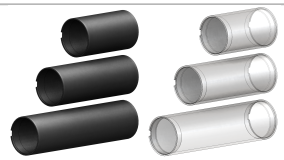
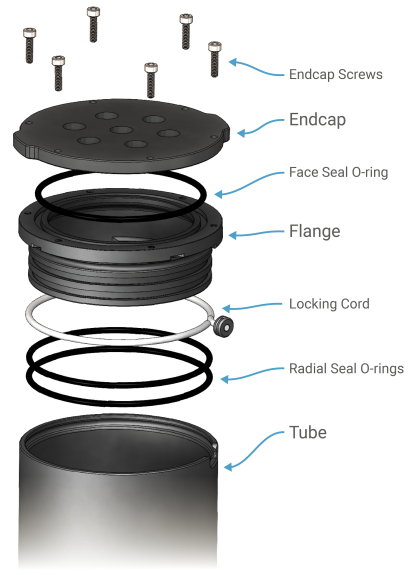
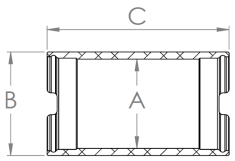
Watertight Enclosures (WTE) Technical Specifications

Version 2 (Last updated 20-Dec-2022)

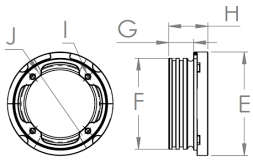
Tubes

Series Diameter [mm]		Tube Material / Finish	(A) Tube ID [mm]	(B) Tube OD [mm]	(C) Overall Length[1] [mm]	Weight [g]	Depth Rating [m]	Part Number
	50 (2")	6061-T6 Aluminum, Type II Anodized	Ø50.0 ± 0.5	Ø58.0 ± 0.2	100	169	950	**WTE2-M-LOCKING-TUBE-100**
					150	261		**WTE2-M-LOCKING-TUBE-150**
					300	536		**WTE2-M-LOCKING-TUBE-300**
		Cast Acrylic	Ø49.5 ± 1.5	Ø58.0 ± 1.0	100	75	400	**WTE2-P-LOCKING-TUBE-100**
					150	115	200	**WTE2-P-LOCKING-TUBE-150**
					300	238	150	**WTE2-P-LOCKING-TUBE-300**
	75 (3")	6061-T6 Aluminum, Type II Anodized	Ø80.14 ± 0.20	Ø86.5 ± 0.3	150	328	950	**WTE3-M-LOCKING-TUBE-150**
					240	530		**WTE3-M-LOCKING-TUBE-240**
					300	665		**WTE3-M-LOCKING-TUBE-300**
					400	890		**WTE3-M-LOCKING-TUBE-400**
		Cast Acrylic	Ø76.2 ± 2.0	Ø88.9 ± 0.7	150	264	300	**WTE3-P-LOCKING-TUBE-150**
					240	442	200	**WTE3-P-LOCKING-TUBE-240**
					300	560	150	**WTE3-P-LOCKING-TUBE-300**
					400	758	125	**WTE3-P-LOCKING-TUBE-400**
	**100** (4")	6061-T6 Aluminum, Type II Anodized	Ø104.16 ± 0.20	Ø112.0 ± 0.3	200	707	950	**WTE4-M-LOCKING-TUBE-200**
					300	1066		**WTE4-M-LOCKING-TUBE-300**
					400	1426		**WTE4-M-LOCKING-TUBE-400**
		Cast Acrylic	Ø101.6 ± 2.1	Ø114.3 ± 0.8	200	488	150	**WTE4-P-LOCKING-TUBE-200**
					300	746	100	**WTE4-P-LOCKING-TUBE-300**
					400	1004	70	**WTE4-P-LOCKING-TUBE-400**

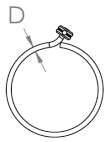




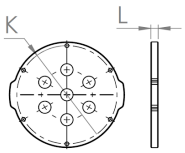
TUBE



FLANGE



LOCKING CORD



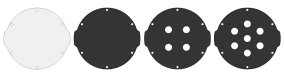
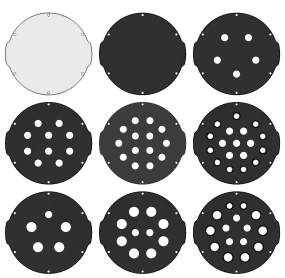
END CAP

DOME

Flanges

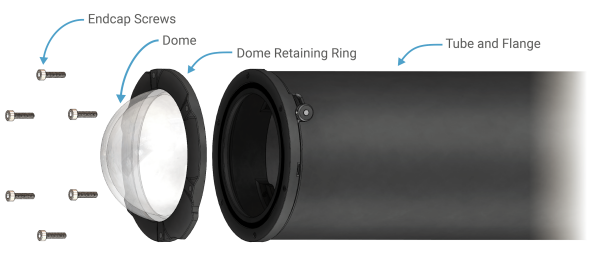
Series Diameter [mm]		Face Seal O-ring	Radial Seal O-ring	(D) Locking Cord Diameter [mm]	(E) Flange OD [mm]	(F) Piston Diameter [mm]	(G) Piston Length [mm]	(H) Overall Length [mm]	(I) Inner Mounting Holes	(J) Inner Mounting Hole Circle	Weight [g]	Part Number
	50 (2")	-030 Buna-N 70A	-030 Buna-N 70A	2.6 ± 0.4	Ø58.0 ± 0.1	Ø50.95 ± 0.05	15.5 ± 0.1	21.5 ± 0.1	4x M3x0.5	Ø43.0 ± 0.1	61	**WTE2-M-LOCKING-FLANGE-CAP-BLANK**
											58	**WTE2-M-LOCKING-FLANGE-CAP-2-HOLE**
											63	**WTE2-M-LOCKING-FLANGE-CAP-4-HOLE**
											41	**WTE2-M-LOCKING-FLANGE**
	75 (3")	-148 Buna-N 70A	-150 Buna-N 70A		Ø88.9 ± 0.1	Ø79.95 ± 0.05	19.1 ± 0.1	27.0 ± 0.1		Ø68.6 ± 0.1	81	**WTE3-M-LOCKING-FLANGE**
	100 (4")	-154 Buna-N 70A	-154 Buna-N 70A		Ø114.3 ± 0.1	Ø103.95 ± 0.05				Ø94.0 ± 0.1	107	**WTE4-M-LOCKING-FLANGE**

End Caps

Series Diameter [mm]		Material	End Cap Screws (SS316 Socket Head Cap Screws)	(K) Endcap Screw Hole Circle	Hole Configuration	(L) Thickness [mm]	Weight [g]	Depth Rating [m]	Part Number
	50 (2")	Cast Acrylic	6x M2x0.4-10	Ø50.8 ± 0.1	Blank (No holes)	6.4 ± 0.1	17	600	**WTE2-P-END-CAP**
		6061-T6 Aluminum, Type II Anodized	-	-	Blank (No holes)	-	63	950	**WTE2-M-LOCKING-FLANGE-CAP-BLANK**
					2x M10 Thru	-	59		**WTE2-M-LOCKING-FLANGE-CAP-2-HOLE**
					4x M10x1.5 Threaded	-	58		**WTE2-M-LOCKING-FLANGE-CAP-4-HOLE**
	**75** (3")	Cast Acrylic	6x M3x0.5-12	Ø82.6 ± 0.1	Blank (No holes)	9 ± 0.1	58	400	**WTE3-P-END-CAP**
		6061-T6 Aluminum, Type II Anodized			Blank (No holes)	6 ± 0.1	102	950	**WTE3-M-END-CAP**
					4x M10 Thru	6 ± 0.1	97		**WTE3-M-END-CAP-4-HOLE**
					7x M10 Thru	6 ± 0.1	93		**WTE3-M-END-CAP-7-HOLE**
	**100** (4")	Cast Acrylic	6x M3x0.5-16	Ø108.0 ± 0.1	Blank (No holes)	12.7 ± 0.1	135	500	**WTE4-P-END-CAP-BLANK** *(Name Changed)*
		6061-T6 Aluminum, Type II Anodized	6x M3x0.5-12		Blank (No holes)	6 ± 0.1	168	500	**WTE4-M-END-CAP** ***(End of life, new rev below)***
						10 ± 0.1	234	950	**WTE4-M-END-CAP-BLANK** ***(Coming soon! 950m rating)***
					5x M10 Thru	6 ± 0.1	162	500	**WTE4-M-END-CAP-5-HOLE** ***(End of life, new rev below)***
						10 ± 0.1	223	950	**WTE4-M-END-CAP-5XM10** ***(Coming soon! 950m rating)***
					10x M10 Thru	6 ± 0.1	155	500	**WTE4-M-END-CAP-10-HOLE** ***(End of life, new rev below)***
						10 ± 0.1	212	950	**WTE4-M-END-CAP-10XM10** ***(Coming soon! 950m rating)***
					14x M10 Thru	6 ± 0.1	149	500	**WTE4-M-END-CAP-14-HOLE** ***(End of life)***
					7x M10 Thru 11x M10x1.5 Threaded	10 ± 0.1	197	950	**WTE4-M-END-CAP-18XM10** *(Name Changed)*
					1x M10 Thru, 4x M14 Thru	10 ± 0.1	215	950	**WTE4-M-END-CAP-4XM14-1XM10** ***(New! 950m rating)***
					2x M10 Thru, 8x M14 Thru	10 ± 0.1	195	950	**WTE4-M-END-CAP-8XM14-2XM10** ***(New! 950m rating)***
					5x M10 Thru, 2x M10x1.5 Threaded 8x M14x1.5 Threaded	10 ± 0.1	188	950	**WTE4-M-END-CAP-8XM14-7XM10** ***(New! 950m rating)***

Domes

Series Diameter [mm]		Material	(M) Dome Internal Radius [mm]	(N) Dome Wall Thickness [mm]	Weight [g]	Depth Rating [m]	Part Number
	50 (2")	Acrylic Dome, Polycarbonate Retaining Ring	18.0 ± 0.1	2.50 ± 0.10	15	950	**WTE2-P-DOME**
	75 (3")		31.25 ± 0.10	3.1 ± 0.1	39	750	**WTE3-P-DOME**
	100 (4")		43.5 ± 0.1	3.75 ± 0.10	81	500	**WTE4-P-DOME**



[1] *Overall tube length tolerance ± 0.5 mm*