

Surge Tank WorkFlow

Version 1.0





OXIKIT-SG001

Date Effective

Supersedes Document Version #:

Document Title

Surge Tank Assembly

Change History Log:

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VERSION #	REVISION	DESCRIPTION C	DESCRIPTION OF CHANGE					
	DATE	FROM	ТО					
1.0	11/27/2020	Original Release						

I. Purpose:

This Workflow is intended to serve as a guide in assembling one of the main components of the Oxikit, the Surge Tank. The tank serves as an Empty Vessel that holds the oxygen before it is being consumed by the user.

II. Scope:

This guideline applies to all individuals who wish to build the DIY Oxikit. It includes the Materials, tools and the Video Link needed in assembling the making the Drain Cover Trim and Tube

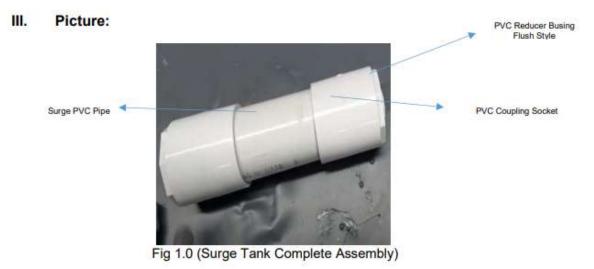


Figure 1 describes the parts needed to assemble the Surge Tank



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Document Title

Workflow - Drain Cover Trim and Tube

III. Safety Operating Conditions:

- Always wear protective gloves, googles and mask.

IV. Workflows

- Please see next page for the step by step guidelines in making the Surge Tank Assembly

Version 1.0

Step	Process		ı	Tools	Youtube Link		
		Name	Description	Metric Conversion	Unit of Measure		https://www.youtub e.com/watch?v=Q F7h1LyMVdY&list
		Surge PVC Pipe	3" Schedule 40 PVC Pipe 9" height	7 mm Schedule 40 (Series 1000) PVC Pipe 228 mm height	Piece		=PL4O1RQEiLpH BJ0i1zqe- CZk1p_NTtGI76&i ndex=8
3	Measure 2" on each side of the Surge PVC Pipe					Caliper	
		Name	Description	Metric Conversion	Unit of Measure		https://www.youtub e.com/watch?v=Q F7h1LyMVdY&list
		Surge PVC Pipe	3" Schedule 40 PVC Pipe 9" height	7 mm Schedule 40 (Series 1000) PVC Pipe 228 mm height	Piece		=PL4O1RQEiLpH BJ0i1zqe- CZk1p_NTtGl76&i
4	Label 2" on each side of the Surge PVC Pipe					 Caliper Sharpie/ Marker 	ndex=8

Step	Process		Ma	Tools	Youtube Link			
	Put glue on one of the marked 2" section of the Surge PVC Pipe and on the PVC Coupling Socket. Put a large	Name	Description		Metric Conversion	Unit of Measure		https://www.youtub e.com/watch?v=Q F7h1LyMVdY&list
		PVC Glue	Gorilla PVC Cement oz. R1584C Medium Body PrimaGlue, Or Step	ı	Gorilla PVC Cement 230ml R1584C Medium Body PrimaGlue, One- Step	Ounce		=PL4O1RQEiLpH BJ0i1zqe- CZk1p_NTtGI76&i ndex=8
5	amount of glue on the outside portion of the male end (Surge	Surge PVC Pipe	3" Schedule 40 PV Pipe 9" height	С	7 mm Schedule 40 (Series 1000) PVC Pipe 228 mm height	Piece		
	PVC Pipe) and less on the inside of the female end	PVC Coupling Socket	3" Sch 40 PVC Coupling - Socket	t	75mmSch40(Series 1000)PVCCoupling- Socket	Piece		
	(PVC Coupling Socket).							
		Name	Description	Ме	tric Conversion	Unit of Measure		https://www.youtub e.com/watch?v=Q F7h1LyMVdY&list
	Place the	Surge PVC Pipe	3" Schedule 40 PVC Pipe 9" height	100	nm Schedule 40 (Series 00) PVC Pipe 228 mm ght	Piece		=PL4O1RQEiLpH BJ0i1zqe- CZk1p_NTtGI76&i ndex=8
socket on to of the Surge	PVC Coupling socket on top of the Surge PVC Pipe.	PVC Coupling Socket	3" Sch 40 PVC Coupling - Socket		mm Sch 40 (Series 1000) C Coupling -Socket	Piece		nuex-o
	Put a little bit of pressure to connect the parts.							

Step	Process		Mate	Tools	Youtube Link		
		Name	Description	Metric Conversion	Unit of Measure		https://www.youtub e.com/watch?v=Q F7h1LyMVdY&list
		Surge PVC Pipe	3" Schedule 40 PVC Pipe 9" height	7 mm Schedule 40 (Series 1000) PVC Pipe 228 mm height	Piece		=PL4O1RQEiLpH BJ0i1zqe- CZk1p_NTtGl76&i ndex=8
7	Wipe any excess glue on the PVCs	PVC Coupling Socket	3" Sch 40 PVC Coupling - Socket	75mmSch40(Series 1000)PVCCoupling- Socket	Piece		ndex=o
	connected.	Towel/Tissu	e Towel/Tissue	Towel/Tissue	roll		
	Put glue on the PVC Reducer	Name	Description	Metric Conversion	Unit of Measure		https://www.youtub e.com/watch?v=Q
	Bushing Flush Style and the PVC Coupling Socket. Put a		3" Schedule 40 PVC Pipe 9" height	7 mm Schedule 40 (Series 1000) PVC Pipe 228 mm height	Piece		F7h1LyMVdY&list =PL4O1RQEiLpH BJ0i1zqe- CZk1p_NTtGl76&i
8	large amount of glue all around the outside portion of the male end (PVC		3" Sch 40 PVC Coupling - Socket	75mmSch40(Series 1000)PVCCoupling- Socket	Piece		ndex=8
	Reducer Bushing Flush Style) and less on the inside of the female end (PVC Coupling Socket).	Reducer Busing	3" x 3/4" Sch 40 PVC Reducer Bushing Flush Style - Spig x Fipt	75mm x 20mm Sch 40 (Series 1000) PVC Reducer Bushing Flush Style - Spig x Fipt	Piece		
			Gorilla PVC Cement 8 oz R1584C Medium	Gorilla PVC Cement 230ml R1584C Medium	Ounce		

Step	Process		Mater	Tools	Youtube Link		
		Name D	escription	Metric Conversion	Unit of Measure		https://www.youtub e.com/watch?v=Q F7h1LyMVdY&list
	Place the PVC Reducer		ipe 9" height	7 mm Schedule 40 (Series 1000) PVC Pipe 228 mm height	Piece		=PL4O1RQEiLpH BJ0i1zqe- CZk1p_NTtGl76&i
9	Bushing Flush Style on top of the PVC		oupling - Socket	75mmSch40(Series 1000)PVCCoupling- Socket	Piece		ndex=8
	Coupling Socket. Put a little bit of pressure to connect the parts.	Reducer P Busing B	VC Reducer ushing Flush Style	75mm x 20mm Sch 40 (Series 1000) PVC Reducer Bushing Flush Style - Spig x Fipt	Piece		
		Name	Description	Metric Conversion	Unit of Measure		https://www.youtub e.com/watch?v=Q F7h1LyMVdY&list
		Surge PVC Pipe	3" Schedule 40 PVC Pipe 9" height	7 mm Schedule 40 (Series 1000) PVC Pipe 228 mm height	Piece		=PL4O1RQEiLpH BJ0i1zqe- CZk1p_NTtGl76&i ndex=8
10	Wipe any excess glue on the PVCs	PVC Coupling Socket	3" Sch 40 PVC Coupling - Socket	75mm Sch 40 (Series 1000) PVC Coupling - Socket	Piece		ndex-0
	connected.	PVC Reducer Busing Flush Style	3" x 3/4" Sch 40 PVC Reducer Bushing Flush Style - Spig x Fipt	75mm x 20mm Sch 40 (Series 1000) PVC Reducer Bushing Flush Style - Spig x Fipt	Piece		
		Towel/Tissue	Towel/Tissue	Towel/Tissue	roll		

Step	Process		Mate	Tools	Youtube Link		
	Put glue on another piece of PVC Reducer	Name	Description	Metric Conversion	Unit of Measure		https://www.youtub e.com/watch?v=Q F7h1LyMVdY&list
	Bushing Flush Style and another piece of PVC Coupling Socket. Put a large amount of	PVC Glue	Gorilla PVC Cement 8 oz. R1584C Medium Body PrimaGlue, One-Step	Gorilla PVC Cement 230ml R1584C Medium Body PrimaGlue, One- Step	Ounce		=PL4O1RQEiLpH BJ0i1zqe- CZk1p_NTtGI76&i ndex=8
11	glue all around the outside portion of the Male end (PVC	PVC Coupling Socket	3" Sch 40 PVC Coupling - Socket	75mmSch40(Series 1000)PVCCoupling- Socket	Piece		
	Reducer Bushing Flush Style) and less on the inside of the female end (PVC Coupling Socket).	PVC Reducer Busing Flush Style	3" x 3/4" Sch 40 PVC Reducer Bushing Flush Style - Spig x Fipt	75mm x 20mm Sch 40 (Series 1000) PVC Reducer Bushing Flush Style - Spig x Fipt	Piece		
		Name	Description	Metric Conversion	Unit of Measure		https://www.youtub e.com/watch?v=Q F7h1LyMVdY&list
	Place the PVC Reducer Bushing Flush Style on top of the PVC Coupling Socket. Put a little bit of pressure to connect the parts.	Place the Coupling C	3" Sch 40 PVC Coupling - Socket	75mm Sch 40 (Series 1000) PVC Coupling- Socket	Piece		=PL4O1RQEiLpH BJ0i1zqe- CZk1p_NTtGI76&i ndex=8
12		PVC Reducer Busing Flush Style	3" x 3/4" Sch 40 PVC Reducer Bushing Flush Style - Spig x Fipt	(Series 1000) PVC			ndex e

Step	Process		Mate	Tools	Youtube Link		
		Name	Description	Metric Conversion	Unit of Measure		https://www.youtub e.com/watch?v=Q F7h1LyMVdY&list
	Wipe any excess glue on the PVCs connected.	PVC Coupling Socket	3" Sch 40 PVC Coupling - Socket	75mmSch40(Series 1000)PVCCoupling- Socket	Piece		=PL4O1RQEiLpH BJ0i1zqe- CZk1p_NTtGI76&i ndex=8
13		PVC Reducer Busing Flush Style	3" x 3/4" Sch 40 PVC Reducer Bushing Flush Style - Spig x Fipt	75mm x 20mm Sch 40 (Series 1000) PVC Reducer Bushing Flush Style - Spig x Fipt	Piece		nuex-o
							1
	Put glue on the open side of the Surge PVC Pipe	Name	Description	Metric Conversion	Unit of Measure		https://www.youtub e.com/watch?v=Q F7h1LyMVdY&list
	and the PVC Coupling Socket with the PVC Reducer Bushing	Surge PVC Pipe	3" Schedule 40 PVC Pipe 9" height	7 mm Schedule 40 (Series 1000) PVC Pipe 228 mm height	Piece		=PL4O1RQEiLpH BJ0i1zqe- CZk1p_NTtGI76&i ndex=8
14	Flush Style step 11. Put a large amount of glue all around the	PVC Coupling Socket	3" Sch 40 PVC Coupling - Socket	75mmSch40(Series 1000)PVCCoupling- Socket	Piece		
	outside portion of the Male end (Surge PVC Pipe) and less on the inside of the female end (PVC Coupling	PVC Reducer Busing Flush Style	3" x 3/4" Sch 40 PVC Reducer Bushing Flush Style - Spig x Fipt	75mm x 20mm Sch 40 (Series 1000) PVC Reducer Bushing Flush Style - Spig x Fipt	Piece		
	Socket).	PVC Glue	Gorilla PVC Cement 8 oz R1584C Medium	Gorilla PVC Cement 230ml R1584C Medium	Ounce		

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Step	Process		Mater	Tools	Youtube Link		
		Name D	Description	Metric Conversion	Unit of Measure		https://www.youtub e.com/watch?v=Q F7h1LyMVdY&list
	Place the PVC Coupling Socket with		8" Schedule 40 PVC Pipe 9" height	7 mm Schedule 40 (Series 1000) PVC Pipe 228 mm height	Piece		=PL4O1RQEiLpH BJ0i1zqe- CZk1p_NTtGl76&i ndex=8
15	PVC Reducer Flush Style on top of the		8" Sch 40 PVC Coupling - Socket	75mmSch40(Series 1000)PVCCoupling- Socket	Piece		nuex-o
	other open end of the Surge PVC Pipe. Put a little bit of pressure	Reducer P Busing B	8" x 3/4" Sch 40 PVC Reducer Bushing Flush Style Spig x Fipt	75mm x 20mm Sch 40 (Series 1000) PVC Reducer Bushing Flush Style - Spig x Fipt	Piece		
	to connect the parts.	'	'				
		Name	Description	Metric Conversion	Unit of Measure		https://www.youtub e.com/watch?v=Q F7h1LyMVdY&list
		Surge PVC Pipe	3" Schedule 40 PVC Pipe 9" height	7 mm Schedule 40 (Series 1000) PVC Pipe 228 mm height	Piece		=PL4O1RQEiLpH BJ0i1zqe- CZk1p_NTtGl76&i
16	Wipe any excess glue on the PVCs	PVC Coupling Socket	3" Sch 40 PVC Coupling - Socke	75mmSch40(Series 1000)PVCCoupling- Socket	Piece		ndex=8
	connected.	PVC Reducer Busing Flush Style		75mm x 20mm Sch 40 (Series 1000) PVC Reducer Bushing Flush Style - Spig x Fipt	Piece		
		Towel/Tissue	Towel/Tissue	Towel/Tissue	roll		
16	excess glue on the PVCs	Coupling Socket PVC Reducer Busing Flush Style	Coupling - Socker 3" x 3/4" Sch 40 PVC Reducer Bushing Flush Style - Spig x Fipt	t 1000)PVC Coupling- Socket 75mm x 20mm Sch 40 (Series 1000) PVC Reducer Bushing Flush Style - Spig x Fipt	Piece		

Step	Process		Materie	Tools	Youtube Link		
		Name	Description	Metric Conversion	Unit of Measure		https://www.youtub e.com/watch?v=Q F7h1LyMVdY&list
		Surge Tank Assembly	Complete and Finished Surge Tank Assembly	Complete and Finished Surge Tank Assembly	Lot		=PL4O1RQEiLpH BJ0i1zqe- CZk1p_NTtGI76&i ndex=8
17	Let it dry for 1-2 days.						
		Name	Description	Metric Conversion	Unit of Measure		https://www.youtub e.com/watch?v=Q F7h1LyMVdY&list
		Surge Tank Assembly	Complete and Finished Surge Tank Assembly	Complete and Finished Surge Tank Assembly	Lot		=PL4O1RQEiLpH BJ0i1zqe- CZk1p_NTtGI76&i ndex=8
18	Blow out air inside the tank to clear out accumulated fumes inside the tank						index=0

Step	Process		Materi	el		Tools	Youtube Link
		Name	Description	Metric Conversion	Unit of Measure		https://www.youtub e.com/watch?v=Q F7h1LyMVdY&list
	Seal the surge tank by placing the fittings on each end of	Surge Tank Assembly	Complete and Finished Surge Tank Assembly	Complete and Finished Surge Tank Assembly	Lot		=PL4O1RQEiLpH BJ0i1zqe- CZk1p_NTtGI76&i ndex=8
19		PVC Reducer Bushing (T.T)	3/4" x 3/8" Sch 40 PVC Reducer (T.T.) Bushing - Mipt x Fipt	20mm x 10mm Sch 40 (Series 1000) PVC Reducer (T.T.) Bushing - Mipt x Fipt	Piece		index=0
	the tank	3/8" Male Straight Push-in Connect Fittings	3/8" Male NPT to 3/8"Push to Connect - Strait	10mm Male NPT to 10mm Push to Connect - Strait	Piece		