



## 220-07 and 220-17 High-Pressure Environmental/Hermetic Jam Nut Receptacle, Rear Box Mount

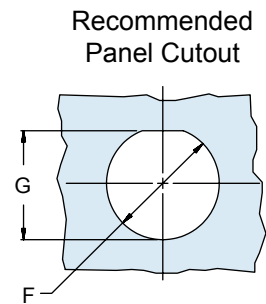
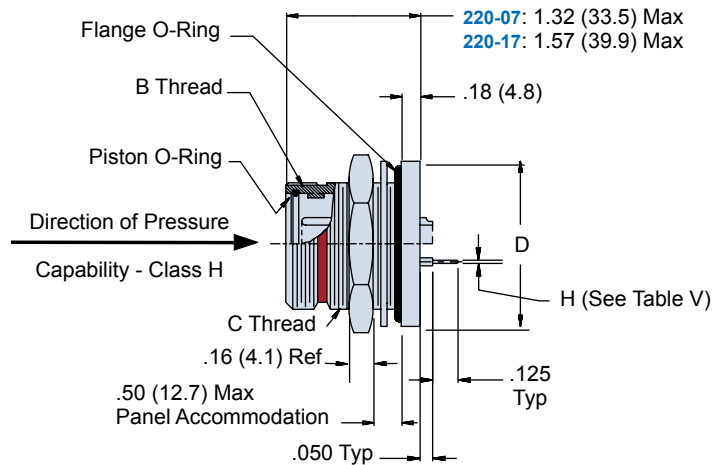
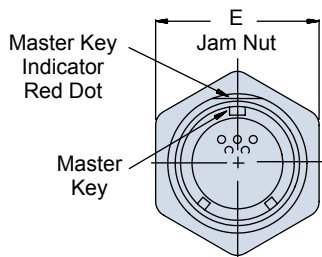
### SERIES 22 JAM NUT RECEPTACLE WITH PIN, SOCKET, PIN PCB OR SOCKET PCB CONTACTS



| How To Order                  |                                               |   |       |   |   |
|-------------------------------|-----------------------------------------------|---|-------|---|---|
| Sample Part Number            | 220-07                                        | H | 24-61 | P | N |
| Series and Shell Style        | 220-07 - Standard<br>220-17 - Scoop-Proof     |   |       |   |   |
| Class                         | H = Hermetic E = Environmental                |   |       |   |   |
| Shell Size-Insert Arrangement | See page A-6                                  |   |       |   |   |
| Contact Style                 | P = Pin S = Socket C = Pin PCB D = Socket PCB |   |       |   |   |
| Polarization                  | N, 1, 2, 3, 4 See page A-6                    |   |       |   |   |

Prior to use, lubricate O-rings with high grade silicone lubricant (Moly-kote M55 or equivalent).

B



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Table II: Dimensions

| Shell Size | B Thread Class 2A | C Thread Class 2A | D Dia       | E Flats      | F Dia $\pm .005 \pm (0.1)$ | G $\pm .005 \pm (0.1)$ |
|------------|-------------------|-------------------|-------------|--------------|----------------------------|------------------------|
| 10         | .750 - .1P - .1L  | 7/8 - 20 UNEF     | 1.25 (31.8) | 1.125 (28.6) | .885 (22.5)                | .835 (21.2)            |
| 12         | .875 - .1P - .1L  | 1 - 20 UNEF       | 1.38 (35.1) | 1.250 (31.8) | 1.010 (25.7)               | .960 (24.4)            |
| 14         | 1.000 - .1P - .1L | 1 1/8 - 16 UN     | 1.50 (38.1) | 1.500 (38.1) | 1.135 (28.8)               | 1.085 (27.6)           |
| 16         | 1.125 - .1P - .1L | 1 1/4 - 16 UN     | 1.63 (41.4) | 1.625 (41.3) | 1.260 (32.0)               | 1.210 (30.7)           |
| 18         | 1.250 - .1P - .1L | 1 3/8 - 16 UN     | 1.75 (44.5) | 1.750 (44.5) | 1.385 (35.2)               | 1.335 (33.9)           |
| 20         | 1.375 - .1P - .1L | 1 1/2 - 16 UN     | 1.88 (47.8) | 1.875 (47.6) | 1.510 (38.4)               | 1.460 (37.1)           |
| 22         | 1.500 - .1P - .1L | 1 5/8 - 16 UN     | 2.00 (50.8) | 2.000 (50.8) | 1.635 (41.5)               | 1.585 (40.3)           |
| 24         | 1.625 - .1P - .1L | 1 3/4 - 16 UN     | 2.12 (53.8) | 2.125 (54.0) | 1.760 (44.7)               | 1.710 (43.4)           |

Metric dimensions (mm) are indicated in parentheses.

Table IV: Replacement O-Ring Part Numbers \*

| Shell Size | Piston O-Ring | Flange O-Ring |
|------------|---------------|---------------|
| 10         | 2-014         | 2-020         |
| 12         | 2-016         | 2-023         |
| 14         | 2-018         | 2-025         |
| 16         | 2-020         | 2-027         |
| 18         | 2-022         | 2-029         |
| 20         | 2-024         | 2-030         |
| 22         | 2-026         | 2-031         |
| 24         | 2-028         | 2-032         |

\* Parker O-ring part numbers.  
Compound N674-70 or equivalent.

Table V: Recommended Jam Nut Installation  
Torque Values

| Shell Size | Torque $\pm 5\%$ |               |
|------------|------------------|---------------|
|            | Inch-Pounds      | Newton-Meters |
| 10         | 95               | 10.73         |
| 12         | 110              | 12.43         |
| 14         | 140              | 15.82         |
| 16         | 170              | 19.21         |
| 18         | 195              | 22.03         |
| 20         | 215              | 24.29         |
| 22         | 235              | 26.55         |
| 24         | 260              | 29.38         |

Table VI: Contact Diameter

| Contact Size | H Dia                        |
|--------------|------------------------------|
| 12           | .095/.093<br>(2.413/2.362)   |
| 16           | .0635/.0615<br>(1.613/1.549) |
| 20           | .024/.028<br>(0.711/0.610)   |
| 22D          | .021/.018<br>(0.533/0.457)   |

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