

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



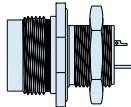
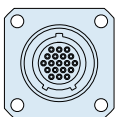
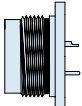
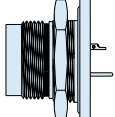
**Style 00 Front Mount**

**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**

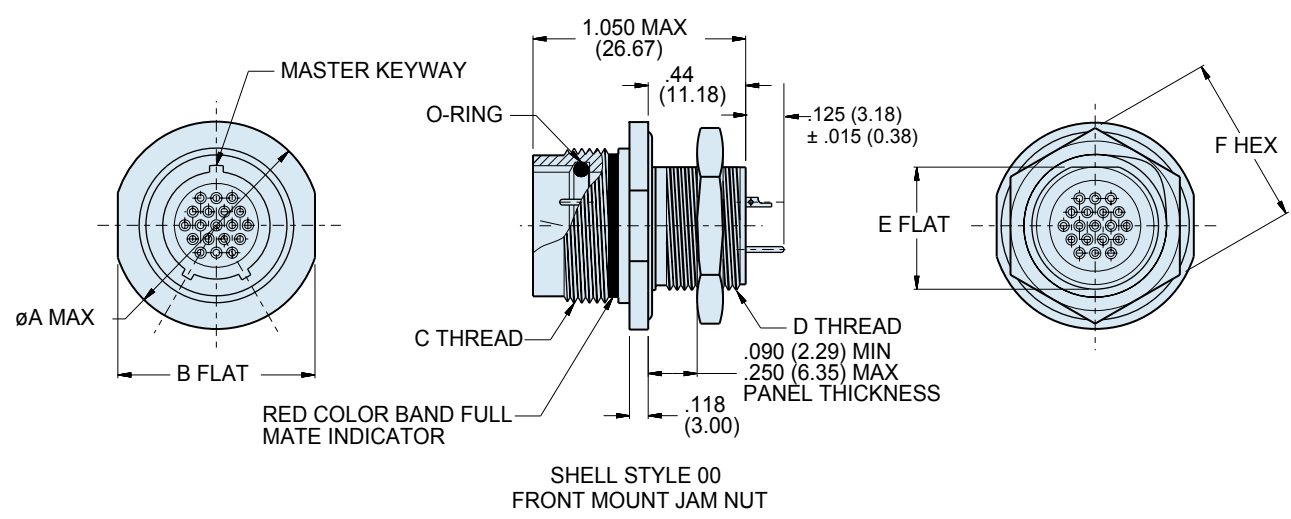
Sample Part Number					
802-013	-00	Z1	6-7	P	A
Series	Shell Style	Shell Material / Finish	Shell Size- Insert Arrangement	Contact Type	Shell Key Position
<b>802-013</b> Series 802 Hermetic Receptacle with Solder Cup or PCB Contacts	 <b>-00</b> Jam Nut for Front Panel Mounting	<b>Z1</b> Stainless Steel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

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.
<b>5</b>	.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
<b>6</b>	.780	19.81	.750	19.05	.562-20 UN-2A	.438-28 UN-2A		.344	8.74	.625	15.88
<b>7</b>	.910	23.11	.812	20.62	.625-20 UN-2A	.500-32 UN-2A		.469	11.91	.688	17.48
<b>8</b>	.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
<b>9</b>	1.030	26.16	.937	23.80	.750-20 UNEF-2A	.625-20 UN-2A		.594	15.09	.812	20.62
<b>10</b>	1.090	27.69	1.000	25.40	.812-20 UNEF-2A	.687-28 UN-2A		.656	16.66	.875	22.23
<b>12</b>	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
<b>14</b>	1.340	34.04	1.250	31.75	1.062-20 UN-2A	.938-28 UN-2A		.893	22.68	1.125	28.58
<b>15</b>	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
<b>21</b>	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°

**CUTOUT DIMENSIONS**

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

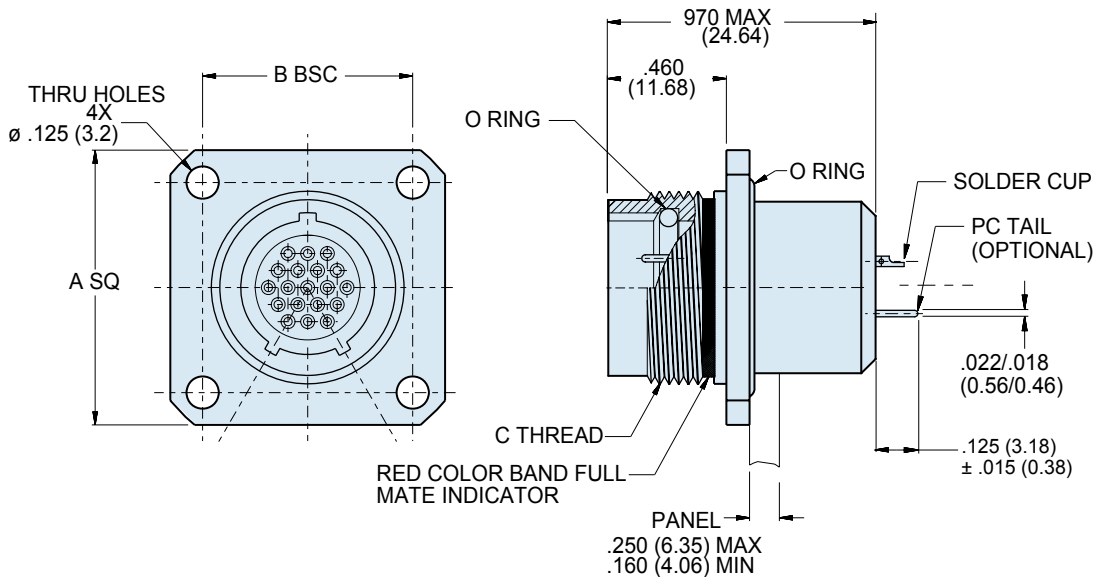
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802-013-02

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



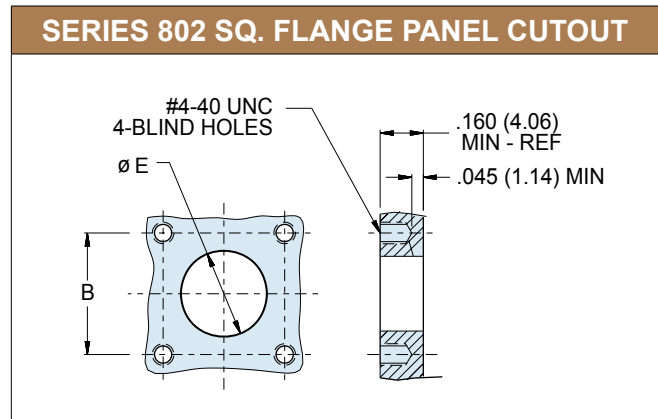
Series 80  
Mighty Mouse



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	.092/.096 (2.34/2.44)	.953	24.21
15	1.573	39.95	1.188	30.18	1.125-20 UN		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		Diagram
	A°	B°	
Normal (A)	150°	210°	
B	75°	210°	
C	95°	230°	
D	140°	275°	

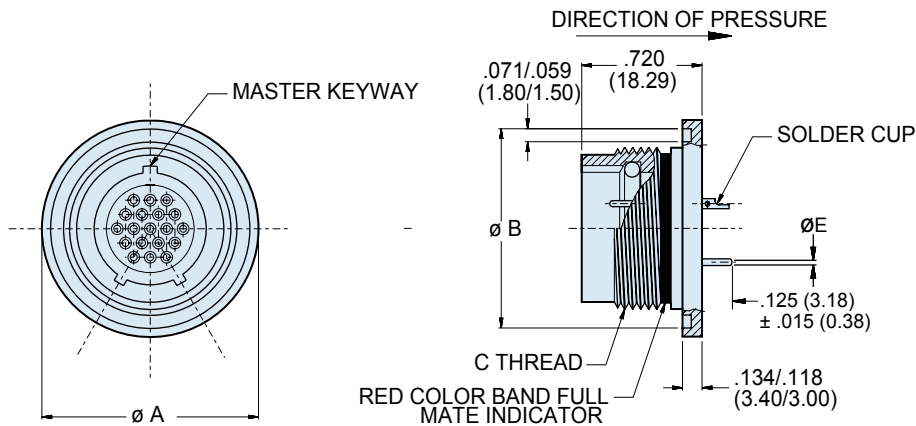


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802-013-03

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



SHELL STYLE 03  
WELD MOUNT

DIMENSIONS

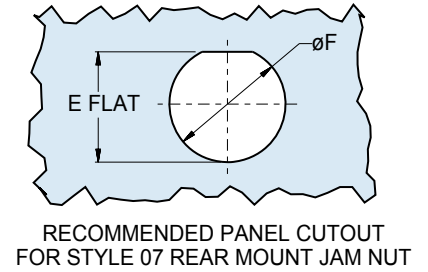
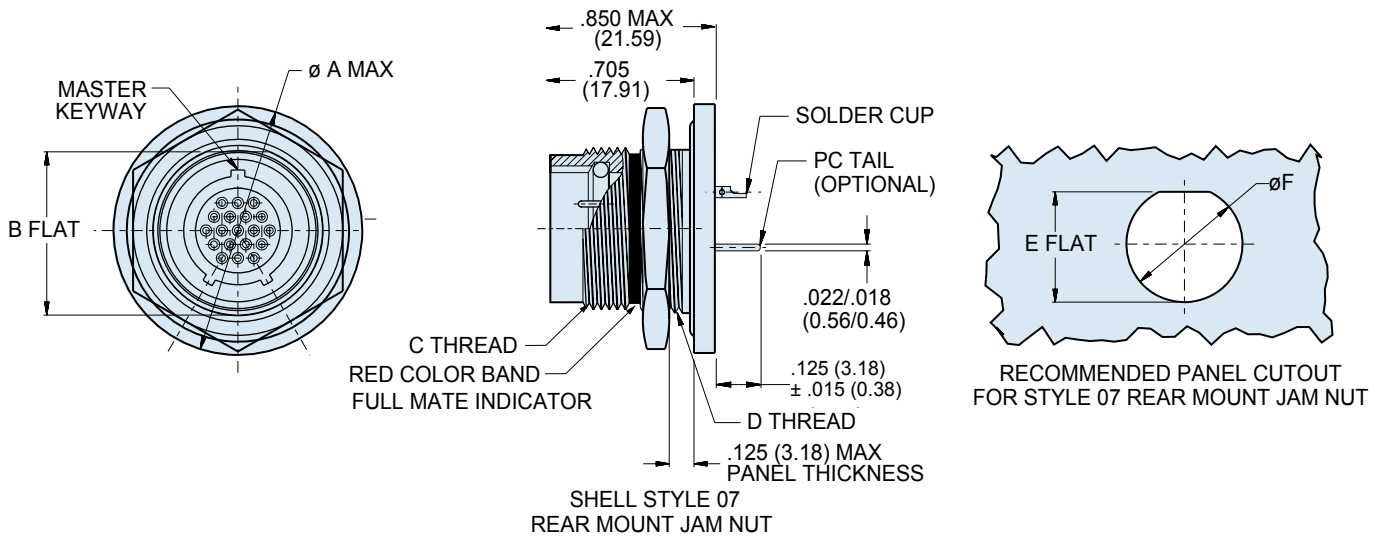
Shell Size	Ø A		Ø B		C Mating Threads	Ø E Tail Dia.
	In. ± .006	mm. ± 0.15	In. ± .006	mm. ± 0.15		
5	.788	20.02	.745	18.92	.438-28 UNEF	#23 .018/.022 (0.46/0.56)
6	.912	23.16	.869	22.07	.562-20 UN	
7	.975	24.77	.933	23.70	.625-20 UN	
8	1.038	26.37	.995	25.27	.687-20 UN	#20 .024/.028 (0.61/0.71)
9	1.100	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°

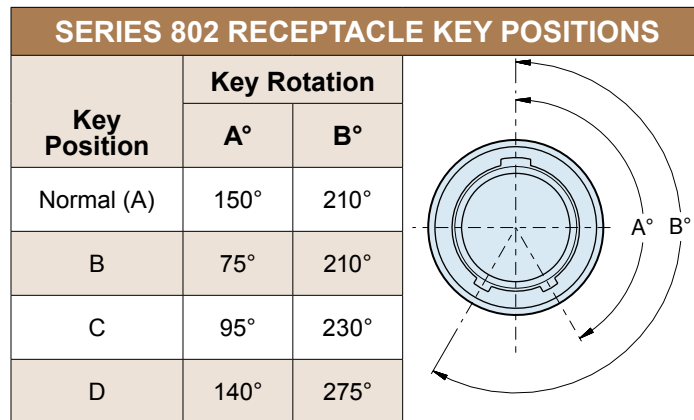
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802-013-07  
**Series 802 "Aqua Mouse" Submersible  
 Hermetic Rear Mount Jam Nut Receptacle  
 Connector Dimensions**



**DIMENSIONS**

Shell Size	A Max.		B Flat		C Mating Threads	D Threads	Ø E Tail Dia.	F Flat		Ø G	
	In.	mm.	In. ±.003	mm. ±0.08				In. ±.003	mm. ±0.08	In.	mm.
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	.716	18.19	.687-20 UN	.750-28 UN-2A	#20 .024/.028 (0.61/0.71)	.714	18.14	.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		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	#12 .092/.096 (2.34/2.44)	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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