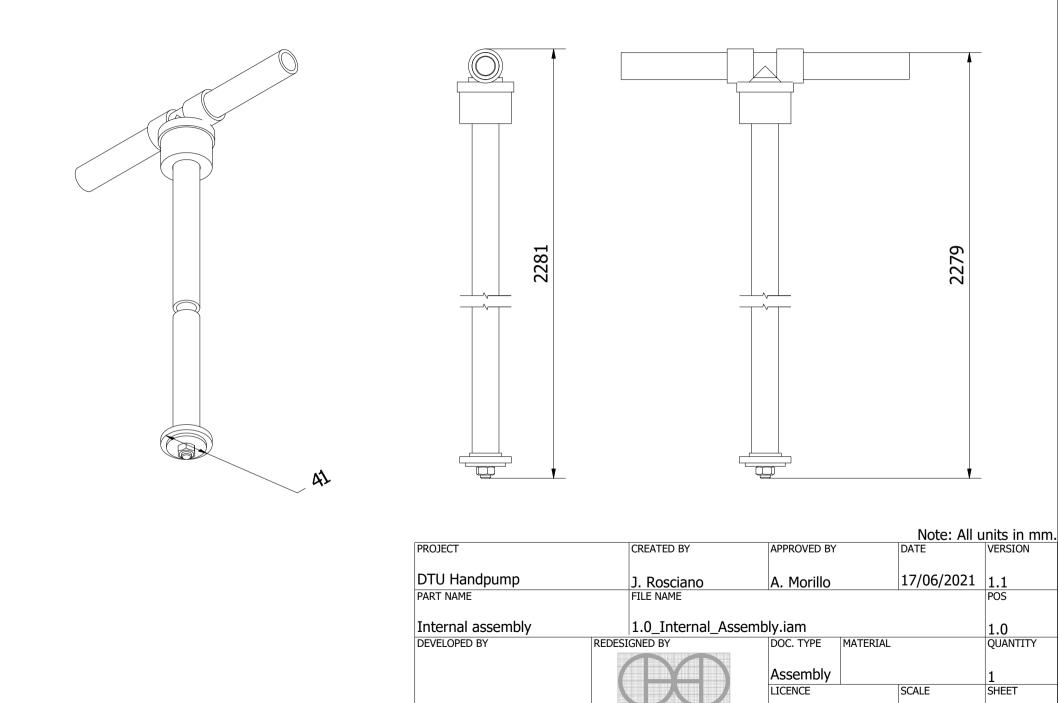


			Parts list			
POS	QTY	PART NAME	FILE NAME	PART TYPE	SPECIFICATIONS	SHEET
A1	1	3d views	uwd_dhp_dtu-handpump.iam	Assembly		1
A2	1	Exploded 3d view	uwd_dhp_dtu-handpump.ipn	Assembly		2
B1	1	Parts list	uwd_dhp_dtu-handpump.csv	Assembly		3
C1	1	Technical notes		Assembly		4
1.0	1	Internal assembly	1.0_Internal_Assembly.iam	Assembly		5-6
1.1	1	Tee	1.1_Tee.ipt	Standard	1/2" PVC	
1.2	2	Handles	1.2_Handles.ipt	Production	1/2" PVC Pipe x 4" long	7
1.3	1	Pull rod bush	1.3_Pull_Rod_Bush.ipt	Production	Hardwood	8
1.4	1	Pull rod	1.4_Pull_Rod.ipt	Production	1/2" PVC Pipe	9
1.5	1	Piston screw	1.5_Piston_Screw.ipt	Standard	3/8" BSW x 3/4"	
1.6	1	Washer 1	1.6_Washer_1.ipt	Production	OD 1" ID 3/8"	10
1.7	1	Piston	1.7_Piston.ipt	Standard	Leather	
1.8	1	Washer 2	1.8_Washer_2.ipt	Production	OD 1 1/4" ID 3/8" inside	11
1.9	1	Nut	1.9_Nut.ipt	Standard	3/8" BSW	
2.0	1	External assembly	2.0_External_Assembly.iam	Assembly		12-13
2.1	1	Top tube	2.1_Top_Tube.ipt	Production	OD 1 1/2" PVC x 8"	14
2.2	1	Tee 2	2.2_Tee_2.ipt	Standard	1 1/2" PVC	
2.3	1	Outlet	2.3_Outlet.ipt	Production	OD 1 1/2" PVC x 8" long	15
2.4	1	Rising main	2.4_Rising_Main.ipt	Production	1 1/2" PVC x 86" long	16
3.0	1	Valve	3.0_Valve.iam	Assembly		17-18
3.1	1	Piece of wood	3.1_Piece_Of_Wood.ipt	Production	Hardwood	19
3.2	1	Rubber strip	3.2_Rubber_Strip.ipt	Buy	Rubber	
3.3	1	Peforated tube	3.3_Peforated_Tube.ipt	Production	OD 3/4" PVC x 8"	20
3.4	1	Bicycle tube	3.4_Bicycle_Tube.ipt	Production	OD 33.7 ASTM A36	21
3.5	1	Rubber	3.5_Rubber.ipt	Production	Rubber	22
3.6	1	Screw.ipt	3.6_Screw.ipt	Standard	ISO 14586 ST2.9x6.5	
4.0	1	Concrete support	4.0_Concrete_Support.ipt	Production	Concrete	23

PROJECT	CREATED	BY	APPROVED BY		DATE	VERSION
DTU Handpump Part NAME	J. Rosc FILE NAMI		A. Morillo		17/06/2021	1.1 POS
Parts list DEVELOPED BY	REDESIGNED BY		DOC. TYPE	MATERIAL		B1 QUANTITY
			Parts list		SCALE	SHEET
		CC-BY-SA 4.0		JUNEL	3 /23	

	TECHNICL NOTES
NOTES	CONTENT
GENERAL NOTES	
	- The ground must be stable and have a low water table.
Foundations fixing	- The structure must be fixed on firm oncrete soil or on poured footings with steel reinforcement.
_	- The anchorage can be bolted with expansive ramplugs or welded.
	- The wood must be treated with pesticides and kiln-dried to ensure adequate humidity.
Wood treatment	- Wood sealer should be applied for later use.

PROJECT	CREATED BY	APPROVED BY	DATE	VERSION
DTU Handpump PART NAME	J. Rosciano FILE NAME	A. Morillo	17/06/2021	1.1 POS
Technical notes DEVELOPED BY	REDESIGNED BY	DOC. TYPE MATERIAL		C1 QUANTITY
		ICENCE	SCALE	SHEET
University of Warwick, DT	CC-BY-SA 4.0		4 /23	

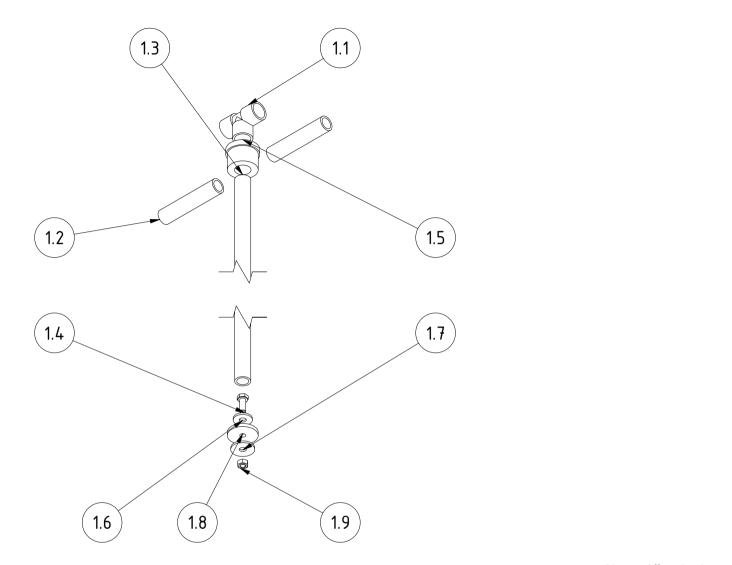


University of Warwick, DTUOHO e.V.

5 /23

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CC-BY-SA 4.0

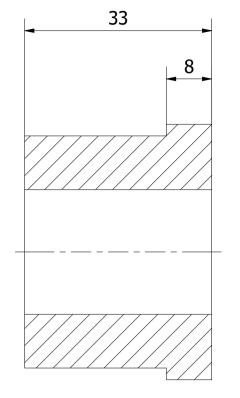


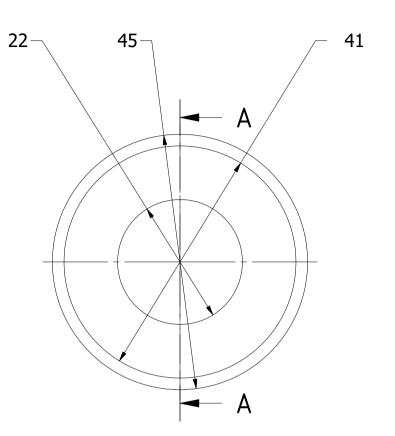
				NOLE. All L	
PROJECT	CREATED BY	APPROVED BY		DATE	VERSION
DTU Handpump	J. Rosciano	A. Morillo		17/06/2021	1.1
PART NAME	FILE NAME	FILE NAME			POS
Internal assembly	1.0_Internal_Assem	1.0_Internal_Assembly.ipn			1.0
DEVELOPED BY	REDESIGNED BY	DOC. TYPE	MATERIAL		QUANTITY
		Assembly			1
		LICENCE		SCALE	SHEET
University of Warwick, DTL	OHO e.V.	CC-BY-SA 4	4.0	1/5	6 /23



Note: A	ll units	in	mm.

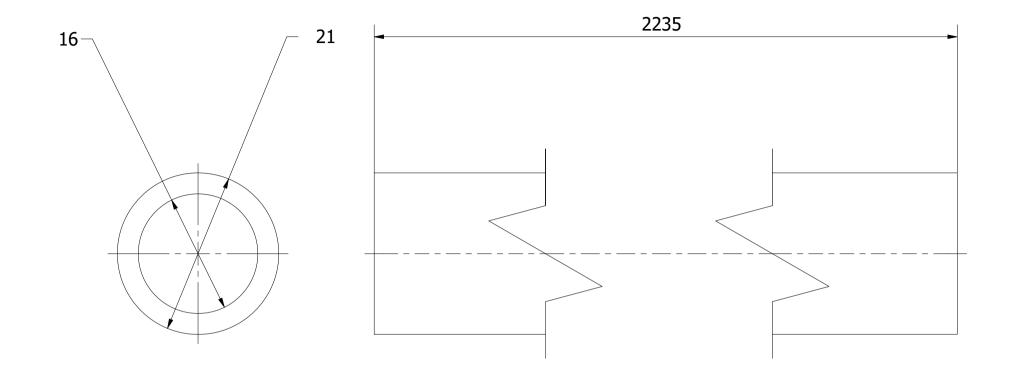
PROJECT		CREATED BY	APPROVED BY	(DATE	VERSION
DTU Handpump		J. Rosciano	A. Morillo		17/06/2021	1.1
PART NAME		FILE NAME				POS
Handles		1.2_Handles.ipt				1.2
DEVELOPED BY	DEVELOPED BY REDESI		DOC. TYPE	MATERIAL		QUANTITY
			Part	PVC		2
			LICENCE		SCALE	SHEET
University of Warwick,	DTUOHO	e.V.	CC-BY-SA	4.0	1.5/1	7 /23



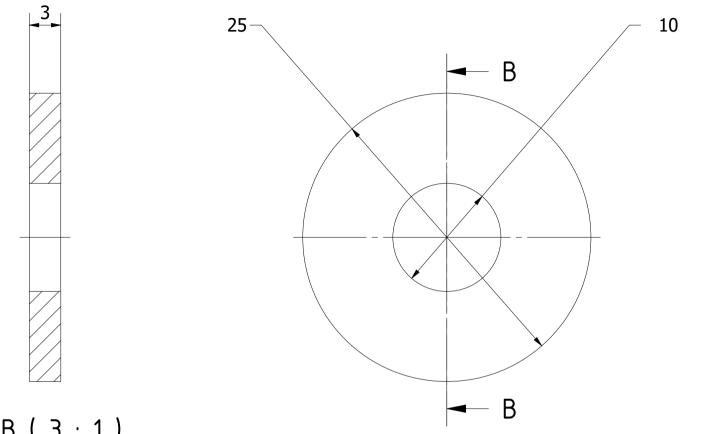


A-A (1.5/1)

PROJECT		CREATED BY	APPROVED B	(DATE	VERSION
DTU Handpump		J. Rosciano	A. Morillo		17/06/2021	1.1
PART NAME		FILE NAME				POS
Pull rod bush		I.3_Pull_Rod_Bush.ipt				1.3
DEVELOPED BY	REDESI	GNED BY	DOC. TYPE	MATERIAL		QUANTITY
			Part	Hardwoo	bd	1
			LICENCE		SCALE	SHEET
University of Warwick	, DTUOHO	e.V.	CC-BY-SA	4.0	1.5/1	8 /23

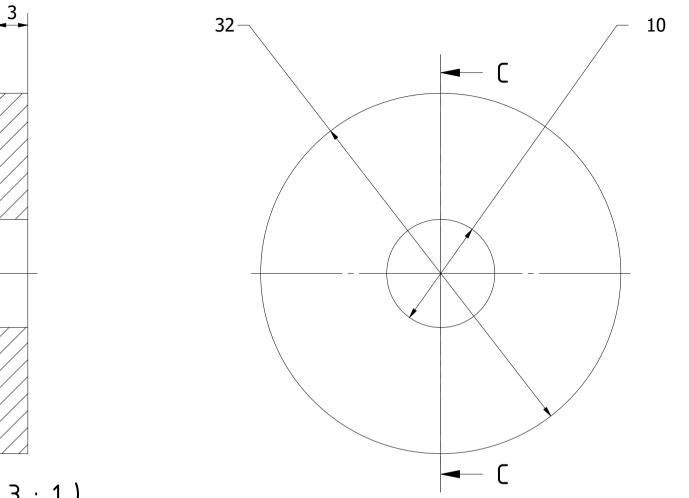


PROJECT		CREATED BY	APPROVED BY	,	DATE	VERSION
DTU Handpump		J. Rosciano	A. Morillo		17/06/2021	1.1
PART NAME		FILE NAME				POS
Pull rod		1.4_Pull_Rod.ipt				1.4
DEVELOPED BY	REDESI	IGNED BY	DOC. TYPE	MATERIAL		QUANTITY
	1		Part	PVC		1
			LICENCE		SCALE	SHEET
University of Warwick, D	отионо	e.V.	CC-BY-SA	4.0	2/1	9 /23



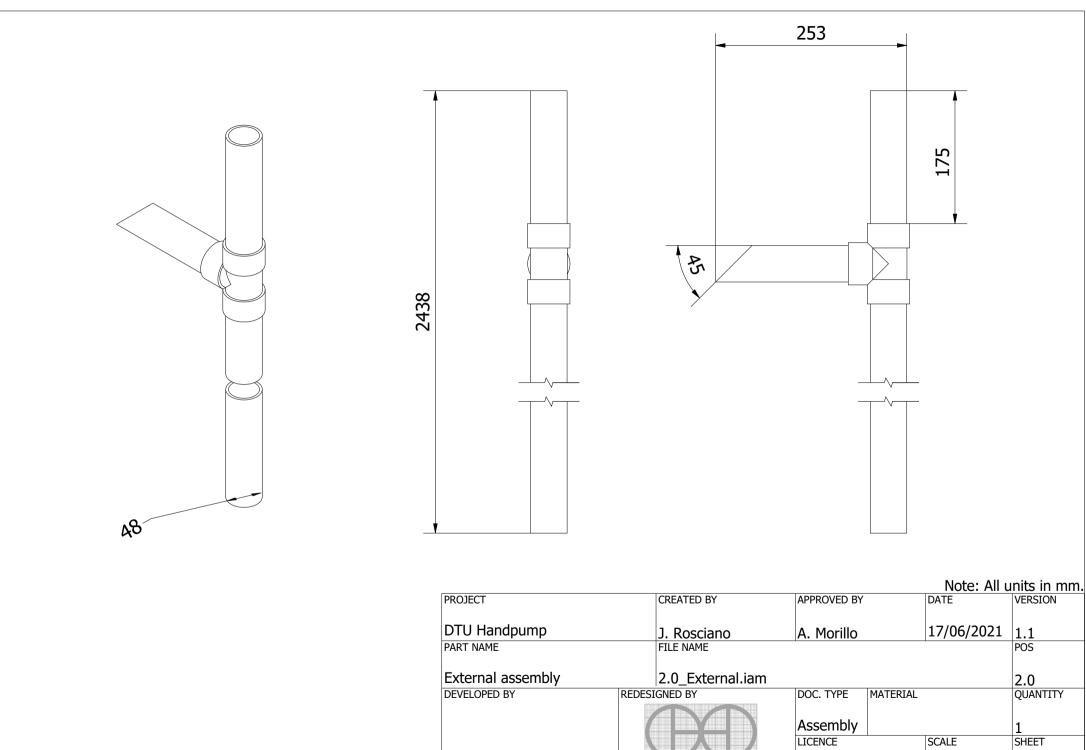
B-B (3:1)

PROJECT	CREATED BY	APPROVED BY		DATE	VERSION
DTU Handpump	J. Rosciano	A. Morillo		17/06/2021	1.1
PART NAME	FILE NAME				POS
Washer 1	1.6_Washer.ipt				1.6
DEVELOPED BY R	EDESIGNED BY	DOC. TYPE	MATERIAL		QUANTITY
		Part	PVC		1
		LICENCE		SCALE	SHEET
University of Warwick, DTUC	HO e.V.	CC-BY-SA	4.0	3/1	10 /23



C-C(3:1)

PROJECT	CREATED BY	APPROVED B	v	DATE	VERSION
PROJECT	CREATED DI	APPROVED D	APPROVED DI		VERSION
DTU Handpump	J. Rosciano	A. Morillo		17/06/2021	1.1
PART NAME	FILE NAME				POS
Washer 2	1.8_Washer.ipt				1.8
DEVELOPED BY	REDESIGNED BY	GNED BY DOC. TYPE MATERIAL			QUANTITY
		Part	PVC		1
		LICENCE	1	SCALE	SHEET
University of Warwick,	, DTUOHO e.V.	CC-BY-SA	4.0	3/1	11 /23

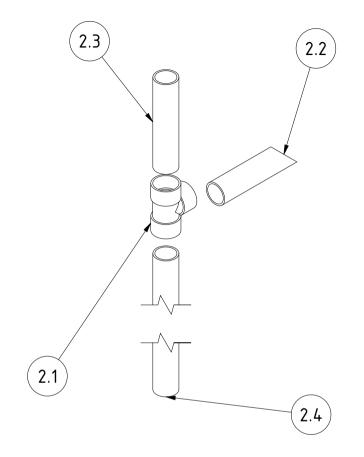


University of Warwick, DTUOHO e.V.

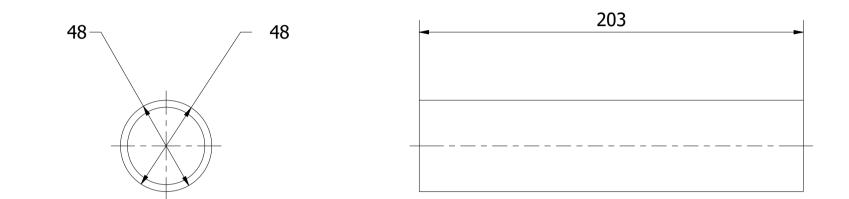
1/5

CC-BY-SA 4.0

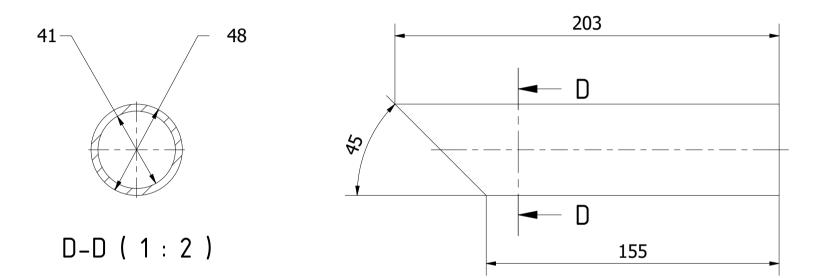
12 /23



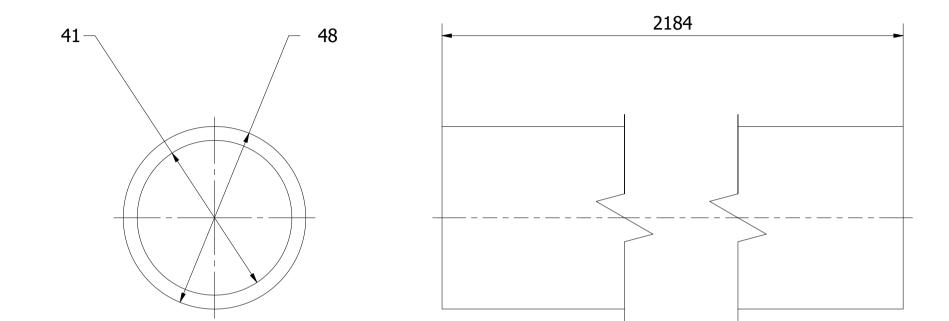
PROJECT		CREATED BY	APPROVED BY		DATE	VERSION
DTU Handpump		J. Rosciano	A. Morillo		17/06/2021	1.1
PART NAME		FILE NAME				POS
External assembly		2.0_External.ipn				2.0
DEVELOPED BY	REDESI	GNED BY	DOC. TYPE	MATERIAL		QUANTITY
	1		Assembly			1
			LICENCE		SCALE	SHEET
University of Warwick, DTL	оно	e.V.	CC-BY-SA	4.0	1/7	13 /23



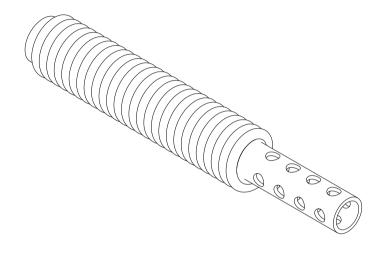
PROJECT	CREATED BY	APPROVED BY	r.	DATE	VERSION
DTU Handpump	J. Rosciano	A. Morillo		17/06/2021	1.1
PART NAME	FILE NAME				POS
Top tube	2.1_Top_Tube.ipt	2.1_Top_Tube.ipt			2.1
DEVELOPED BY REDI	SIGNED BY	DOC. TYPE	MATERIAL		QUANTITY
		Part	PVC		1
		LICENCE		SCALE	SHEET
University of Warwick, DTUOH	D e.V.	CC-BY-SA	4.0	2/1	14 /23

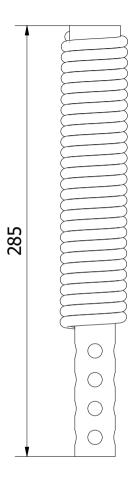


PROJECT	CREATED BY	APPROVED B	APPROVED BY		VERSION
5				/ /	
DTU Handpump	J. Rosciano	A. Morillo		17/06/2021	1.1
PART NAME	FILE NAME				POS
					105
Outlet	2.3_Outlet.ipt				2.3
	EDESIGNED BY	DOC. TYPE	MATERIAL		QUANTITY
DEVELOPED BI	EDESIGNED BY	DUC. THE	MATERIAL		QUANTIT
		Dart	PVC		1
		Part	PVC		1
		LICENCE		SCALE	SHEET
University of Warwick, DTU		CC-BY-SA	10	1/2	15 /23
or warmers, brot		UC-DI-SA	4.0	1/2	13/23



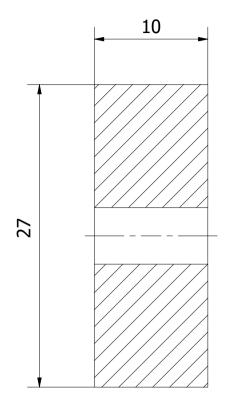
PROJECT	CREATED BY	APPROVED BY		DATE	VERSION
DTU Handpump	J. Rosciano	A. Morillo		17/06/2021	1.1
PART NAME	FILE NAME				POS
Rising main	2.4_Rising_Main.ipt				2.4
DEVELOPED BY	EDESIGNED BY	DOC. TYPE	MATERIAL		QUANTITY
		Part	PVC		1
		LICENCE	·	SCALE	SHEET
University of Warwick, DTUC	OHO e.V.	CC-BY-SA	4.0	1/1	16 /23

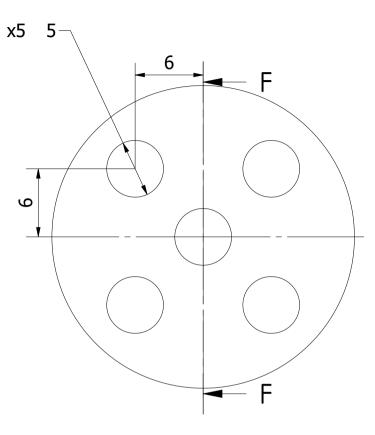




PROJECT		EATED BY	APPROVED BY	APPROVED BY		VERSION
DTU Handpump	J.	Rosciano	A. Morillo		17/06/2021	1.1
PART NAME	FIL	E NAME				POS
Valve	3.	0_Valve.iam				3.0
DEVELOPED BY	REDESIGN	ED BY	DOC. TYPE	MATERIAL		QUANTITY
			Assembly			1
			LICENCE	1	SCALE	SHEET
University of Warwick	, DTUOHO e.V	Ι.	CC-BY-SA	4.0	1/2	17 /23

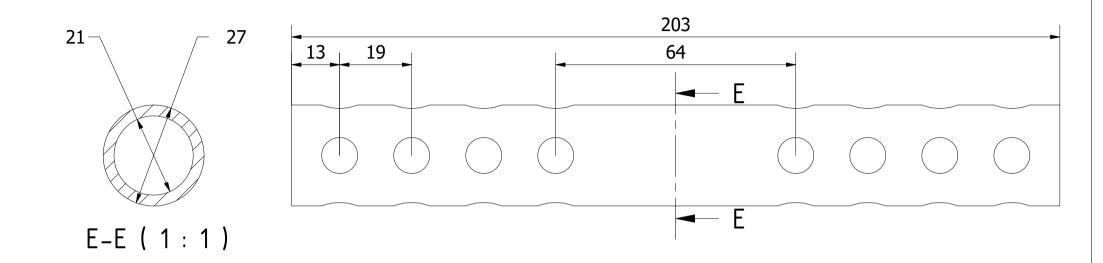
		CREATED BY	APPROVED BY		VERSION
	DTU Handpump PART NAME	J. Rosciano FILE NAME	A. Morillo	17/06/2021	1.1 POS
(3.4)		3.0_Valve.ipn			
	Valve DEVELOPED BY REDESI	GNED BY	DOC. TYPE MATERIAL		3.0 QUANTITY
		X)	Assembly LICENCE		1 SHEET
	University of Warwick, DTUOHO	e.V.	CC-BY-SA 4.0	1/3	18 /23



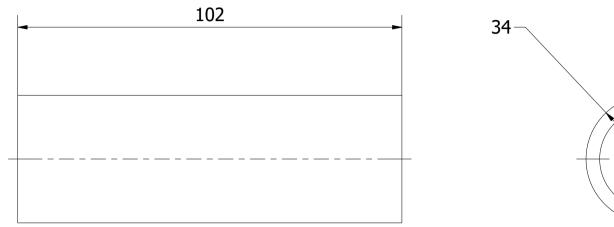


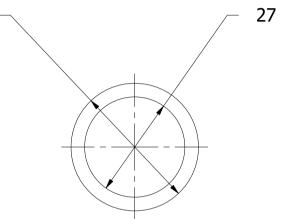
F-F (3/1)

					NOLE: AIL	
PROJECT	C	CREATED BY	APPROVED BY		DATE	VERSION
DTU Handpump	J	J. Rosciano	A. Morillo		17/06/2021	1.1
PART NAME	F	FILE NAME				POS
Piece of wood	3	3.1_Piece_Of_Wood	.ipt			3.1
DEVELOPED BY	REDESIG	INED BY	DOC. TYPE	TYPE MATERIAL		QUANTITY
			Part	Hardwoo	bd	1
			LICENCE	i la avoc	SCALE	SHEET
University of Warwick, DTUOHO e.V.			CC-BY-SA	4.0	1/1	19 /23

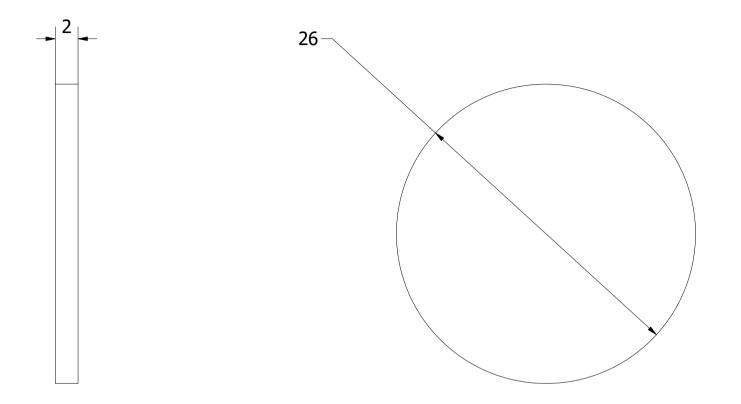


PROJECT		CREATED BY	APPROVED BY		DATE	VERSION
DTU Handpump		J. Rosciano	A. Morillo		17/06/2021	1.1
PART NAME		FILE NAME				POS
Perforated tube		3.3_Peforated_Tube.	ipt			3.3
DEVELOPED BY	REDESIC	GNED BY	DOC. TYPE MATERIAL		QUANTITY	
			Part	PVC		1
			LICENCE		SCALE	SHEET
University of Warwick, DTU	ОНО е	e.V.	CC-BY-SA	4.0	1/1	20 /23

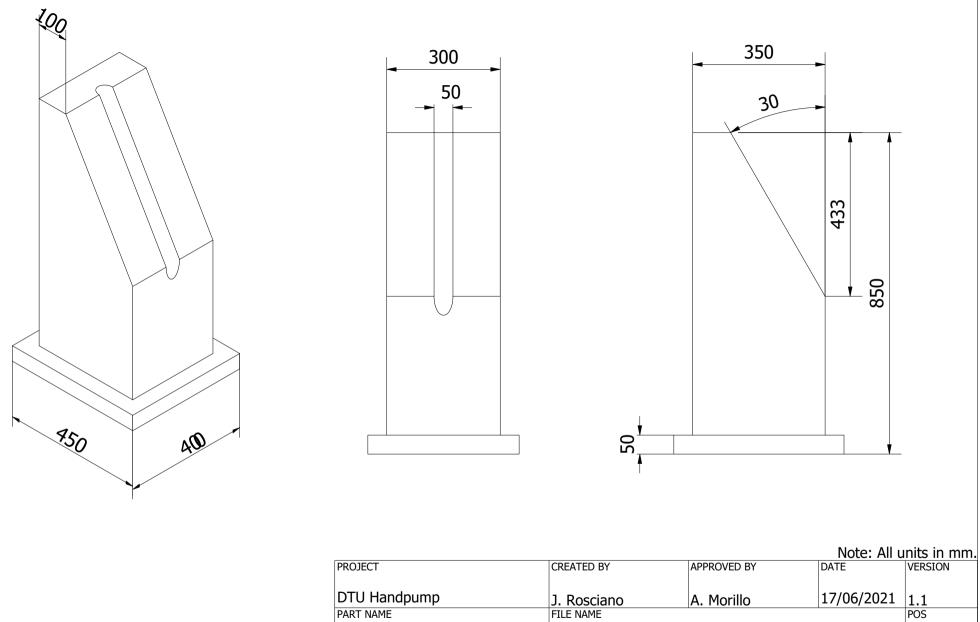




PROJECT	CREATED BY	APPROVED BY		DATE	VERSION
DTU Handpump	J. Rosciano	A. Morillo		17/06/2021	1.1
PART NAME	FILE NAME				POS
Bicycle tube	3.4_Bicycle_Tube.ipt				3.4
DEVELOPED BY REDI	SIGNED BY	DOC. TYPE	MATERIAL		QUANTITY
		Part	ASTM A3	36	1
		LICENCE		SCALE	SHEET
University of Warwick, DTUOH	D e.V.	CC-BY-SA	4.0	1/1	21 /23



PROJECT	CREATED BY	APPROVED BY	/	DATE	VERSION
DTU Handpump	J. Rosciano	A. Morillo		17/06/2021	1.1
PART NAME	FILE NAME				POS
Rubber	3.5_Rubber.ipt				3.5
DEVELOPED BY	REDESIGNED BY	DOC. TYPE	MATERIAL		QUANTITY
		Part	Rubber		1
		LICENCE		SCALE	SHEET
University of Warwick, DTU	DHO e.V.	CC-BY-SA	4.0	3/1	22 /23



Concrete support		4.0_Concrete_Suppo	4.0_Concrete_Support.ipt				
	DEVELOPED BY	REDESIGNED BY	DOC. TYPE	MATERIAL		QUANTITY	1
		(\mathbf{H})	Part LICENCE	Concrete	SCALE	1 SHEET	
	University of Warwick, DTU	OHO e.V.	CC-BY-SA 4.0		1/10	23 /23	