

|                              |                           |
|------------------------------|---------------------------|
| <b>DATA SHEET</b>            | 53112000                  |
| <b>SKINTOP® MS-M / MSR-M</b> | valid from:<br>19.01.2016 |

The SKINTOP® MS-M / MSR-M is a nickel-plated brass cable gland with metric connecting thread which combines high quality regarding consistency and reliability. It is especially designed for use in manufacturing of machines and equipment, in measuring, controlling as well as in the pharmaceutical industry and for medical equipment. The sizes SKINTOP® MS-M / MSR-M75x1,5, M90x2, M110x2 with innovative double lamella insert for easier assembling of cables with larger diameters. Proven functionality also during hardest cleaning procedures at industrial machinery with high-pressure cleaners and hot water.



#### Components:

|                           |                               |
|---------------------------|-------------------------------|
| Gland body                | Brass, nickel-plated          |
| Cap nut                   | Brass, nickel-plated          |
| Insert with lamellar cage | Polyamide, V-2 acc. to UL 94  |
| Sealing ring              | CR (ozone- and UV-resistant)  |
| O-ring                    | NBR (ozone- and UV-resistant) |

#### Technical features:

|                                         |                                                                                                           |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Connecting thread                       | M12x1.5 up to M110x2 acc. to EN 60423 Tab.1                                                               |
| Protection class / NEMA Enclosure types | IP68 – 10 bar, test acc. to EN 60529<br>IP69 acc. to EN 60529<br>NEMA Type 1, Type 4x, Type 6 and Type 12 |
| Strain relief                           | Cat. A according to EN 50262                                                                              |
| Temperature range                       | Dynamic -25°C up to +100°C<br>Statically -40°C up to +100°C                                               |
| Design                                  | MS-M standard<br>MSR-M with reducing sealing ring (for smaller cable diameters)                           |

#### Other characteristics:

Maximum reliability  
Optimal strain relief  
Large, variable clamping ranges

#### Approvals:



UL File Nr. 79903  
VDE, UL, DNV for sizes M90, M110 in pending

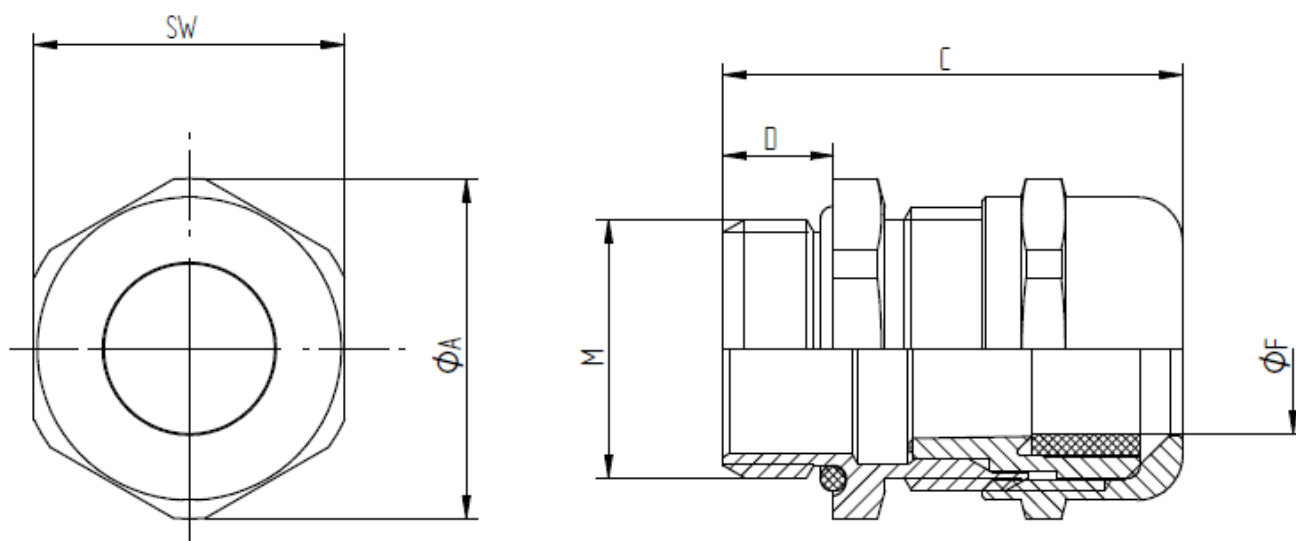
#### Norm references:



For more information please see our current catalogue.

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| elaborated by:<br>PDP: T. Dvouletý | Document: DB53112000_17EN | page 1 of 3 |
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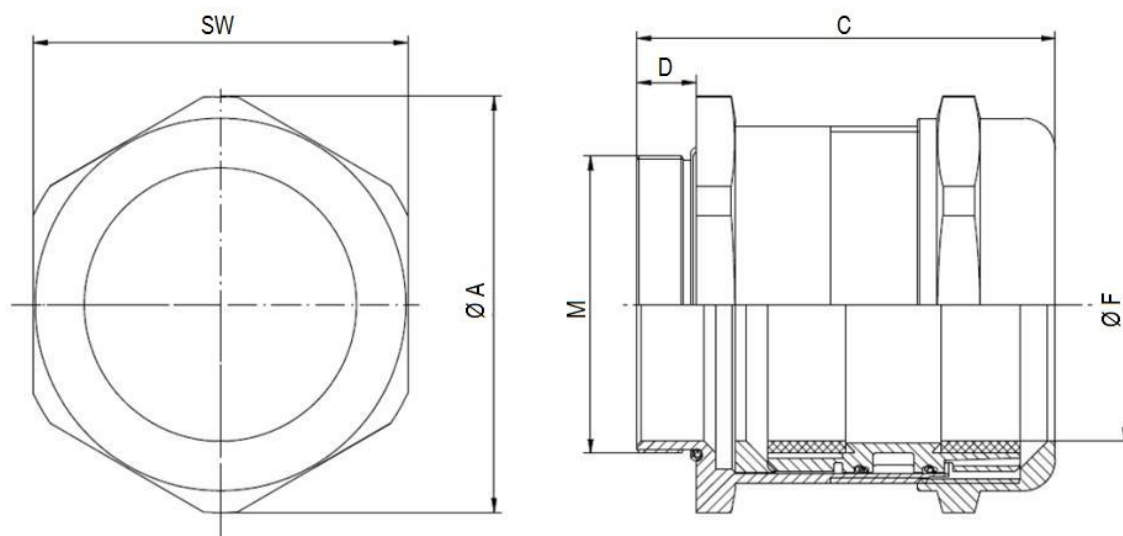
#### **SKINTOP® MS-M**

| M       | SW [mm] | Ø A [mm] | C max. [mm] | D [mm] | Ø F [mm]<br>Clamping range | O-Ring [mm] | Article No. |
|---------|---------|----------|-------------|--------|----------------------------|-------------|-------------|
| M12x1,5 | 16      | 17,6     | 26,5        | 6,5    | 3,5–7                      | 9x2         | 53112000    |
| M16x1,5 | 20      | 22,0     | 33,0        | 7,0    | 4,5–10                     | 13x2        | 53112010    |
| M20x1,5 | 24      | 26,4     | 37,0        | 8,5    | 7–13                       | 17x2        | 53112020    |
| M25x1,5 | 29      | 31,9     | 38,5        | 8,0    | 9–17                       | 22x2        | 53112030    |
| M32x1,5 | 36      | 39,6     | 45,5        | 9,0    | 11–21                      | 28x2        | 53112040    |
| M40x1,5 | 45      | 49,5     | 48,0        | 9,0    | 19–28                      | 36x2        | 53112050    |
| M50x1,5 | 54      | 59,0     | 55,5        | 10,0   | 27–35                      | 46x2        | 53112060    |
| M63x1,5 | 67      | 73,5     | 67,0        | 15,0   | 34–45                      | 57x2        | 53112070    |

#### **SKINTOP® MSR-M**

| M       | SW [mm] | Ø A [mm] | C max. [mm] | D [mm] | Ø F [mm]<br>Clamping range | O-Ring [mm] | Article No. |
|---------|---------|----------|-------------|--------|----------------------------|-------------|-------------|
| M12x1,5 | 16      | 17,6     | 26,5        | 6,5    | 1–5                        | 9x2         | 53112100    |
| M16x1,5 | 20      | 22,0     | 33,0        | 7,0    | 2–7                        | 13x2        | 53112110    |
| M20x1,5 | 24      | 26,4     | 37,0        | 8,5    | 5–10                       | 17x2        | 53112120    |
| M25x1,5 | 29      | 31,9     | 38,5        | 8,0    | 6–13                       | 22x2        | 53112130    |
| M32x1,5 | 36      | 39,6     | 45,5        | 9,0    | 7–15                       | 28x2        | 53112140    |
| M40x1,5 | 45      | 49,5     | 48,0        | 9,0    | 15–23                      | 36x2        | 53112150    |
| M50x1,5 | 54      | 59,0     | 55,5        | 10,0   | 22–29                      | 46x2        | 53112160    |
| M63x1,5 | 67      | 73,5     | 67,0        | 15,0   | 28–39                      | 57x2        | 53112170    |

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#### **SKINTOP® MS-M75 / M90 / M110**

| M       | SW [mm] | Ø A [mm] | C max. [mm] | D [mm] | Ø F [mm]<br>Clamping range | O-Ring [mm] | Article No. |
|---------|---------|----------|-------------|--------|----------------------------|-------------|-------------|
| M75x1,5 | 95      | 105      | 105,0       | 15     | 58–68                      | 65x2        | 53112510    |
| M90x2   | 115     | 127      | 135,5       | 20     | 66–78                      | 82x3        | 53112512    |
| M110x2  | 135     | 150      | 154,0       | 25     | 86–98                      | 100x3       | 53112514    |

#### **SKINTOP® MSR-M75 / M110**

| M       | SW [mm] | Ø A [mm] | C max. [mm] | D [mm] | Ø F [mm]<br>Clamping range | O-Ring [mm] | Article No. |
|---------|---------|----------|-------------|--------|----------------------------|-------------|-------------|
| M75x1,5 | 95      | 105      | 105         | 15     | 53–63                      | 65x2        | 53112511    |
| M110x2  | 135     | 150      | 154         | 25     | 76–88                      | 100x3       | 53112515    |