



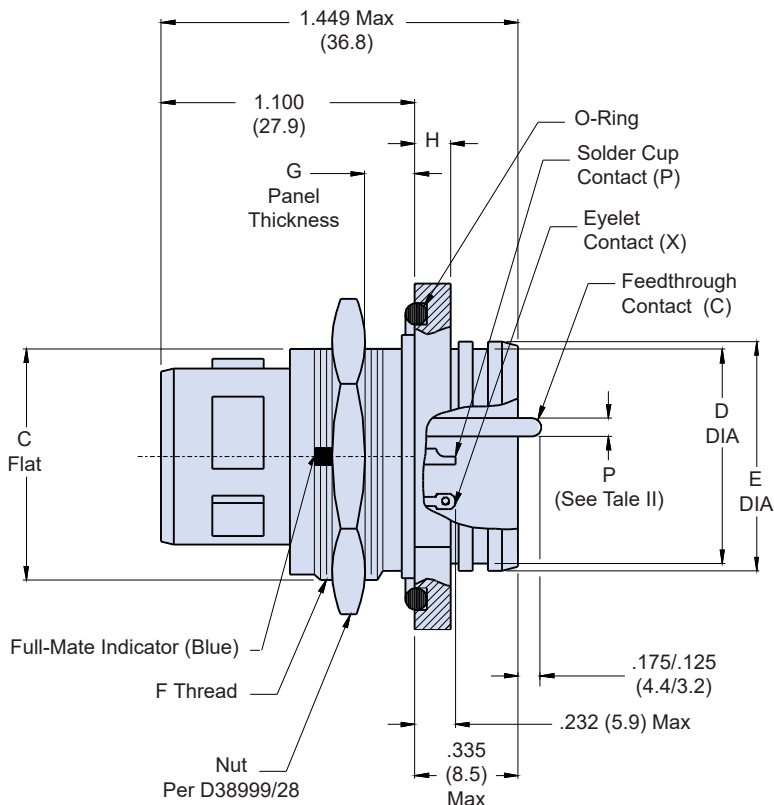
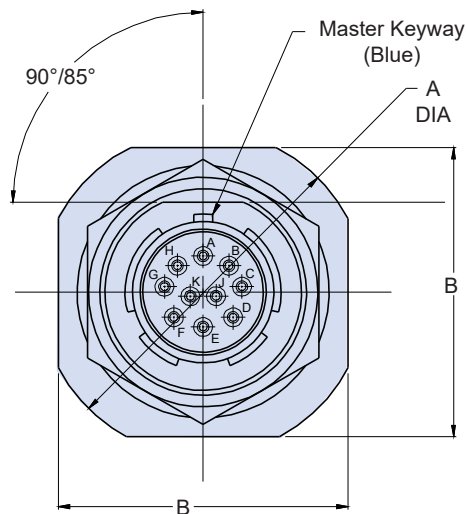
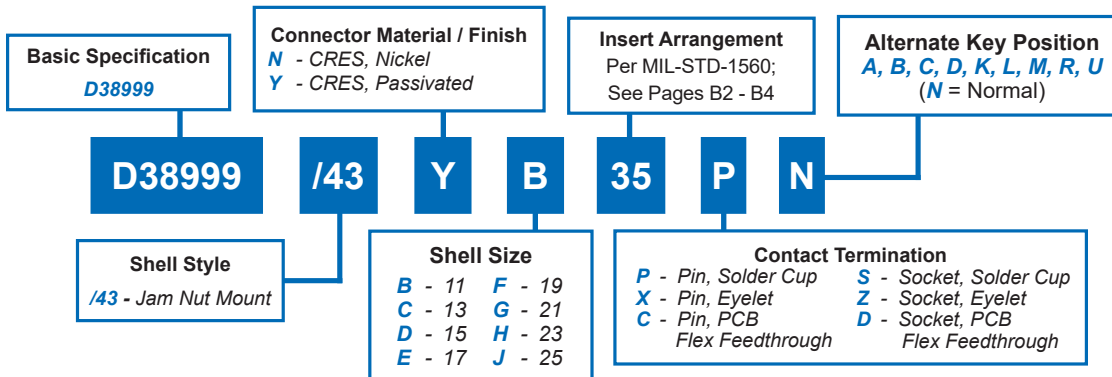
# D38999/43

## Jam Nut Mount Hermetic Receptacle

### MIL-DTL-38999 Series IV

#### How To Order: MS

B



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

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**234-100-H7**  
**Jam Nut Mount Hermetic Receptacle**  
**MIL-DTL-38999 Series IV Type**



MIL-DTL-38999 Type  
 Hermetic Connectors

**How To Order: Commercial**

|                                                    |                                                                                  |                                                     |                                                                                                                                                                     |                                                                            |
|----------------------------------------------------|----------------------------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| <b>Connector Series</b><br>234 - Series IV Type    | <b>Shell Size</b><br>H7 - Hermetic Jam Nut Mount                                 | <b>Shell Size</b><br>11, 13, 15, 17, 19, 21, 23, 25 | <b>Contact Termination</b><br>P - Pin, Solder Cup    S - Socket, Solder Cup<br>X - Pin, Eyelet        Z - Socket, Eyelet<br>C - Pin, PCB            D - Socket, PCB |                                                                            |
| <b>234</b>                                         | <b>100</b>                                                                       | <b>H7</b>                                           | <b>Z1</b>                                                                                                                                                           | <b>11 - 35</b>                                                             |
| <b>Connector Type</b><br>100 - Hermetic Receptacle | <b>Connector Material / Finish</b><br>ZL - CRES, Nickel<br>Z1 - CRES, Passivated |                                                     | <b>Insert Arrangement</b><br>Per MIL-STD-1560;<br>See Pages B-2 - B-4                                                                                               | <b>Alternate Key Position</b><br>A, B, C, D, K, L, M, R, U<br>(N = Normal) |
|                                                    |                                                                                  |                                                     | <b>P</b>                                                                                                                                                            | <b>N</b>                                                                   |

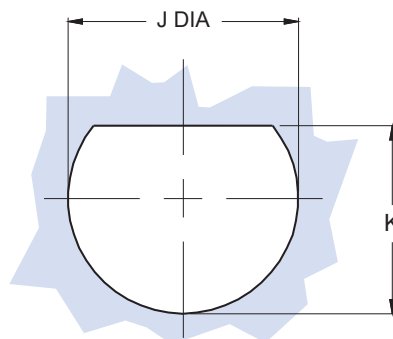
**B**

**TABLE I: CONNECTOR DIMENSIONS**

| SHELL SIZE CODE | SHELL SIZE | A DIA.<br>+.024<br>-.000   | B FLATS<br>±.017(0.5) | C FLAT                         | D DIA                      | E DIA<br>±.010(0.3) | F THREAD<br>ISO METRIC | G<br>±.033(0.8) | H<br>±.012(0.3) |
|-----------------|------------|----------------------------|-----------------------|--------------------------------|----------------------------|---------------------|------------------------|-----------------|-----------------|
| B               | 11         | 1.362(34.6)                | 1.250(31.8)           | .754(19.2)<br>.744(18.90)      | .732(18.59)<br>.716(18.2)  | .769(19.5)          | M20 X 1.0-6g           | .092(2.3)       | .106(2.7)       |
| C               | 13         | 1.511(38.4)<br>1.488(37.8) | 1.376(35.0)           | .941(23.9)<br>.931(23.7)       | .858(21.8)<br>.839(21.3)   | .899(22.8)          | M25 X 1.0-6g           | .092(2.3)       | .106(2.7)       |
| D               | 15         | 1.637(41.6)<br>1.614(41.0) | 1.502(38.2)           | 1.066(27.1)<br>1.056(26.8)     | .984(25.0)<br>.968(24.6)   | 1.025(26.0)         | M28 X 1.0-6g           | .092(2.3)       | .106(2.7)       |
| E               | 17         | 1.763(44.8)<br>1.740(44.2) | 1.624(41.2)           | 1.191(48.5)<br>1.181(46.0)     | 1.110(28.2)<br>1.091(27.7) | 1.147(29.1)         | M32 X 1.0-6g           | .092(2.3)       | .106(2.7)       |
| F               | 19         | 1.948(49.5)<br>1.925(48.9) | 1.813(46.1)           | 1.316 (33.43)<br>1.306 (33.17) | 1.236(31.4)<br>1.220(31.0) | 1.273(32.3)         | M35 X 1.0-6g           | .092(2.3)       | .137(3.5)       |
| G               | 21         | 2.074(52.7)<br>2.051(52.1) | 1.939(49.3)           | 1.441 (36.60)<br>1.431 (36.35) | 1.358(34.5)<br>1.342(34.1) | 1.399(35.5)         | M38 X 1.0-6g           | .092(2.3)       | .137(3.5)       |
| H               | 23         | 2.200(55.9)<br>2.177(55.3) | 2.061(52.3)           | 1.565 (39.75)<br>1.556 (39.52) | 1.484(37.7)<br>1.468(37.3) | 1.525(38.7)         | M41 X 1.0-6g           | .092(2.3)       | .137(3.5)       |
| J               | 25         | 2.326(59.1)<br>2.299(58.4) | 2.187(55.5)           | 1.692 (42.98)<br>1.681 (42.70) | 1.610(40.9)<br>1.594(40.5) | 1.647(41.8)         | M44 X 1.0-6g           | .092(2.3)       | .137(3.5)       |

**TABLE I (CONTINUED):  
CUT-OUT DIMENSIONS**

| SHELL SIZE CODE | J DIA<br>+.010/-0.000 | K<br>±.005 (0.1) |
|-----------------|-----------------------|------------------|
| B               | .825 (20.96)          | .766 (19.59)     |
| C               | 1.010 (25.65)         | .950 (24.26)     |
| D               | 1.135 (28.83)         | 1.080 (27.56)    |
| E               | 1.260 (32.01)         | 1.205 (30.73)    |
| F               | 1.385 (35.18)         | 1.330 (33.91)    |
| G               | 1.510 (38.35)         | 1.455 (37.08)    |
| H               | 1.635 (41.53)         | 1.580 (40.26)    |
| J               | 1.760 (44.70)         | 1.705 (43.43)    |



**Recommended Panel  
Cut-Out**

**HERMETIC LEAK RATE MOD CODES**

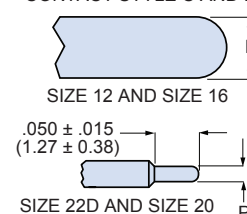
| Designator | Required Leak Rate                         |
|------------|--------------------------------------------|
| -585A      | 1 x 10 <sup>-10</sup> cc Helium per second |
| -585B      | 1 x 10 <sup>-9</sup> cc Helium per second  |
| -585C      | 1 x 10 <sup>-8</sup> cc Helium per second  |

**WIRE ACCOMODATION**

| Contact Size | Wire Gauge |
|--------------|------------|
| 22D          | #22 - #28  |
| 20           | #20 - #24  |
| 16           | #16 - #20  |
| 12           | #12 - #14  |

**TABLE II: CONTACT SIZE**

PRINTED CIRCUIT TAIL  
 CONFIGURATIONS  
 CONTACT STYLE C AND D



| Contact Size | ø P                          |
|--------------|------------------------------|
| 22D          | .011 (0.28)<br>.015 (0.38)   |
| 20           | .024 (0.61)<br>.028 (0.71)   |
| 16           | .0635 (1.61)<br>.0615 (1.56) |
| 12           | .095 (2.41)<br>.093 (2.36)   |

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

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