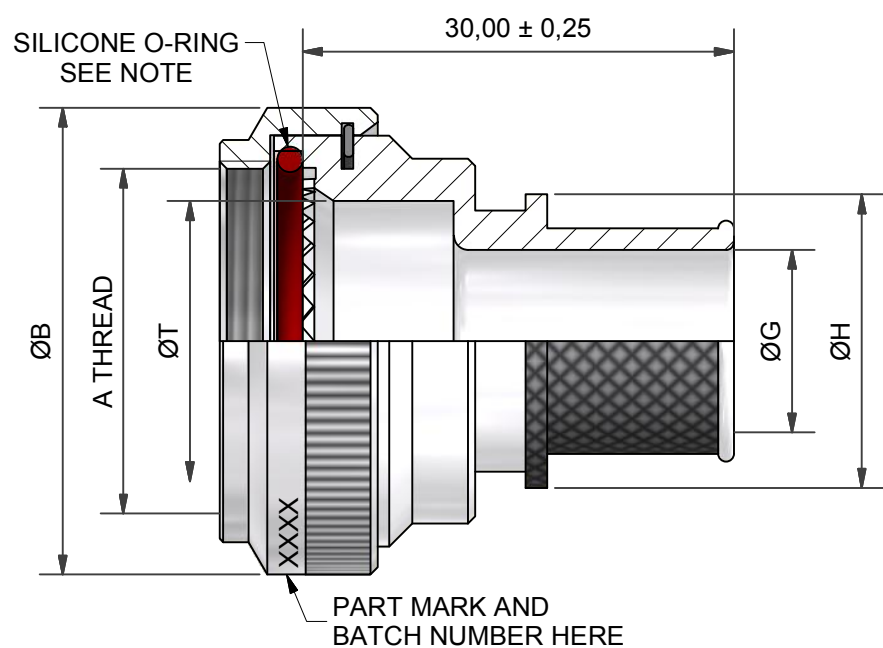
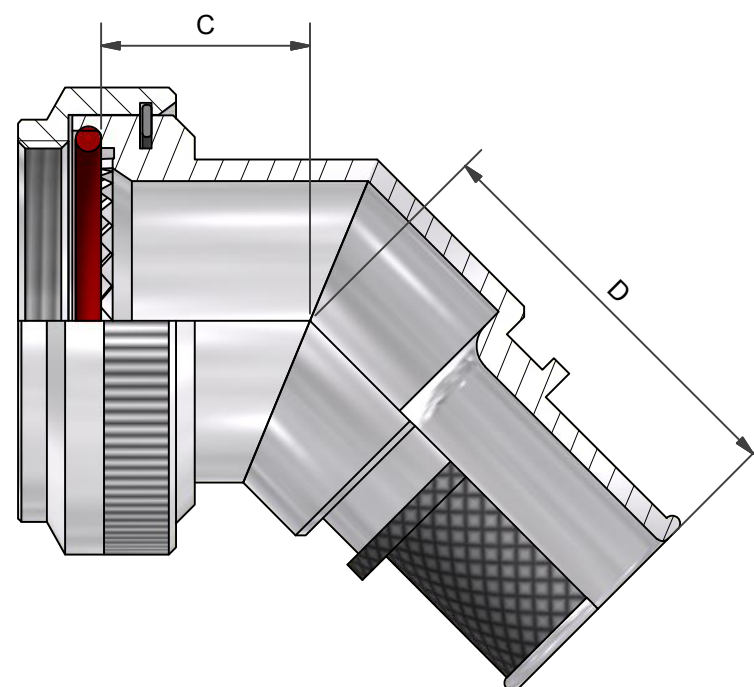
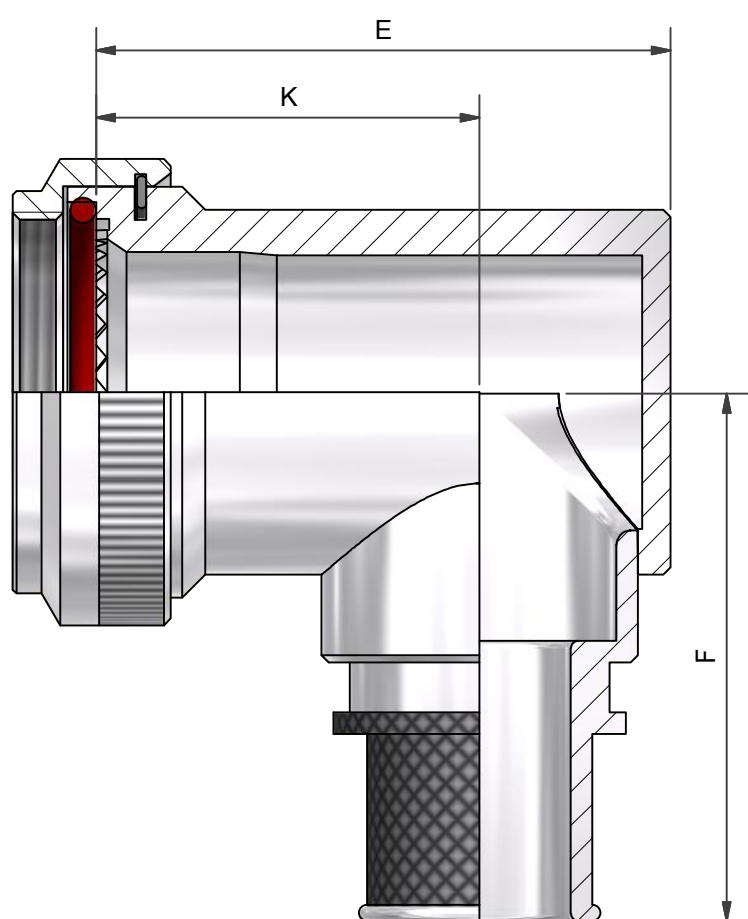




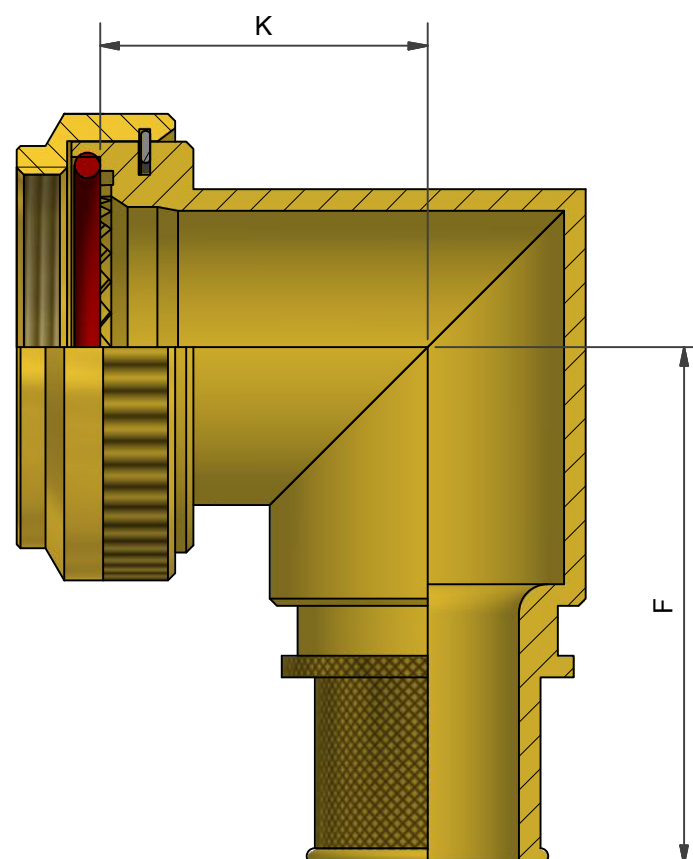
ANGLE 1



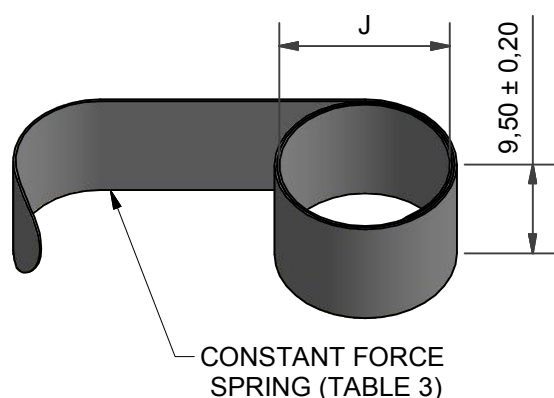
ANGLE 2



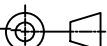
ANGLE 3  
90° BACKSHELL  
ALUMINIUM ALLOY



ANGLE 3  
90° BACKSHELL  
STAINLESS STEEL  
NICKEL ALUMINIUM BRONZE



CONSTANT FORCE  
SPRING (TABLE 3)

|                  |                  |               |  |                                                                                                                                                                                  |                                             |                                                                 |  |          |                                                                                                             |                       |
|------------------|------------------|---------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-----------------------------------------------------------------|--|----------|-------------------------------------------------------------------------------------------------------------|-----------------------|
| DRAWN            |                  | DATE          |  |  <div>3RD ANGLE<br/>PROJECTION<br/>NOT TO<br/>SCALE</div>                                     | PART NUMBER:<br><br>91H SERIES              |                                                                 |  |          | <br>Polamco            |                       |
| K.K-W            |                  | 19/09/2017    |  |                                                                                                                                                                                  |                                             |                                                                 |  |          |                                                                                                             |                       |
| DESIGN APPROVAL  |                  | DATE          |  | UNLESS OTHERWISE SPECIFIED<br>ALL DIMENSIONS IN MILLIMETRES<br>GENERAL TOL<br>LINEAR +/-0.25MM<br>ANGULAR +/- 1°                                                                 | TITLE:<br><br>SPRING BACKSHELL              |                                                                 |  |          |                                                                                                             |                       |
| K.SHEPPARD       |                  | 19/09/2017    |  |                                                                                                                                                                                  |                                             |                                                                 |  |          |                                                                                                             |                       |
| DOC<br>TYPE      | Customer Drawing |               |  | MATERIAL<br><br>SEE PART NUMBER<br>BREAKDOWN<br><br>FINISH<br><br>SEE PART NUMBER<br>BREAKDOWN                                                                                   | ASSY USED ON: MIL-DTL-38999 SERIES III & IV |                                                                 |  |          | <br>TE<br>connectivity |                       |
| ISSUE<br>6       | REV.<br>1        | DCR<br>6624   |  |                                                                                                                                                                                  |                                             |                                                                 |  |          |                                                                                                             |                       |
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|            |           |        |        |       |       |       |       |        |       | THESE DIMENSIONS APPLY IF BACKSHELL IS STAINLESS STEEL OR NICKEL ALUMINIUM BRONZE |
|------------|-----------|--------|--------|-------|-------|-------|-------|--------|-------|-----------------------------------------------------------------------------------|
| SHELL SIZE | A THREAD  | ØB MAX | ØT MIN | C MAX | D MAX | E MAX | F MAX | K ±0,5 | F MAX | K ±1,0                                                                            |
| 09         | M12 x 1.0 | 18,0   | 6,7    | 13,1  | 25,7  | 25,7  | 30,5  | 17,5   | 32,9  | 15,9                                                                              |
| 11         | M15 x 1.0 | 21,0   | 10,2   | 13,9  | 26,9  | 26,7  | 32,2  | 17,5   | 34,1  | 17,3                                                                              |
| 13         | M18 x 1.0 | 24,5   | 13,5   | 14,5  | 27,3  | 31,2  | 33,7  | 20,0   | 35,3  | 19,1                                                                              |
| 15         | M22 x 1.0 | 29,0   | 16,2   | 15,5  | 28,2  | 37,2  | 35,2  | 24,5   | 37,1  | 21,2                                                                              |
| 17         | M25 x 1.0 | 32,5   | 19,4   | 16,1  | 29,0  | 40,2  | 36,9  | 26,7   | 39,0  | 22,8                                                                              |
| 19         | M28 x 1.0 | 35,5   | 21,8   | 16,8  | 29,3  | 44,7  | 38,5  | 27,0   | 40,8  | 24,9                                                                              |
| 21         | M31 x 1.0 | 37,0   | 25,1   | 17,1  | 30,1  | 49,2  | 40,1  | 30,5   | 42,5  | 25,6                                                                              |
| 23         | M34 x 1.0 | 40,0   | 28,2   | 17,7  | 30,5  | 51,7  | 41,6  | 31,5   | 43,9  | 27,1                                                                              |
| 25         | M37 x 1.0 | 43,5   | 31,4   | 18,4  | 31,4  | 53,2  | 43,1  | 28,5   | 45,3  | 28,6                                                                              |

| ENTRY SIZE | ØG MIN | ØH MAX | SPRING REF |
|------------|--------|--------|------------|
| 03         | 4,7    | 13,9   | HE050      |
| 04         | 6,3    | 13,9   | HE050      |
| 05         | 7,9    | 15,5   | HE100      |
| 06         | 9,5    | 17,2   | HE100      |
| 07         | 11,1   | 18,7   | HE100      |
| 08         | 12,7   | 20,3   | HE200      |
| 09         | 14,2   | 21,9   | HE200      |
| 10         | 15,8   | 23,5   | HE200      |
| 11         | 17,4   | 25,1   | HE200      |
| 12         | 19,0   | 26,7   | HE300      |
| 13         | 20,6   | 28,3   | HE300      |
| 14         | 22,2   | 29,9   | HE300      |
| 15         | 23,8   | 31,5   | HE300      |
| 16         | 25,4   | 33,1   | HE300      |
| 17         | 27,0   | 34,7   | HE400      |
| 18         | 28,6   | 36,3   | HE400      |
| 19         | 30,2   | 37,9   | HE400      |
| 20         | 31,8   | 39,5   | HE400      |
| 21         | 33,3   | 41,1   | HE400      |
| 22         | 35,0   | 42,7   | HE400      |
| 23         | 36,5   | 44,3   | HE400      |
| 24         | 38,1   | 45,9   | HE400      |

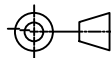
| SPRING REF | J MAX (UNCONSTRAINED) |
|------------|-----------------------|
| HE 050     | 7,5                   |
| HE 100     | 9,1                   |
| HE 200     | 12,8                  |
| HE 300     | 17,9                  |
| HE 400     | 21,8                  |

| CODE | MATERIAL / FINISH                                               |
|------|-----------------------------------------------------------------|
| 1-C  | ALUMINIUM / ELECTROLESS NICKEL                                  |
| 1-B  | ALUMINIUM / CADMIUM OLIVE DRAB OVER ELECTROLESS NICKEL          |
| 1-ZB | ALUMINIUM / ZINC COBALT OLIVE DRAB OVER ELECTROLESS NICKEL      |
| 1-ZK | ALUMINIUM / ZINC COBALT BLACK OVER ELECTROLESS NICKEL           |
| 1-ZN | ALUMINIUM / ZINC NICKEL BLACK PASSIVATE OVER ELECTROLESS NICKEL |
| 4-J  | STAINLESS STEEL 300 SERIES / PASSIVATE                          |
| 46-J | STAINLESS STEEL 316 / PASSIVATE                                 |
| 2-Z  | NICKEL ALUMINIUM BRONZE / SHOT BLAST                            |

SEE SS0076 FOR FULL RANGE OF FINISH OPTIONS  
NOTE: VITON O-RING SUPPLIED WITH STAINLESS BACKSHELL

91H1-17-08-1-C-HE200

SERIES \_\_\_\_\_  
CONNECTOR INTERFACE \_\_\_\_\_  
ANGLE \_\_\_\_\_  
SHELL SIZE (TABLE 1) \_\_\_\_\_  
ENTRY SIZE (TABLE 2) \_\_\_\_\_  
MATERIAL AND FINISH (TABLE 4) \_\_\_\_\_  
SPRING REF (TABLE 3) \_\_\_\_\_  
OMIT IF NO SPRING REQUIRED

|                  |                  |               |  |                                                                                                                                                                               |                                             |                                                                 |                  |                       |                                                                                                                                                                                           |
|------------------|------------------|---------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-----------------------------------------------------------------|------------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DRAWN            |                  | DATE          |  |                                                                                            | PART NUMBER:                                |                                                                 | 91H SERIES       |                       | <br>Polamco<br> |
| K.K-W            |                  | 19/09/2017    |  |                                                                                                                                                                               |                                             |                                                                 |                  |                       |                                                                                                                                                                                           |
| DESIGN APPROVAL  |                  | DATE          |  |                                                                                                                                                                               |                                             |                                                                 |                  |                       |                                                                                                                                                                                           |
| K.SHEPPARD       |                  | 19/09/2017    |  | UNLESS OTHERWISE SPECIFIED<br>ALL DIMENSIONS IN MILLIMETRES<br>GENERAL TOL<br>LINEAR +/-0,25MM<br>ANGULAR +/- 1°                                                              | TITLE:                                      |                                                                 | SPRING BACKSHELL |                       |                                                                                                                                                                                           |
| DOC TYPE         | Customer Drawing |               |  | MATERIAL<br><br>SEE PART NUMBER BREAKDOWN<br><br>FINISH<br><br>SEE PART NUMBER BREAKDOWN                                                                                      |                                             |                                                                 |                  |                       |                                                                                                                                                                                           |
| ISSUE            | REV.             | DCR           |  |                                                                                                                                                                               | ASSY USED ON: MIL-DTL-38999 SERIES III & IV |                                                                 |                  |                       |                                                                                                                                                                                           |
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| NCAGE CODE U5792 |                  | WEIGHT<br>N/A |  |                                                                                                                                                                               |                                             |                                                                 |                  |                       |                                                                                                                                                                                           |

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