

SERIES 802, 3500 PSI SUBMERSIBLE AquaMouse Connectors and Cables



Hermetic Receptacle, 1000 PSI Open Face Rated Jam-Nut Mount Bulkhead Feedthrough



Series 802 Hermetic Jam-Nut Mount, Bulkhead Feedthrough Receptacles provide a separable hermetic connection on both sides of a mounting panel. 100% tested to meet 1×10^{-7} ccHe/sec @ 1 atm helium leak rate. Gold plated iron alloy contacts and compression glass dielectric material. The passivated, stainless steel connector shell offers excellent corrosion protection. Available with pin to pin contacts. Power applied to a given contact on one end will result in power to contact directly opposite, regardless of contact identification letter. Shell sizes 5 thru 21 have a maximum open face rated test pressure of 1,000 PSI in one direction.

How To Order														
Sample Part Number	802-064	Z1	15-85	P	P	A	04	V						
Series	802-064 = Bulkhead Feed-Thru Hermetic Receptacle													
Shell Material and Finish	Z1 = 316 Stainless Steel / Passivated													
Shell Size - Insert Arrangement	See Contact Arrangements page F-3													
Contact Type Jam-Nut Side	P = Pin													
Contact Type Opposite Side	P = Pin													
Polarization (See Table I)	A = Normal B = Pos. B C = Pos. C D = Pos. D E = Pos. E F = Pos. F													
Panel Thickness (See Table II)	-01 = .500/1.000		-02 = 1.000/1.500		-03 = 1.500/2.000		-04 = 2.000/2.500		-05 = 2.500/3.000		-06 = 3.000/3.500		-07 = 3.500/4.000	
O-ring Material	V = Viton N = Nitrile NA = No external O-rings supplied (suggested material: Nitrile)													

Panel Thickness Code	H Panel Thickness	J Maximum Length
-01	.500/1.000	2.450
-02	1.000/1.500	2.950
-03	1.500/2.000	3.450
-04	2.000/2.500	3.950
-05	2.500/3.000	4.450
-06	3.000/3.500	4.950
-07	3.500/4.000	5.450

Contact Sizes	Test Voltage
23	750 Vac
20 HD	1000 Vac
16, 12, 8	1800 Vac

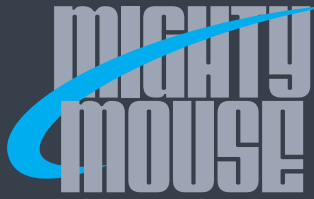
Key Position	Key Rotation	
	A°	B°
A Normal	150°	210°
B	75°	210°
C	95°	230°
D	140°	275°
E	75°	275°
F	95°	210°

NOTES

- Mates with 802 series plugs
- Electrical safety limits and maximum usage pressure to be determined by the customer
- I.R.: 5,000 megohms test(@ 500 VDC minimum)
- Hermeticity: 5×10^{-8} ccHe/sec at 1 atm

TEST REQUIREMENTS

- DWV:
 - » #23 contacts: 750 VAC pin-to-pin and pin-to-shell without breakdown
 - » #20 contacts 1000 VAC pin-to-pin and pin-to-shell without breakdown
 - » #16, #12, #8 contacts: 1800 VAC pin-to-pin and pin-to-shell without breakdown
- Insulation resistance: 5,000 megohms minimum at 500 VDC
- Factory pressure test: 3,500 PSI open-face

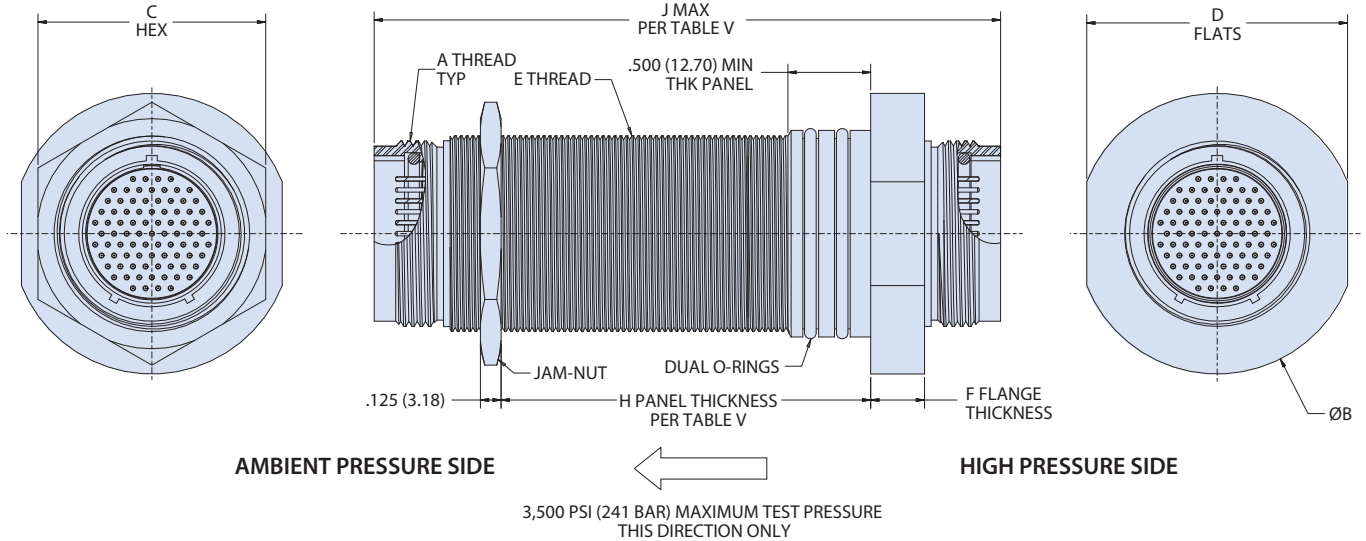


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JAM-NUT MOUNT BULKHEAD FEED-THRU



Dimensions								
Shell Size	A Thread	Ø B Max	C Hex	D Flat	E Thread	Ø G	Ext. O-Ring	F
5	.4375-28 UNEF	.950 (24.13)	.688 (17.48)	.880 (22.35) .870 (22.10)	.5000-32 UN-2A	.562 (14.27)	2-013	.260 (6.60)
6	.5625-20 UN	1.150 (29.21)	.812 (20.62)	1.010 (25.65) 1.000 (25.40)	.6250-20 UN-2A	.687 (17.45)	2-015	.260 (6.60)
7	.6250-20 UN	1.225 (31.12)	.875 (22.23)	1.080 (27.43) 1.070 (27.18)	.6875-28 UN-2A	.750 (19.05)	2-016	.260 (6.60)
8	.6875-20 UN	1.275 (32.39)	.938 (23.83)	1.140 (28.96) 1.130 (28.70)	.7500-28 UN-2A	.812 (20.62)	2-017	.260 (6.60)
9	.7500-20 UNEF	1.325 (33.65)	1.000 (25.40)	1.205 (30.61) 1.195 (30.35)	.8125-28 UN-2A	.875 (22.23)	2-018	.260 (6.60)
10	.8125-20 UNEF	1.380 (35.05)	1.000 (25.40)	1.270 (32.26) 1.260 (32.00)	.8750-28 UN-2A	.937 (23.80)	2-019	.260 (6.60)
12	.8750-20 UNEF	1.462 (37.13)	1.125 (28.58)	1.330 (33.78) 1.320 (33.53)	.9375-28 UN-2A	1.000 (25.40)	2-020	.260 (6.60)
14	1.0625-20 UN	1.650 (41.91)	1.312 (33.32)	1.520 (38.61) 1.510 (38.35)	1.1250-28 UN-2A	1.187 (30.15)	2-023	.325 (8.25)
15	1.1250-20 UN	1.700 (43.18)	1.375 (34.92)	1.580 (40.13) 1.570 (39.88)	1.1875-28 UN-2A	1.250 (31.75)	2-024	.325 (8.25)
19	1.3125-20 UN	2.000 (50.80)	1.500 (38.10)	1.855 (47.12) 1.845 (46.86)	1.3750-20 UN-2A	1.430 (36.32)	2-027	.325 (8.25)
21	1.4375-20 UN	2.165 (54.99)	1.700 (43.18)	2.015 (51.18) 2.005 (50.93)	1.5000-28 UN-2A	1.625 (41.28)	2-029	.325 (8.25)

Jam-Nut Mount Bulkhead Feed-Thru, Panel Cutout Dimensions	
Shell Size	Ø G
5	.562 (14.27)
6	.687 (17.45)
7	.750 (19.05)
8	.812 (20.62)
9	.875 (22.23)
10	.937 (23.80)
12	1.000 (25.40)
14	1.187 (30.15)
15	1.250 (31.75)
19	1.430 (36.32)
21	1.625 (41.28)

Material/Finish

- Shell, jam-nut: SST / passivated
- Pin contacts: nickel-iron alloy/gold plate
- Insulator low pressure side: rigid dielectric
- O-rings: Viton (FKM) standard
- Insulator high pressure side: vitreous glass