




Surge Tank WorkFlow

Version 1.0



 OXIKIT WORKFLOW	Document # OXIKIT-SG001	Date Effective
	Supersedes Document Version #:	
Document Title Surge Tank Assembly		

Change History Log:

VERSION #	REVISION DATE	DESCRIPTION OF CHANGE	
		FROM	TO
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

III. Picture:



Fig 1.0 (Surge Tank Complete Assembly)

Figure 1 describes the parts needed to assemble the Surge Tank

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Document Title <p style="text-align: center;">Workflow - Drain Cover Trim and Tube</p>		

III. Safety Operating Conditions:

- Always wear protective gloves, goggles and mask.

IV. Workflows

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

1	Wash and clean All PVC Pipes and Fittings	<table border="1"> <thead> <tr> <th>Name</th> <th>Description</th> <th>Metric Conversion</th> <th>Unit of Measure</th> </tr> </thead> <tbody> <tr> <td>Surge PVC Pipe</td> <td>3" Schedule 40 PVC Pipe 9" height</td> <td>7 mm Schedule 40 (Series 1000) PVC Pipe 228 mm height</td> <td>Piece</td> </tr> <tr> <td>PVC Coupling Socket</td> <td>3" Sch 40 PVC Coupling - Socket</td> <td>75mm Sch40 (Series 1000) PVC Coupling- Socket</td> <td>Piece</td> </tr> <tr> <td>PVC Reducer Busing Flush Style</td> <td>3" x 3/4" Sch 40 PVC Reducer Bushing Flush Style - Spig x Fipt</td> <td>75mm x 20mm Sch 40 (Series 1000) PVC Reducer Bushing Flush Style - Spig x Fipt</td> <td>Piece</td> </tr> </tbody> </table>	Name	Description	Metric Conversion	Unit of Measure	Surge PVC Pipe	3" Schedule 40 PVC Pipe 9" height	7 mm Schedule 40 (Series 1000) PVC Pipe 228 mm height	Piece	PVC Coupling Socket	3" Sch 40 PVC Coupling - Socket	75mm Sch40 (Series 1000) PVC Coupling- Socket	Piece	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		https://www.youtube.com/watch?v=QF7h1LyMVdY&list=PL4O1RQEiLpHBJ0i1zqe-CZk1p_NTtGI76&index=8
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11	<p>Put glue on another piece of PVC Reducer Bushing Flush Style and another piece of PVC Coupling Socket. Put a large amount of glue all around the outside portion of the Male end (PVC Reducer Bushing Flush Style) and less on the inside of the female end (PVC Coupling Socket).</p>	<table border="1"> <thead> <tr> <th>Name</th> <th>Description</th> <th>Metric Conversion</th> <th>Unit of Measure</th> </tr> </thead> <tbody> <tr> <td>PVC Glue</td> <td>Gorilla PVC Cement 8 oz. R1584C Medium Body PrimaGlue, One-Step</td> <td>Gorilla PVC Cement 230ml R1584C Medium Body PrimaGlue, One-Step</td> <td>Ounce</td> </tr> <tr> <td>PVC Coupling Socket</td> <td>3" Sch 40 PVC Coupling - Socket</td> <td>75mm Sch 40 (Series 1000) PVC Coupling - Socket</td> <td>Piece</td> </tr> <tr> <td>PVC Reducer Busing Flush Style</td> <td>3" x 3/4" Sch 40 PVC Reducer Bushing Flush Style - Spig x Fipt</td> <td>75mm x 20mm Sch 40 (Series 1000) PVC Reducer Bushing Flush Style - Spig x Fipt</td> <td>Piece</td> </tr> </tbody> </table>	Name	Description	Metric Conversion	Unit of Measure	PVC Glue	Gorilla PVC Cement 8 oz. R1584C Medium Body PrimaGlue, One-Step	Gorilla PVC Cement 230ml R1584C Medium Body PrimaGlue, One-Step	Ounce	PVC Coupling Socket	3" Sch 40 PVC Coupling - Socket	75mm Sch 40 (Series 1000) PVC Coupling - Socket	Piece	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		<p>https://www.youtube.com/watch?v=QF7h1LyMVdY&list=PL4O1RQeILpHBJ0i1zqe-CZk1p_NTtGI76&index=8</p>
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PVC Glue	Gorilla PVC Cement 8 oz R1584C Medium	Gorilla PVC Cement 230ml R1584C Medium	Ounce																					

15	Place the PVC Coupling Socket with PVC Reducer Flush Style on top of the other open end of the Surge PVC Pipe. Put a little bit of pressure to connect the parts.	Name		Description	Metric Conversion	Unit of Measure		https://www.youtube.com/watch?v=QF7h1LyMVdY&list=PL4O1RQEiLpHBJ0i1zqe-CZk1p_NTtGI76&index=8
		Surge PVC Pipe	3" Schedule 40 PVC Pipe 9" height	7 mm Schedule 40 (Series 1000) PVC Pipe 228 mm height	Piece			
		PVC Coupling Socket	3" Sch 40 PVC Coupling - Socket	75mm Sch 40 (Series 1000) PVC Coupling - Socket	Piece			
		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			

16	Wipe any excess glue on the PVCs connected.	Name		Description	Metric Conversion	Unit of Measure		https://www.youtube.com/watch?v=QF7h1LyMVdY&list=PL4O1RQEiLpHBJ0i1zqe-CZk1p_NTtGI76&index=8
		Surge PVC Pipe	3" Schedule 40 PVC Pipe 9" height	7 mm Schedule 40 (Series 1000) PVC Pipe 228 mm height	Piece			
		PVC Coupling Socket	3" Sch 40 PVC Coupling - Socket	75mm Sch 40 (Series 1000) PVC Coupling - Socket	Piece			
		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					

17	Let it dry for 1-2 days.	<table border="1"> <thead> <tr> <th>Name</th> <th>Description</th> <th>Metric Conversion</th> <th>Unit of Measure</th> </tr> </thead> <tbody> <tr> <td>Surge Tank Assembly</td> <td>Complete and Finished Surge Tank Assembly</td> <td>Complete and Finished Surge Tank Assembly</td> <td>Lot</td> </tr> </tbody> </table>				Name	Description	Metric Conversion	Unit of Measure	Surge Tank Assembly	Complete and Finished Surge Tank Assembly	Complete and Finished Surge Tank Assembly	Lot		https://www.youtube.com/watch?v=QF7h1LyMVdY&list=PL4O1RQEiLpHBJ0i1zqe-CZk1p_NTtGI76&index=8
		Name	Description	Metric Conversion	Unit of Measure										
		Surge Tank Assembly	Complete and Finished Surge Tank Assembly	Complete and Finished Surge Tank Assembly	Lot										

18	Blow out air inside the tank to clear out accumulated fumes inside the tank	<table border="1"> <thead> <tr> <th>Name</th> <th>Description</th> <th>Metric Conversion</th> <th>Unit of Measure</th> </tr> </thead> <tbody> <tr> <td>Surge Tank Assembly</td> <td>Complete and Finished Surge Tank Assembly</td> <td>Complete and Finished Surge Tank Assembly</td> <td>Lot</td> </tr> </tbody> </table>				Name	Description	Metric Conversion	Unit of Measure	Surge Tank Assembly	Complete and Finished Surge Tank Assembly	Complete and Finished Surge Tank Assembly	Lot		https://www.youtube.com/watch?v=QF7h1LyMVdY&list=PL4O1RQEiLpHBJ0i1zqe-CZk1p_NTtGI76&index=8
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