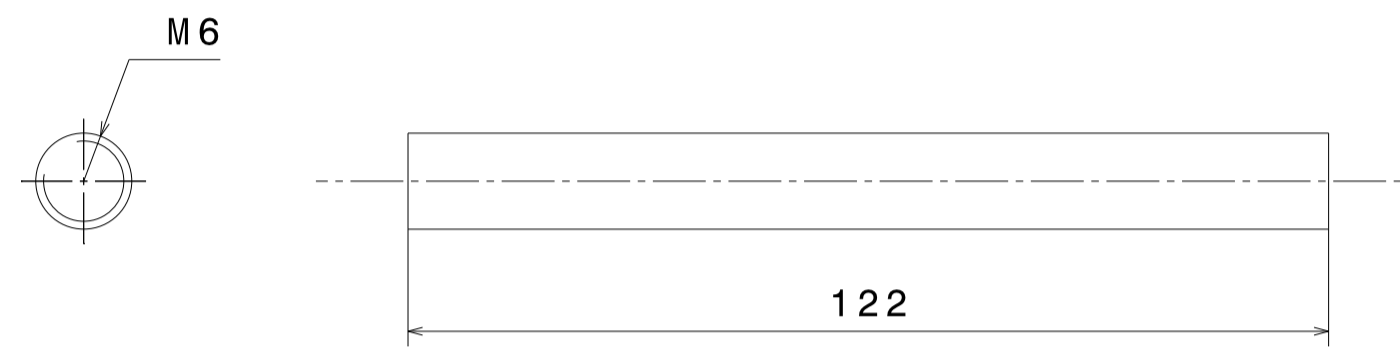
19 RESERVOIR SUPPORT ASSEMBLY-2

MATERIAL:		▽ 8-25	▽▽ 1.6-8	▽▽▽ 0.025-1.6	▽▽▽▽ < 0.025	REVISION COLUMN					MED	SIZE A1	INSTITUTE FOR PLASMA RESEARCH (LIGO-INDIA) BHAT, GANDHINAGAR-382 428.			
CO-ORDINATED BY						REV	ZONE	DESCRIPTION	DATE	REMARKS	APPROVED BY	ALL DIMENSIONS ARE IN 'mm' UNLESS OTHERWISE STATED		TITLE		
MACHINING DEVIATIONS FOR NON-TOLERANCED DIMENSIONS												SCALE	1:1	DATE	RESERVOIR SUPPORT ASSEMBLY-2	
LENGTH IN mm OF SHORTER SIDE OF ANGLES				LENGTH OR DIA	UPTO 6	6-30	30-120	120-315			DRAWN	S.P.P.	04/07/2019	REF DRG NO: VCP01-001-R1		
UPTO 10	10-50	50-120	OVER 120-400		±0.1	±0.2	±0.3	±0.5			CHECKED	R.K.	REV R1			
±1'	±0'-30'	±0'-20'	±0'-10'								APPROVED	M.K.G.	DRG. NO	VCP01-007-R1	SHEET 01 OF 02	

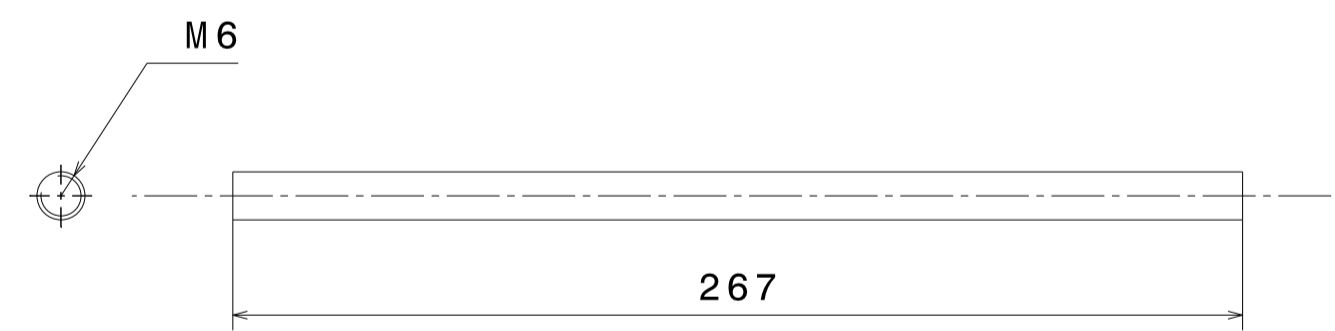


③ SPRING - 1

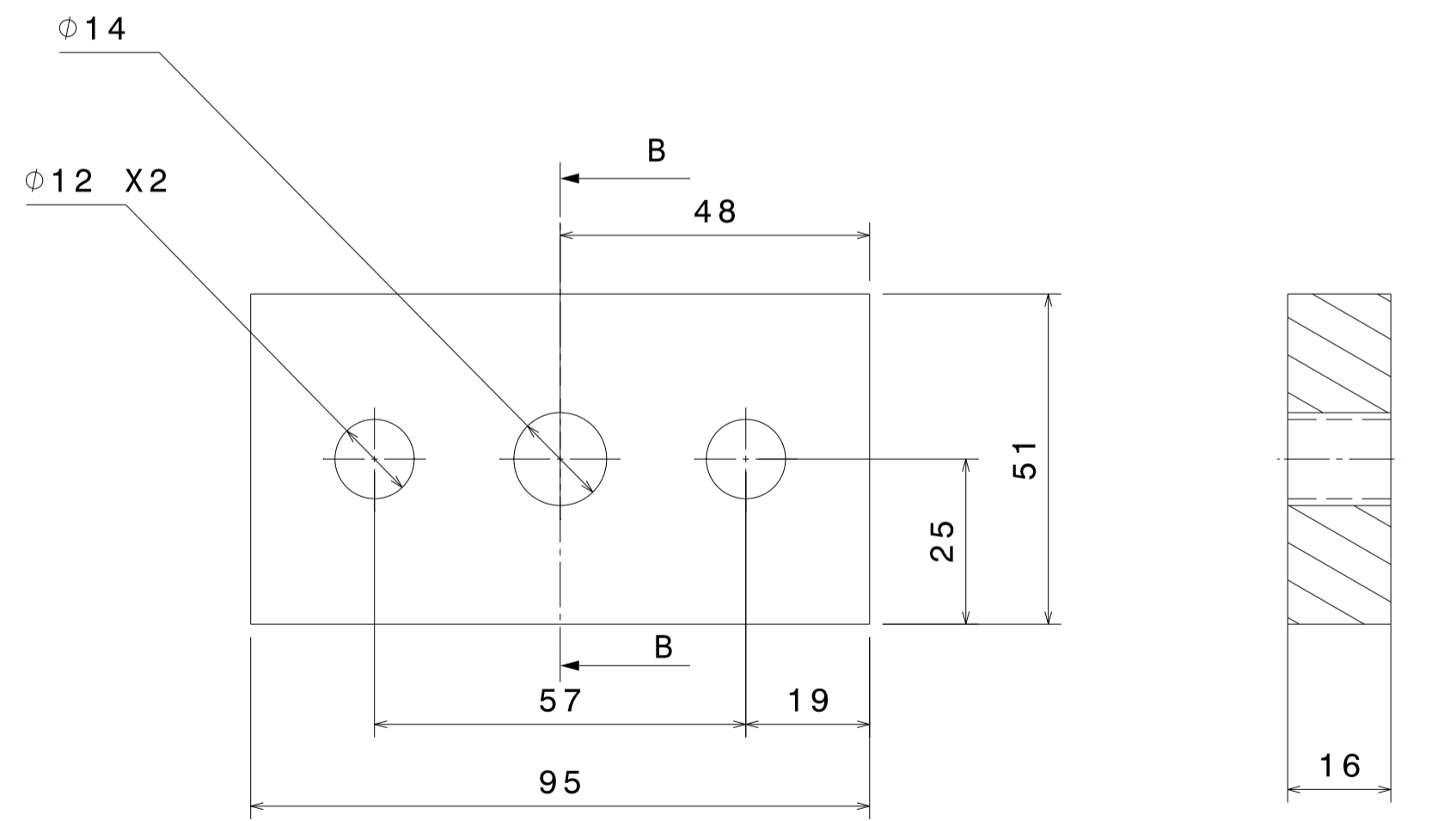
④ SPRING - 2
SCALE - 1:1



⑤ THREADED ROD - 1
SCALE - 1:1



⑥ THREADED ROD - 2
SCALE - 1:2

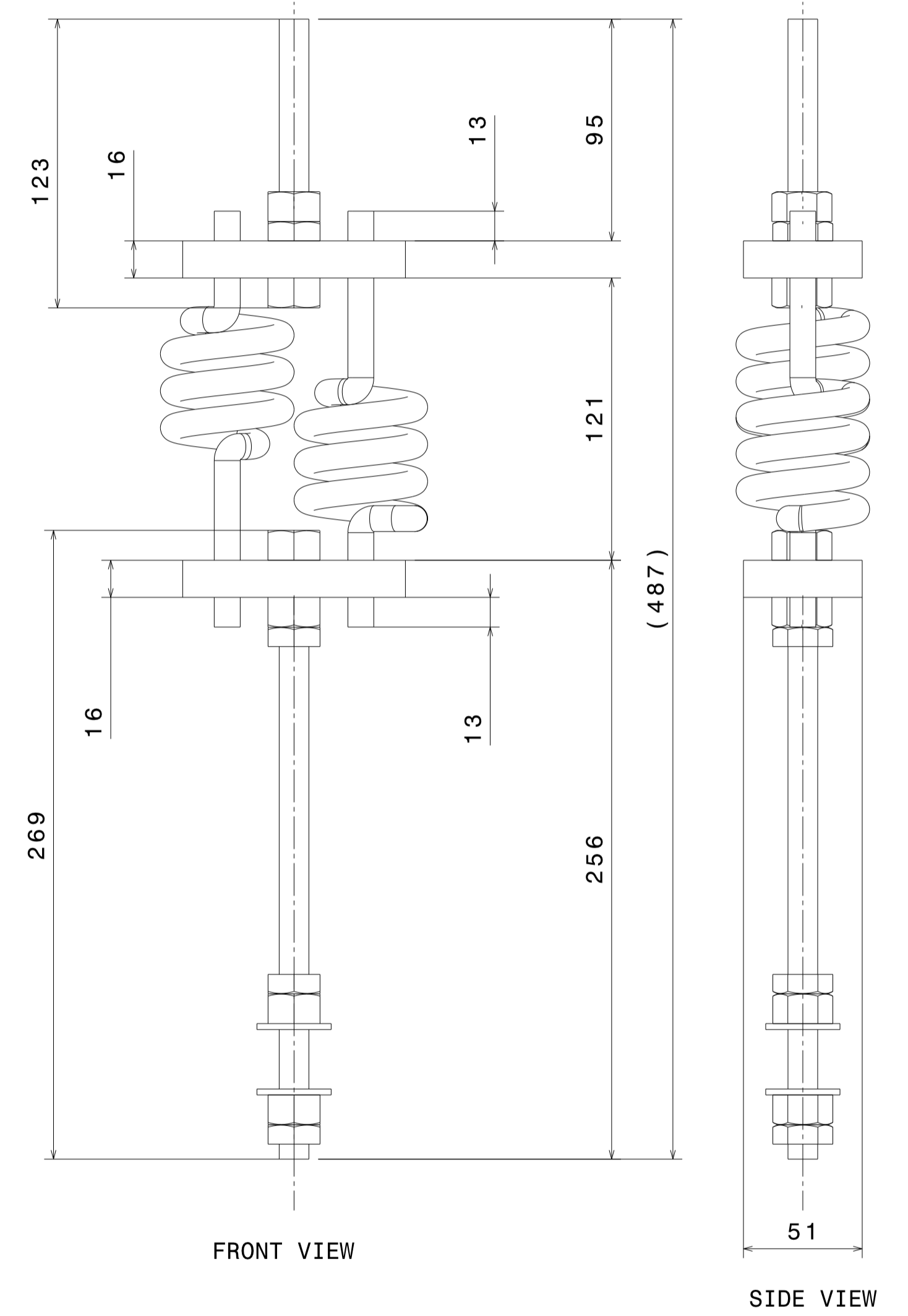


FRONT VIEW

SECTION B-B

① VERTICAL SPRING SUPPORT - 1

② VERTICAL SPRING SUPPORT - 2
SCALE - 1:1



FRONT VIEW

SIDE VIEW

ASSY DIMENSIONS OF SPRING 1 AND 2
SCALE - 1:2

MATERIAL:		▽ 8-25	▽▽ 1.6-8	▽▽▽ 0.025-1.6	▽▽▽▽ < 0.025	REVISION COLUMN				MED	SIZE A1	INSTITUTE FOR PLASMA RESEARCH (LIGO-INDIA) BHAT, GANDHINAGAR-382 428.			
CO-ORDINATED BY						REV	ZONE	DESCRIPTION	DATE	REMARKS	APPROVED BY	ALL DIMENSIONS ARE IN 'mm' UNLESS OTHERWISE STATED			
MACHINING DEVIATIONS FOR NON-TOLERANCED DIMENSIONS												SCALE	AS NOTED	DATE	TITLE
LENGTH IN mm OF SHORTER SIDE OF ANGLES					LENGTH OR DIA	UPTO 6	6-30	30-120	120-315			DRAWN	S.P.P.	04/07/2015	RESERVOIR SUPPORT ASSEMBLY-2
UPTO 10	10-50	50-120	OVER 120-400			±0.1	±0.2	±0.3	±0.5			CHECKED	R.K.	REF DRG NO: VCP01-001-R1	REV R1
+1'	+0'-30'	+0'-20'	+0'-10'									APPROVED	M.K.G.	DRG. NO VCP01-007-R1	SHEET 02 OF 02