

# Screw clamps

4

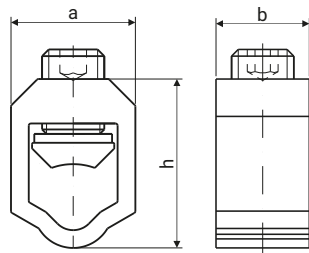
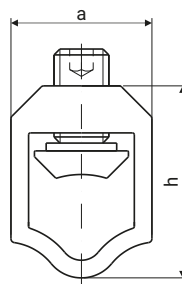
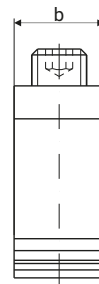
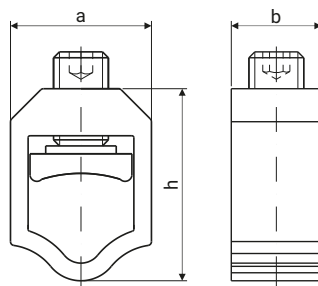
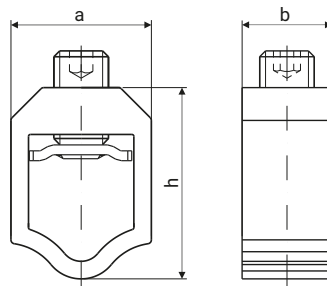


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Screw clamps

# Screw clamps v-klema type

## Single aluminium

**25-120SW****35-240SW  
50-240SW****35-240SW-C  
50-240SW-C****70-300SW  
95-300SW****25-120SW-B  
35-300SW-B  
50-300SW-B  
95-300SW-B****sm** - multiwire sector shaped conductor (flexible)**rm** - round multiwire conductor (flexible)**se** - sector shaped conductor (rigid)**re** - round conductor (rigid)

| DETAIL             | CROSS-SECTION [mm <sup>2</sup> ] |        |        |        | NOMINAL<br>CROSS-SECTION<br>[mm <sup>2</sup> ] | MAX<br>TIGHTENING<br>TORQUE [Nm] | DIMENSIONS |      |    |
|--------------------|----------------------------------|--------|--------|--------|------------------------------------------------|----------------------------------|------------|------|----|
|                    | sm                               | se     | rm     | re     |                                                |                                  | a          | b    | h  |
| <b>25-120SW</b>    | 25-120                           | 25-120 | 16-95  | 16-95  | 95                                             | 20                               | 28         | 18,5 | 38 |
| <b>35-240SW</b>    | 35-185                           | 35-240 | 25-95  | 25-120 | 120                                            | 30                               | 35         | 23   | 49 |
| <b>50-240SW</b>    | 50-185                           | 50-240 | 35-95  | 35-120 | 120                                            | 30                               | 35         | 23   | 49 |
| <b>70-300SW</b>    | 70-240                           | 95-300 | 50-120 | 70-150 | 150                                            | 30                               | 35         | 23   | 49 |
| <b>95-300SW</b>    | 70-240                           | 95-300 | 50-185 | 70-240 | 150                                            | 30                               | 37,5       | 23   | 54 |
| <b>25-120SW-B</b>  | 25-120                           | 25-120 | 16-95  | 16-95  | 95                                             | 20                               | 28         | 18,5 | 38 |
| <b>35-300SW-B</b>  | 35-240                           | 35-300 | 35-185 | 35-240 | 150                                            | 30                               | 35         | 23   | 49 |
| <b>50-300SW-B*</b> | 50-240                           | 50-300 | 35-240 | 35-240 | 150                                            | 30                               | 35         | 23   | 49 |
| <b>95-300SW-B</b>  | 70-300                           | 95-300 | 95-300 | 70-240 | 240                                            | 30                               | 37,5       | 23   | 54 |
| <b>35-240SW-C</b>  | 35-240                           | 35-240 | 35-95  | 35-120 | 150                                            | 30                               | 35         | 23,2 | 49 |
| <b>50-240SW-C</b>  | 50-240                           | 50-240 | 35-95  | 35-120 | 150                                            | 30                               | 35         | 23,2 | 49 |

|         | 25-120SW           | 35-240SW | 50-240SW | 70-240SW | 95-300SW | 25-120SW-B               | 35-300SW-B | 50-300SW-B | 95-300SW-B | 35-240SW-C       | 50-240SW-C |
|---------|--------------------|----------|----------|----------|----------|--------------------------|------------|------------|------------|------------------|------------|
| clamp   | Brass- zinc plated |          |          |          |          | Spring steel zinc-plated |            |            |            | ZAMAK tin-plated |            |
| housing | Aluminium (AlMgSi) |          |          |          |          |                          |            |            |            |                  |            |
| screw   | Steel zinc-plated  |          |          |          |          |                          |            |            |            |                  |            |

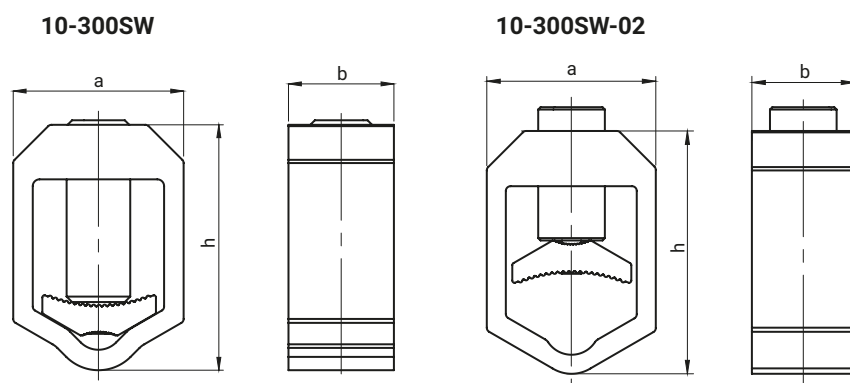
SW - hexagon head socked

\* Screw clamps conform to EN 60947-7-1 (IEC 60947-7-1)

\* Clamp can be supplied with a tightening torque of 35 Nm

# Screw clamps v-klema type

## Single aluminium

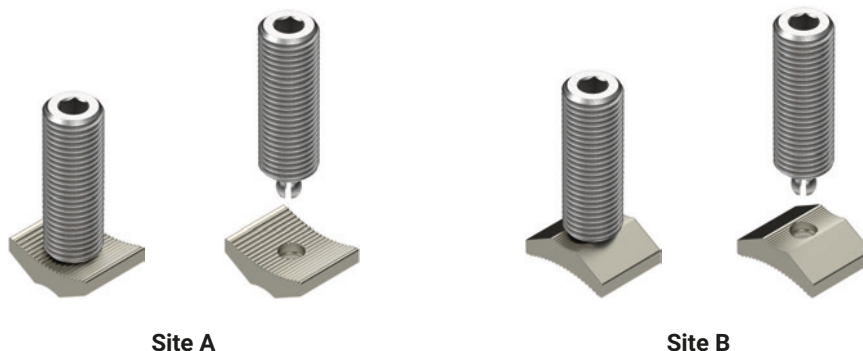


10-300SW



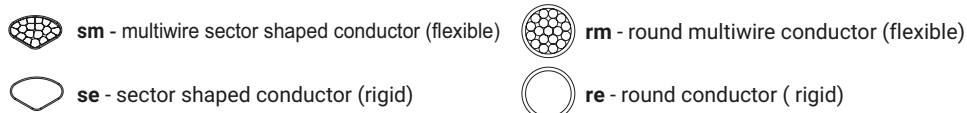
10-300SW-02

Possibility of changing the way the clamp is mounted



Site A

Site B



| DETAIL   | Site | CROSS-SECTION [mm <sup>2</sup> ] |         |         |         | NOMINAL<br>CROSS-SECTION<br>[mm <sup>2</sup> ] | MAX<br>TIGHTENING<br>TORQUE [Nm] | DIMENSIONS |    |    |
|----------|------|----------------------------------|---------|---------|---------|------------------------------------------------|----------------------------------|------------|----|----|
|          |      | sm                               | se      | rm      | re      |                                                |                                  | a          | b  | h  |
| 10-300SW | A    | 25-120                           | 25-120  | 10-95   | 10-95   | 150                                            | 15                               | 37,5       | 23 | 54 |
|          | B    | 150-300                          | 150-300 | 120-300 | 120-300 | 150                                            | 25                               | 37,5       | 23 | 54 |

| DETAIL      | Site | CROSS-SECTION [mm <sup>2</sup> ] |         |         |         | NOMINAL<br>CROSS-SECTION<br>[mm <sup>2</sup> ] | MAX<br>TIGHTENING<br>TORQUE [Nm] | DIMENSIONS |      |    |
|-------------|------|----------------------------------|---------|---------|---------|------------------------------------------------|----------------------------------|------------|------|----|
|             |      | sm                               | se      | rm      | re      |                                                |                                  | a          | b    | h  |
| 10-300SW-02 | A    | 25-120                           | 25-120  | 10-95   | 10-95   | 150                                            | 15                               | 35,5       | 21,5 | 51 |
|             | B    | 150-300                          | 150-300 | 120-300 | 120-300 | 150                                            | 25                               | 35,5       | 21,5 | 51 |

|         | 10-300SW           |
|---------|--------------------|
| clamp   | Brass- zinc plated |
| housing | Aluminium (AlMgSi) |
| screw   | Steel zinc-plated  |

SW - hexagon head socked

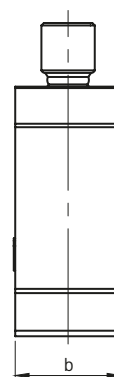
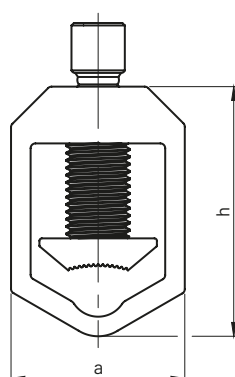
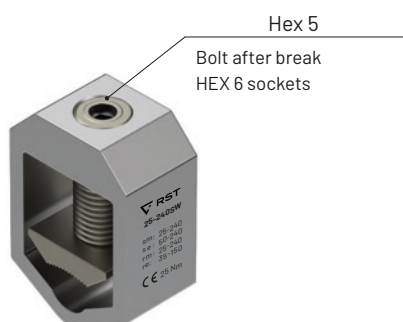
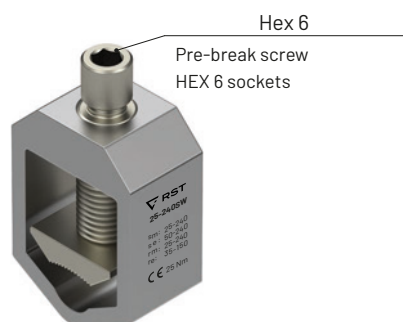
\* Screw clamps conform to EN 60947-7-1 (IEC 60947-7-1)

\* Screw clamp 10-300SW - current value  $I_{th} = 309$  A

# V-KLEMA type screw clamps

## Aluminium single clamps with a break-off screw

NEW



**sm** - multiwire sector shaped conductor (flexible)



**rm** - round multiwire conductor (flexible)



**se** - sector shaped conductor (rigid)



**re** - round conductor (rigid)

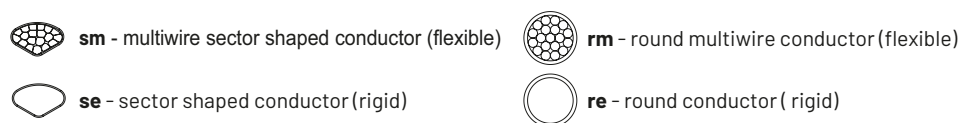
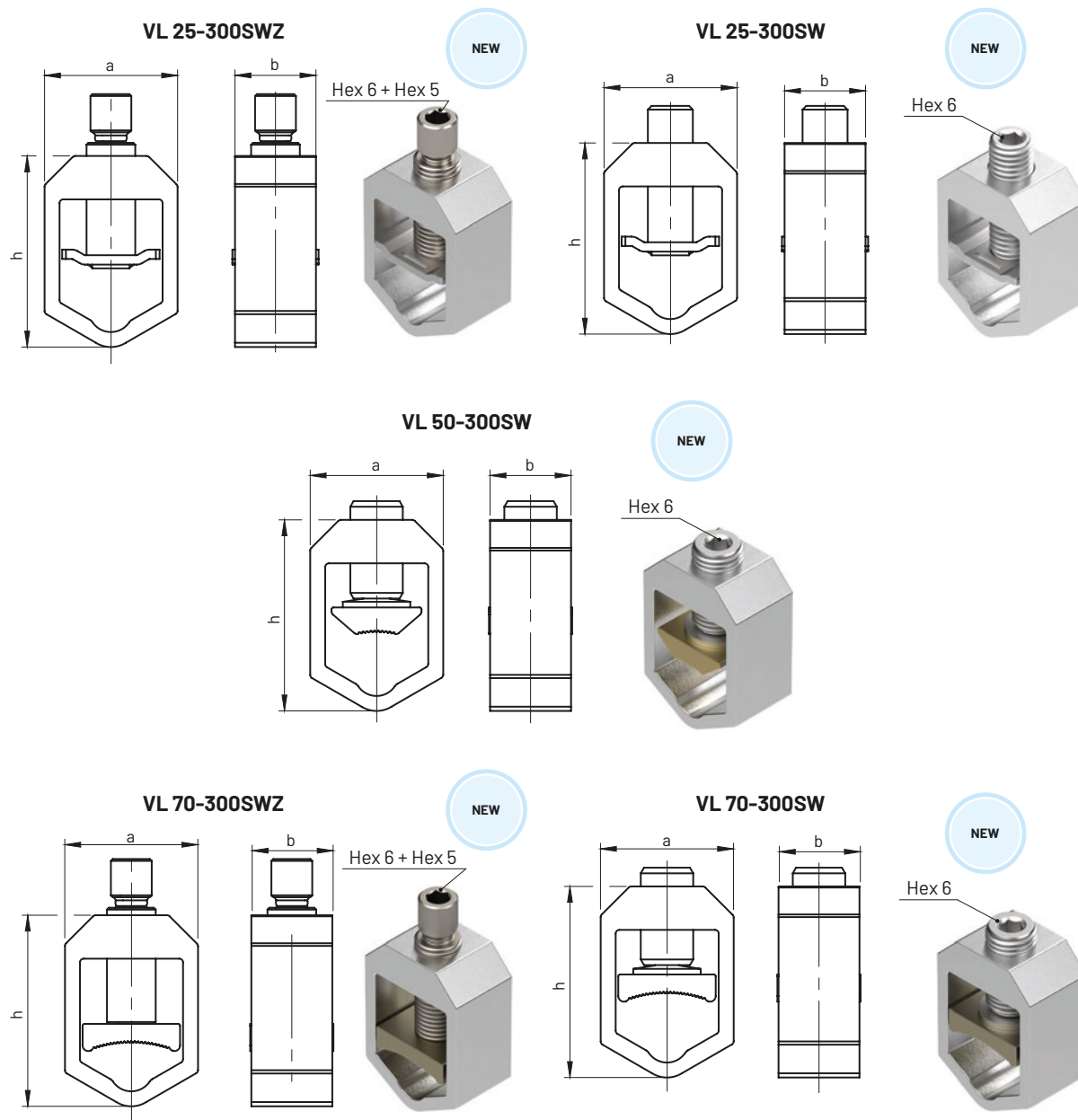
| DETAIL   | CROSS-SECTION [mm <sup>2</sup> ] |        |        |        | NOMINAL<br>CROSS-SECTION<br>[mm <sup>2</sup> ] | MAX<br>TIGHTENING<br>TORQUE [Nm] | DIMENSIONS |      |    |
|----------|----------------------------------|--------|--------|--------|------------------------------------------------|----------------------------------|------------|------|----|
|          | sm                               | se     | rm     | re     |                                                |                                  | a          | b    | h  |
| 25-240SW | 25-240                           | 50-240 | 25-240 | 35-150 | 150                                            | 25                               | 35,5       | 21,6 | 51 |

|         | 25-240SW           |
|---------|--------------------|
| clamp   | Brass- zinc plated |
| housing | Aluminium (AlMgSi) |
| screw   | Brass- zinc plated |

### Notes:

- Clamp with breakaway bolt.

## Aluminium single clamps with a break-off screw



| DETAIL       | CROSS-SECTION [mm <sup>2</sup> ] |        |        |        | NOMINAL<br>CROSS-SECTION<br>[mm <sup>2</sup> ] | MAX<br>TIGHTENING<br>TORQUE [Nm] | DIMENSIONS |      |    |
|--------------|----------------------------------|--------|--------|--------|------------------------------------------------|----------------------------------|------------|------|----|
|              | sm                               | se     | rm     | re     |                                                |                                  | a          | b    | h  |
| VL 25-300SW  | 25-300                           | 25-300 | 25-240 | 25-240 | 150                                            | 30                               | 35,5       | 21,6 | 51 |
| VL 50-300SW  | 50-300                           | 50-300 | 50-240 | 50-240 | 150                                            | 30                               |            |      |    |
| VL 70-300SW  | 70-300                           | 70-300 | 70-240 | 70-240 | 150                                            | 30                               |            |      |    |
| VL 25-300SWZ | 25-300                           | 25-300 | 25-240 | 25-240 | 150                                            | 25                               |            |      |    |
| VL 70-300SWZ | 70-300                           | 70-300 | 70-240 | 70-240 | 150                                            | 25                               |            |      |    |

|         | VL 25-300SWZ             | VL 25-300SW       | VL 50-300SW        | VL 70-300SWZ       | VL 70-300SW        |
|---------|--------------------------|-------------------|--------------------|--------------------|--------------------|
| clamp   | Spring steel zinc-plated |                   | Brass- zinc plated |                    | Brass- zinc plated |
| housing | Aluminium (AlMgSi)       |                   |                    |                    |                    |
| screw   | Brass- zinc plated       | Steel zinc-plated | Steel zinc-plated  | Brass- zinc plated | Steel zinc-plated  |

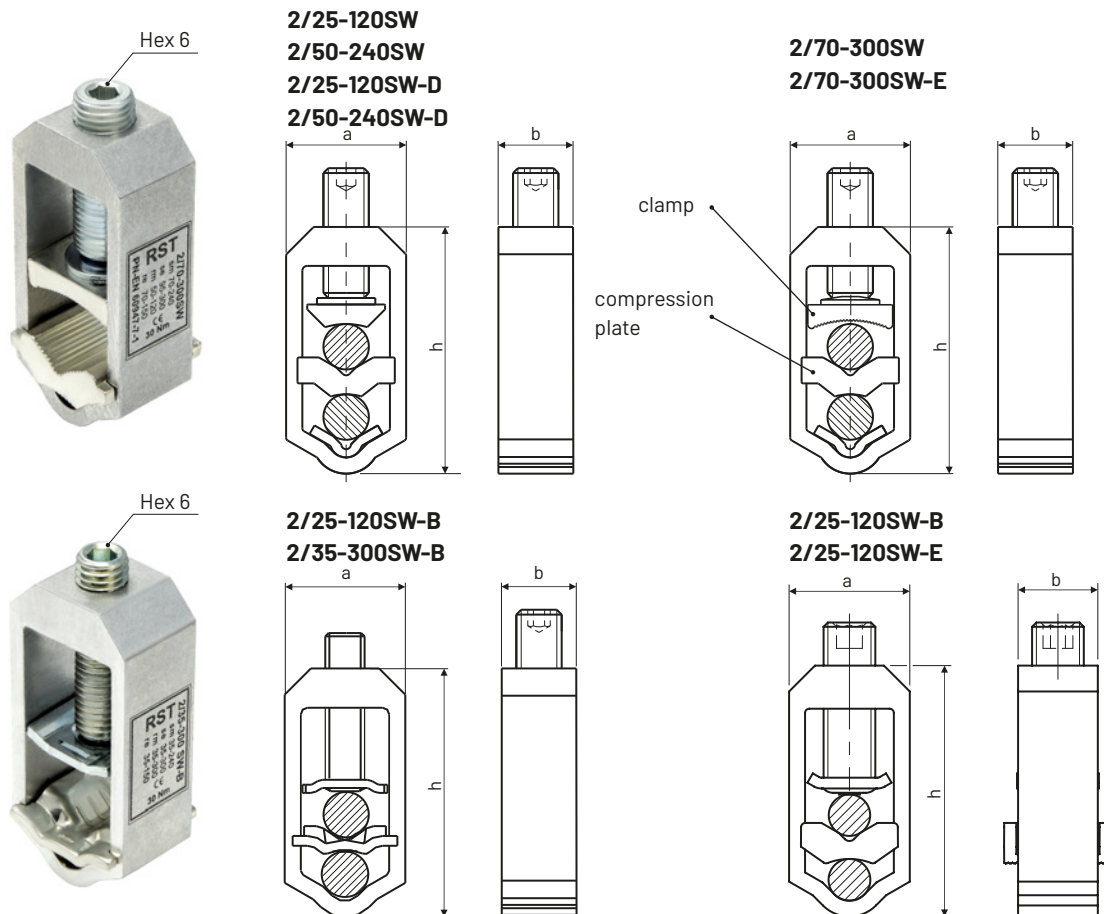
**Notes:**

SW - hexagon head socked.

SWZ - hexagon head socked with breakaway bolt.

# Screw clamps v-klema type

## Double aluminium


**sm** - multiwire sector shaped conductor (flexible)

**rm** - round multiwire conductor (flexible)

**se** - sector shaped conductor (rigid)

**re** - round conductor (rigid)

| DETAIL              | CROSS-SECTION [mm <sup>2</sup> ] |        |        |        | NOMINAL<br>CROSS-SECTION<br>[mm <sup>2</sup> ] | MAX<br>TIGHTENING<br>TORQUE [Nm] | DIMENSIONS |    |    |
|---------------------|----------------------------------|--------|--------|--------|------------------------------------------------|----------------------------------|------------|----|----|
|                     | sm                               | se     | rm     | re     |                                                |                                  | a          | b  | h  |
| <b>2/25-120SW</b>   | 25-120                           | 25-120 | 16-95  | 16-95  | 95                                             | 20                               | 28         | 18 | 58 |
| <b>2/50-240SW</b>   | 35-185                           | 35-240 | 35-120 | 35-150 | 150                                            | 30                               | 37         | 23 | 76 |
| <b>2/70-300SW</b>   | 70-240                           | 95-300 | 50-120 | 70-150 | 150                                            | 30                               | 35         | 23 | 76 |
| <b>2/25-120SW-B</b> | 25-120                           | 25-120 | 16-95  | 16-95  | 95                                             | 20                               | 28         | 18 | 58 |
| <b>2/35-300SW-B</b> | 50-240                           | 50-240 | 35-185 | 50-150 | 150                                            | 30                               | 37         | 23 | 76 |
| <b>2/25-120SW-D</b> | 25-120                           | 25-120 | 16-95  | 16-95  | 95                                             | 20                               | 28         | 18 | 58 |
| <b>2/50-240SW-D</b> | 35-185                           | 35-240 | 35-120 | 35-150 | 150                                            | 30                               | 37         | 23 | 76 |
| <b>2/70-300SW-E</b> | 70-240                           | 95-300 | 50-120 | 70-150 | 150                                            | 30                               | 37         | 23 | 76 |
| <b>2/25-120SW-E</b> | 25-120                           | 25-120 | 16-95  | 16-95  | 95                                             | 20                               | 28         | 18 | 58 |

|                   | 2/25-120SW         | 2/50-240SW | 2/70-300SW | 2/25-120SW-B             | 2/35-300SW-B |
|-------------------|--------------------|------------|------------|--------------------------|--------------|
| Clamp             | Brass- zinc plated |            |            | Spring steel zinc-plated |              |
| Compression plate | Brass- zinc plated |            |            | Spring steel zinc-plated |              |
| Housing           | Aluminium (AlMgSi) |            |            |                          |              |
| Screw             | Steel zinc-plated  |            |            |                          |              |

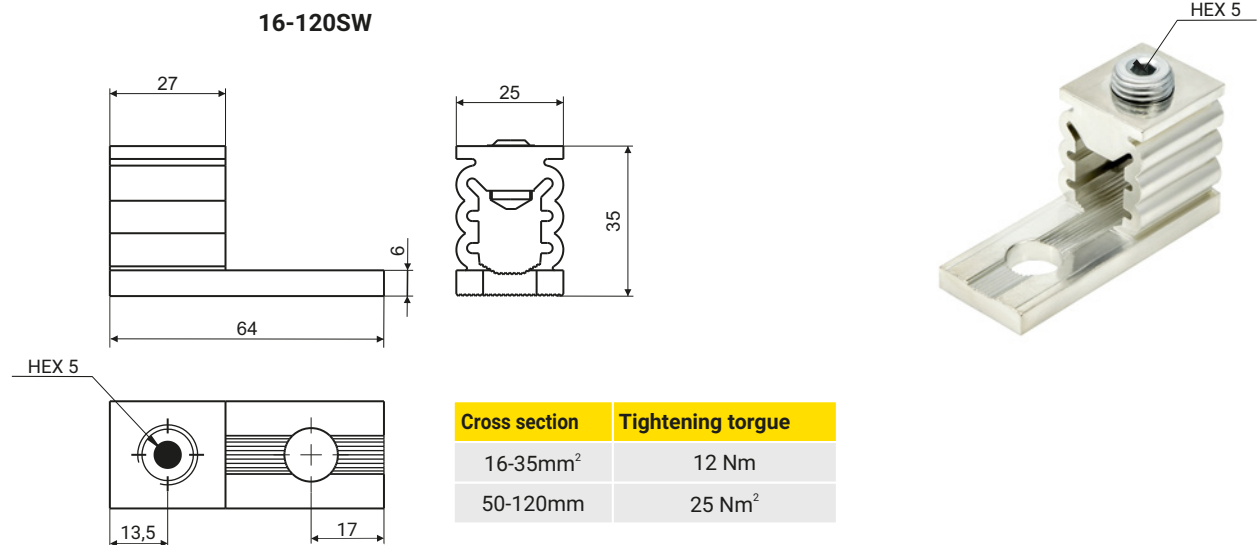
  

|                   | 2/25-120SW-D       | 2/50-240SW-D     | 2/70-300SW-E       | 2/25-120SW-E             |  |
|-------------------|--------------------|------------------|--------------------|--------------------------|--|
| Clamp             | Brass- zinc plated | ZAMAK tin-plated | Brass- zinc plated | Spring steel zinc-plated |  |
| Compression plate | ZAMAK tin-plated   |                  |                    |                          |  |
| Housing           | Aluminium (AlMgSi) |                  |                    |                          |  |
| Screw             | Steel zinc-plated  |                  |                    |                          |  |

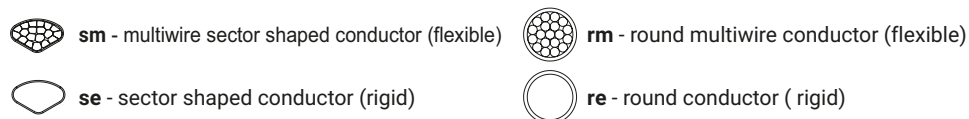
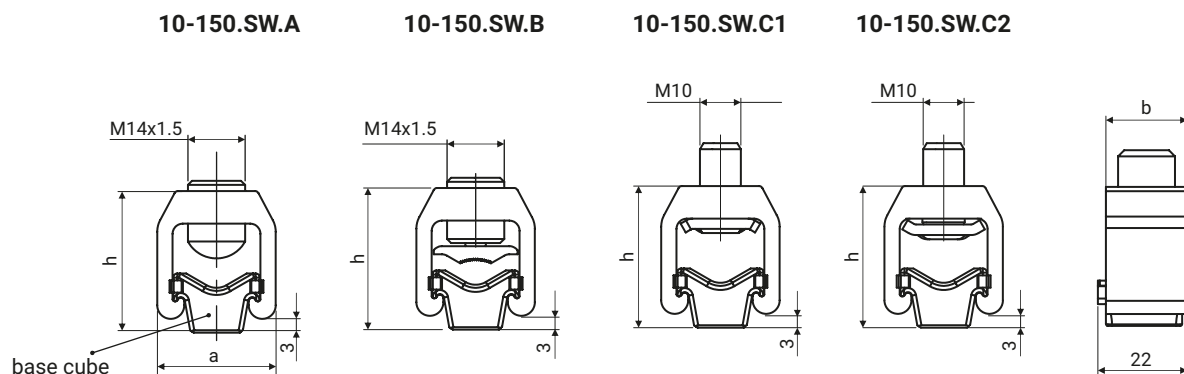
\* SW - hexagon head socked

\* Screw clamps conform to EN 60947-7-1 (IEC 60947-7-1)

# Screw clamps v-klema type Aluminium



For the multiwire sector shaped conductor **rm** the need to use the tip of the sleeve DIN 46228/4



| DETAIL             | CROSS-SECTION [mm <sup>2</sup> ] |        |        |        | NOMINAL CROSS-SECTION [mm <sup>2</sup> ] | MAX TIGHTENING TORQUE [Nm] | DIMENSIONS |    |    |
|--------------------|----------------------------------|--------|--------|--------|------------------------------------------|----------------------------|------------|----|----|
|                    | sm                               | se     | rm     | re     |                                          |                            | a          | b  | h  |
| <b>16-120SW</b>    | -                                | -      | 16-120 | 16-120 | 120                                      | 12-25                      | 25         | 27 | 35 |
| <b>10-150.SW.A</b> | 35-120                           | 35-150 | 10-95  | 10-120 | 120                                      | 15                         | 29         | 20 | 34 |
| <b>10-150.SW.B</b> | 35-70                            | 35-95  | 10-50  | 10-70  | 95                                       | 15                         | 29         | 20 | 34 |
| <b>10-150.SW.C</b> | 35-70                            | 35-95  | 10-50  | 10-70  | 95                                       | 15                         | 29         | 20 | 34 |

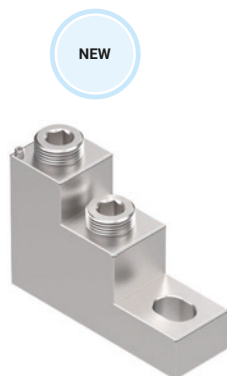
|           | 16-120SW           | 10-150.SW.A      | 10-150.SW.B      | 10-150.SW.C1/C2          |
|-----------|--------------------|------------------|------------------|--------------------------|
| Clamp     | -                  | -                | Brass tin-plated | Spring steel zinc-plated |
| Base cube | -                  | Brass tin-plated |                  |                          |
| Housing   | Aluminium (AlMgSi) |                  |                  |                          |
| Screw     | Brass tin-plated   |                  |                  | Steel zinc-plated        |

\* SW - hexagon head socked.

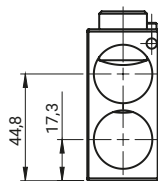
\* Screw clamps conform to EN 60947-7-1 (IEC 60947-7-1)

# Screw terminal blocks for devices

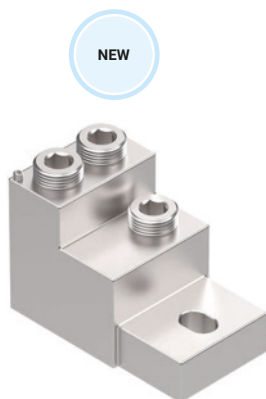
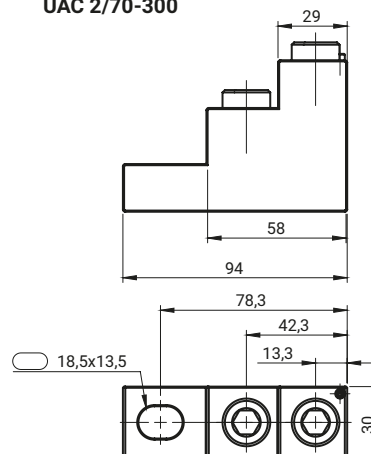
## Single aluminium



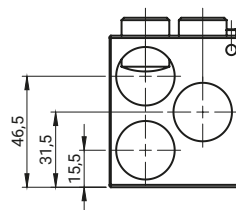
**UAC 2/70-300**



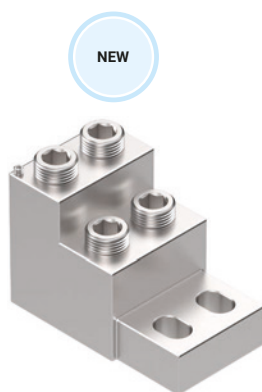
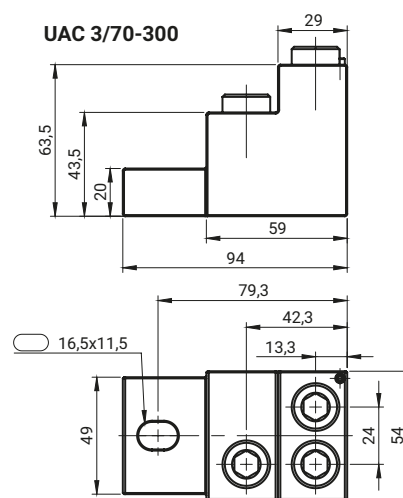
**UAC 2/70-300**



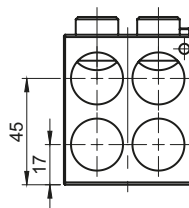
**UAC 3/70-300**



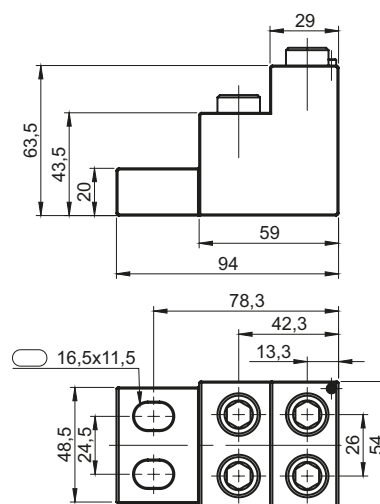
**UAC 3/70-300**



**UAC 4/50-240**



**UAC 4/50-240**



 **sm** - multiwire sector shaped conductor (flexible)

 **se** - sector shaped conductor (rigid)

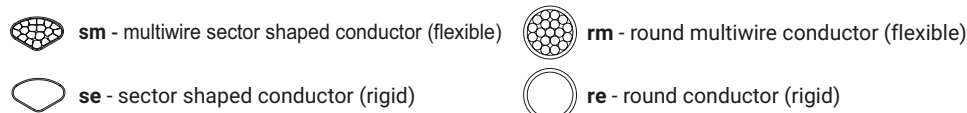
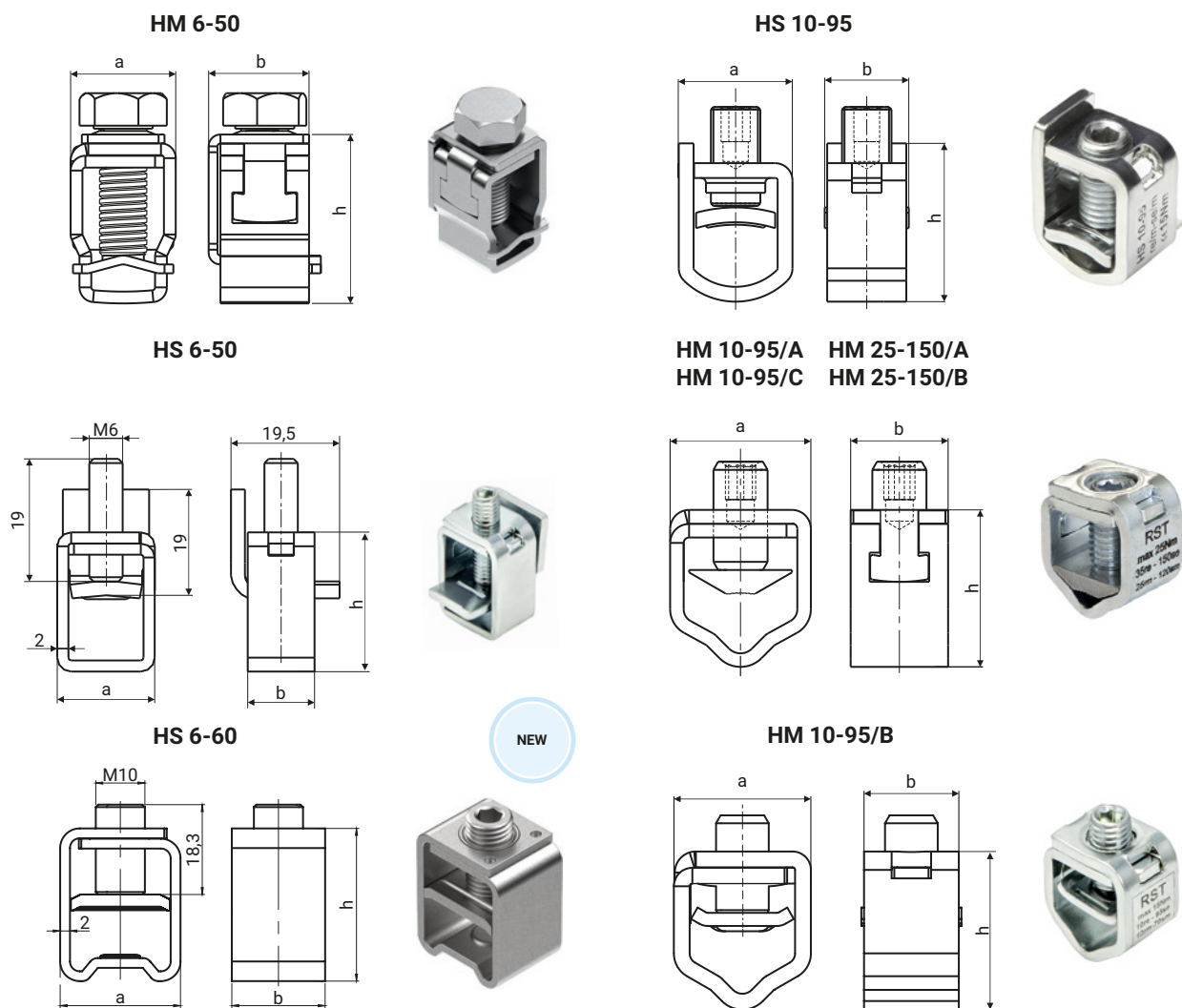
 **rm** - round multiwire conductor (flexible)

 **re** - round conductor (rigid)

| DETAIL       | CROSS-SECTION [mm <sup>2</sup> ] |        | MAX TIGHTENING TORQUE [Nm] |
|--------------|----------------------------------|--------|----------------------------|
|              | rm                               | re     |                            |
| UAC 2/70-300 | 70-150                           | 70-300 | 45                         |
| UAC 3/70-300 | 70-150                           | 70-300 | 45                         |
| UAC 4/50-240 | 50-240                           | 50-120 | 45                         |

|         | UAC 2/70-300, UAC 3/70-300, UAC 4/50-240 |
|---------|------------------------------------------|
| housing | Aluminium alloy (AlMgSi) tin-plated      |
| screw   | Tin-plated aluminium                     |

# Screw clamps v-klema type HM, HS steel single



| DETAIL      | CROSS-SECTION [mm <sup>2</sup> ] |        |        |        | NOMINAL<br>CROSS-SECTION<br>[mm <sup>2</sup> ] | MAX<br>TIGHTENING<br>TORQUE [Nm] | DIMENSIONS |    |      |
|-------------|----------------------------------|--------|--------|--------|------------------------------------------------|----------------------------------|------------|----|------|
|             | sm                               | se     | rm     | re     |                                                |                                  | a          | b  | h    |
| HM 6-50     | 25-50                            | 25-50  | 6-50   | 6-50   | 50                                             | 8                                | 18         | 16 | 30   |
| HM 10-95/A  | 25-95                            | 20-120 | 10-70  | 10-70  | 95                                             | 15                               | 26         | 18 | 30   |
| HM 10-95/B  | 25-95                            | 20-120 | 10-70  | 10-70  | 95                                             | 15                               | 26         | 18 | 30   |
| HM 10-95/C  | 25-95                            | 20-120 | 10-70  | 10-70  | 95                                             | 15                               | 26         | 18 | 30   |
| HM 25-150/A | 25-120                           | 35-150 | 25-120 | 35-120 | 95                                             | 25                               | 26         | 18 | 31,5 |
| HM 25-150/B | 25-120                           | 35-150 | 25-120 | 35-120 | 95                                             | 25                               | 26         | 18 | 31,5 |
| HS 6-50     | -                                | -      | 6-50   | 6-50   | 50                                             | 6                                | 17,5       | 12 | 25   |
| HS 6-60     | -                                | -      | 6-120  | 6-95   | 95                                             | 10                               | 24,5       | 19 | 31   |
| HS 10-95    | 25-95                            | 25-95  | 10-95  | 10-70  | 95                                             | 15                               | 23         | 16 | 32   |

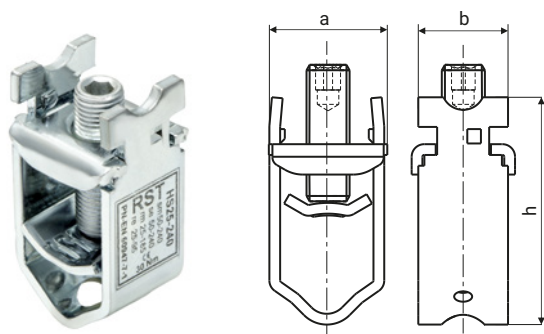
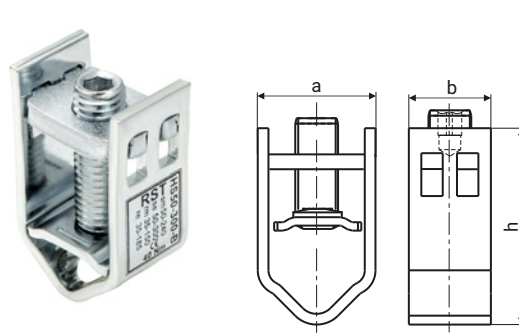
|                | HM 10-95/A       | HM 10-95/B               | HM 10-95/C               | HM 25-150/A      | HM 25-150/B       |
|----------------|------------------|--------------------------|--------------------------|------------------|-------------------|
| <b>Housing</b> | Stainless steel  | Spring steel zinc-plated | Spring steel zinc-plated | Stainless steel  | Steel zinc-plated |
| <b>Clamp</b>   | Brass tin-plated | Spring steel zinc-plated | Brass tin-plated         | Brass tin-plated | Brass tin-plated  |
| <b>Screw</b>   | Stainless steel  | Steel zinc-plated        | Steel zinc-plated        | Stainless steel  | Steel zinc-plated |

|                | HM 6-50                  | HS 6-50           | HS 10-95 | HS 6-60 |
|----------------|--------------------------|-------------------|----------|---------|
| <b>Housing</b> | Spring steel zinc-plated | Steel zinc-plated |          |         |
| <b>Clamp</b>   | Spring steel zinc-plated |                   |          |         |
| <b>Screw</b>   | Steel zinc-plated        |                   |          |         |

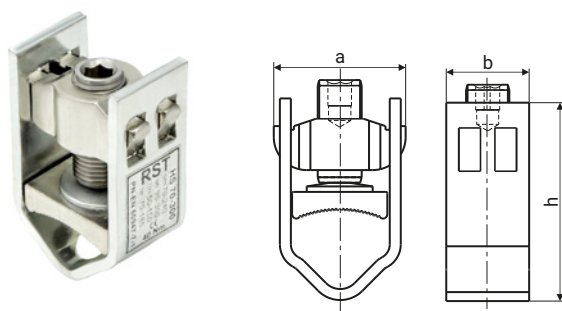
\* Screw clamps conform to EN 60947-7-1 (IEC 60947-7-1)

# Screw clamps v-klema type HS, HW steel single

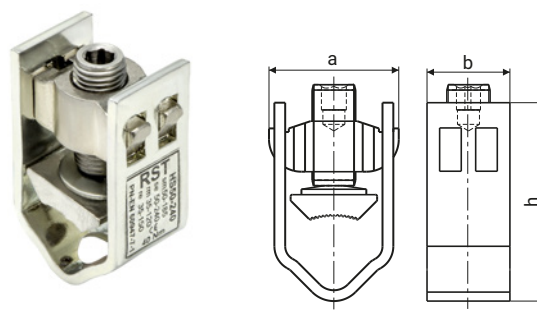
HS 25-240

HS 35-300-B  
HS 50-300-B

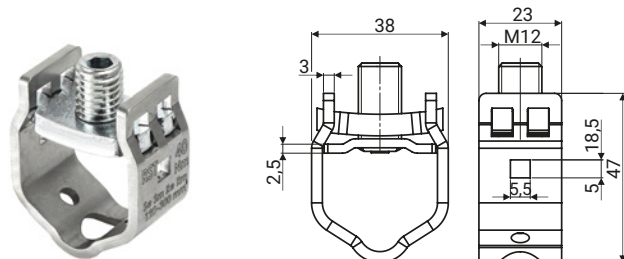
HS 70-300



HS 50-240

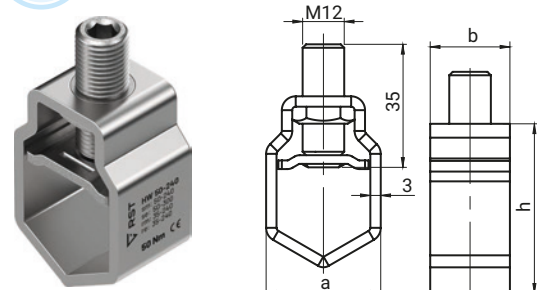


HS 120-300



NEW

HW 50-240

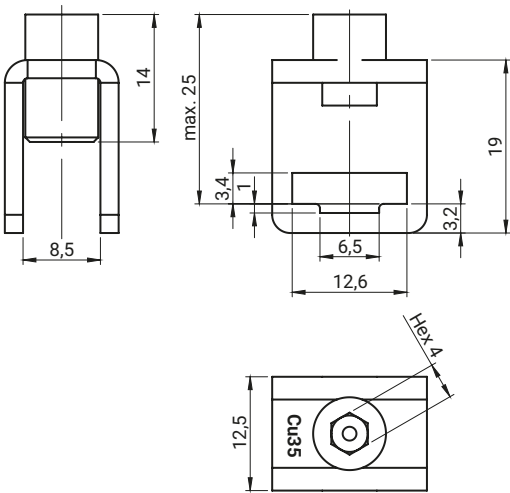


- sm** - multiwire sector shaped conductor (flexible)
 **rm** - round multiwire conductor (flexible)
- se** - sector shaped conductor (rigid)
 **re** - round conductor (rigid)

| DETAIL      | CROSS-SECTION [mm <sup>2</sup> ] |         |         |         | NOMINAL<br>CROSS-SECTION<br>[mm <sup>2</sup> ] | MAX<br>TIGHTENING<br>TORQUE [Nm] | DIMENSIONS |    |    |
|-------------|----------------------------------|---------|---------|---------|------------------------------------------------|----------------------------------|------------|----|----|
|             | sm                               | se      | rm      | re      |                                                |                                  | a          | b  | h  |
| HS 25-240   | 50-240                           | 50-240  | 25-185  | 25-95   | 240                                            | 30                               | 33         | 25 | 63 |
| HS 50-240   | 50-185                           | 50-240  | 35-120  | 35-150  | 150                                            | 40                               | 35         | 22 | 55 |
| HS 70-300   | 70-240                           | 95-300  | 50-150  | 70-185  | 185                                            | 40                               | 35         | 22 | 55 |
| HS 35-300-B | 35-240                           | 35-300  | 35-300  | 35-185  | 185                                            | 40                               | 35         | 22 | 55 |
| HS 50-300-B | 50-240                           | 70-300  | 50-300  | 50-185  | 185                                            | 40                               | 35         | 22 | 55 |
| HS 120-300  | 120-300                          | 120-300 | 120-300 | 120-300 | 300                                            | 40                               | 38         | 23 | 47 |
| HW 50-240   | 50-240                           | 50-300  | 35-240  | 35-240  | 185                                            | 50                               | 31,5       | 23 | 51 |

|         | HS 25-240                | HS 50-240        | HS 70-300 | HS 35-300-B              | HS 50-300-B | HS 120-300      | HW 50-240 |
|---------|--------------------------|------------------|-----------|--------------------------|-------------|-----------------|-----------|
| Housing | Spring steel zinc-plated |                  |           |                          |             | Stainless steel |           |
| Clamp   | Spring steel zinc-plated | Brass tin-plated |           | Spring steel zinc-plated |             |                 |           |
| Screw   | Steel zinc-plated        |                  |           |                          |             |                 |           |
| Nut     | Steel zinc-plated        | Brass tin-plated |           | Steel zinc-plated        |             |                 |           |

\* Screw clamps conform to EN 60947-7-1 (IEC 60947-7-1)



re - round conductor ( rigid)

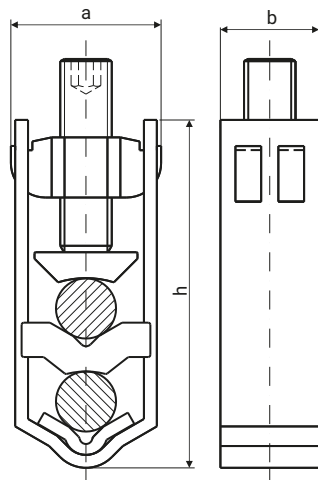


rm - round multiwire conductor (flexible)

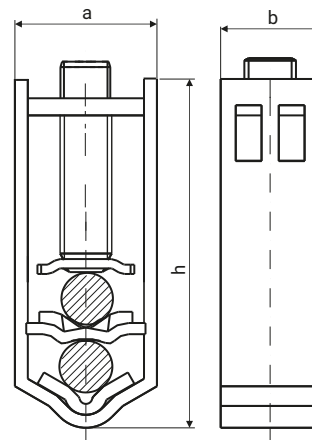
| CATALOGUE NUMBER                          | COMPONENTS     | MATERIAL          |
|-------------------------------------------|----------------|-------------------|
| HS 20                                     | Housing, Screw | Steel zinc-plated |
| TECHNICAL DATA                            |                |                   |
| Busbar thickness:                         | 2-3 mm         |                   |
| Busbar width:                             | 10 mm          |                   |
| Suitable for / Application:               | Flat busbar    |                   |
| Clamp width:                              | 12,5 mm        |                   |
| Conductor cross-section:                  | 2,5 - 35 mm²   |                   |
| Product series:                           | N/PE           |                   |
| Max. rated operational current Ie:        | 135 A          |                   |
| Suitable for round conductor connection:  | Yes            |                   |
| Suitable for sector conductor connection: | No             |                   |
| Suitable for strip conductor connection:  | No             |                   |

# Screw clamps v-klema type HS steel double

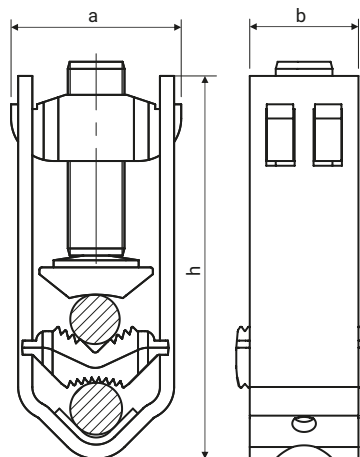
HS 2/50-240



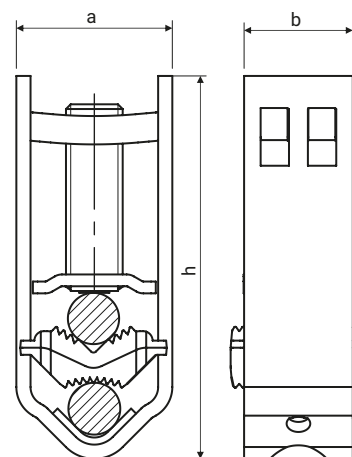
HS 2/50-240-B



HS 2/50-240-D



HS 2/50-240-E



- sm** - multiwire sector shaped conductor (flexible)
 **rm** - round multiwire conductor (flexible)
- se** - sector shaped conductor (rigid)
 **re** - round conductor (rigid)

| DETAIL        | CROSS-SECTION [mm <sup>2</sup> ] |        |        |        | NOMINAL<br>CROSS-SECTION<br>[mm <sup>2</sup> ] | MAX<br>TIGHTENING<br>TORQUE [Nm] | DIMENSIONS |    |    |
|---------------|----------------------------------|--------|--------|--------|------------------------------------------------|----------------------------------|------------|----|----|
|               | sm                               | se     | rm     | re     |                                                |                                  | a          | b  | h  |
| HS 2/50-240   | 50-185                           | 50-240 | 35-150 | 35-185 | 185                                            | 40                               | 35         | 22 | 81 |
| HS 2/50-240-B | 35-240                           | 35-300 | 35-300 | 50-185 | 185                                            | 40                               | 35         | 22 | 81 |
| HS 2/50-240-D | 50-185                           | 50-240 | 35-150 | 35-185 | 185                                            | 40                               | 36         | 23 | 81 |
| HS 2/50-240-E | 35-240                           | 35-300 | 35-300 | 50-185 | 185                                            | 40                               | 35         | 23 | 81 |

|                   | HS 2/50-240              | HS 2/50-240-B            | HS 2/50-240-D    | HS 2/50-240-E     |
|-------------------|--------------------------|--------------------------|------------------|-------------------|
| Clamp             | Brass tin-plated         | Steel zinc-plated        | ZAMAK tin-plated | Steel zinc plated |
| Housing           | Spring steel zinc-plated |                          |                  |                   |
| Screw             | Steel zinc-plated        |                          |                  |                   |
| Compression plate | Brass tin-plated         |                          | ZAMAK tin-plated |                   |
| Nut               | Brass tin-plated         | Spring steel zinc-plated | Brass tin-plated | Steel zinc plated |

\* Screw clamps conform to EN 60947-7-1 (IEC 60947-7-1)

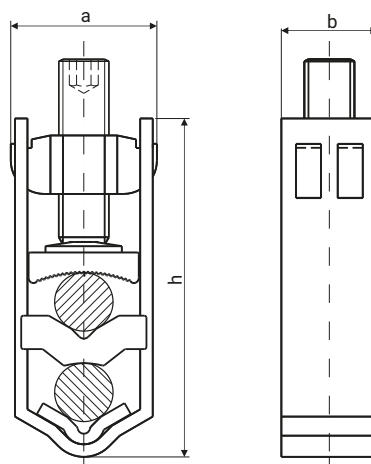
# Screw clamps v-klema type

## HS steel double 2/70-300

## HS steel triple 3/50-240



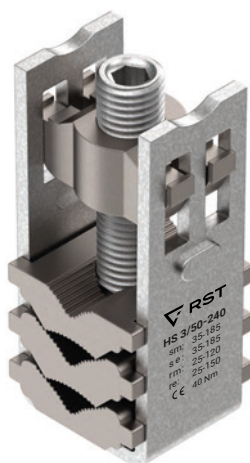
HS 2/70-300



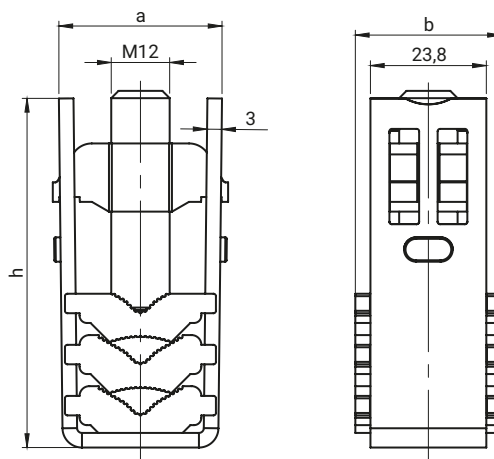
| DETAIL            | CROSS-SECTION [mm <sup>2</sup> ] |        |        |        | NOMINAL<br>CROSS-SECTION<br>[mm <sup>2</sup> ] | MAX<br>TIGHTENING<br>TORQUE [Nm] | DIMENSIONS |    |    |
|-------------------|----------------------------------|--------|--------|--------|------------------------------------------------|----------------------------------|------------|----|----|
|                   | sm                               | se     | rm     | re     |                                                |                                  | a          | b  | h  |
| HS 2/70-300       | 70-240                           | 95-300 | 50-120 | 70-150 | 185                                            | 30                               | 35         | 22 | 81 |
| HS 2/70-300       |                                  |        |        |        |                                                |                                  |            |    |    |
| Clamp             | Brass tin-plated                 |        |        |        |                                                |                                  |            |    |    |
| Housing           | Spring steel zinc-plated         |        |        |        |                                                |                                  |            |    |    |
| Screw             | Steel zinc-plated                |        |        |        |                                                |                                  |            |    |    |
| Compression plate | Brass tin-plated                 |        |        |        |                                                |                                  |            |    |    |
| Nut               | Brass tin-plated                 |        |        |        |                                                |                                  |            |    |    |

\* Screw clamps conform to EN 60947-7-1 (IEC 60947-7-1)

NEW



HS 3/50-240



| DETAIL      | CROSS-SECTION [mm <sup>2</sup> ] |        |        |        | NOMINAL<br>CROSS-SECTION<br>[mm <sup>2</sup> ] | MAX<br>TIGHTENING<br>TORQUE [Nm] | DIMENSIONS |    |      |
|-------------|----------------------------------|--------|--------|--------|------------------------------------------------|----------------------------------|------------|----|------|
|             | sm                               | se     | rm     | re     |                                                |                                  | a          | b  | h    |
| HS 3/50-240 | 35-185                           | 35-185 | 25-120 | 25-150 | 180                                            | 40                               | 33,5       | 30 | 71,7 |
| HS 3/50-240 |                                  |        |        |        |                                                |                                  |            |    |      |
| Clamp       | Brass tin-plated                 |        |        |        |                                                |                                  |            |    |      |
| Housing     | Steel zinc-plated                |        |        |        |                                                |                                  |            |    |      |
| Screw       | Steel zinc-plated                |        |        |        |                                                |                                  |            |    |      |
| Nut         | Brass tin-plated                 |        |        |        |                                                |                                  |            |    |      |

 sm - multiwire sector shaped conductor (flexible)

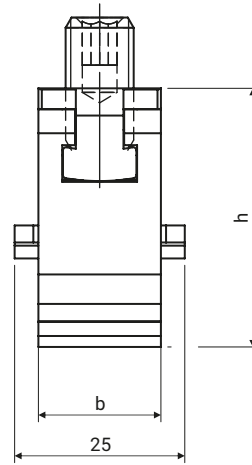
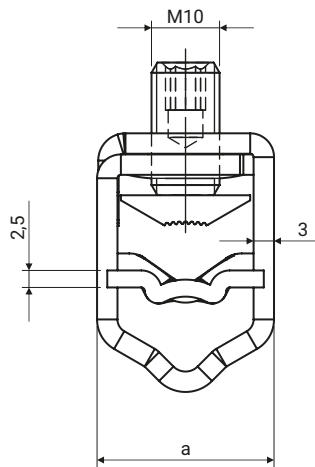
 rm - round multiwire conductor (flexible)

 se - sector shaped conductor (rigid)

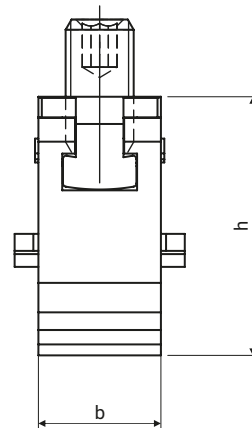
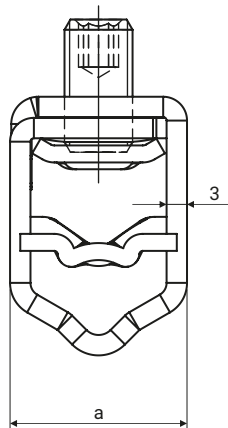
 re - round conductor (rigid)

# Screw clamps v-klema type HM steel double

**HM 2/10-70-A**



**HM 2/10-70-B**



**sm** - multiwire sector shaped conductor (flexible)

**rm** - round multiwire conductor (flexible)

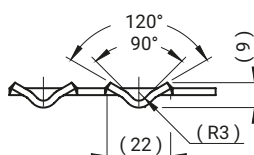
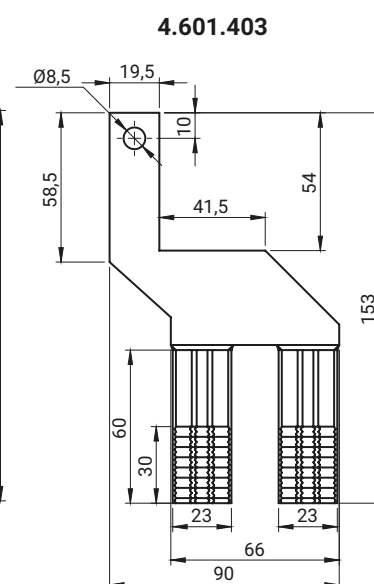
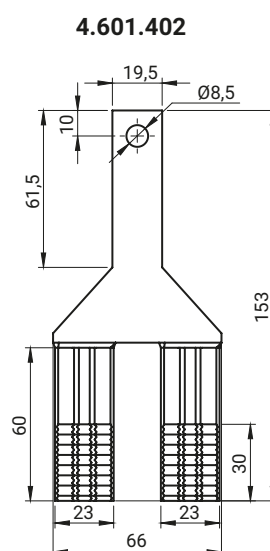
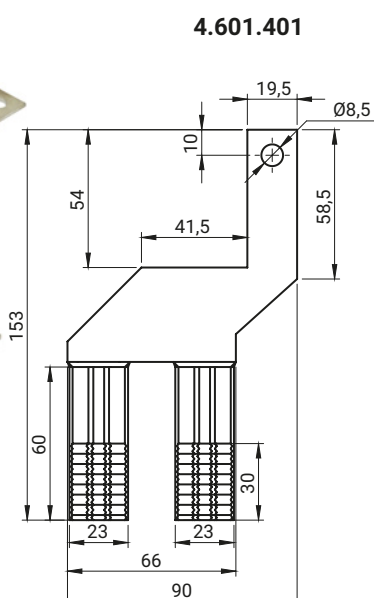
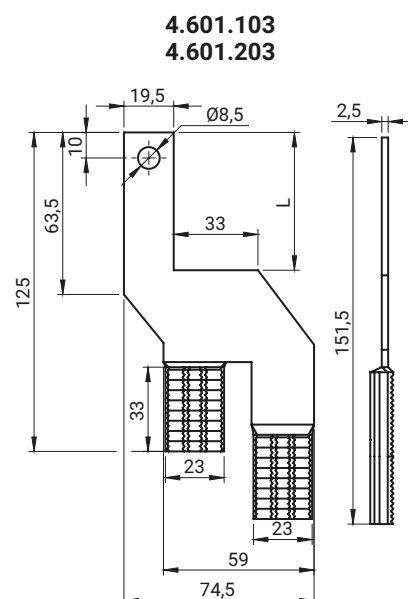
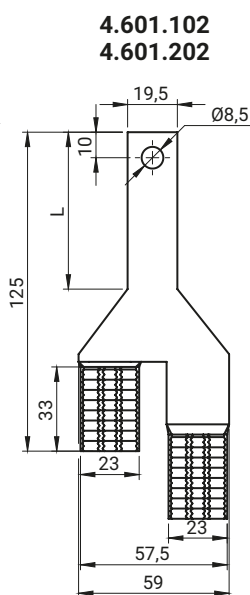
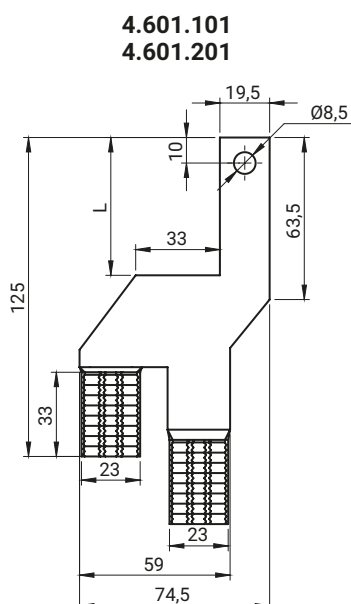
**se** - sector shaped conductor (rigid)

**re** - round conductor (rigid)

| DETAIL       | CROSS-SECTION [mm <sup>2</sup> ] |       |       |       | MAX<br>TIGHTENING<br>TORQUE [Nm] | DIMENSIONS |    |    |
|--------------|----------------------------------|-------|-------|-------|----------------------------------|------------|----|----|
|              | sm                               | se    | rm    | re    |                                  | a          | b  | h  |
| HM 2/10-70-A | 10-50                            | 10-70 | 10-35 | 10-50 | 15                               | 26         | 18 | 38 |
| HM 2/10-70-B | 10-50                            | 10-70 | 10-35 | 10-50 | 15                               | 26         | 18 | 38 |

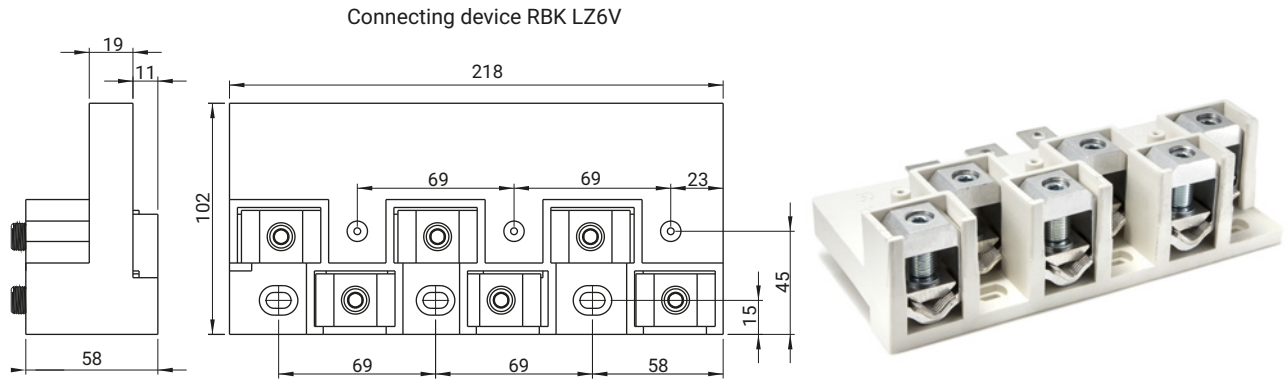
|                          | HM 2/10-70-A      | HM 2/10-70-B      |
|--------------------------|-------------------|-------------------|
| <b>Clamp</b>             | Brass tin-plated  | Steel zinc-plated |
| <b>Housing</b>           | Steel zinc-plated | Steel zinc-plated |
| <b>Screw</b>             | Steel zinc-plated | Steel zinc-plated |
| <b>Compression plate</b> | Copper tinned     | Copper tinned     |

\* Screw clamps conform to EN 60947-7-1 (IEC 60947-7-1)



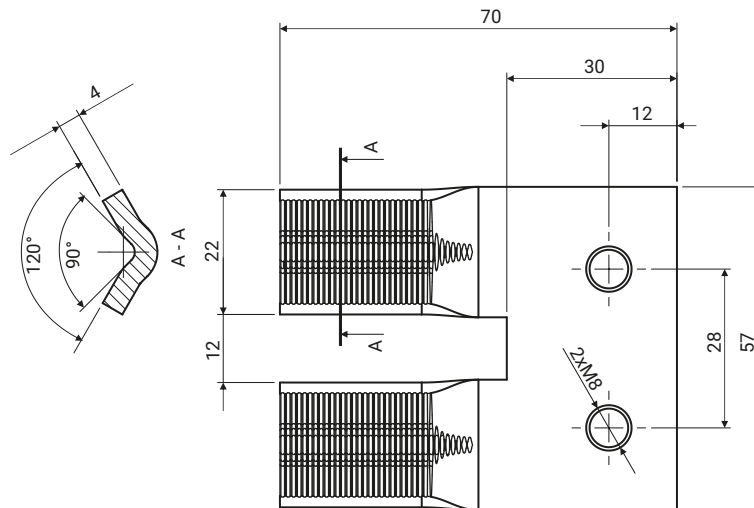
| CATALOGUE NO. | L [mm] | NAME      | MATERIAL          |
|---------------|--------|-----------|-------------------|
| 4.601.101     | 54     | Terminals | Tin-plated copper |
| 4.601.201     | 42     |           |                   |
| 4.601.102     | 63,5   |           |                   |
| 4.601.202     | 50     |           |                   |
| 4.601.103     | 54     |           |                   |
| 4.601.203     | 42     |           |                   |
| 4.601.401     | -      |           |                   |
| 4.601.402     | -      |           |                   |
| 4.601.403     | -      |           |                   |

# Connecting device RBK LZ6V Terminal 4.603



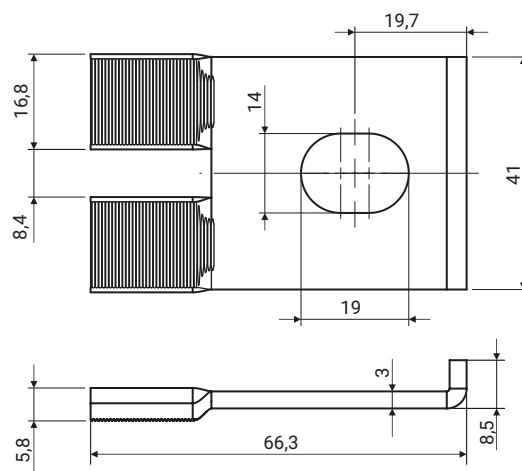
Terminals for connecting device 4.601.001

| CATALOGUE NO. | NAME                   | MATERIAL                     |
|---------------|------------------------|------------------------------|
| 4.601.001     | Connecting device LZ6V | Polyamide PA6 - colour white |



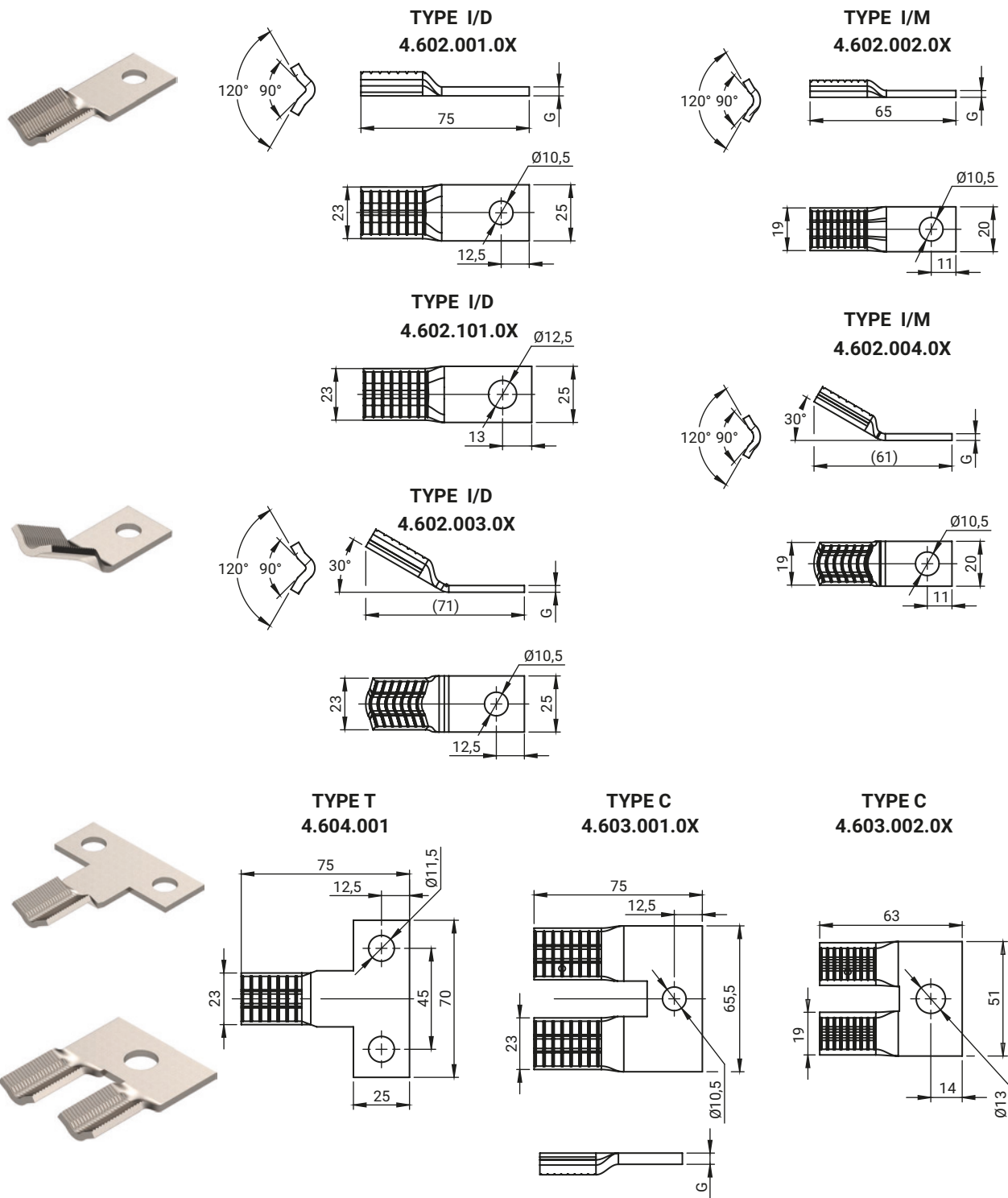
Terminal is dedicated to clamps pg.: 4-1 (in main catalogue) except 25-120 SW, 25-120 SW-B; 4-2 except 2,25-120 SW, 2/25-120 SW-B; 4-7; 4-8.

| CATALOGUE NO. | DETAIL   | MATERIAL          |
|---------------|----------|-------------------|
| 4.603.003     | Terminal | Tin-plated copper |



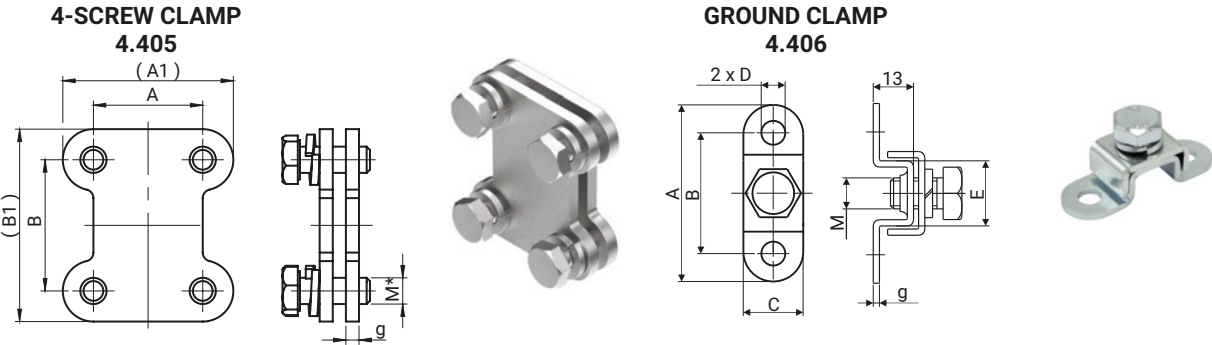
Terminal is dedicated to clamps HS 10-95 (pg. 4-6 in main catalogue)

| CATALOGUE NO. | DETAIL   | MATERIAL          |
|---------------|----------|-------------------|
| 4.603.004     | Terminal | Steel zinc plated |



| CATALOGUE NO. | G  | Version | MATERIAL          |
|---------------|----|---------|-------------------|
|               | mm | Ø       |                   |
| 4.602.001.01  | 3  | 10,5    | Tin-plated copper |
| 4.602.001.02  | 4  |         |                   |
| 4.602.001.03  | 5  |         |                   |
| 4.602.101.01  | 3  | 12,5    |                   |
| 4.602.101.02  | 4  |         |                   |
| 4.602.101.03  | 5  |         |                   |
| 4.602.002.01  | 3  | 10,5    |                   |
| 4.603.001.01  | 3  |         |                   |
| 4.603.001.02  | 4  |         |                   |
| 4.603.001.03  | 5  |         |                   |

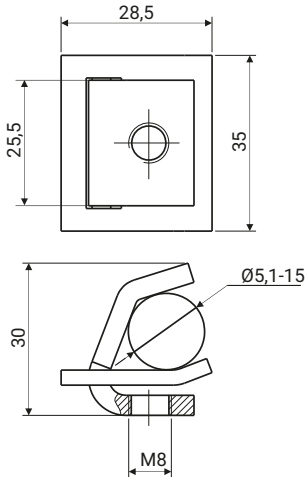
| CATALOGUE NO. | G  | Version | MATERIAL          |
|---------------|----|---------|-------------------|
|               | mm | Ø       |                   |
| 4.603.002.01  | 3  | 13      | Tin-plated copper |
| 4.603.002.02  | 4  |         |                   |
| 4.603.002.03  | 5  |         |                   |
| 4.604.001.01  | 3  | 11,5    |                   |
| 4.602.003.01  | 3  | 10,5    |                   |
| 4.602.003.02  | 4  |         |                   |
| 4.602.003.03  | 5  |         |                   |
| 4.602.004.01  | 3  | 10,5    |                   |
| 4.602.004.02  | 4  |         |                   |
| 4.602.004.03  | 5  |         |                   |



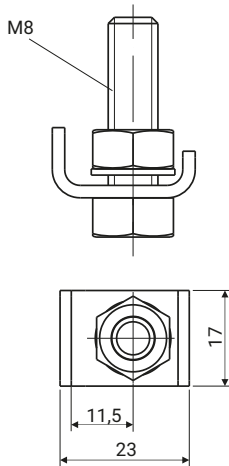
\* DIN 933 screws and DIN 127 washers included.

| CATALOGUE NO. | NAME          | MATERIAL          | A    | A1   | B    | B1   | C  | D     | E  | g   | M      |
|---------------|---------------|-------------------|------|------|------|------|----|-------|----|-----|--------|
| 4.405.001     | 4-Screw clamp | Steel zinc plated | 25   | 39   | 30   | 44   | -  | -     | -  | 3   | M6     |
| 4.405.002     |               |                   | 30   | 44   | 35   | 49   | -  | -     | -  | 3   | M6     |
| 4.405.003     |               |                   | 35   | 49   | 35   | 49   | -  | -     | -  | 3   | M6     |
| 4.405.004     |               |                   | 41,8 | 59,8 | 46,8 | 64,8 | -  | -     | -  | 5   | M8     |
| 4.405.005     |               |                   | 46,8 | 64,8 | 46,8 | 64,8 | -  | -     | -  | 5   | M8     |
| 4.406.001     | Ground clamp  | Steel zinc plated | 53   | -    | 39   | -    | 18 | ø 6,5 | 19 | 2   | M8x16  |
| 4.406.002     |               |                   | 62   | -    | 42   | -    | 21 | ø 8,5 | 22 | 2,5 | M10x16 |

**LINEAR CLAMP - ZLG**  
**4.402.001**



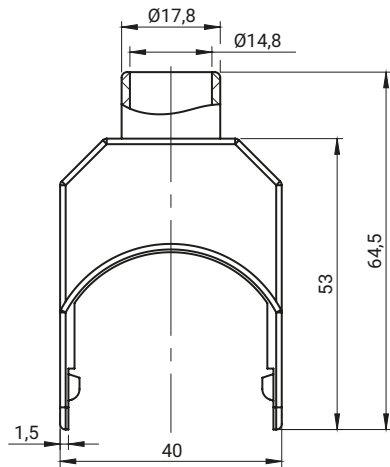
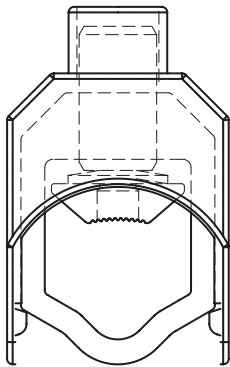
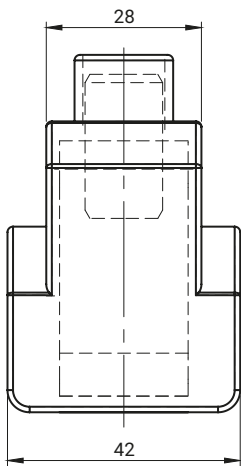
**GROUND HOLDER**  
**4.403.001**



| CATALOGUE NO. | NAME             | MATERIAL          |
|---------------|------------------|-------------------|
| 4.402.001     | Linear clamp ZLG | Stainless steel   |
| 4.403.001     | Ground clamp ZU  | Steel zinc plated |
| 4.403.001SN   |                  | Stainless steel   |



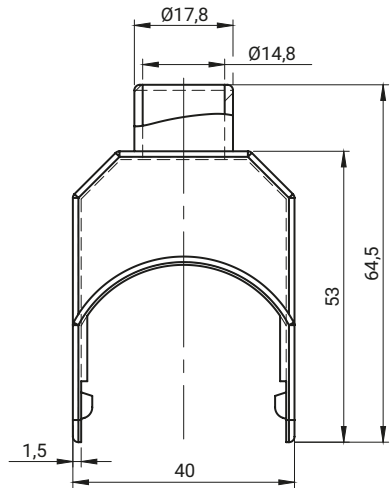
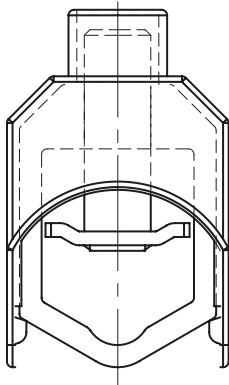
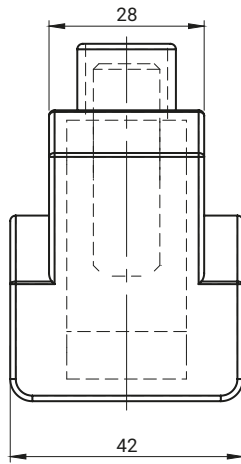
4.520.001.0X



**NOTE:**  
V-clamp covers are designed for screw clamps type 50-240SW, 70-300SW, 50-300SW I 35-240SW.



4.520.002.0X



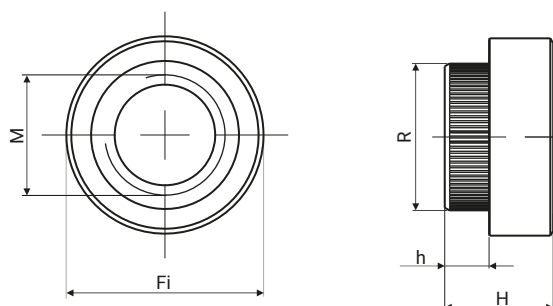
**NOTE:**  
V-clamp covers are designed for screw clamps type VL 25-300SW, VL 50-300SW, VL 70-300SW  
VL 25-300SWZ, VL 50-300SWZ, VL 70-300SWZ (str. 4-4)

| CATALOGUE NO. | NAME          | MATERIAL      |
|---------------|---------------|---------------|
| 4.520.001.0X  | V-klema cover | PA6-polyamide |
| 4.520.002.0X  |               |               |

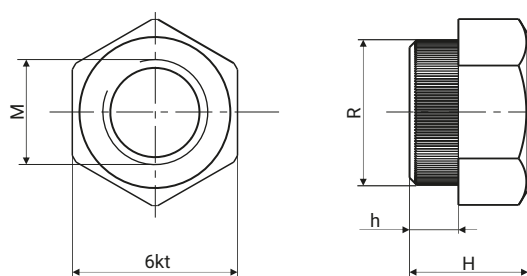
| COLORS [X] |        |
|------------|--------|
| 01         | black  |
| 02         | blue   |
| 03         | red    |
| 04         | green  |
| 05         | yellow |
| 06         | grey   |

# Knurled nuts

## ROUND NUT

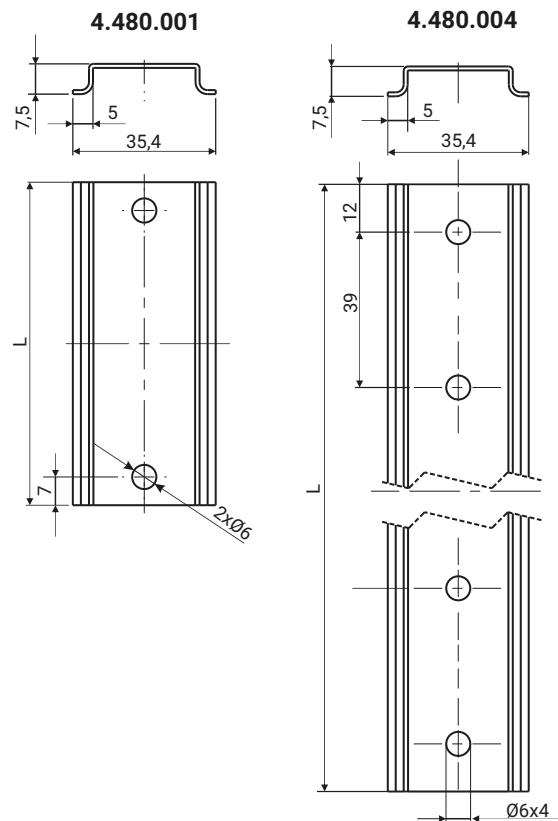
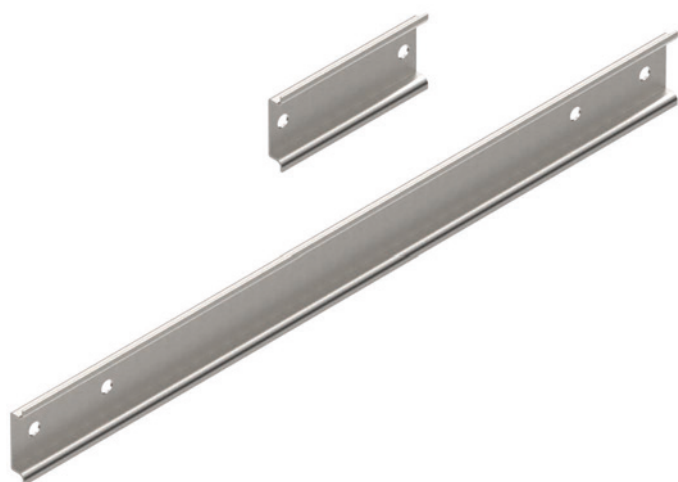


## HEXAGONAL NUT



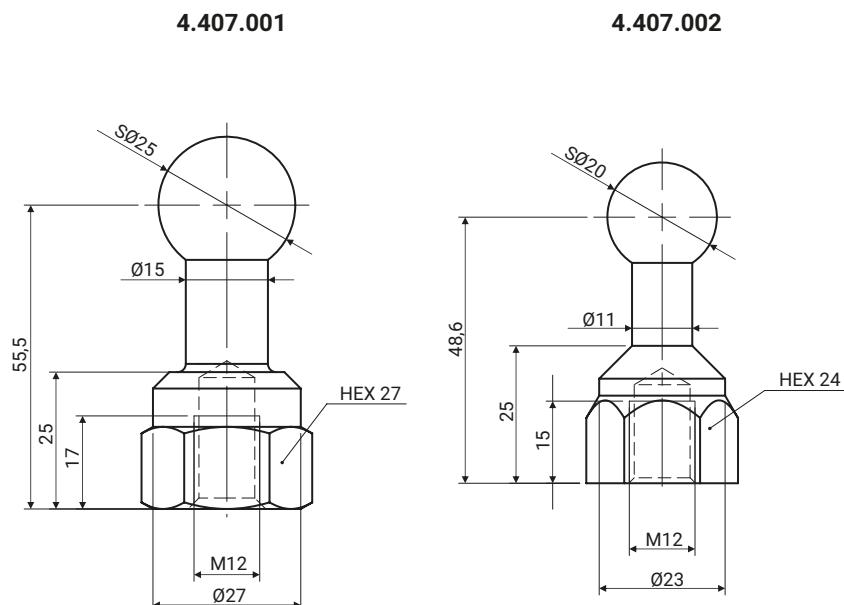
| SHAPE | DIMENSIONS |    |     |      |      |     | MATERIAL            | CATALOGUE NO. |
|-------|------------|----|-----|------|------|-----|---------------------|---------------|
|       | M          | Fi | 6kt | Fi R | H    | h   |                     |               |
|       | 12         | 20 | -   | 14,9 | 11   | 4,5 | Steel - zinc plated | NR.01.00      |
|       | 12         | 20 | -   | 14,9 | 10,5 | 4   | Steel - zinc plated | NR.01.02      |
|       | 12         | 19 | -   | 15   | 11   | 4   | Steel - zinc plated | NR.01.03      |
|       | 10         | 18 | -   | 13   | 11   | 4,5 | Steel - zinc plated | NR.03.01      |
|       | 8          | 15 | -   | 10,8 | 9,5  | 4,5 | Steel - zinc plated | NR.02.01      |
|       | 6          | 12 | -   | 8,5  | 6,8  | 2,8 | Steel - zinc plated | NR.04.01      |
|       | 5          | 10 | -   | 7,5  | 6,8  | 2,8 | Steel - zinc plated | NR.05.01      |
|       | 12         | -  | 19  | 14,8 | 12   | 4,5 | Steel - zinc plated | NR.01.04      |
|       | 10         | -  | 17  | 12,9 | 11   | 4,5 | Steel - zinc plated | NR.03.02      |
|       | 8          | -  | 13  | 10,7 | 9,5  | 4,5 | Steel - zinc plated | NR.02.02      |

# Assembling busbar 4.480, Ball stud 4.407



NOTICE: Other dimensions on request

| CATALOGUE NO. | DIMENSION L | MATERIAL            |
|---------------|-------------|---------------------|
| 4.480.001     | 80          | Steel - zinc plated |
| 4.480.004     | 360         | Steel - zinc plated |



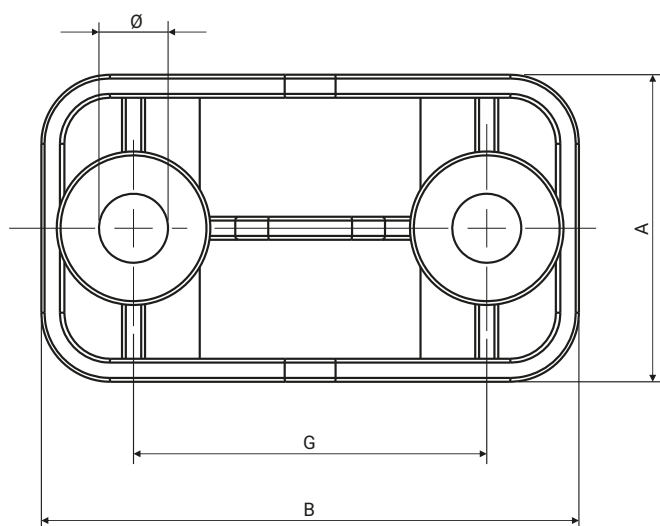
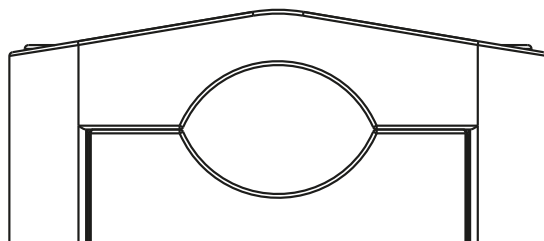
Ball studs mounted on power rails, power cables, or other components of power equipment are used to attach the phase terminals of the earth electrode to the ball studs.

They can be mounted on flat rails, cable head ends, and other components with flat contact surfaces.

Manufactured from pure copper and electrolytically coated with tin.

| CATALOGUE NO. | MATERIAL | FINISH     |
|---------------|----------|------------|
| 4.407.001     | Copper   | Tin-plated |
| 4.407.002     |          |            |

## Cable clasp 4.460, 4.461, 4.462



4.460.001



4.461.001



4.462.001



| CATALOGUE NO. | NAME      | MATERIAL                    | DIAMETER | DIMENSIONS |    |       |    |
|---------------|-----------|-----------------------------|----------|------------|----|-------|----|
|               |           |                             |          | Φ          | A  | B     | G  |
| 4.460.001     | Clasp ø27 | Polyamide PA6<br>colour RAL | 17-27    | 9          | 40 | 70    | 46 |
| 4.461.001     | Clasp ø40 |                             | 25-46    | 12         | 58 | 97    | 68 |
| 4.462.001     | Clasp ø75 |                             | 47-73    | 13         | 60 | 126,5 | 95 |