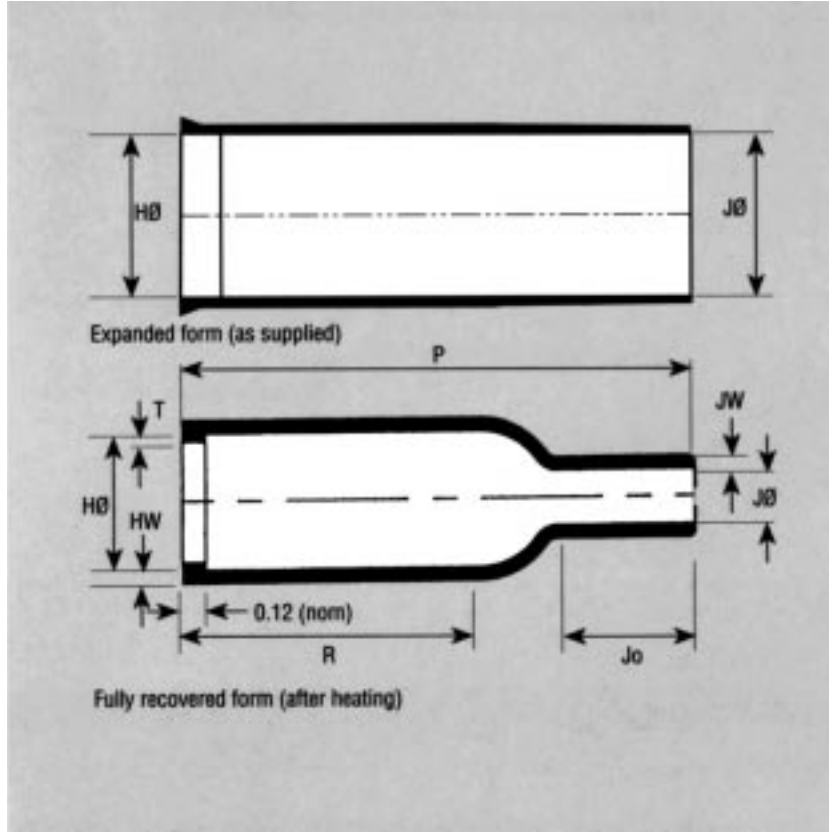


# 100 SERIES

## BOTTLE SHAPES WITH RIB MIL STYLE



This style is used in conjunction with a circular grooved adaptor providing strain relief and environmental sealing.

Dimensions apply to all materials unless otherwise indicated and are in inches.

| MIL Spec No. | Hellermann Part No. | Expanded (Min) |           |      |           | Rec'd (Max) |      | Recovered dimensions fully shrunk |        |         |         |         |        |
|--------------|---------------------|----------------|-----------|------|-----------|-------------|------|-----------------------------------|--------|---------|---------|---------|--------|
|              |                     | H              | H -H matl | J    | J -H matl | H           | J    | P ±10%                            | R ±10% | Jo ±10% | HW ±10% | JW ±10% | T ±10% |
| —            | 1009-1              | 0.35           | 0.35      | 0.16 | 0.16      | 0.22        | 0.13 | 1.06                              | 0.55   | 0.29    | 0.40    | 0.20    | 0.35   |
| —            | 113-4               | 0.42           | 0.42      | 0.18 | 0.18      | 0.31        | 0.08 | 1.00                              | 0.57   | 0.18    | 0.05    | 0.05    | 0.04   |
| —            | 104-4               | 0.65           | 0.65      | 0.65 | 0.65      | 0.31        | 0.15 | 1.00                              | 0.56   | 0.27    | 0.05    | 0.05    | 0.04   |
| MS 3109-11-  | * 105-4             | 0.92           | 0.92      | 0.92 | 0.92      | 0.41        | 0.22 | 1.50                              | 0.90   | 0.40    | 0.06    | 0.06    | 0.04   |
| MS 3109-12-  | * 106-4             | 1.22           | N/A       | 1.22 | N/A       | 0.56        | 0.26 | 2.17                              | 0.90   | 0.40    | 0.06    | 0.06    | 0.04   |
| MS 3109-13-  | * 101-4             | 1.22           | 1.22      | 1.22 | 1.22      | 0.70        | 0.28 | 2.60                              | 1.50   | 0.70    | 0.08    | 0.08    | 0.04   |
| MS 3109-14-  | * 102-4             | 1.42           | 1.42      | 1.42 | 1.42      | 0.88        | 0.33 | 2.90                              | 1.70   | 0.70    | 0.07    | 0.07    | 0.04   |
| MS 3109-15-  | * 103-4             | 1.68           | 1.68      | 1.68 | 1.68      | 1.11        | 0.39 | 3.90                              | 2.50   | 0.86    | 0.08    | 0.08    | 0.07   |
| MS 3109-16   | * 107-4             | 2.04           | 2.04      | 2.04 | 2.04      | 1.38        | 0.62 | 4.90                              | 2.60   | 1.60    | 0.12    | 0.12    | 0.07   |
| MS 3109-17   | 118-4               | 2.60           | 2.60      | 2.60 | 2.60      | 1.75        | 0.80 | 6.32                              | 3.60   | 1.90    | 0.15    | 0.15    | 0.08   |

| MATERIALS AVAILABLE |                       |                                       |
|---------------------|-----------------------|---------------------------------------|
| Reference           | Specification         | Description                           |
| J                   | * MIL-I-81765/TYPE II | Flexible polyolefin                   |
| B7                  | * MIL-I-81765/TYPE I  | Semi-rigid flame retarded polyolefin  |
| G                   | VG 95343 PART 6       | Fluid resistant elastomer             |
| H                   | NAVSEA 5617649        | Flexible limited fire hazard material |

| ADHESIVE COATING OPTIONS |                                  |
|--------------------------|----------------------------------|
| Reference                | Description                      |
| WM250                    | General purpose hot melt +80°C   |
| W8                       | High performance hot melt +105°C |

For ordering procedure – refer to page 5

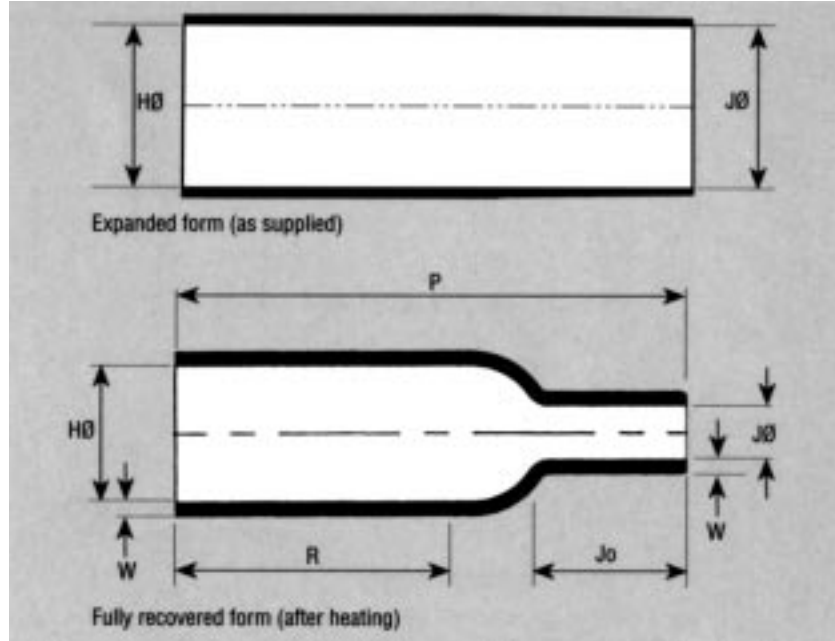
\* Standard products and material.

# 100 SERIES

BOTTLE SHAPES  
WITHOUT RIB



This style is used for cable strain relief and mechanical protection. Product can be installed on the connector rear thread or plain shaft.



Dimensions apply to all materials unless otherwise indicated and are in inches.

| Hellermann Part No. | Expanded (Min) |              |      |              | Recovered (Max) |      | Recovered dimensions fully shrunk |           |            |           |
|---------------------|----------------|--------------|------|--------------|-----------------|------|-----------------------------------|-----------|------------|-----------|
|                     | H              | H<br>-H matl | J    | J<br>-H matl | H               | J    | P<br>±10%                         | R<br>±10% | Jo<br>±10% | W<br>±20% |
| * 104-1             | 0.65           | 0.65         | 0.65 | 0.65         | 0.31            | 0.15 | 1.00                              | 0.56      | 0.27       | 0.05      |
| * 104-2             | 0.42           | 0.33         | 0.33 | 0.33         | 0.31            | 0.15 | 1.00                              | 0.56      | 0.27       | 0.05      |
| * 105-1             | 0.92           | 0.92         | 0.92 | 0.92         | 0.41            | 0.22 | 1.50                              | 0.90      | 0.40       | 0.06      |
| * 105-2             | 0.54           | 0.54         | 0.46 | 0.46         | 0.41            | 0.22 | 1.50                              | 0.90      | 0.40       | 0.06      |
| * 106-1             | 1.22           | 0.00         | 1.22 | 0.00         | 0.56            | 0.26 | 2.18                              | 1.04      | 0.65       | 0.07      |
| * 106-2             | 0.76           | 0.76         | 0.56 | 0.56         | 0.56            | 0.26 | 2.18                              | 1.04      | 0.65       | 0.07      |
| * 101-1             | 1.22           | 1.22         | 1.22 | 1.22         | 0.70            | 0.28 | 2.60                              | 1.50      | 0.70       | 0.07      |
| * 101-2             | 0.94           | 0.94         | 0.61 | 0.61         | 0.70            | 0.28 | 2.60                              | 1.50      | 0.70       | 0.07      |
| * 102-1             | 1.42           | 0.00         | 1.42 | 0.00         | 0.88            | 0.33 | 2.90                              | 1.70      | 0.70       | 0.07      |
| * 102-2             | 1.18           | 1.18         | 0.71 | 0.71         | 0.88            | 0.33 | 2.90                              | 1.70      | 0.70       | 0.07      |
| * 103-1             | 1.68           | 1.68         | 1.68 | 1.68         | 1.11            | 0.39 | 3.76                              | 2.13      | 0.94       | 0.08      |
| * 103-2             | 1.49           | 1.49         | 0.84 | 0.84         | 1.11            | 0.39 | 3.76                              | 2.13      | 0.94       | 0.08      |
| * 107-1             | 2.04           | 2.04         | 2.04 | 2.04         | 1.38            | 0.62 | 4.90                              | 2.60      | 1.60       | 0.12      |
| * 107-2             | 1.85           | 1.85         | 1.40 | 1.40         | 1.38            | 0.62 | 4.90                              | 2.60      | 1.60       | 0.12      |
| 118-1               | 2.60           | 2.60         | 2.60 | 2.60         | 1.75            | 0.80 | 6.32                              | 3.60      | 1.90       | 0.15      |
| 119-1               | 3.40           | 3.40         | 3.40 | 3.40         | 2.25            | 1.05 | 8.25                              | 4.65      | 2.40       | 0.18      |
| 119-2               | 3.20           | 3.20         | 2.19 | 2.19         | 2.25            | 1.05 | 8.25                              | 4.65      | 2.40       | 0.18      |

### MATERIALS AVAILABLE

| Reference | Specification         | Description                           |
|-----------|-----------------------|---------------------------------------|
| J         | * MIL-I-81765/TYPE II | Flexible polyolefin                   |
| B7        | * MIL-I-81765/TYPE I  | Semi-rigid flame retarded polyolefin  |
| G         | VG 95343 PART 6       | Fluid resistant elastomer             |
| H         | NAVSEA 5617649        | Flexible limited fire hazard material |

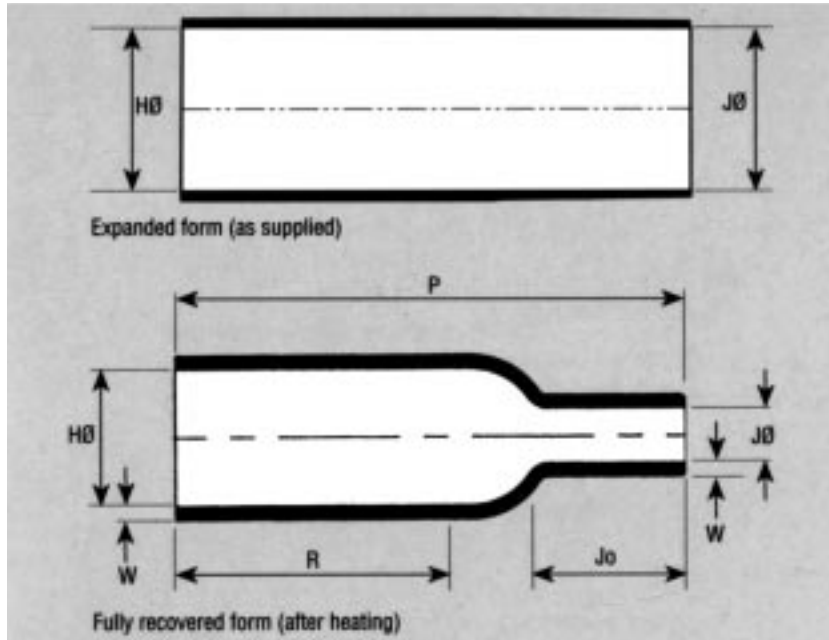
### ADHESIVE COATING OPTIONS

| Reference | Description                      |
|-----------|----------------------------------|
| WM250     | General purpose hot melt +80°C   |
| W8        | High performance hot melt +105°C |

For ordering procedure – refer to page 5

\* Standard products and materials.

# 100 SERIES BOTTLE SHAPES WITHOUT RIB (THICK WALL)



This style is used for cable strain relief and mechanical protection. Product can be installed on the connector rear thread or plain shaft.

Dimensions apply to all materials unless otherwise indicated and are in inches.

| Hellermann Part No. | Expanded (Min) |              |      |              | Rec'd (Max) |      | Recovered dimensions fully shrunk |           |            |            |            |
|---------------------|----------------|--------------|------|--------------|-------------|------|-----------------------------------|-----------|------------|------------|------------|
|                     | H              | H<br>-H matl | J    | J<br>-H matl | H           | J    | P<br>±10%                         | R<br>±10% | Jo<br>±10% | HW<br>±20% | JW<br>±20% |
| * 113-1             | 0.42           | 0.42         | 0.18 | 0.18         | 0.31        | 0.08 | 1.00                              | 0.57      | 0.18       | 0.05       | 0.04       |
| * 113-2             | 0.79           | 0.79         | 0.23 | 0.23         | 0.31        | 0.08 | 1.00                              | 0.57      | 0.18       | 0.05       | 0.04       |
| 108-1               | 0.54           | 0.54         | 0.26 | 0.26         | 0.41        | 0.10 | 1.50                              | 0.90      | 0.30       | 0.06       | 0.04       |
| 108-2               | 1.10           | 1.10         | 0.31 | 0.31         | 0.41        | 0.10 | 1.50                              | 0.90      | 0.30       | 0.06       | 0.04       |
| 109-1               | 0.76           | 0.76         | 0.32 | 0.32         | 0.56        | 0.16 | 2.10                              | 1.40      | 0.30       | 0.08       | 0.05       |
| 109-2               | 1.50           | 1.50         | 0.46 | 0.46         | 0.56        | 0.16 | 2.10                              | 1.40      | 0.30       | 0.08       | 0.05       |
| 110-1               | 0.94           | 0.94         | 0.46 | 0.46         | 0.70        | 0.22 | 2.50                              | 1.50      | 0.50       | 0.10       | 0.06       |
| 110-2               | 2.00           | 2.00         | 0.67 | 0.67         | 0.70        | 0.22 | 2.50                              | 1.50      | 0.50       | 0.10       | 0.06       |
| 111-1               | 1.18           | 1.18         | 0.58 | 0.58         | 0.88        | 0.28 | 3.00                              | 1.70      | 0.60       | 0.12       | 0.07       |
| 111-2               | 2.50           | 2.50         | 0.84 | 0.84         | 0.88        | 0.28 | 3.00                              | 1.70      | 0.60       | 0.12       | 0.07       |
| 116-1               | 2.34           | 2.34         | 1.72 | 1.72         | 1.75        | 0.82 | 6.25                              | 3.60      | 1.65       | 0.22       | 0.18       |

| MATERIALS AVAILABLE |                       |                                       |
|---------------------|-----------------------|---------------------------------------|
| Reference           | Specification         | Description                           |
| J                   | * MIL-I-81765/TYPE II | Flexible polyolefin                   |
| B7                  | * MIL-I-81765/TYPE I  | Semi-rigid flame retarded polyolefin  |
| G                   | VG 95343 PART 6       | Fluid resistant elastomer             |
| H                   | NAVSEA 5617649        | Flexible limited fire hazard material |

| ADHESIVE COATING OPTIONS |                                  |
|--------------------------|----------------------------------|
| Reference                | Description                      |
| WM250                    | General purpose hot melt +80°C   |
| W8                       | High performance hot melt +105°C |

For ordering procedure – refer to page 5

\* Standard products and materials.