

**802-013**  
**Series 802 "Aqua Mouse" Submersible**  
**Hermetic Receptacle How to Order Information**



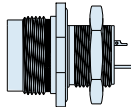
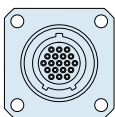
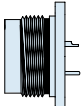
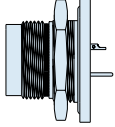
**Style 00 Front Mount**

**Series 802 Hermetic Receptacles** feature gold plated iron alloy contacts and compression glass dielectric material. The 316L stainless steel connector shell provides excellent corrosion protection and is suitable for e-beam welding. The Viton® interfacial seal and piston o-ring offer improved resistance to harsh chemicals.

**1 x 10<sup>-7</sup> cc/Second Maximum Helium Leak Rate.** Open face (unmated) pressure rating is 1000 PSI. When mated, Series 802 connectors withstand 3500 PSI hydrostatic pressure.

HERMETIC LEAK RATE MOD CODES	
Designator	Required Leak Rate
-585A	1 x 10 <sup>-10</sup> cc Helium per second
-585B	1 x 10 <sup>-9</sup> cc Helium per second
-585C	1 x 10 <sup>-8</sup> cc Helium per second

**HOW TO ORDER SERIES 802 HERMETIC RECEPTACLES**

Sample Part Number					
802-013	-00	Z1	6-7	P	A
Series	Shell Style	Shell Material / Finish	Shell Size- Insert Arrangement	Contact Type	Shell Key Position
<p><b>802-013</b> Series 802 Hermetic Receptacle with Solder Cup or PCB Contacts</p>	 <p><b>-00</b> Jam Nut for Front Panel Mounting</p>  <p><b>-02</b> Square Flange Mount</p>  <p><b>-03</b> Weld Mount</p>  <p><b>-07</b> Jam Nut for Rear Panel Mounting</p>	<p><b>Z1</b> Stainless Steel / Passivated</p> <p><b>ZL</b> Stainless Steel / Nickel Plated</p> <p>*Titanium and Inconel® shell materials are available. Consult factory for ordering information.</p>	<p>See Page C-4 for Contact Arrangements</p>	<p><b>E</b> Pin, Solder Cup</p> <p><b>P</b> Pin, PC Tail</p> <p><b>S</b> Socket, Solder Cup</p> <p><b>D</b> Sockets, PC Tail</p>	<p><b>A</b> Normal</p> <p><b>B</b> Pos. B</p> <p><b>C</b> Pos. C</p> <p><b>D</b> Pos. D</p>

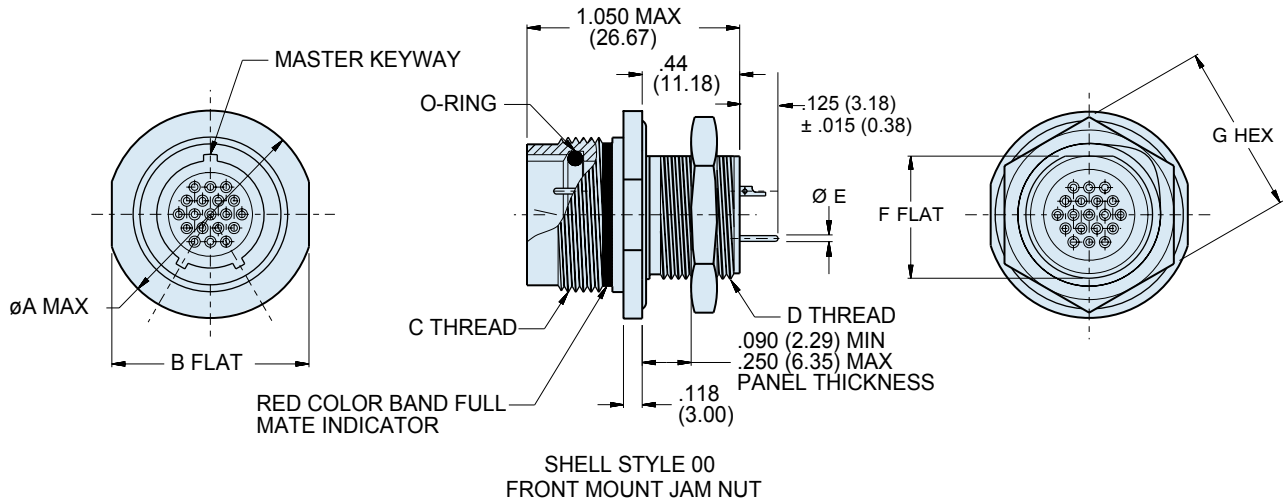
Dimensions in Inches (millimeters) are subject to change without notice.



802-013-00

Series 802 "Aqua Mouse" Submersible  
Hermetic Front Mount Jam Nut Receptacle  
Connector Dimensions

C



DIMENSIONS

Shell Size	A Max.		B Flat		C Mating Threads	D Threads	Ø E Tail Dia.	F Flat		G Hex	
	In.	mm.	In.	mm.				In.	mm.	In.	mm.
5	.720	18.29	.625	15.88	.438-28 UNEF-2A	.312-28 UN-2A	#23 .018/.022 (0.46/0.56)	.281	7.14	.500	12.70
6	.780	19.81	.750	19.05	.562-20 UN-2A	.438-28 UN-2A		.344	8.74	.625	15.88
7	.910	23.11	.812	20.62	.625-20 UN-2A	.500-32 UN-2A		.469	11.91	.688	17.48
8	.960	24.38	.875	22.23	.687-20 UN-2A	.562-28 UN-2A	#20 .024/.028 (0.61/0.71)	.531	13.49	.750	19.05
9	1.030	26.16	.937	23.80	.750-20 UNEF-2A	.625-20 UN-2A		.594	15.09	.812	20.62
10	1.090	27.69	1.000	25.40	.812-20 UNEF-2A	.687-28 UN-2A		.656	16.66	.875	22.23
12	1.160	29.46	1.062	26.97	.875-20 UNEF-2A	.750-28 UN-2A	#16 .060/.064 (1.52/1.63)	.719	18.26	.938	23.83
14	1.340	34.04	1.250	31.75	1.062-20 UN-2A	.938-28 UN-2A		.893	22.68	1.125	28.58
15	1.410	35.18	1.312	33.32	1.125-20 UN-2A	1.000-28 UN-2A		.955	24.26	1.188	30.18
21	1.700	43.18	1.562	39.67	1.4375-20 UN-2A	1.312-28 UN-2A	#12 .092/.096 (2.34/2.44)	1.257	31.93	1.500	38.10

SERIES 802 RECEPTACLE KEY POSITIONS

Key Position	Key Rotation	
	A°	B°
Normal (A)	150°	210°
B	75°	210°
C	95°	230°
D	140°	275°
E	75°	275°
F	95°	210°

CUTOUT DIMENSIONS

Shell Size	H Flat		Ø J	
	In.	mm.	In.	mm.
5	.291/.286	7.4/7.3	.322	8.2
6	.417/.412	10.6/10.5	.448	11.4
7	.479/.474	12.2/12.0	.510	13.0
8	.541/.536	13.7/13.6	.572	14.5
9	.604/.599	15.3/15.2	.635	16.1
10	.666/.661	16.9/16.8	.697	17.7
12	.729/.724	18.5/18.4	.760	19.3
14	.903/.898	22.9/22.8	.948	24.1
15	.965/.960	24.5/24.4	1.010	25.7
21	1.267/1.263	32.2/32.1	1.322	33.6

RECOMMENDED PANEL CUTOUT FOR STYLE 00 FRONT MOUNT JAM NUT

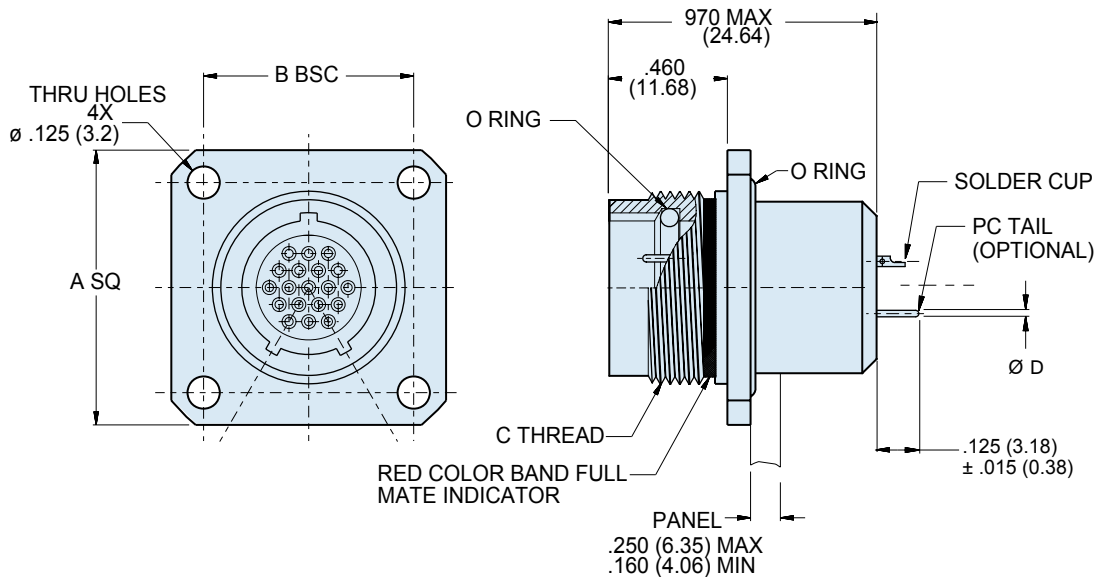
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802-013-02

Series 802 "Aqua Mouse" Submersible  
Square Flange Mount Hermetic Receptacle  
Connector Dimensions



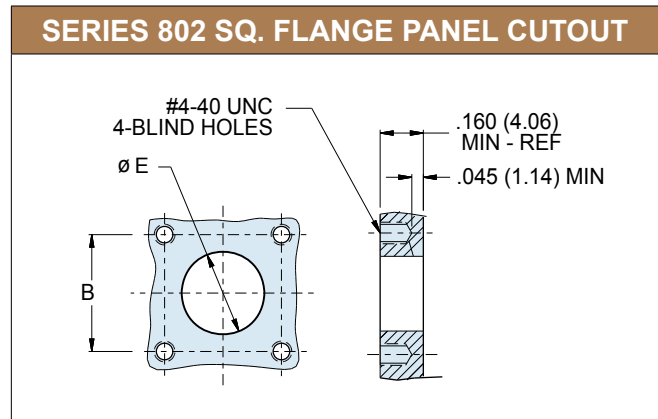
Series 80  
Mighty Mouse



C

DIMENSIONS								
Shell Size	A Square		B BSC.		C Mating Threads	$\varnothing$ D Tail Dia.	$\varnothing$ E	
	In.	mm.	In.	mm.			In.	mm.
5	.885	22.48	.500	12.70	.438-28 UNEF	.018/.022 (0.46/0.56)	.327	8.31
6	1.010	25.65	.625	15.88	.562-20 UN		.390	9.91
7	1.072	27.23	.688	17.48	.625-20 UN		.515	13.08
8	1.135	28.83	.750	19.05	.687-20 UN	.024/.028 (0.61/0.71)	.577	14.66
9	1.195	30.35	.812	20.62	.750-20 UNEF		.640	16.26
10	1.260	32.00	.875	22.23	.812-20 UNEF	.060/.064 (1.52/1.63)	.702	17.83
12	1.323	33.60	.938	23.83	.875-20 UNEF		.765	19.43
14	1.510	38.25	1.125	28.58	1.062-20 UN		.953	24.21
15	1.573	39.95	1.188	30.18	1.125-20 UN	.092/.096 (2.34/2.44)	1.015	25.78
21	1.750	44.45	1.375	34.93	1.4375-20 UN		1.312	33.32

SERIES 802 RECEPTACLE KEY POSITIONS		
Key Position	Key Rotation	
	A°	B°
Normal (A)	150°	210°
B	75°	210°
C	95°	230°
D	140°	275°
E	75°	275°
F	95°	210°

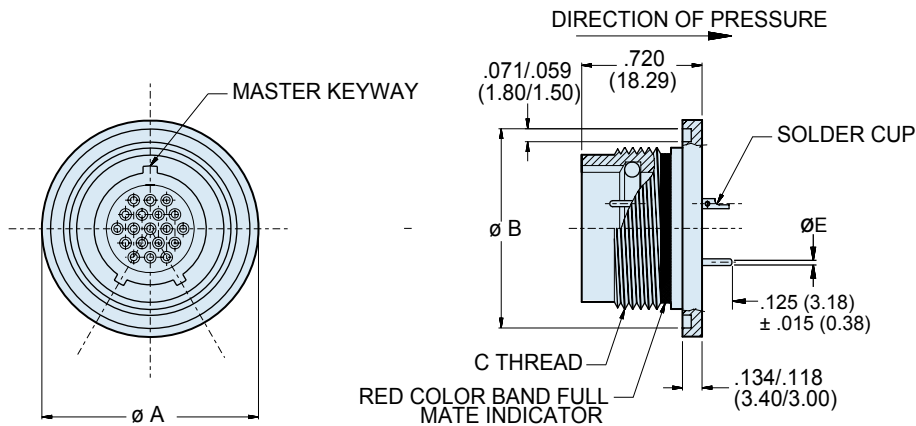


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802-013-03

Series 802 "Aqua Mouse" Submersible  
Weld Mount Hermetic Receptacle  
Connector Dimensions



SHELL STYLE 03  
WELD MOUNT

DIMENSIONS

Shell Size	$\varnothing A$		$\varnothing B$		C Mating Threads	$\varnothing E$ Tail Dia.
	In. $\pm .006$	mm. $\pm 0.15$	In. $\pm .006$	mm. $\pm 0.15$		
5	.788	20.02	.745	18.92	.438-28 UNEF	#23 .018/.022 (0.46/0.56)
6	.912	23.16	.869	22.07	.562-20 UN	
7	.975	24.77	.933	23.70	.625-20 UN	
8	1.038	26.37	.995	25.27	.687-20 UN	#20 .024/.028 (0.61/0.71)
9	1.100	27.94	1.057	26.85	.750-20 UNEF	
10	1.162	29.53	1.119	28.42	.812-20 UNEF	#16 .060/.064 (1.52/1.63)
12	1.225	31.12	1.182	30.02	.875-20 UNEF	
14	1.412	35.86	1.369	34.77	1.062-20 UN	#12 .092/.096 (2.34/2.44)
15	1.475	37.47	1.432	36.37	1.125-20 UN	
21	1.795	45.59	1.747	44.38	1.4375-20 UN	

SERIES 802 RECEPTACLE KEY POSITIONS

Key Position	Key Rotation	
	A°	B°
Normal (A)	150°	210°
B	75°	210°
C	95°	230°
D	140°	275°
E	75°	275°
F	95°	210°

Diagram showing the key positions A and B on the receptacle. The key is positioned at an angle A° from the vertical and B° from the horizontal.

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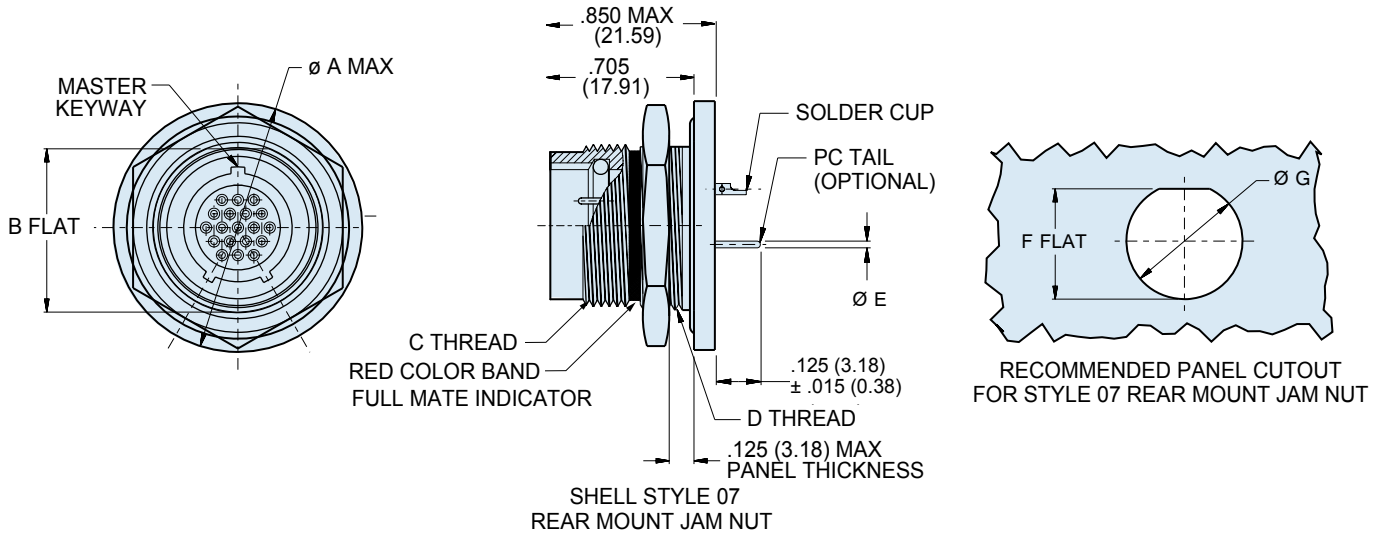
802-013-07

Series 802 "Aqua Mouse" Submersible  
Hermetic Rear Mount Jam Nut Receptacle  
Connector Dimensions



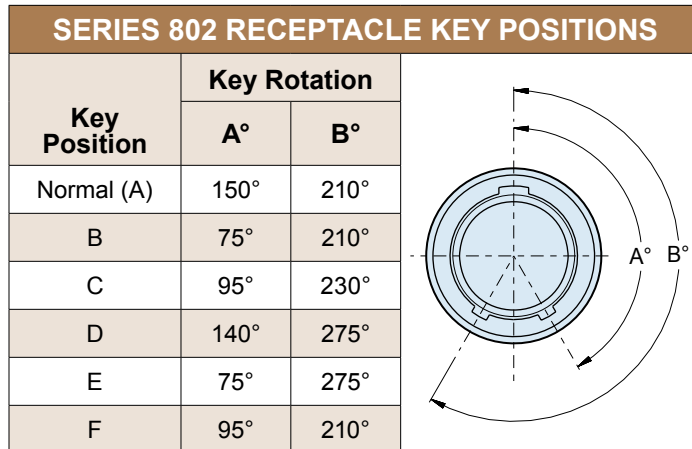
Series 80  
Mighty Mouse

C



DIMENSIONS

Shell Size	$\varnothing A$ Max.		B Flat		C Mating Threads	D Threads	$\varnothing E$ Tail Dia.	F Flat		$\varnothing G$	
			In. $\pm .003$	mm. $\pm 0.08$				In. $\pm .003$	mm. $\pm 0.08$		
5	.885	22.48	.466	11.84	.438-28 UNEF	.500-32 UN-2A	#23 .018/.022 (0.46/0.56)	.473	12.01	.510	12.95
6	1.010	25.65	.591	15.01	.562-20 UN	.625-20 UN-2A		.603	15.32	.635	16.13
7	1.072	27.23	.653	16.59	.625-20 UN	.687-28 UN-2A		.662	16.81	.697	17.70
8	1.135	28.83	.727	18.47	.687-20 UN	.750-28 UN-2A	#20 .024/.028 (0.61/0.71)	.735	18.67	.760	19.30
9	1.195	30.35	.778	19.76	.750-20 UNEF	.812-28 UN-2A		.785	19.94	.822	20.88
10	1.260	32.00	.827	21.01	.812-20 UNEF	.875-28 UN-2A	#16 .060/.064 (1.52/1.63)	.835	21.21	.885	22.48
12	1.322	33.58	.890	22.61	.875-20 UNEF	.938-28 UN-2A		.899	22.83	.948	24.08
14	1.510	38.25	1.077	27.36	1.062-20 UN	1.125-28 UN-2A	#12 .092/.096 (2.34/2.44)	1.085	27.56	1.135	28.83
15	1.572	39.93	1.140	28.96	1.125-20 UN	1.188-28 UN-2A		1.155	29.34	1.198	30.43
21	1.940	49.28	1.464	37.19	1.4375-20 UN	1.500-28 UN-2A		1.473	37.41	1.510	39.12



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