

**802-013 submersible hermetic
PC tail or solder cup receptacles**



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

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

How To Order						
Sample Part Number	802-013		-00	Z1	9-200	P A
Series	802-013 = Hermetic Receptacle					
Shell Style (See Table I)	-00 = Jam Nut for Front Panel Mounting -03 = Weld Mount -02 = Square Flange Front Panel Mount -07 = Jam Nut Rear Panel Mount					
Shell Material and Finish	Z1 = Stainless Steel / Passivated RoHS Compliant ZL = Stainless Steel / Nickel Plated					
Shell Size - Contact Arrangement	See Contact Arrangements pages 4 - 6					
Contact Type	P = Pin, PC Tail D = Socket, PC Tail E = Pin, Solder Cup S = Socket, Solder Cup					
Shell Key Position (See Table II)	A = Normal B = Pos. B C = Pos. C D = Pos. D E = Pos. E F = Pos. F					

Table I: Shell Style

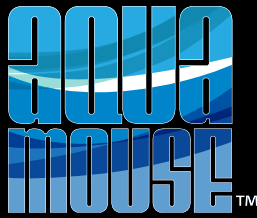
Table 1: Shell Style			
 -00 Jam Nut for Front Panel Mounting	 -02 Square Flange	 -03 Weld Mount	 -07 Jam Nut for Rear Panel Mounting

Table II: Keyway Positions

Table II: Keyway Positions

Key Position	Key Rotation	
	A°	B°
A Normal	150°	210°
B	75°	210°
C	95°	230°
D	140°	275°
E	75°	275°
F	9°	210°

The diagram illustrates a cross-section of a shaft with a keyway. Two keyway positions are indicated: Position A at the top (0°) and Position B at the bottom (180°). The keyway is shown as a rectangular slot in the shaft. The diagram uses concentric circles to represent the shaft and keyway, with dashed lines indicating the angular positions A° and B°. Arrows indicate the direction of rotation for each position.

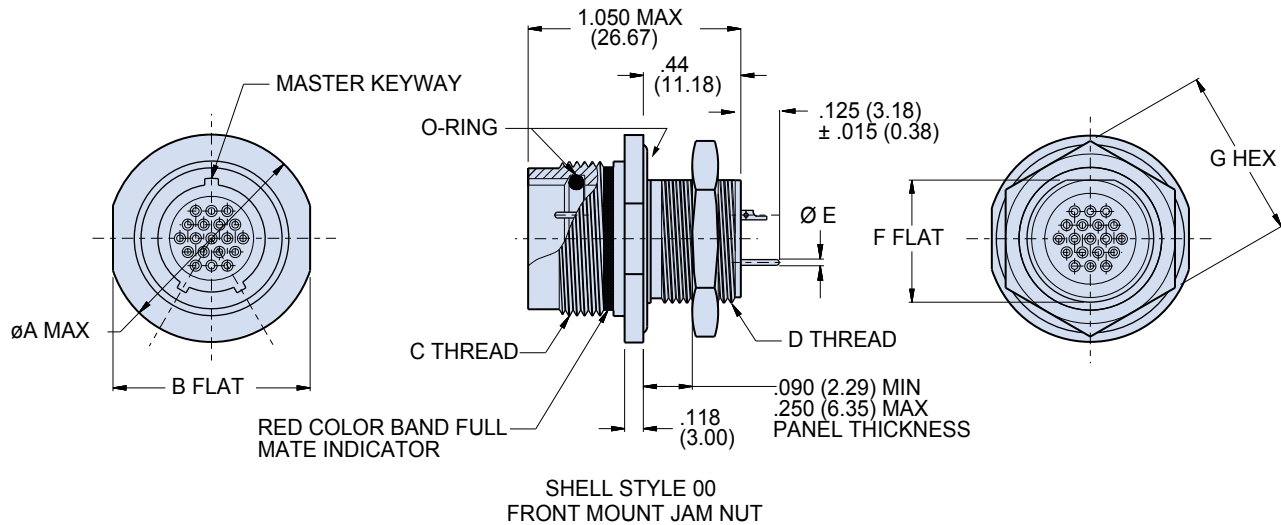


SERIES 802 2400M / 3500 PSI Ultraminiature Subsea Connectors

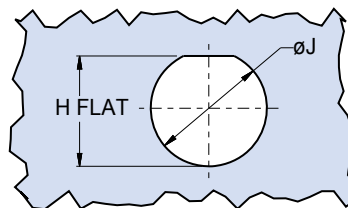
802-013-00 submersible hermetic Front panel mount, jam nut receptacle



FRONT PANEL MOUNT, SOLDER CUP OR PC TAIL JAM NUT RECEPTACLE - SHELL STYLE 00

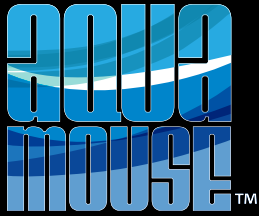


Dimensions								Panel Cutout	
Shell Size	Ø A Max.	B Flat	C Threads	D Threads	Ø E Tail Dia.	F Flat	G Hex	H Flat	Ø J
5	.72 (18.29)	.625 (15.88)	.4375-28 UNEF-2A	.312-28 UN-2A	#23 .018/.022 (0.46/0.56) #20 .024/.028 (0.61/0.71) #16 .060/.064 (1.52/1.63) #12 .092/.096 (2.34/2.44)	.281 (7.14)	.500 (12.70)	.291 (.739) .286 (7.26)	.322 (8.18)
6	.78 (19.81)	.750 (19.05)	.5625-20 UN-2A	.438-28 UN-2A		.406 (10.31)	.625 (15.88)	.417 (10.59) .412 (10.46)	.448 (11.38)
7	.91 (23.11)	.812 (20.62)	.6250-20 UN-2A	.500-32 UN-2A		.469 (11.91)	.688 (17.48)	.479 (12.17) .474 (12.04)	.510 (12.95)
8	.96 (24.38)	.875 (22.23)	.6875-20 UN-2A	.562-28 UN-2A		.531 (13.49)	.750 (19.05)	.541 (13.74) .536 (13.61)	.572 (14.53)
9	1.03 (26.16)	.937 (23.80)	.7500-20 UNEF-2A	.625-20 UN-2A		.594 (15.09)	.812 (20.62)	.604 (15.34) .599 (15.21)	.635 (16.13)
10	1.09 (27.69)	1.000 (25.40)	.8125-20 UNEF-2A	.687-28 UN-2A		.656 (16.66)	.875 (22.23)	.666 (16.92) .661 (16.79)	.697 (17.70)
12	1.16 (29.46)	1.062 (26.97)	.8750-20 UNEF-2A	.750-28 UN-2A		.719 (18.26)	.938 (23.83)	.729 (18.52) .724 (18.39)	.760 (19.30)
14	1.34 (34.04)	1.250 (31.75)	1.0625-20 UN-2A	.938-28 UN-2A		.893 (22.68)	1.125 (28.58)	.903 (22.94) .898 (22.81)	.948 (24.08)
15	1.41 (35.81)	1.312 (33.32)	1.1250-20 UN-2A	1.000-28 UN-2A		.955 (24.26)	1.188 (30.18)	.965 (24.51) .960 (24.38)	1.010 (25.65)
21	1.70 (43.18)	1.562 (39.67)	1.4375-20 UN-2A	1.312-28 UN-2A		1.257 (31.93)	1.500 (38.10)	1.267 (32.18) 1.263 (32.08)	1.322 (33.58)



RECOMMENDED PANEL CUTOUT
FOR STYLE 00
FRONT MOUNT JAM NUT



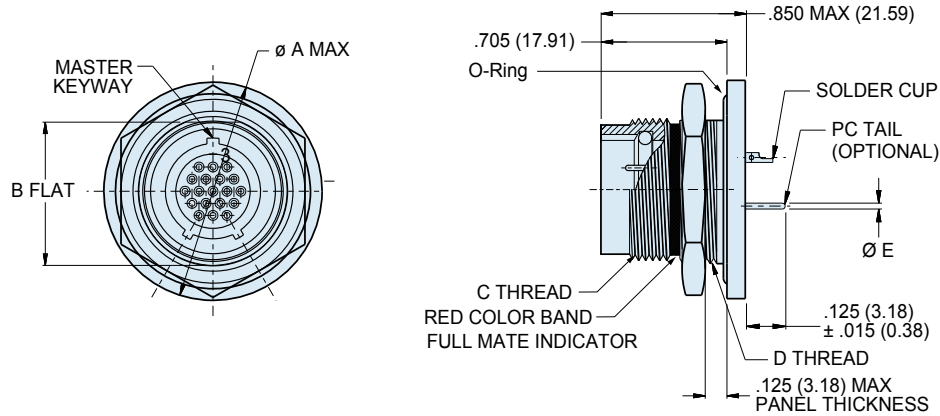


SERIES 802 2400M / 3500 PSI Ultraminiature Subsea Connectors

802-013-07 submersible hermetic Rear panel mount, jam nut receptacle

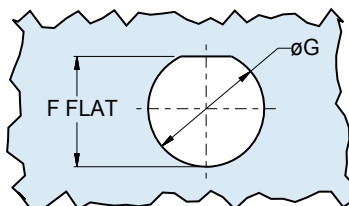


REAR PANEL MOUNT, SOLDER CUP OR PC TAIL JAM NUT RECEPTACLE - SHELL STYLE 07

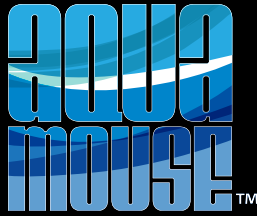


SHELL STYLE 07
REAR MOUNT JAM NUT

Dimensions							
Shell Size	A Max.	B Flat ± .003 (.08)	C Threads	D Threads	Ø E Tail Dia.	F Flat ± .003 (.08)	Ø G
5	.885 (22.48)	.466 (11.84)	.438-28 UNEF	.500-32 UN-2A	#23 .018/.022 (0.46/0.56)	.479 (12.17) .474 (12.04)	.510 (12.95)
6	1.010 (25.65)	.591 (15.01)	.562-20 UN	.625-20 UN-2A		.604 (15.34) .599 (15.21)	.635 (16.13)
7	1.072 (27.23)	.653 (16.59)	.625-20 UN	.687-28 UN-2A		.666 (16.92) .661 (16.79)	.697 (17.70)
8	1.135 (28.83)	.729 (18.52) .725 (18.42)	.687-20 UN	.750-28 UN-2A		.737 (18.72) .733 (18.62)	.760 (19.30)
9	1.195 (30.35)	.778 (19.76)	.750-20 UNEF	.812-28 UN-2A		.791 (20.09) .786 (19.96)	.822 (20.88)
10	1.260 (32.00)	.827 (21.01)	.812-20 UNEF	.875-28 UN-2A		.840 (21.34) .835 (21.21)	.885 (22.48)
12	1.322 (33.58)	.890 (22.61)	.875-20 UNEF	.938-28 UN-2A		.903 (22.94) .898 (22.81)	.948 (24.08)
14	1.510 (38.35)	1.077 (27.36)	1.062-20 UN	1.125-28 UN-2A		1.090 (27.69) 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		1.153 (29.29) 1.148 (29.16)	1.198 (30.43)
21	1.940 (49.28)	1.467 (37.26) 1.463 (37.16)	1.4375-20 UN	1.500-28 UN-2A	#16 .060/.064 (1.52/1.63) #12 .092/.096 (2.34/2.44)	1.475 (37.47) 1.471 (37.36)	1.510 (38.35)



RECOMMENDED PANEL CUTOUT
FOR STYLE 07 REAR MOUNT JAM NUT



SERIES 802 2400M / 3500 PSI

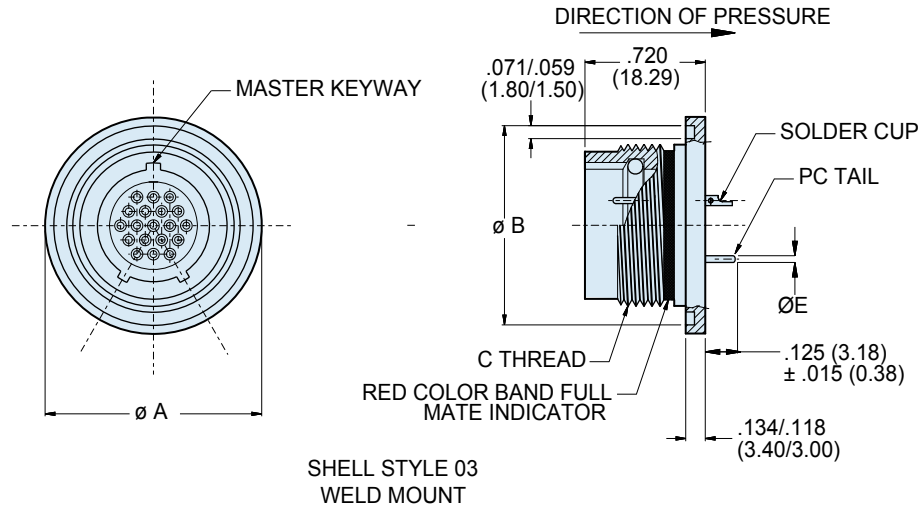
Ultraminiature Subsea Connectors

802-013-03 submersible hermetic

Weld mount receptacle



WELD MOUNT, SOLDER CUP OR PC TAIL RECEPTACLE - SHELL STYLE 03



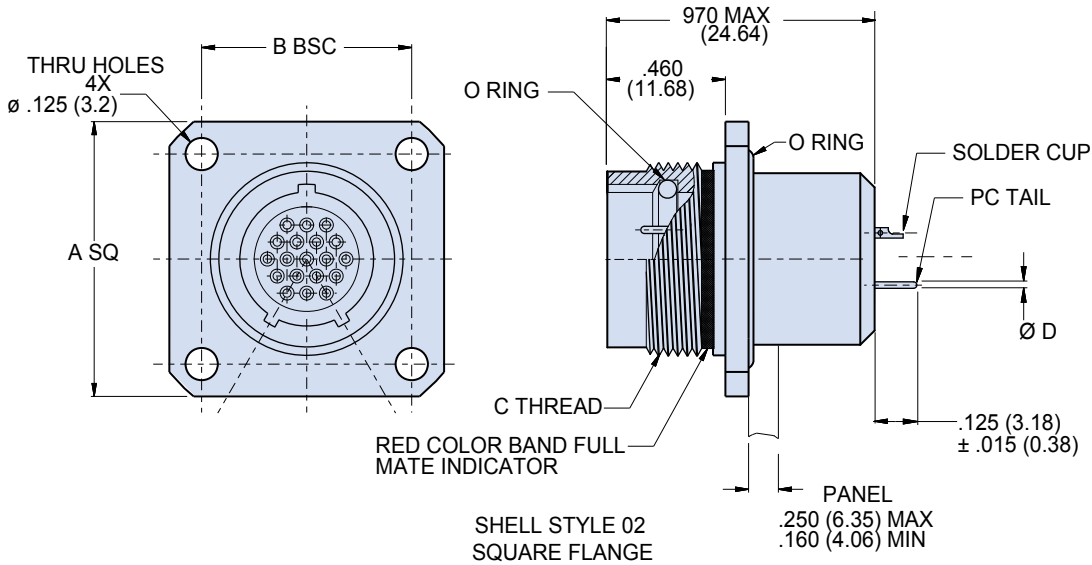
Dimensions				
Shell Size	Ø A ± .006 (.15)	Ø B ± .006 (.15)	C Mating Threads	Ø E Tail Dia.
5	.788 (20.02)	.745 (18.92)	.438-28 UNEF	#23 .018/.022 (0.46/0.56)
6	.912 (23.16)	.869 (22.07)	.562-20 UN	
7	.975 (24.76)	.933 (23.70)	.625-20 UN	
8	1.038 (26.37)	.995 (25.27)	.687-20 UN	#20 .024/.028 (0.61/0.71)
9	1.100 (27.94)	1.057 (26.85)	.750-20 UNEF	
10	1.162 (29.51)	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)	1.750 (44.45) 1.744 (44.30)	1.4375-20 UN	

SUBSEA SHALLOW WATER: AQUAMOUSE™

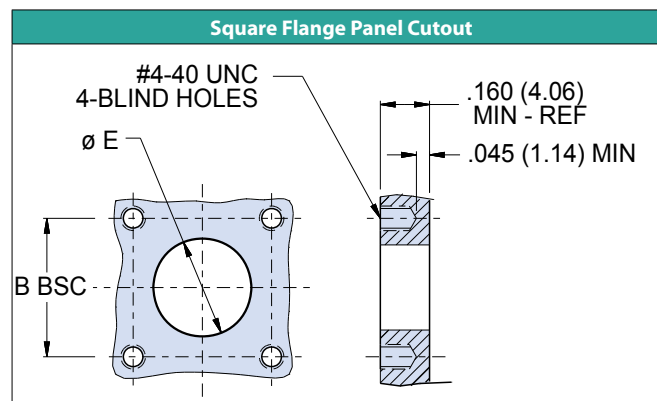


**802-013-02 submersible hermetic receptacle
 flange connector receptacle (FCR)**

SOLDER CUP OR PC TAIL FRONT PANEL MOUNT RECEPTACLE - SHELL STYLE 02



Dimensions					
Shell Size	A Square	B Bsc.	C Mating Threads	Ø D Tail Dia.	Ø E
5	.885 (22.48)	.500 (12.70)	.438-28 UNEF	#23 .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	#20 .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		.702 (17.83)
12	1.323 (33.60)	.938 (23.83)	.875-20 UNEF	#16 .060/.064 (1.52/1.63)	.765 (19.43)
14	1.510 (38.35)	1.125 (28.58)	1.062-20 UN		.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 (34.92)	1.4375-20 UN	#12 .092/.096 (2.34/2.44)	1.312 (33.32)



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