Dear customer,

Thank you for choosing KOH-I-NOOR as the supplier of components for pressurized (aerosol) and non-pressurized containers.

In these Instructions we would like to present our products to you and inform you about the importance of the correct selection of individual components which, to a certain extent, influence your product and thus also the satisfaction of your customers.

In individual sections you will find information about the products, as well as some useful technical tips.

- a tip for the correct selection of components for aerosol containers
- aerosol valves (crimping recommendation, filling scheme)
- valves for PU foam (crimping recommendation, filling scheme)
- tips on products for individual aerosol fillings
- aerosol actuators
- applicators and adapters
- spraycaps
- protective caps
- dispensing closures
- roll-ons (roller applicators - orlon)
- products made by injection moulding

We believe that these Instructions will provide you with everything that might help you choose correctly the aerosol valves, actuators and caps for individual aerosol fillings. We would also like to introduce you to our assortment of seals (closures) for non-aerosol containers (mechanical pumps, dispensing closures and roller applicators). Should you need further information, you can browse the KOH-I-NOOR technical standards on our website www.kohinoor.cz, or you can contact us directly.
Tips for the correct selection of an aerosol valve and disperser, applicator, cap or spraycap.

When preparing new products in an aerosol container or innovating them, the correct type of aerosol valve and disperser or applicator must be selected. Correct selection is the prerequisite for the good quality of the product and its reliability for at least the time of the declared service life or warranty period. This will be the basis of correct function of the product. To achieve it, correct selection has to be given special attention in the phase of development initiation or product innovation. We recommend that these procedures (tests) be performed when the technologies, materials or component suppliers of already manufactured products are changed.

The aerosol filler bears full responsibility for selecting the correct type of aerosol valve and disperser.

We, as the manufacturer of these components, provide samples, offer proposal solutions and provide customers with assistance in making their decisions. Methods are worked out for testing individual aerosol container components, as well as of the entire aerosol product. These methods are recommended in the FEA 602 to FEA 644 standards. Every charger should have these methods elaborated and adapted to specific conditions, which further control the design or innovation of their aerosol products. The performance of the tests requires at least a small laboratory, equipped with the necessary equipment. For small chargers who do not have their own laboratory, we recommend that the tests be ordered from an external laboratory.

Description of procedures to follow in selecting the correct type of valve, disperser or applicator for specific products.

MOUNTING CUP

The most important criterion for selection of the cover is corrosion resistance.

Basic choice of valve cover:
- Non-aggressive content = unvarnished cup
- slightly aggressive content = varnished cup, Fe coated with PET foil
- very aggressive content = Al cup with Micoflex, Fe coated with PET foil

INNER GASKET

The following criteria have to be considered in the selection and testing of the inner sealing:

1 - the percentage of swelling
2 - micro-leaks
3 - storage test, weight losses
4 - reliability of the sealing in application
5 - effect on corrosion origination at the point of the seal - cover contact
6 - effect on the aerosol filling quality
7 - physical changes (permanent deformation, induration, softening, cracking etc.)
STEM

a) The stem of a female-type valve seals the filling in the aerosol container and allows the penetration of the filling into the actuator. The colour design of the stems serves for differentiation of the inner gasket used - see Technical Company Standard No. 770197/A, Annex A. These valves are tested for tolerance of the material of the stem with filling. No other option is available.
b) The stem of a male-type valve of the filling gasket controls the size of the dose. When a new product is developed, the filler selects a stem that provides the best utility features of the aerosol product. The design of the stem is colour-differentiated - see PNT 770197/A. The material of the stem with an aerosol filling is tested for tolerance and amount of dose.

HOUSING

a) KOH-I-NOOR currently manufactures housings in the basic design, adaptors with a gaseous phase and adaptors dispersing in reverse position.
b) The selection of the housings type depends fully on the aerosol charger when a new product is designed. The required utility qualities of the aerosol product are decisive.

DIP TUBE

When the dip tube for AV is selected, choosing the correct length is important. As a standard, KOH-I-NOOR uses length L for measuring.

Actuators and applicators

The following are tested when the correct actuator or applicator is selected:
a) Actuators - the quality of the scatter
   - the size of the output
   - the size and distribution of the aerosol particles
b) Applicators - the quality of application
   - the size of the output

Caps

Caps serve to protect the aerosol container against undesired release during transport and storage. In addition, they complete the design of the entire package. The selection of the correct type for a specific aerosol product is performed according to visual evaluation.

If the female-type valve is used, the actuator must be applied before the inner seal swells. If this rule is not followed, the shrunken inner gasket might prevent applying the actuator and the entire aerosol would be degraded.
AEROSOL VALVES DESIGNATION

**AV01**
- female valve
- Ø 25,4mm

**AV02**
- female valve
- Ø 20mm

**AV03**
- male valve
- Ø 25,4mm

**AV04**
- male valve
- Ø 20mm

**AV05**
- male valve
- Ø 25,4mm

**AV06**
- powder valve
- male valve
- Ø 25,4mm

**AV07**
- Bag-on-valve
- male valve
- Ø 25,4mm

**AV08**
- 360° valve
- male valve
- Ø 25,4mm

**AV09**
- 360° valve
- female valve
- Ø 25,4mm

**AV10**
- Metering valve
- male valve
- Ø 25,4mm

PU VALVES DESIGNATION

**PU 01**
- HOBBY

**PU 02**
- PROFI
FEMALE AEROSOL VALVE - AV01

Mounting cup Ø25mm
A  Fe tin plated 5,0g/m², lacquered gold varnish/transparent varnish
B  Fe tin plated 5,6g/m², non lacquered
C  Fe tin plated 5,0g/m², lacquered on both sides with a transparent varnish
G  Fe chrome plated, coated with transparent PET film
D  Al lacquered on both sides (light golden/beige Micoflex)

Inner gasket
1  Buna B716, 70Sh
2  Neopren NA7202, 70Sh
6  Butyl U133, 70Sh
8  Buna KA6712, 70Sh

Valve stem material PA 6.6
For gasket
1  Buna B716, 70 Sh - red
2  Neopren NA7202, 70 Sh - white
7  Butyl U133, 70 Sh - green
9  Buna KA6712, 70 Sh - yellow

Valve stem „Z“ stem for vale housing type “S”

Spring non-corroding steel wire
normal or soft

Valve housing material PA 6.6
N  natural for inside dip tube 2/3
P  basic version
V  red – upside-down spray output

<table>
<thead>
<tr>
<th></th>
<th>RTP (mm)</th>
<th>VPT (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>S1</td>
<td>2,5</td>
<td>0,35</td>
</tr>
<tr>
<td>S2</td>
<td>2,5</td>
<td>0,70</td>
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<td>S3</td>
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<td>0,65</td>
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<tr>
<td>S4</td>
<td>0</td>
<td>0,45</td>
</tr>
<tr>
<td>S5</td>
<td>0</td>
<td>0,65</td>
</tr>
<tr>
<td>S6</td>
<td>1,2</td>
<td>0,6</td>
</tr>
</tbody>
</table>

Outer gasket  Buna 80Sh

Dip tube
PE diameters Ø 3,73/4,88
PE diameters Ø 2/3

Example of aerosol valve designation:
AV01 A-2-2-P L130
Aerosol valve of 01 series,
A = Cup ø 25 mm, steel, double-sided tin plated, coated in gold / clear finish.
2 = Inner gasket Neoprene NA7202 70 Sh
2 = Valve stem - female, PA white.
P = Valve housing - PA natural basic version
L130 = Inserted dip tube, the AV length L is 130 mm.
FEMALE AEROSOL VALVE - AV02

Mounting cup Ø 20mm
F Al varnished on both sides (light golden/beige Micoflex)
K Al silver coating

Inner gasket
1 Buna B716, 70Sh
2 Neopren NA7202, 70Sh
6 Butyl U133, 70Sh
8 Buna KA6101, 70Sh

Valve stem material PA 6.6
For gasket
1 Buna B716, 70Sh - red
2 Neopren NA7202, 70Sh - white
7 Butyl U133, 70Sh - green
9 Buna KA6101, 70Sh - yellow

Spring anti-corrosive steel wire

Valve housing material PA 6.6
N natural – with interior teeth (dip tube 2/3)
P natural – basic version
V red – upside-down spray output

Outer gasket Buna 70 Sh

Dip tube
PE diameters Ø 3,73/4,88
PE diameters Ø 2/3

Example of aerosol valve designation:
AV02 F-2-2-P L130
Aerosol valve of 02 series - female
F = Al varnished on both sides (light golden/beige Micoflex)
2 = Inner gasket Neoprene NA7202 70 Sh
2 = Valve stem - female, PA white.
P = Valve housing - PA natural basic version
L130 = inserted dip tube, the AV length L is 130 mm.
**MALE AEROSOL VALVE - AV03**

**Mounting cup Ø 25mm – may be made with or without projections**

A  Fe tin plated 5,0g/m², lacquered gold varnish/transparent varnish
B  Fe tin plated 5,6g/m², non-lacquered
C  Fe tin plated 5,0g/m², lacquered on both sides with a transparent varnish
G  Fe chrome plated, coated with transparent PET film
D  Al varnished on both sides (light golden/beige Micoflex)

**Inner gasket**

3  Buna KA6101, 60Sh
4  Buna B716, 70 Sh
7  Neopren NA7202, 70 Sh

**Valve stem** material PA 6.6

<table>
<thead>
<tr>
<th>Ø stem</th>
<th>Ø hole</th>
<th>Colour</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>3,4mm</td>
<td>1x0,6mm - blue</td>
</tr>
<tr>
<td>5</td>
<td>3,4mm</td>
<td>2x0,7mm - red</td>
</tr>
<tr>
<td>8</td>
<td>4,0mm</td>
<td>1x0,7mm - natural</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>closure for filling lighters - red</td>
</tr>
</tbody>
</table>

**Spring** non-corroding stainless steel wire

**Valve housing** material PA 6.6

N  natural with internal teeth (dip tube 2/3)
P  natural – basic finish
V  red – upside-down spray output

<table>
<thead>
<tr>
<th>RTP</th>
<th>VPT</th>
</tr>
</thead>
<tbody>
<tr>
<td>(mm)</td>
<td>(mm)</td>
</tr>
<tr>
<td>S1</td>
<td>2,5</td>
</tr>
<tr>
<td>S2</td>
<td>2,5</td>
</tr>
<tr>
<td>S3</td>
<td>0,65</td>
</tr>
<tr>
<td>S4</td>
<td>0</td>
</tr>
<tr>
<td>S5</td>
<td>0</td>
</tr>
<tr>
<td>S6</td>
<td>1,2</td>
</tr>
</tbody>
</table>

**Outer gasket** Buna 80Sh

**Dip tube**

PE diameters Ø 3,73/4,88
PE diameters Ø 2/3

Example of aerosol valve designation:

AV03 G-7-5-V L60
Aerosol valve of 03 series - male
G = Cup ø 25 mm, Fe chrome plated, coated with transparent PET film
7 = Inner gasket Neopren NA7202 70 Sh
5 = Valve stem - male, PA red
V = Valve housing - PA red, upside-down spray output
L60 = inserted dip tube, the AV length L is 60 mm.
**Male Aerosol Valve - AV04**

**Mounting Cup Ø 20mm**
- F: Al upper gold coating, bottom beige Micoflex coating
- K: Al silver coating

**Inner Gasket**
- 3: Buna KA6101, 60Sh
- 4: Buna B716, 70 Sh
- 7: Neoprene NA7202, 70 Sh

**Valve Stem**
- Material PA 6.6
- Ø Stem: 3.4mm
- Ø Hole: 1x0.6mm - blue
- 3: Closure for filling lighters - red
- 5: 3.4mm, 2x0.7mm - red

**Spring**
- Non-corroding stainless steel wire

**Valve Housing**
- Material PA 6.6
- N: Natural with internat teeth (dip tube 2/3)
- P: Natural – basic finish
- V: Red – upside-down spray output

**Outer Gasket**
- Buna 70 Sh

**Dip Tube**
- PE diameters Ø 3.73/4.88
- PE diameters Ø 2/3

Example of aerosol valve designation:

AV04 F-7-5-V L60
Aerosol valve of 04 series - male
F = Cup ø 20 mm, Fe chrome plated, coated with transparent PET film
7 = Inner gasket Neoprene NA7202 70 Sh
5 = Valve stem - male, PA red
V = Valve housing - PA red, upside-down spray output
L60 = Inserted dip tube, the AV length L is 60 mm.
**MALE AEROSOL VALVE - AV05**

**Mounting cup Bombé Ø 25mm**
- **P** Fe tin plated 5,0g/m², gold varnish/transparent varnish
- **R** Fe tin plated 5,6g/m², non-lacquered
- **S** Fe tin plated 5,0g/m², both sides colorless varnished
- **T** Fe chrome, both sides with PET foil
- **U** Al gold varnish/beige Micoflex coating

**Inner gasket**
- 11 Buna B716, 70Sh
- 12 Buna KA6101, 60Sh
- 13 Buna KA6712, 70Sh
- 15 Buna white KA5701, 60Sh
- 21 Neopren NA7202, 70Sh
- 31 Butyl U133, 70Sh

**Valve stem** material PA 6.6
- 11 1x0,33mm - blue
- 12 1x0,45mm - natural
- 13 2x0,50mm - orange
- 14 4x0,61mm - black

**Spring** non-corroding stainless steel wire

**Valve housing** material PA 6.6
- **T** natural – basic finish
- **Z** red – upside-down spray output

<table>
<thead>
<tr>
<th></th>
<th>RTP</th>
<th>VPT</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>U1</strong></td>
<td>2</td>
<td>0,35</td>
</tr>
<tr>
<td><strong>U2</strong></td>
<td>2</td>
<td>0,70</td>
</tr>
<tr>
<td><strong>U3</strong></td>
<td>0,65</td>
<td>0,65</td>
</tr>
<tr>
<td><strong>U4</strong></td>
<td>0</td>
<td>0,45</td>
</tr>
<tr>
<td><strong>U5</strong></td>
<td>0</td>
<td>0,65</td>
</tr>
<tr>
<td><strong>U6</strong></td>
<td>1,2</td>
<td>0,6</td>
</tr>
</tbody>
</table>

**Outer gasket** Buna 80Sh

**Dip tube**
- PE diameters Ø 3,10/4,36

Example of aerosol valve designation:

AV05 T-11-13-T L195
Aerosol valve of 05 series - male
T = Cup ø 25 mm, Fe chrome, both sides with PET foil
11 = Inner gasket Buna B716, 70Sh
13 = Valve stem - male, 2x0,50mm
T = Valve housing - PA natural basic version
L195 = inserted dip tube, the AV length L is 195 mm.
**MALE AEROSOL VALVE - AV06 - POWDER VALVE**

**Mounting cup Bombé Ø 25mm**
- **Q**: Fe tin plated 5,0g/m², gold varnish/transparent varnish
- **X**: Fe tin plated 5,6g/m², non-lacquered
- **Y**: Fe tin plated 5,0g/m², both sides colorless varnished
- **V**: Fe chrome, both sides with PET foil

**Inner gasket**
- 11: Buna B716, 70Sh
- 12: Buna KA6101, 60Sh
- 13: Buna KA6712, 70Sh
- 21: Neopren NA7202, 70Sh
- 31: Butyl U133, 70Sh

**Valve stem** material POM
- 21: 1x0,6 mm

**Spring** non-corroding stainless steel wire

**Valve housing** material PA 6.6

<table>
<thead>
<tr>
<th></th>
<th>RTP (mm)</th>
<th>VPT (mm)</th>
<th>Insert Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>U1</td>
<td>2</td>
<td>0,35</td>
<td>green insert</td>
</tr>
<tr>
<td>U2</td>
<td>2</td>
<td>0,70</td>
<td>red insert</td>
</tr>
<tr>
<td>U3</td>
<td>0,65</td>
<td>0,65</td>
<td>orange insert</td>
</tr>
<tr>
<td>U6</td>
<td>1,2</td>
<td>0,6</td>
<td>brown insert</td>
</tr>
</tbody>
</table>

**Outer gasket** Buna 80Sh

**Dip tube**
- PE diameters Ø 3,10/4,36

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Example of aerosol valve designation:

AV06 V-11-21-U1 L195
Aerosol valve of 06 series.
- V = Cup ø 25 mm, Fe chrome, both sides with PET foil
- 11 = Inner gasket Buna B716, 70Sh
- 21 = Valve stem - male, 1x0,6mm
- U1 = Valve housing - PA, green insert (RTP 2,0/VPT 0,35mm)
- L195 = Inserted dip tube, the AV length L is 195 mm
MALE AEROSOL VALVE - AV07 - BAG-ON-VALVE

Mounting cup Bombé Ø 25mm – no dimples
- T Fe chrome, both sides with PET foil
- U Al gold varnish/beige Micoflex coating
- L Al both sides colorless varnished

Inner gasket
- 14 Buna B716, 70Sh

Valve stem material PA 6.6
- 14 4x0,61mm - black
- 15 3 1,7x 0,7mm - yellow

Spring non-corroding stainless steel wire

Valve housing material PP

<table>
<thead>
<tr>
<th>RTP (mm)</th>
<th>VPT (mm)</th>
<th>X</th>
<th>Natural</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0</td>
<td>X</td>
<td>natural</td>
</tr>
</tbody>
</table>

Outer gasket Buna 80Sh

Dip tube
PE diameters Ø 3,10/4,36

Bag AL barrier foil
Dimensions of the bag according to the customer’s request.

Example of aerosol valve designation:
AV07 T-14-14-X
Aerosol valve of 07 series - BOV male
T = Cup ø 25 mm, Fe chrome, both sides with PET foil
14 = Inner gasket Buna B716, 70Sh
14 = Valve stem – male, 4x0,61mm
X = Valve housing - PP natural basic version
MALE AEROSOL VALVE - AV 08 - VALVE 360°

Mounting cup Bombé Ø 25mm
- P: Fe tin plated 5,0g/m², gold varnish/transparent varnish
- R: Fe tin plated 5,6g/m², non-lacquered
- S: Fe tin plated 5,0g/m², both sides colorless varnished
- T: Fe chrome, both sides with PET foil
- U: Al gold varnish/beige Micoflex coating

Inner gasket
- 11: Buna B716, 70Sh
- 12: Buna KA6101, 60Sh
- 13: Buna KA6712, 70Sh
- 15: Buna white KA5701, 60Sh
- 21: Neopren NA7202, 70Sh
- 31: Butyl U133, 70Sh

Valve stem material PA 6.6
- 11: 1x0,33mm - blue
- 12: 1x0,45mm - natural
- 13: 2x0,50mm - orange
- 14: 4x0,61mm - black

Spring non-corroding stainless steel wire

Valve housing material PA 6.6
RTP (mm) VPT (mm)
- 0: 2 0 natural

Outer gasket Buna 80Sh

Dip tube
PE diameters Ø 3,10/4,36

Example of aerosol valve designation:
AV08 T-11-13-O L195
Aerosol valve of 08 series - male
T = Cup ø 25 mm, Fe chrome, both sides with PET foil
11 = Inner gasket Buna B716, 70Sh
13 = Valve stem - male, 2x0,50mm
O = Valve housing - PA
L195 = inserted dip tube, the AV length L is 195 mm
FEMALE AEROSOL VALVE - AV09- VALVE 360°

**Mounting cup Ø25mm**
- **A** Fe tin plated 5,0g/m², lacquered gold varnish/transparent varnish
- **B** Fe tin plated 5,6g/m², non lacquered
- **C** Fe tin plated 5,0g/m², lacquered on both sides with a transparent varnish
- **G** Fe chrome plated, coated with transparent PET film
- **D** Al lacquered on both sides (light golden/beige Micoflex)

**Inner gasket**
1. Buna B716, 70Sh
2. Neopren NA7202, 70Sh
6. Butyl U133, 70Sh
8. Buna KA6712, 70Sh

**Valve stem** material PA 6.6
For gasket
- **1** Buna B716, 70 Sh - red
- **2** Neopren NA7202, 70 Sh - white
- **7** Butyl U133, 70 Sh - green
- **9** Buna KA6712, 70 Sh - yellow

**Spring** non-corroding steel wire normal or soft

**Valve housing** material PA 6.6
- **Q** basic version
  - **RTP**
  - **VPT**
  - (mm)
  - (mm)
  - 2 0

**Outer gasket** Buna 80Sh

**Dip tube**
PE diameters Ø 3,10/4,36

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Example of aerosol valve designation:
AV09 A-2-2-Q L130
Aerosol valve of 09 series.
A = Cup ø 25 mm, steel, double-sided tin plated, coated in gold / clear finish.
2 = Inner gasket Neoprene NA7202 70 Sh
2 = Valve stem - female, PA white.
Q = Valve housing - PA, natural basic version
L130 = inserted dip tube, the AV length L is 130 mm.
**MALE AEROSOL VALVE - AV10 - METERING VALVE**

### Mounting cup Bombé Ø 25mm
- **M** Fe tin plated 5,0g/m², both sides colorless varnished

### Inner gasket
- **16** Buna B716, 70Sh

### Valve stem
- **31** 1 x 0,4 mm - blue

### Spring
- Non-corroding stainless steel wire

### Valve housing
- Material PE

<table>
<thead>
<tr>
<th>RTP (mm)</th>
<th>VPT (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0</td>
</tr>
</tbody>
</table>

- Natural / dose 0.08 ml

### Outer gasket
- Buna 80Sh

### Dip tube
- PE diameters Ø 2,0/3,0

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**Example of aerosol valve designation:**

AV10  M-16-31-D L95
Aerosol valve of 10 series - metering valve
- **M** = Cup ø 25 mm, Fe tin plated 5,0g/m², both sides colorless varnished
- **16** = Inner gasket Buna B716, 70Sh
- **31** = Valve stem - male, 1x0,4mm
- **D** = Valve housing - blue (RTP 2,0/VPT 0mm)
- **L95** = Inserted dip tube; the AV length L is 95 mm
Recommended crimping valve dimensions
with mounting cup Ø 25mm

<table>
<thead>
<tr>
<th>Dimension designation</th>
<th>Fe tin can</th>
<th>Al tin can</th>
<th>Fe tin can</th>
<th>Al tin can</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Fe cap</td>
<td>Al cap</td>
<td>Fe cap</td>
<td>Al cap</td>
</tr>
<tr>
<td>T</td>
<td>Thickness of cap’s wall</td>
<td>0,28</td>
<td>0,40</td>
<td>0,28</td>
</tr>
<tr>
<td>S2</td>
<td>Compression of outer gasket from 1mm</td>
<td>0,80</td>
<td>0,80</td>
<td>0,80</td>
</tr>
<tr>
<td>H</td>
<td>Contact height of the can</td>
<td>4,00</td>
<td>4,00</td>
<td>4,25</td>
</tr>
<tr>
<td>CH</td>
<td>Crimping height</td>
<td>5,10±0,5</td>
<td>5,20±0,5</td>
<td>5,30±0,5</td>
</tr>
<tr>
<td>øCD</td>
<td>ø Crimping</td>
<td>ø27,10+0,2</td>
<td>ø26,90+0,2</td>
<td>ø27,10+0,2</td>
</tr>
</tbody>
</table>
Recommended crimping dimensions of valve with mounting cup ø 20mm

**Aerosol glass can**

<table>
<thead>
<tr>
<th>Dimensions designation</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Neck diameter</td>
<td>20,0-0,4</td>
</tr>
<tr>
<td>D</td>
<td>Neck height</td>
</tr>
</tbody>
</table>

**Aerosol aluminium can**

<table>
<thead>
<tr>
<th>Dimension designation</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Neck diameter</td>
</tr>
<tr>
<td>C</td>
<td>Neck height</td>
</tr>
</tbody>
</table>

**Recommended crimping valve 20 dimensions for glass can**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>T</td>
<td>Thickness of cap’s wall</td>
</tr>
<tr>
<td>S2</td>
<td>Height of outer gasket</td>
</tr>
<tr>
<td>H</td>
<td>Height of the can’s neck</td>
</tr>
<tr>
<td>CH</td>
<td>Crimping height</td>
</tr>
</tbody>
</table>

**Recommended crimping valve 20 dimensions for aluminium can**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>T</td>
<td>Thickness of cap’s wall</td>
</tr>
<tr>
<td>S2</td>
<td>Height of outer gasket</td>
</tr>
<tr>
<td>H</td>
<td>Height of the can’s neck</td>
</tr>
<tr>
<td>CH</td>
<td>Crimping height</td>
</tr>
</tbody>
</table>
**Important recommendation for aerosol valve AV 05 (male)**

Crimp the aerosol valve to the body of the aerosol can in such way, where after filling the vessel, the dimension of the protruding spraying closure over the aerosol valve cover is maintained, according to the below-indicated drawing. This is the only way to assure a perfect function of all applicators, spray caps, atomizers and the like. The crimping dimensions must be adjusted in consideration of the recommendations by the manufacturer of the filling equipment and the material used in the cap of the aerosol valve.

!! This figure inform you that for applicator or spraycap beside you have to have crimping height 7,3±0,3mm !!
Filling of aerosol valves

Female type

Male type
<table>
<thead>
<tr>
<th>Aerosol products</th>
<th>Mounting cup</th>
<th>Inner gasket</th>
<th>Stem</th>
<th>Housing</th>
<th>Actuator</th>
<th>Valves - male types</th>
<th>Valves - female types</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hairspray w/P/B</td>
<td>FeSn</td>
<td>Neopren</td>
<td>21</td>
<td>1x0,45</td>
<td>12</td>
<td>basic</td>
<td>T</td>
</tr>
<tr>
<td>Hairspray w/P/B</td>
<td>FeSn</td>
<td>Neopren</td>
<td>21</td>
<td>1x0,45</td>
<td>2,00/0,35</td>
<td>U1</td>
<td>VV2.1/V1-50</td>
</tr>
<tr>
<td>Hairspray w/P/B</td>
<td>FeSn</td>
<td>Neopren</td>
<td>21</td>
<td>1x0,45</td>
<td>2,00/0,70</td>
<td>U2</td>
<td>VV2.1/V1-50</td>
</tr>
<tr>
<td>Hairspray w/DME</td>
<td>FeSn</td>
<td>Butyl</td>
<td>31</td>
<td>1x0,45</td>
<td>12</td>
<td>Zabklandli</td>
<td>T</td>
</tr>
<tr>
<td>Hairspray w/DME + water</td>
<td>Al</td>
<td>Butyl</td>
<td>31</td>
<td>1x0,45</td>
<td>12</td>
<td>2,00/0,35</td>
<td>U1</td>
</tr>
<tr>
<td>Hairspray w/CO2</td>
<td>FeSn</td>
<td>Buna</td>
<td>11</td>
<td>1x0,33</td>
<td>11</td>
<td>basic</td>
<td>T</td>
</tr>
<tr>
<td>Hairspray w/flatters</td>
<td>FeSn</td>
<td>Buna</td>
<td>11</td>
<td>2x0,50?</td>
<td>13</td>
<td>2,00/0,35</td>
<td>U1</td>
</tr>
<tr>
<td>DEO w/P/B</td>
<td>FeSn</td>
<td>Neopren</td>
<td>21</td>
<td>1x0,45</td>
<td>12</td>
<td>basic</td>
<td>T</td>
</tr>
<tr>
<td>DEO w/DME</td>
<td>Al</td>
<td>Butyl</td>
<td>31</td>
<td>1x0,45</td>
<td>12</td>
<td>2,00/0,35</td>
<td>U1</td>
</tr>
<tr>
<td>DEO w/CO2</td>
<td>FeSn</td>
<td>Buna</td>
<td>11</td>
<td>1x0,33</td>
<td>11</td>
<td>basic</td>
<td>T</td>
</tr>
<tr>
<td>Air Fresheners</td>
<td>FeSn</td>
<td>Neopren</td>
<td>21</td>
<td>1x0,45</td>
<td>12</td>
<td>2,00/0,35</td>
<td>U1</td>
</tr>
<tr>
<td>Hair foam w/P/B</td>
<td>FeSn</td>
<td>Neopren</td>
<td>21</td>
<td>2x0,50</td>
<td>13</td>
<td>2,00/0,70</td>
<td>U2</td>
</tr>
<tr>
<td>Hair foam w/P/B</td>
<td>Al</td>
<td>Neopren</td>
<td>21</td>
<td>2x0,50</td>
<td>13</td>
<td>up-side down</td>
<td>Z</td>
</tr>
<tr>
<td>Shaving foam w/P/B</td>
<td>Fe PET</td>
<td>Neopren</td>
<td>21</td>
<td>2x0,50</td>
<td>13</td>
<td>0,0/0,45</td>
<td>U4</td>
</tr>
<tr>
<td>Paints and varnishes</td>
<td>FeSn</td>
<td>Neopren</td>
<td>20</td>
<td>1x0,44</td>
<td>11</td>
<td>basic</td>
<td>T</td>
</tr>
<tr>
<td>Car cosmetics, lubricant</td>
<td>FeSn</td>
<td>Neopren</td>
<td>21</td>
<td>1x0,45</td>
<td>12</td>
<td>basic</td>
<td>T</td>
</tr>
<tr>
<td>Household</td>
<td>FeSn</td>
<td>Neopren</td>
<td>21</td>
<td>2x0,50</td>
<td>13</td>
<td>basic</td>
<td>T</td>
</tr>
<tr>
<td>Insecticide</td>
<td>FeSn</td>
<td>Neopren</td>
<td>21</td>
<td>2x0,50</td>
<td>13</td>
<td>basic</td>
<td>T</td>
</tr>
<tr>
<td>Lock De-icing</td>
<td>Al F</td>
<td>Buna 60 Sh</td>
<td>3</td>
<td>2x0,70</td>
<td>5</td>
<td>basic</td>
<td>P</td>
</tr>
<tr>
<td>Lighters - refilling</td>
<td>FeSn</td>
<td>Neopren</td>
<td>2</td>
<td>special</td>
<td>4</td>
<td>basic 2/3</td>
<td>V</td>
</tr>
<tr>
<td>Antiperspirants</td>
<td>FeSn</td>
<td>Neopren</td>
<td>21</td>
<td>1x0,33</td>
<td>21</td>
<td>0,65/0,65</td>
<td>U1</td>
</tr>
</tbody>
</table>

This table is only our recommendation. Liability for the correct choice of aerosol valves and actuators has filler or aerosol product.
**PU VALVE 01 - HOBBY**

**mounting cup**
1 steel, tinned on both sides, varnished on both sides - transparent

**collar**
1 black rubber

**stem**
1 PP natural
2 PP black
3 PP white

**outer gasket**
Buna 80Sh

Example of aerosol valve designation:

PU01 I-1-1
PU valve of 01 series - hobby
I = steel, tinned on both sides, varnished on both sides - transparent
1 = Collar - black rubber
1 = Valve stem - PP natural
**PU VALVE 02 - PROFI**

**mounting cup**
1. steel, tinned on both sides, varnished on both sides - transparent

**collar**
1. black rubber

**stem**
5. PP natural
6. PP black
7. PP white

**outer gasket**
Buna 80Sh

Example of aerosol valve designation:

**PU01 I-1-5**
- PU valve of 01 series - profi
- I = steel, tinned on both sides, varnished on both sides - transparent
- 1 = Colar - black rubber
- 5 = Valve stem - PP natural
Recommended crimping for PU valves

Filling of PU valves
swirling aerosol actuators - large

body VV1

for female aerosol valves
body for large, swirling actuator
dispensing volume: low, medium or high
made from polypropylene
width of groove: 1,10 mm

body VV1.1

for female aerosol valves
body for large, swirling actuator
dispensing volume: low, medium or high
made from polypropylene
width of groove: 0,35 / 0,50 mm

têleso VV2.1

for male aerosol valves with the stem Ø 4mm
body for large, swirling actuator
made from polypropylene

For VV1, VV1.1 and VV2.1 are suitable these nozzles:

grey nozzle V1-38 (swirling, outlet 0,38mm)
black nozzle V1-50 (swirling, outlet 0,50mm)
blue nozzle V2 – 30 (swirling, outlet 0,30mm) – not suitable for pressure container over 8bar

VV3 actuator with the cap

for male aerosol valves with stem Ø 4mm
valve covering
this actuator have these nozzles: V1-38, V1-50, V2-30
when used for the first time, a plastic safety piece has to be overcome
actuator and cap can be supplied separately

These caps we offer to this actutor:

Vv3 + cap 35.1.10 (PP or K-resin)

VV3 + cap 35.1.13 (PP or K-resin)

Aerosol actuator VV5 "SQUIRREL"

Actuator is designed for aerosol valves AV05 series.
Ø 35 mm
Actuator is supplied individually or with a cap attached to the selected type.
Actuator by setting on aerosol product covered the aerosol valve and can not be removed from it.
The actuator aesthetically blends with the shape of the container.
These caps we offer to this actuator:

![Image]

**semi-swirling aerosol actuators - large**

**body VP1.1**
- for female aerosol valves,
- body for large, semi-swirling actuator
- dispensing volume can be low, medium or high
- made from polypropylene
- suitable especially for household products, paints, insecticides or application of an active substance to inaccessible places
- width of groove: 0,50 / 1,00 mm

**body VP2.1**
- for male aerosol valves with stem Ø 4mm
- body for large, non-swirling actuator, with high dispensing volume
- made from polypropylene
- suitable especially for household products and various chemicals

**For body VP1.1, VP2.1 are suitable these nozzles:**

- red nozzle **P1-50**
  - semi-swirling, circular spray characteristic, insert 0,50mm

- yellow nozzle **P1-100**
  - semi-swirling, circular spray characteristic, insert 1mm

- blue nozzle **S1**
  - special nozzle suitable for dispensing products in form of non-dispensed jets directed to inaccessible places

- black nozzle **S2**
  - special nozzle for rough spray characteristic or for application tube of a desired length and the outer diameter of 2mm

**body VP4**
- for female aerosol valves,
- body for large, semi-swirling actuator
- dispensing volume can be low, medium or high
- made from polypropylene
- suitable especially for household products, paints, insecticides or application of an active substance to inaccessible places
- width of groove: 0,50 / 1,00 mm

**For body VP.4 is suitable this nozzle:**

- red nozzle **P2-50**
  - semi-swirling, suitable for applying paints, insert 0,50mm
  - oval spray characteristic with dimensions of 100x30 ± 15%mm, applied from the distance of 250mm
non-swirling aerosol actuators - large

**body VN1**

*for female aerosol valves*

body for large, non-swirling actuator, with high dispensing volume
made from polypropylene
suitable especially for household products and various chemicals
width of groove: 0,50 / 1,00 mm

**Body VN3**

*for male aerosol valves with stem Ø 4mm*

valve covering
when used for the first time, a plastic safety piece has to be overcome
actuator and cap can be supplied separately

**body VN5**

*for male aerosol valves AV06*

for powder valve

These caps we offer to this actuator:

- VN3 + cap 35.1.10 (PP or K-resin)
- VN3 + cap 35.1.13 (PP or K-resin)

special aerosol actuators - large

**body VS1**

*for female aerosol valve*

body for large special actuator
with medium or high dispensing volume
actuator for rough spray characteristic or an application tube with the outer diameter 2mm (can be inserted to outlet)
made from polypropylene
width of groove: 0,50 / 1,10 mm
body VS2

**for female aerosol valves**  
body for large, special actuator, with high dispensing volume  
made from polypropylene  
width of groove: 1,00 mm

For body VS2 are suitable these nozzles:

nozzle **S3**  
high volume, the product is dispensed as a directed cohesive jet

nozzle **S4**  
special nozzle for application tube for the outer diameter of 3mm  

Chamber Applicator (VS2-100/S4 + tube 2/3 + nozzle S5)

body VS3

**for female aerosol valves**  
actuator has three input grooves to provide very big output with flowing of contents on the big distance  
made from polypropylene and is used for products of technical characteristic, e.g. for fire-extinguishers,...  
width of groove: 3 x 1,00 mm
APPLICATORS AND ADAPTERS

For female valves

Foam applicator AP1

- is intended for products forming foam during application.
- made of polypropylene
width of groove: 1,10 mm

Foam applicator AP4

- is intended for products forming foam during application.
- made of polypropylene
width of groove: 0,70 mm

For male valve with the spring cup Ø 4mm

Foam applicator AP2

- the system dispenses a product in the upside down position
- is intended for products forming foam during application
- made of polypropylene

AP2 + cap 35.1.7       AP2 + cap 35.1.9

Foam applicator AP3

- the system dispenses a product in the upside down position
- is intended for products forming foam during application
- made of polypropylene

AP3 + cap 35.1.7       AP3 + cap 35.1.9
Foam applicator AP5
- is intended for products forming foam during application
- made of polypropylene

Foam applicator AP6
- applicator covers the valve
- cap in accordance with customer’s wish is put on the applicator
- made of polypropylene
- application in the basic position (applicator up)

AP6 + cap 35.1.10
AP6 + cap 35.1.13

Foam applicator AP7
One-piece foam applicator is suitable for aerosol can with male valve with the stem 4 mm. Dispensing is carried out in the upside down position. It is intended for aerosol products that form foam during dispensing.
- recommended crimping height (stem) 7 +0,3 mm

Gel applicator AP8
- applicator covers the valve
- cap in accordance with customer’s wish is put on the applicator
- made of polypropylene
- applicator is made for using with gels and you can use the same protective caps as for AP6

Gel/foam Applicator - AP10
- applicator covers the valve
- cap in accordance with customer’s wish is put on the applicator
- made of polypropylene
- application in the basic position (applicator up)
- useful with shaving foam and gel
Other applicators and adapters

Adapter for filling lighters

- used for refilling lighters with gas
- for male valves with the stem Ø 4mm
- made of polypropylene in white colour

Applicator AR1 for De-Icing

- for male valve with the stem Ø 3,4 mm
- for insertion in a lock or another opening

Applicator for mouth spray AU1

- for male valve (our types AV03,AV04) with the stem Ø 3,4; 4 mm

Applicators for PU valves

Applicator AVV 1-2

Applicator for PU 01 valve AVV 1-2 with a tube of ø = 6/7 mm, L 180 mm

Applicator AVV 2-1

Applicator for PU 01 valve AVV 2-1 with a tube of Ø = 6/7 mm, L 180 mm
NEW AEROSOL APPLICATOR + CAP

"BRIDGE"

Basic information:

Ø 52
applicator + cap

Suitable with:

three piece steel can Ø 52
aluminium transfer can Ø 53
valves with stem Ø 4mm
shaving foams and gels
Spraycaps

**HORIZONTAL**

Spraycap 52.1

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Cap body</td>
<td>PP</td>
</tr>
<tr>
<td>2</td>
<td>Insert body</td>
<td>PP</td>
</tr>
<tr>
<td>3</td>
<td>Nozzle</td>
<td>POM</td>
</tr>
<tr>
<td></td>
<td>VT-50</td>
<td>Black</td>
</tr>
<tr>
<td></td>
<td>VT-38</td>
<td>Grey</td>
</tr>
<tr>
<td></td>
<td>V2-30</td>
<td>Blue</td>
</tr>
</tbody>
</table>

V2-30 not suitable for pressure container over 8bar

**VERTICAL**

Spraycap 52.3
PROTECTIVE CAPS

We produce protective caps for alu and steel cans.

Below you can find all methods how to fit put the caps onto the aerosol can. Also the information which types of the caps are suitable for various can.

For the information we mention how to choose the correct cap:

**V 35.1.5**

V – basic name, in abbreviation of the basic Czech name
35 – diameter of aerosol can
1 – it is used for aluminium can (for steel – 3piece – „3“)
5 – serial number of the cap

<table>
<thead>
<tr>
<th>Design</th>
<th>Type</th>
<th>Design</th>
<th>type</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Image" /></td>
<td>23.1.2</td>
<td><img src="image2.png" alt="Image" /></td>
<td>35.1.1, 35.1.5, 35.1.6, 35.1.7, 35.1.8, 35.1.11, 35.1.14</td>
</tr>
<tr>
<td><img src="image3.png" alt="Image" /></td>
<td>45.1.1, 45.1.2, 50.1.2, 53.1.1, 53.1.2, 53.1.3</td>
<td><img src="image4.png" alt="Image" /></td>
<td>45.3.1, 49.3.1, 52.3.1, 52.3.2, 52.3.3, 52.3.4, 57.3.1, 65.3.3, 65.3.4, 65.3.6</td>
</tr>
<tr>
<td><img src="image5.png" alt="Image" /></td>
<td>65.3.1</td>
<td><img src="image6.png" alt="Image" /></td>
<td>65.3.2</td>
</tr>
</tbody>
</table>
MECHANICAL PUMPS

We would like to inform you, that our mechanical pumps meet requirements of chapter 3.1.3 Polyolefines of European Pharmacopoeia.

Type Designating of the Mechanical Sprayers:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MR</td>
<td>Basic name of the device (a Czech abbreviation of „Mechanical Sprayer“)</td>
</tr>
<tr>
<td>PXX</td>
<td>P is a constant sign for the MR; XX = type No.</td>
</tr>
<tr>
<td>LXXX</td>
<td>length of the Mechanical Sprayer</td>
</tr>
<tr>
<td>. . .</td>
<td>additional designation (colour shade, special gasket etc.)</td>
</tr>
</tbody>
</table>

An example of the type designation:

MR P06 L100 red 43202

That means: P06 Mechanical Sprayer (with a screw cup, thread GL 20, standard PE gasket, and ring with golden eloxal coat, tube fitted on, length of MR L = 100 mm), red outside parts, colour shade 43202 in accordance with the collection of samples.

Mounting cup Ø 20mm

Mounting cup:
MR P02 Golden varnished cup with Ø 20mm
MR P03 – Silver varnished

Gasket:
Standardly thermolast (PE, BUNA N if required).

Fixing on container:
Clinching (the attachment cannot be disassembled).

Useful container:
Metal, glass or plastic containers with a 20 mm standardized opening.

Mounting cup PP Ø 22mm (GL22)

Gasket:
Standardly thermolast (PE, BUNA N if required)

Fixing on container:
GL22 - screwing (the attachment can be disassembled).

Useful container:
Glass or plastic containers with the standard 22 mm thread

MR P04
Mounting cup Ø 25mm

Gasket:
Buna N

Fixing on container:
Pressing on the container (the attachment cannot be disassembled).

Useful container:
Plastic, aluminium and tinplate containers with a 25.4 mm standardized opening in accordance with FEA201, FEA 203.

Mounting cup PP Ø 20mm (GL20)

Gasket:
Standardly PE (thermolast, Buna N if required).

Fixing on container:
GL 20 - screwing (the attachment can be disassembled).

Useful container:
Glass or plastic containers with the standard 20 mm thread.

MR P07
MR P08 silver eloxed ring

Mounting cup PP Ø 20mm with reduced mouth (GL20)

Gasket:
Standardly PE (thermolast, Buna N if required).

Fixing on container:
GL20 - screwing (the attachment can be disassembled).

Useful container:
Glass or plastic containers with the standard 20 mm thread intended for low mouths.

MR P11 silver eloxed ring

Mounting cup PP Ø 18mm (GL18)

Gasket:
Standardly PE (thermolast, Buna N if required).

Fixing on container:
GL18 - screwing (the attachment can be disassembled).

Useful container:
Glass or plastic containers with the standard 18 mm thread.

MR P13
MR P14 silver eloxed ring
Mounting cup PP Ø 18mm with reduced mouth (GL18)

Gasket:
Standardly PE (thermolast, Buna N if required).

Fixing on container:
GL18 - screwing (the attachment can be disassembled).

Useful container:
Glass or plastic containers with the standard 18 mm thread intended for low mouths.

MR P17 silver eloxed ring

Mounting cup Ø 25mm

Gasket:
Buna N

Fixing on container:
Clinching to the container (the attachment cannot be disassembled).

Useful container:
Aluminium and tinplate containers with a 25.4 mm standardized opening in accordance with FEA201, FEA 203.

Mechanical sprayers with special nozzles

Mechanical sprayer with S1 nozzle

All types of the Mechanical Sprayers can be fitted with a special actuator into which a special S1 Nozzle can be fixed. The system can be used where a product is to be applied to a particular spot without spraying, for example oil or defroster into a lock etc.

Cap 16.1.1 cannot be put on this type.

Ordering example:
MR P08 L 100, white, with nozzle S1

Mechanical sprayer with S2 nozzle

All types of the Mechanical Sprayers can be fitted with a special actuator into which a special S2 Nozzle can be fixed. It is advisable to complete the nozzle with a ø 1/2 mm applying tube of an appropriate length. The system can be used where a product is to be applied to a particular or badly accessible spot.

Cap 16.1.1 cannot be put on this type. The applying tube should be ordered separately.

Ordering example:
MR P08 L100, white, with nozzle S2
Caps used with mechanical pumps

16.1.1

The Protective Cap is intended for next to all types of the MTP-1 Mechanical Sprayers. It cannot be fitted only on mechanical sprayer with S1 and S2 nozzles. It is fitted directly on the mechanical sprayer actuator and they form together an integral aesthetic and functional whole. It is made of polystyrene or polypropylene. The standard design is transparent.

23.1.2

The Protective Cap is intended for the P01, P02 and P03 Mechanical Sprayers that are attached to one-part aerosol containers with a ø 20 mm standardized opening. It cannot be fitted on the S1 and S2 Nozzle Mechanical Sprayers. Its surface is smooth. It is made of polypropylene. Strength of attachment to the container is 5 - 20 N.

35.1.6

The Protective Cap is intended for the P05, P23. It cannot be fitted on the S1 and S2 Nozzle Mechanical Sprayers. Its surface is smooth and is made of polypropylene.
DISPENSING CLOSURES

Dispensing Closure DU1
Dispensing Closure DU1 is a two-part assembly. The manufacturer supplies the dispensing closure upper part and the complete dispensing closure lower part separately because of subsequent clinching attachment the lower part onto a container; the attachment cannot be disassembled. The containers can be glass, metal or plastic with a standard opening of 20 mm diameter in accordance with FEA 206-E and FEA 215-E. The attachment is done with the help of a surface finished aluminum cup by mechanical clinching; the technology is similar to that used with aerosol valves of this size. An elastic labyrinth on the lower part sealing surface provides sealing onto the container. After filling the container and clinching the complete dispensing closure lower part, the upper part is put onto the container; the upper part must be pushed onto the lower part properly (to the stop) to close the dispensing closure duly. This dispensing closure is suitable especially for cosmetics.

Dispensing Closure DU2
Dispensing Closure DU2 is supplied as a one-part product. Attachment to the container can be disassembled; this is done by means of a standard GL 22 thread in accordance with ČSN 703002. An elastic labyrinth on the lower part sealing surface provides sealing onto the container. Proper sealing is provided by adequate tightening the cup on the container. After filling the container and screwing the dispensing closure on the container, the upper part must be pushed onto the lower part properly (to the stop) to close the dispensing closure duly. This type of dispensing closure is suitable especially for cosmetics.

Dispensing Closure DU3
Dispensing Closure DU3 is supplied as a one-part product. It is used with the containers whose opening corresponds with regard to shape and dimensions to the opening of 25.4 mm aerosol containers described in FEA 201 or FEA 203. The closure is pressed on the container and the attachment cannot be disassembled. As for material that the container is made of, the customer chooses it at his/her discretion. A rubber gasket made of Buna N provides sealing to the container. Dispensing Closure DU3 is suitable especially for cosmetics. The containers with DU3 can be completed with Caps 35.1.6 or 35.1.7 or caps attached to the three-part aerosol container rim.
ROLL-ONS

ORLON 10 Roll-on Applicator

This is a small-size roll-on applicator. It is used especially for hand-bag cosmetics. It is supplied divided into three parts. The complete applicator creates a container with nominal capacity of $6 \text{ cm}^3$. After filling with an active substance, the applicator is fitted with a ball and the package is closed with a complete closure. After tightening the closure, a space gap 0.1 to 1 mm must be between the closure and the applicator to seal the filling properly.

ORLON 25.2 Roll-on Applicator

This is a specially designed roll-on applicator with a 25 mm ball. It is used for taking gelatinous substances out of a container. The container has to have an opening having the GL 28 thread, special shape and dimensions. After filling the container with a substance, the complete applicator is pressed on the container. Then the closure 25.2 is screwed on the container. The manufacturer of the roll-on applicators recommends using containers that he provides together with a partner company. If the filler chooses his own shape and design of the container, he has to keep shape and dimensions of its opening. On request, the manufacturer of the roll-on applicators provides a technical drawing of the container opening.
Injection moulding

KOH-I-NOOR Mladá Vožice a.s. offers the possibility of manufacturing small plastic products on injection moulding machines. We have long experience in this branch, which we would like to utilize in cooperation with our business partners in developing new products.

Product design and development

..... we provide the complete execution of technical documentation based on a drawing, moulding or submitted sample. When manufacturing moulds, we use a specialized worksite with a CNC machining centre and progressive technology of electrospark deepening and cutting.

Manufacture of injection moulds

...only reliable injection moulds can guarantee quality, economy and 100% delivery

We are able to make the moulds in our own tool shop or we cooperate with specialized companies in the Czech Republic.

Mould shop

We are able to process commonly injected plastics on injection moulding machines supplied by prominent companies (Arburg, Battenfeld, Kraus Meffei). These currently include: PP, PE, PS, POM, ABS, PA.

The closing force of the presses we use is 25-160 tons and the maximum weight of one injection is 250g.

We are able to provide the entire product assembly, upon the customer’s request.
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