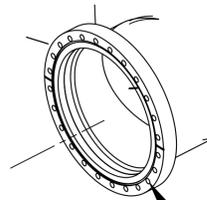
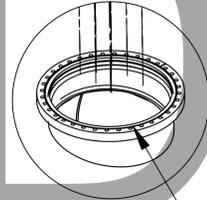


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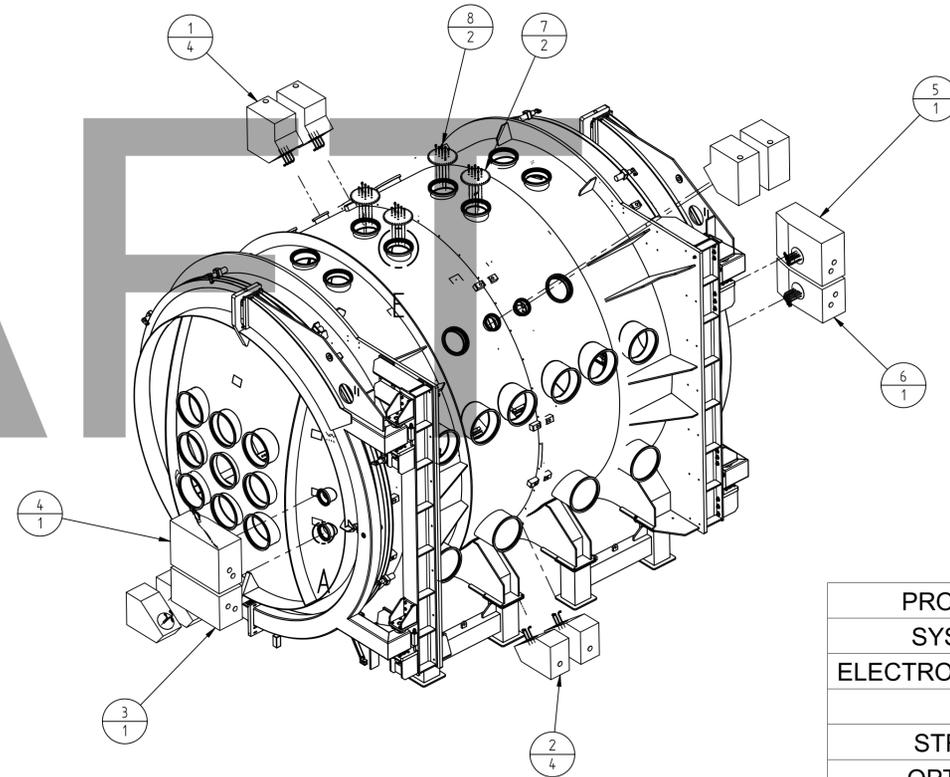
DETAIL A
1:5

MATING FLANGE:
10" CONFLAT
TYP FOR ALL VALVE BOXES



DETAIL E
1:10

MATING FLANGE:
16.5" CONFLAT
TYP FOR ALL EXHAUST FEED THROUGHS



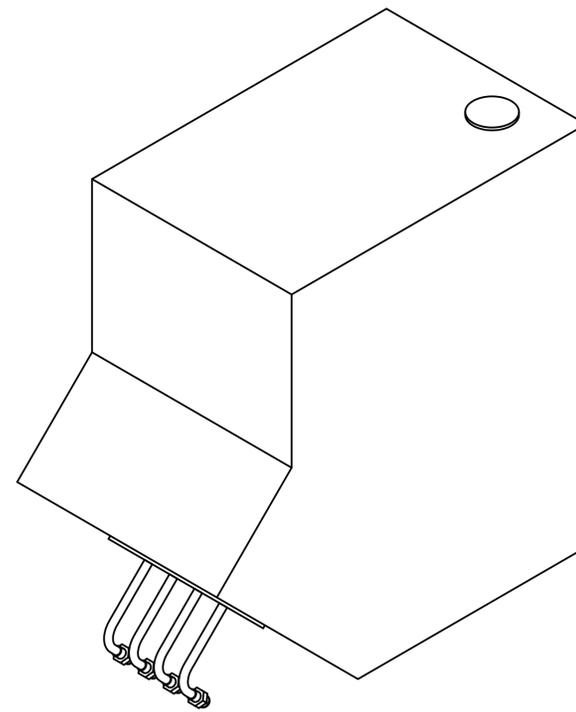
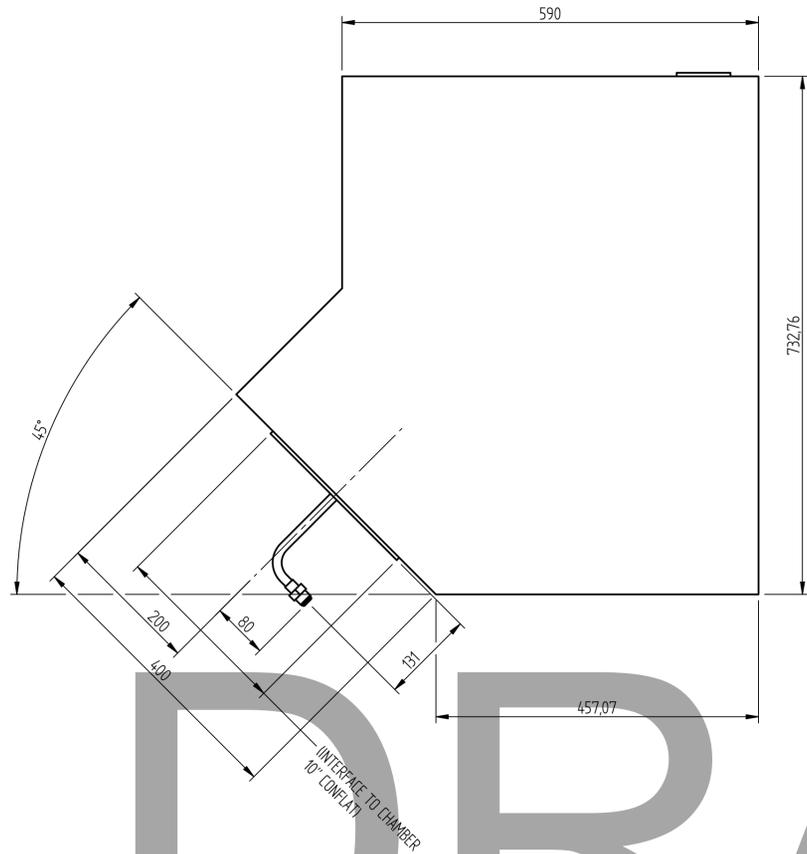
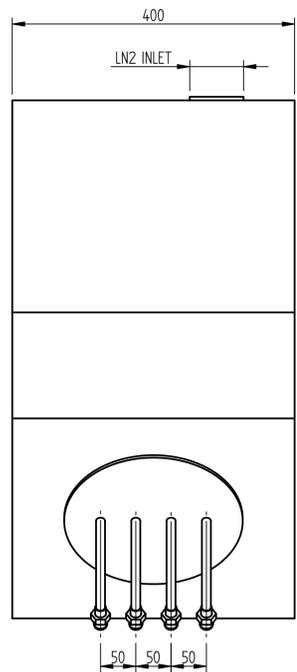
Item Number	Drawing Number	Title	Quantity
1	KE-0288-810	BODY VALVE BOX UPPER	4
2	KE-0288-820	BODY VALVE BOX LOWER	4
3	KE-0288-840	LOADING (WHITE) END DOOR VALVE BOX LOWER	1
4	KE-0288-830	LOADING (WHITE) END DOOR VALVE BOX UPPER	1
5	KE-0288-850	OGSE (DARK) END DOOR VALVE BOX UPPER	1
6	KE-0288-860	OGSE (DARK) END DOOR VALVE BOX LOWER	1
7	KE-0266-1115	EXHAUST FEED THROUGH ASSY	2
8	KE-0266-1150	EXHAUST FEED THROUGH ASSY 2	2

PROJECT MANAGER	
SYSTEM ENGINEER	
ELECTRONICS ENGINEER	
PA GROUP	
STRESS ENGINEER	
OPTICAL ENGINEER	
THERMAL ENGINEER	
MECHANICAL ENGINEER	
AIV GROUP	

NOTES;

- SUPPLY OF 12 OFF VALVE BOXES:
 - REFER TO DOC-XXX-YYY FOR DETAILS.
 - SHEETS 2, 3 AND 4 SHOW MAXIMUM ALLOWABLE VOLUME FOR EACH VALVE BOX. ANY GEOMETRY OUTSIDE OF THIS VOLUME MUST BE APPROVED BY RAL BEFORE MANUFACTURE.
 - A LOW VOLUME, LOW MASS DESIGN IS PREFERABLE - THE ALLOWABLE VOLUME DOES NOT NEED TO BE COMPLETELY USED.
- SUPPLY OF SIVL:
 - REFER TO DOC-XXX-YYY FOR DETAILS.
 - SHEETS 5 AND 6 SHOW RECOMMENDED ROUTES FOR LINES.
 - SEE NOTES ON SHEET 5 FOR DETAILS

A	19/05/2017	---	T.BROOKE			MANUFACTURE ONLY WHEN STATUS IS RELEASED	RELEASED
ISSUE	DATE	MOD. No.	DRAWN BY	CHKD BY	APPD BY	STATUS	
					TOLERANCES UNLESS STATED LINEAR ± - ANGULAR ± -		SURFACE TEXTURE
DRAWING CONFORMS TO BS 8888 TOLERANCING ISO 8015			MATERIAL & SPEC.		MASS 663.168 kg		FINISH REMOVE ALL BURRS
DIMENSIONS IN mm UNLESS STATED							
RAL SPACE		USED ON		KE-0288-010			
HARWELL SCIENCE & INNOVATION CAMPUS, RUTHERFORD APPLETON LABORATORY, CHILTON, OXON, OX11 0QX							
VALVE BOX AND SIVL INTERFACE							
STC-3						R100	
A1 KE-0288-108						SHEET 1 of 6	

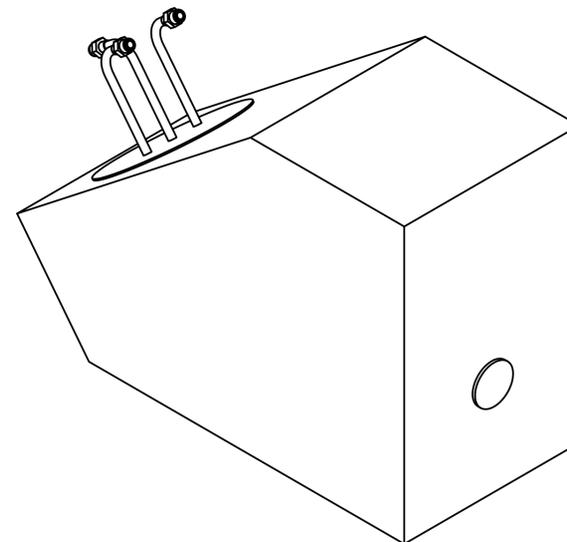
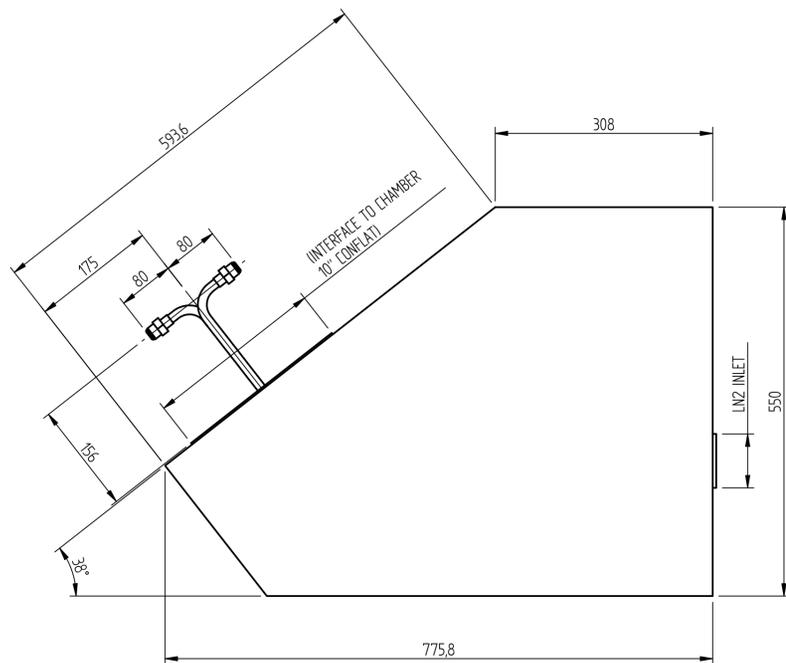
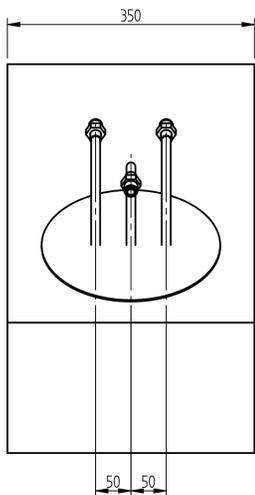


KE-0288-810
15

KE-0288-810 - BODY VALVE BOX UPPER

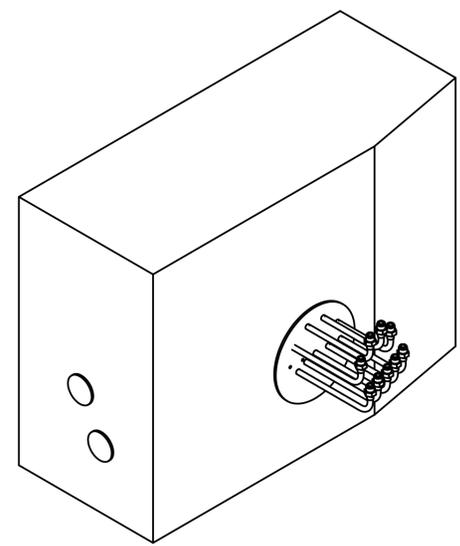
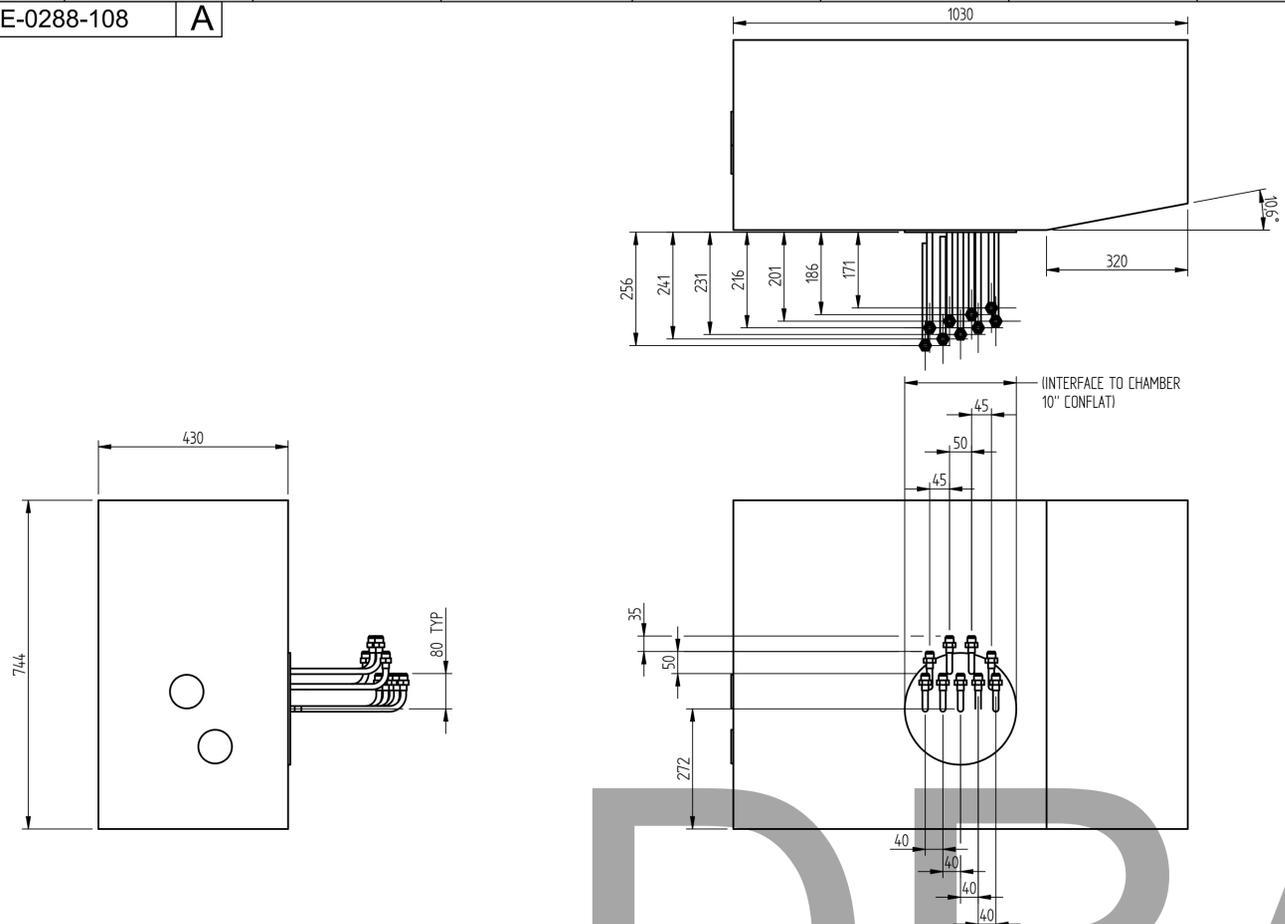
KE-0288-820 - BODY VALVE BOX LOWER

DRAFT



KE-0288-820
15

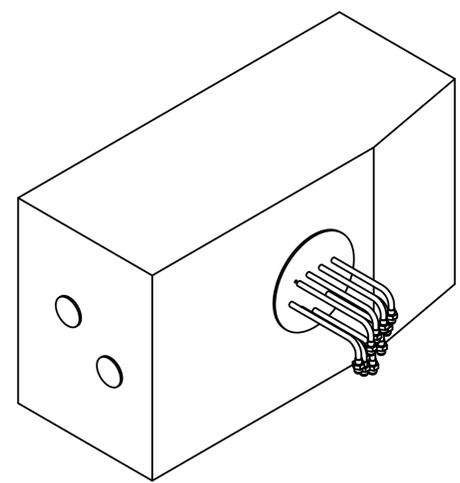
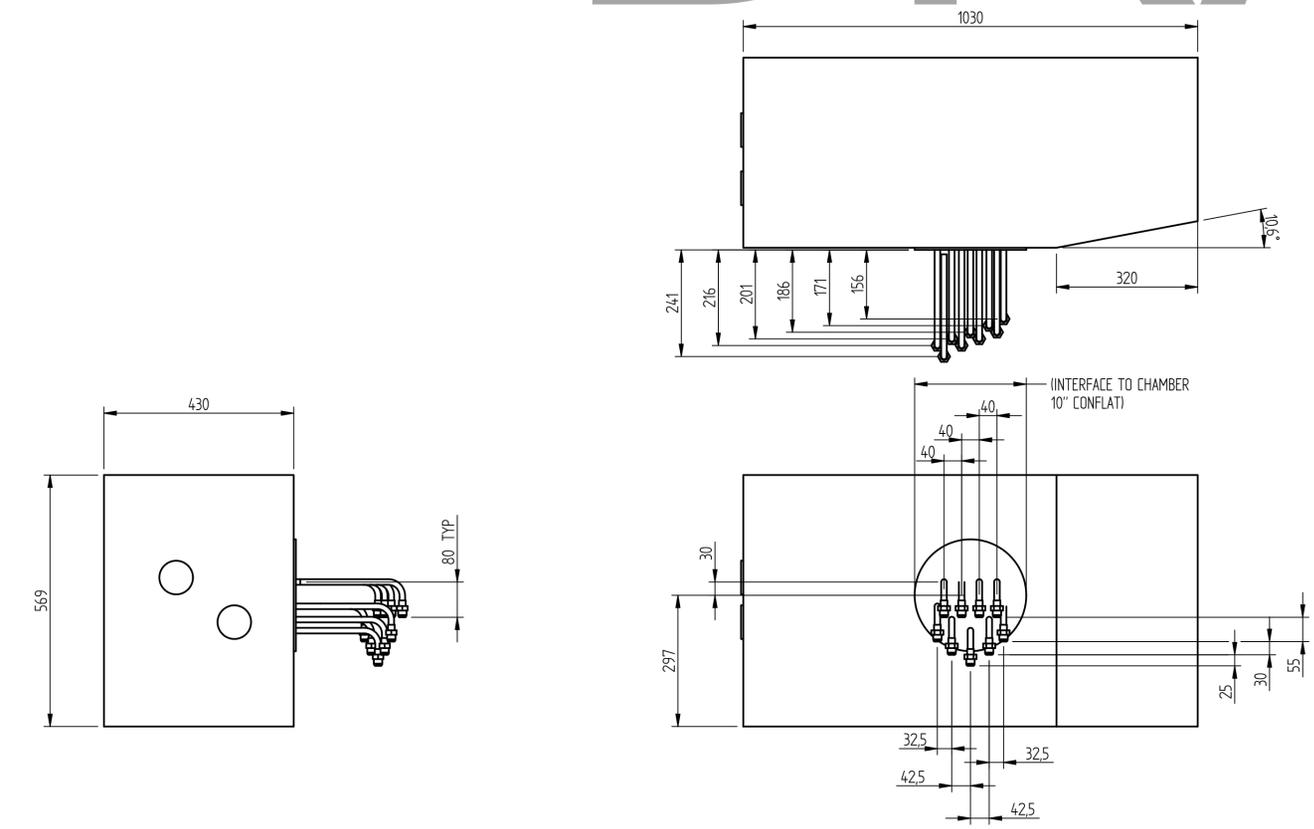
A	19/05/2017	...	T.BROOKE			MANUFACTURE ONLY WHEN STATUS IS RELEASED	RELEASED
ISSUE	DATE	MOD. No.	DRAWN BY	CHKD BY	APPD BY	RELEASED	STATUS
DRAUGHTING CONFORMS TO BS 8888 TOLERANCING ISO 8015			TOLERANCES UNLESS STATED LINEAR ± - ANGULAR ± -		SURFACE TEXTURE √ μm		
DIMENSIONS IN mm UNLESS STATED			MATERIAL & SPEC. MASS 663.168 kg		FINISH REMOVE ALL BURRS		
RAL SPACE		USED ON KE-0288-010					
HARWELL SCIENCE & INNOVATION CAMPUS, RUTHERFORD APPLETON LABORATORY, CHILTON, OXON, OX11 0QX							
VALVE BOX AND SIVL INTERFACE							
STC-3						R100	
A1	KE-0288-108					SHEET	2 of 6
							A



KE-0288-830
1:8

KE-0288-830 - LOADING (WHITE) END DOOR VALVE BOX UPPER

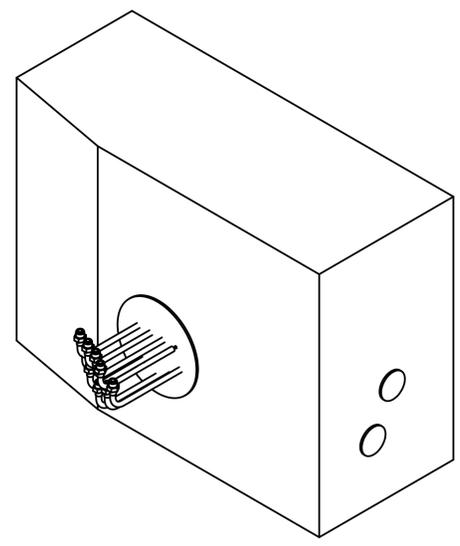
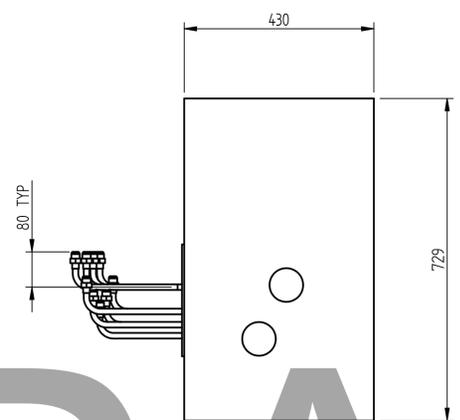
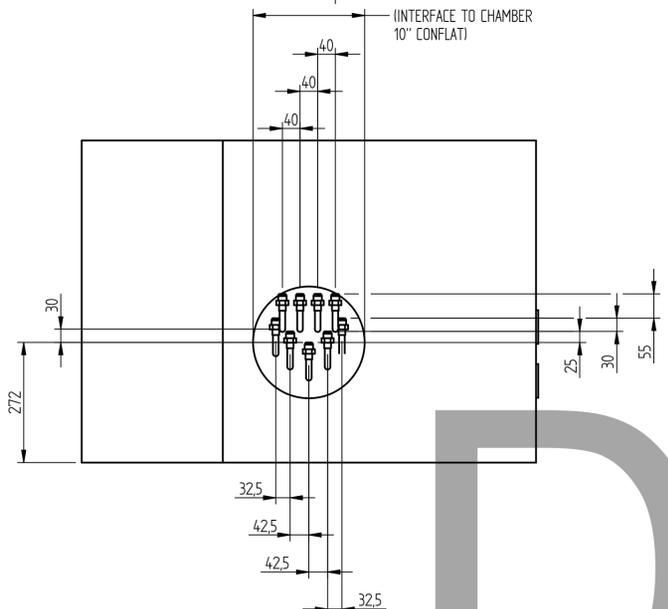
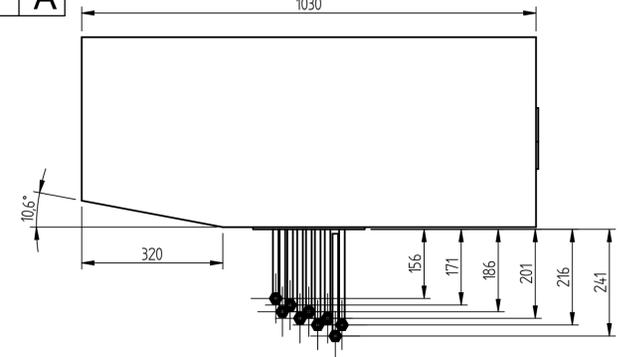
KE-0288-840 - LOADING (WHITE) END DOOR VALVE BOX LOWER



KE-0288-840
1:8

A	19/05/2017	...	T.BROOKE			MANUFACTURE ONLY WHEN STATUS IS RELEASED	RELEASED
ISSUE	DATE	MOD. No.	DRAWN BY	CHKD BY	APPD BY		STATUS
			TOLERANCES UNLESS STATED			SURFACE TEXTURE	
DRAWING CONFORMS TO BS 8888 TOLERANCING ISO 8015			MATERIAL & SPEC. MASS 663.168 kg			FINISH	
DIMENSIONS IN mm UNLESS STATED						REMOVE ALL BURRS	
RAL SPACE		USED ON KE-0288-010					
HARWELL SCIENCE & INNOVATION CAMPUS, RUTHERFORD APPLETON LABORATORY, CHILTON, OXON, OX11 0QX							
VALVE BOX AND SIVL INTERFACE							
STC-3						R100	
A1 KE-0288-108						SHEET 3 of 6 A	

A1 KE-0288-108 A

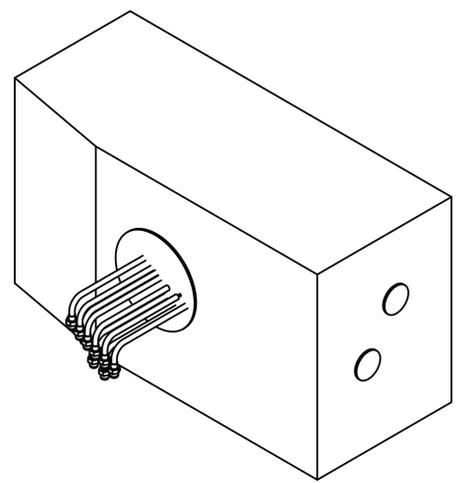
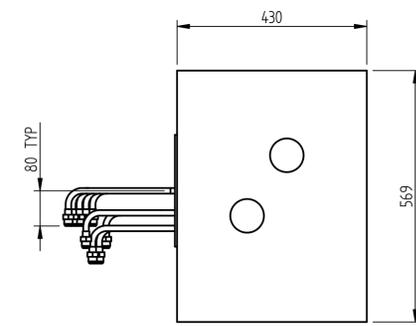
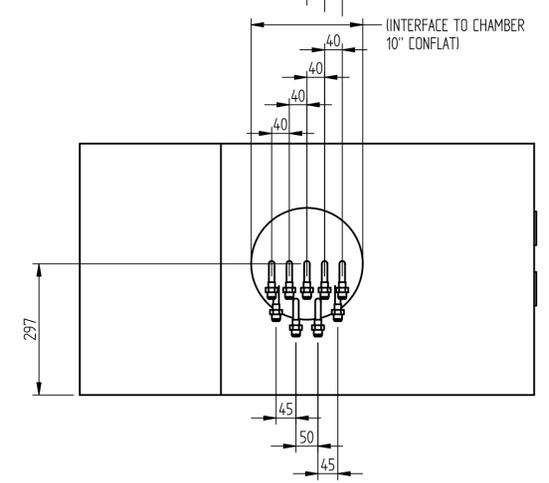
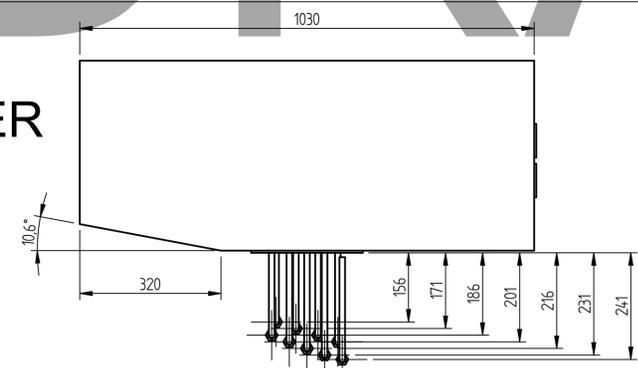


KE-0288-850
1:8

KE-0288-850 - OGSE (DARK) END DOOR VALVE BOX UPPER

DRAFT

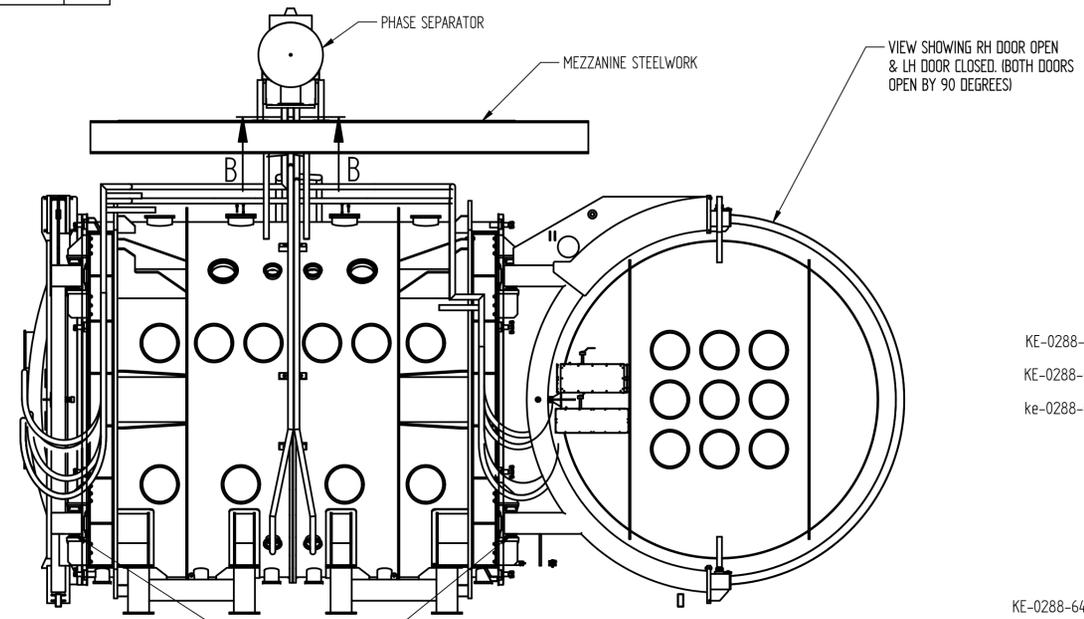
KE-0288-860 - OGSE (DARK)
END DOOR VALVE BOX LOWER



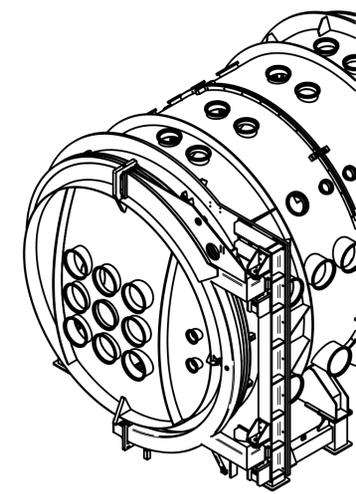
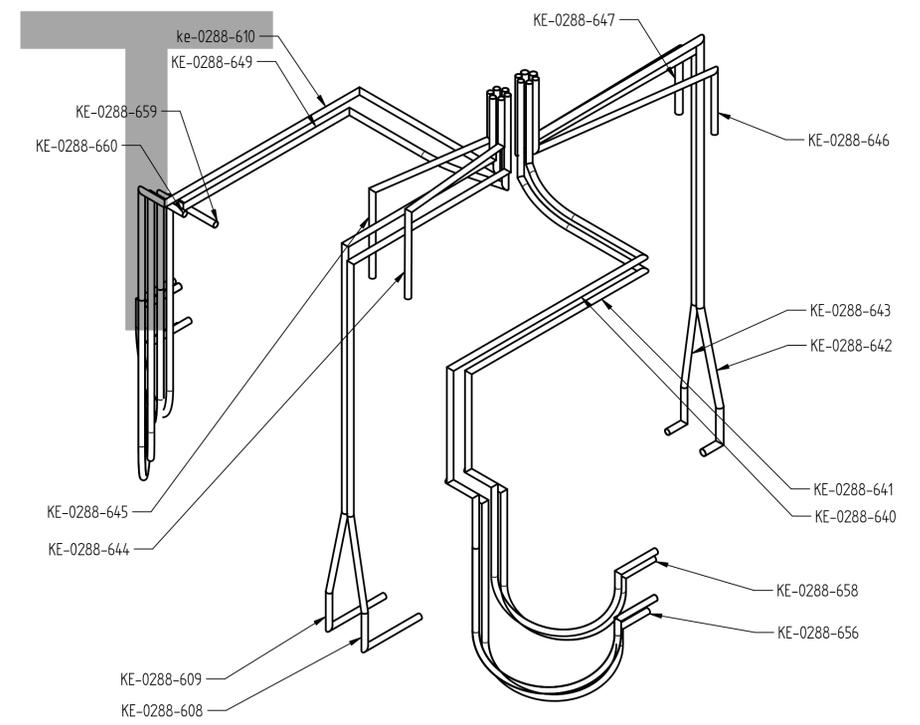
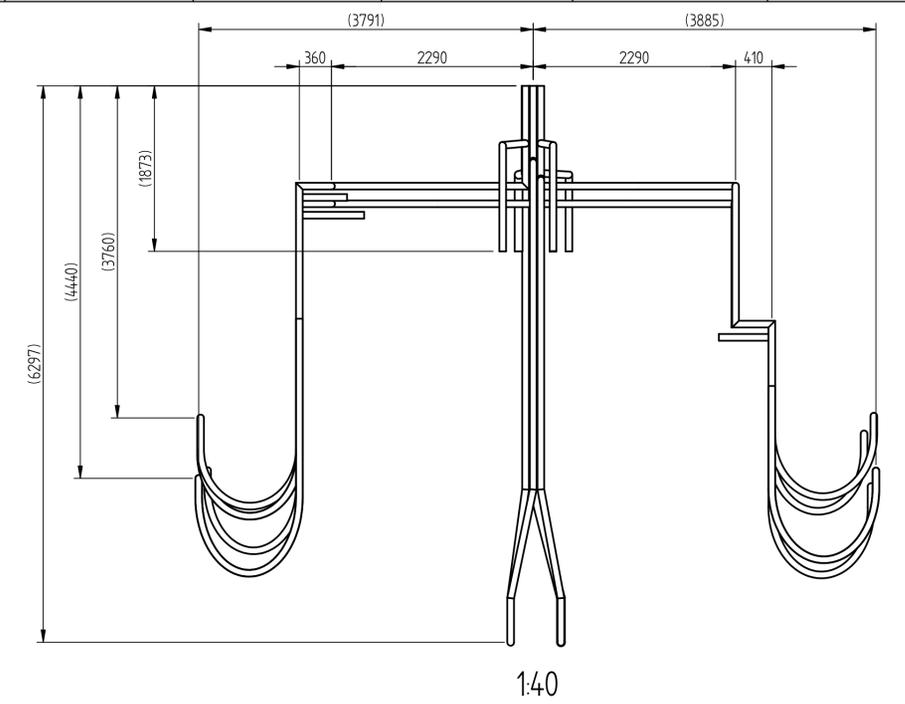
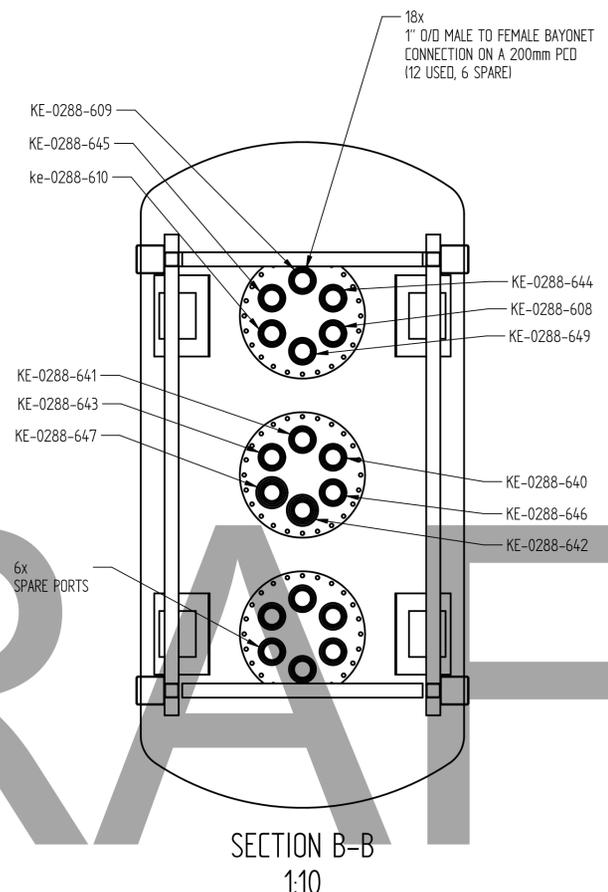
KE-0288-860
1:8

A	19/05/2017	...	T.BROOKE			MANUFACTURE ONLY WHEN STATUS IS RELEASED	RELEASED
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DIMENSIONS IN mm UNLESS STATED						REMOVE ALL BURRS	
RAL SPACE		USED ON KE-0288-010					
HARWELL SCIENCE & INNOVATION CAMPUS, RUTHERFORD APPLETON LABORATORY, CHILTON, OXON, OX11 0QX							
VALVE BOX AND SIVL INTERFACE							
STC-3						R100	
A1	KE-0288-108					SHEET	4 of 6
						A	

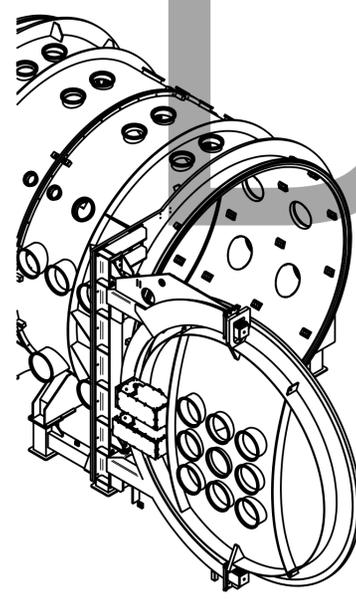
A1 KE-0288-108 A



DOOR HINGE POINTS (SAME SIDE OF CHAMBER - I.E. BOTH DOORS OPEN TO SAME SIDE)



CHAMBER DOOR CLOSED



CHAMBER DOOR OPEN

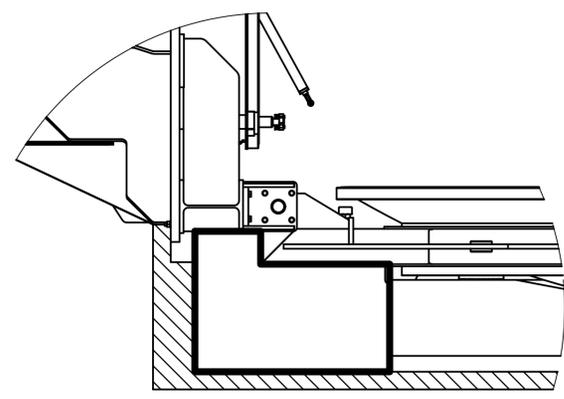
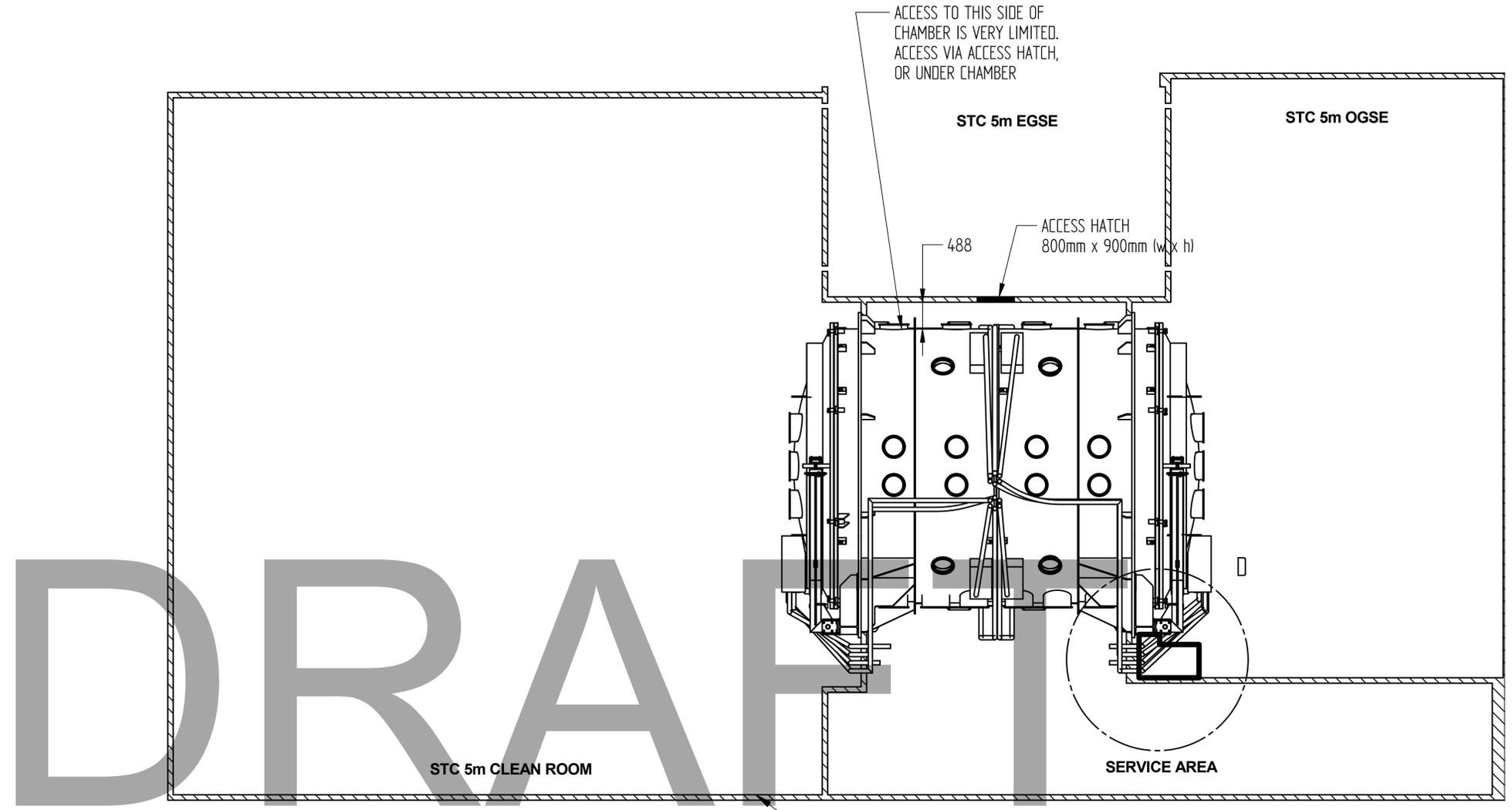
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A1 KE-0288-108 A

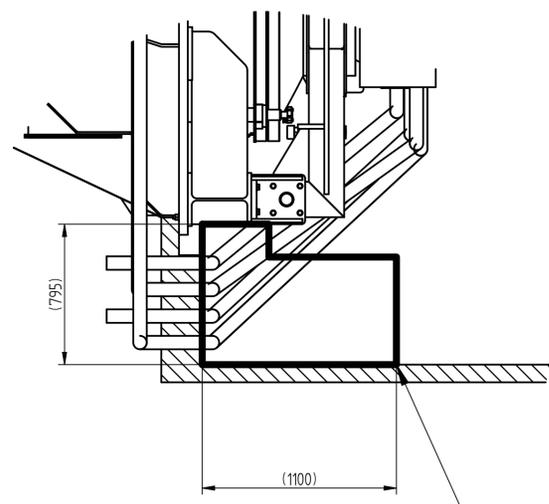
NOTES:

- 1) PIPEWORK SHOULD BE SUPER INSULATED VACUUM LINE - 1" INNER DIAMETER PIPE.
- 2) ASSEMBLY DRAWING IS ONLY A REPRESENTATION OF A SUGGESTED PIPING SOLUTION AND IS UP TO THE DISCRETION OF THE SUPPLIER AS TO WHETHER MODIFICATIONS AND/OR CHANGES ARE REQUIRED.
- 3) ANY DEVIATIONS FROM THIS ASSEMBLY DRAWING MUST BE AGREED BETWEEN RAL SPACE AND THE SUPPLIER.
- 4) PIPEWORK REQUIRES THE ADDITION OF VACUUM PORTS AT SUITABLE POSITIONS AS SUGGESTED BY THE SUPPLIER. POSITIONS TO BE ACCESSIBLE AND AGREED WITH RAL.
- 5) PIPEWORK WILL REQUIRE A METHOD OF 'HANGING' FROM THE STEELWORK BELOW THE MEZZANINE FLOOR. (TO BE DESIGNED AND SUPPLIED BY SIVL SUPPLIER).
- 6) DIMENSIONS SHOWN ON THIS DRAWING ARE APPROXIMATE. MEASUREMENTS SHOULD BE CHECKED ON-SITE PRIOR TO MANUFACTURE.
- 7) INDIVIDUAL DRAWINGS (AND 3D FILES) OF EACH PIPE SHOWN ON THIS SCHEME ARE AVAILABLE IF REQUIRED.
- 8) DOORS OPEN AT BOTH ENDS OF CHAMBER THEREFORE SUITABLE FLEXIBLE PIPEWORK AND/OR ROTATING JOINTS ARE REQUIRED AT BOTH ENDS TO ALLOW OPERATION OF THE DOORS.

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DIMENSIONS IN mm UNLESS STATED						REMOVE ALL BURRS	
RAL SPACE		USED ON		KE-0288-010			
HARWELL SCIENCE & INNOVATION CAMPUS, RUTHERFORD APPLETON LABORATORY, CHILTON, OXON, OX11 0QX							
VALVE BOX AND SIVL INTERFACE							
STC-3						R100	
A1 KE-0288-108						SHEET 5 of 6	



DETAIL C
(OPEN DOOR)



DETAIL D
(CLOSED DOOR)

AVAILABLE SPACE ENVELOPE
FOR SIVL PIPEWORK AND ROTATING
BAYONET ASSEMBLY.
(TYPICAL BOTH DOORS).

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DIMENSIONS IN mm UNLESS STATED			FINISH REMOVE ALL BURRS				
RAL SPACE		USED ON KE-0288-010					
HARWELL SCIENCE & INNOVATION CAMPUS, RUTHERFORD APPLETON LABORATORY, CHILTON, OXON, OX11 0QX							
VALVE BOX AND SIVL INTERFACE							
STC-3						R100	
A1 KE-0288-108						SHEET 6 of 6 A	