

# INDUSTRIAL FITTINGS - clips, clamps, ferrules

## Band-It® banding assembly system

Band-It® banding assembly system is designed to attach a fitting to an industrial hose by tightening a steel band on the hose. Made of stainless or acid resistant steel, Band-It® system can be used in particularly heavy duty working conditions such as: very big mechanical loads, vibrations, fire hazard, corrosive environment, very high or low temperatures, UV radiation, application with special hygienic requirements.



Using special assembly tools the bands are fastened and locked with appropriate buckles to make a clamp of high durability and mechanical resistance. In order to select the band, take into account: external hose diameter, fitting type and dimensions (length of a „tail“, number of corrugations and distance between them) but also the working pressure of the hose assembly. Depending on all these parameters, one, two or three bands can be applied.




### Band-It® Standard

A basic banding system utilizes reels of steel band that can be fastened to form clamps on hoses of any diameter (double band wrap is recommended). The ears of buckles protect the end of the band after folding. GIANT version for heavy duty application (for large diameter hoses - above 150 mm).

Assembly with BD-C07599, BD-C00189, BD-C00399 tools, for GIANT band - BD-G40299.

| picture   | code<br>(AISI 201) | code<br>(AISI 304) | code<br>(AISI 316) | band<br>width<br>[inch] | strength<br>[kG] |     |     | length<br>[m] |
|---|--------------------|--------------------|--------------------|-------------------------|------------------|-----|-----|---------------|
|   |                    |                    |                    |                         | 201              | 304 | 316 |               |
|  | STANDARD           |                    |                    |                         |                  |     |     |               |
|   | BD-C20299          | -                  | BD-C40299          | 1/4                     | 230              | -   | 180 | 30.5          |
|   | BD-C20399          | BD-C92399          | BD-C40399          | 3/8                     | 410              | 410 | 340 | 30.5          |
|   | BD-C20499          | BD-C92499          | BD-C40499          | 1/2                     | 680              | 610 | 545 | 30.5          |
|   | BD-C20599          | BD-C92599          | BD-C40599          | 5/8                     | 850              | 725 | 680 | 30.5          |
|   | BD-C20699          | BD-C92699          | BD-C40699          | 3/4                     | 1020             | 910 | 820 | 30.5          |
|   | GIANT              |                    |                    |                         |                  |     |     |               |
|   | BD-G43099          | -                  | -                  | 3/4                     | 1500             | -   | -   | 30.5          |
|   | BD-G43199          | -                  | -                  | 1                       | 2000             | -   | -   | 30.5          |
|   | BD-G43299          | -                  | -                  | 1.1/4                   | 2500             | -   | -   | 30.5          |
|  | STANDARD           |                    |                    |                         |                  |     |     |               |
|   | BD-C203Y           | BD-C923Y           | BD-C403Y           | 3/8                     | 410              | 410 | 340 | 30.5          |
|   | BD-C204B           | BD-C924B           | BD-C404B           | 1/2                     | 680              | 610 | 545 | 30.5          |
|   | BD-C205G           | BD-C925G           | BD-C405G           | 5/8                     | 850              | 725 | 680 | 30.5          |
|   | BD-C206R           | BD-C926R           | BD-C406R           | 3/4                     | 1020             | 910 | 820 | 30.5          |

| picture   | code<br>(AISI 201) | code<br>(AISI 304) | code<br>(AISI 316) | band width<br>[inch] | package<br>[pcs] |
|---|--------------------|--------------------|--------------------|----------------------|------------------|
|  | STANDARD           |                    |                    |                      |                  |
|   | BD-C25299          | BD-C95299          | BD-C45299          | 1/4                  | 100              |
|   | BD-C25399          | BD-C95399          | BD-C45399          | 3/8                  | 100              |
|   | BD-C25499          | BD-C95499          | BD-C45499          | 1/2                  | 100              |
|   | BD-C25599          | BD-C95599          | BD-C45599          | 5/8                  | 100              |
|   | BD-C25699          | BD-C95699          | BD-C45699          | 3/4                  | 100              |
|   | GIANT              |                    |                    |                      |                  |
|   | BD-G44099          | -                  | -                  | 3/4                  | 25               |
|   | BD-G44199          | -                  | -                  | 1                    | 25               |
|   | BD-G44299          | -                  | -                  | 1.1/4                | 25               |

# INDUSTRIAL FITTINGS - clips, clamps, ferrules

## Band-It® banding assembly system



### Band-It® Junior






A banding system that comprises band in pieces preformed to make double wrap clamps with built-in buckles. The smooth band properly mounted on a smooth, uncorrugated hose ensures tight connection of a fitting which reduces leaks paths into a clamp itself. Assembly with BD-C00189 tool and BD-J00199 adapter.

| picture   | code<br>(AISI 201) | code<br>(AISI 316) | band width<br>[inch] | band thickness<br>[mm] | maximum<br>diameter wrap<br>[mm] | package<br>[pcs] |
|-----------|--------------------|--------------------|----------------------|------------------------|----------------------------------|------------------|
|           | BD-JS2409          | -                  | 1/4                  | 0.51                   | 20                               | 100              |
|           | BD-JS2429          | -                  |                      |                        | 25                               | 100              |
|           | BD-JS2419          | -                  |                      |                        | 34                               | 100              |
|           | BD-JS2529          | -                  |                      |                        | 38                               | 100              |
|           | BD-JS2539          | -                  |                      |                        | 50                               | 100              |
|           | BD-JS2209          | -                  |                      |                        | 63                               | 100              |
|           | BD-JS2569          | -                  |                      |                        | 69                               | 100              |
|           | BD-JS2449          | -                  |                      |                        | 76                               | 100              |
|           | BD-JS2579          | -                  |                      |                        | 88                               | 100              |
|           | BD-JS2589          | -                  |                      |                        | 101                              | 100              |
|           | BD-JS2599          | -                  |                      |                        | 114                              | 100              |
|           | BD-JS2019          | BD-JS4019          | 3/8                  | 0.64                   | 20                               | 100              |
|           | BD-JS2439          | -                  |                      |                        | 25                               | 100              |
|           | BD-JS2029          | BD-JS4029          |                      |                        | 34                               | 100              |
|           | BD-JS2459          | BD-JS4459          |                      |                        | 50                               | 100              |
|           | BD-JS2219          | BD-JS4219          |                      |                        | 63                               | 100              |
|           | BD-JS2469          | -                  |                      |                        | 76                               | 100              |
|           | BD-JS2559          | BD-JS4559          | 88                   | 100                    |                                  |                  |
|           | BD-JS2489          | BD-JS4489          | 101                  | 100                    |                                  |                  |
|           | BD-JS2039          | BD-JS4039          | 1/2                  | 0.76                   | 25                               | 100              |
|           | BD-JS2049          | BD-JS4049          |                      |                        | 31                               | 100              |
|           | BD-JS2319          | -                  |                      |                        | 38                               | 100              |
|           | BD-JS2369          | -                  |                      |                        | 44                               | 100              |
|           | BD-JS2379          | BD-JS4379          |                      |                        | 50                               | 100              |
|           | BD-JS2339          | BD-JS4339          |                      |                        | 63                               | 100              |
|           | BD-JS2309          | -                  |                      |                        | 69                               | 100              |
|           | BD-JS2349          | BD-JS4349          |                      |                        | 76                               | 100              |
|           | BD-JS2479          | BD-JS4479          |                      |                        | 88                               | 100              |
|           | BD-JS2499          | BD-JS4499          |                      |                        | 101                              | 100              |
|           | BD-JS2059          | BD-JS4059          |                      |                        | 5/8                              | 0.76             |
|           | BD-JS2069          | BD-JS4069          | 44                   | 100                    |                                  |                  |
|           | BD-JS2079          | BD-JS4079          | 50                   | 100                    |                                  |                  |
|           | BD-JS2089          | BD-JS4089          | 57                   | 100                    |                                  |                  |
|           | BD-JS2099          | BD-JS4099          | 63                   | 100                    |                                  |                  |
|           | BD-JS2279          | BD-JS4279          | 3/4                  | 0.76                   | 50                               | 100              |
|           | BD-JS2109          | BD-JS4109          |                      |                        | 69                               | 50               |
|           | BD-JS2119          | BD-JS4119          |                      |                        | 76                               | 50               |
|           | BD-JS2129          | BD-JS4129          |                      |                        | 88                               | 50               |
|           | BD-JS2139          | BD-JS4139          |                      |                        | 101                              | 25               |
|           | BD-JS2149          | BD-JS4149          |                      |                        | 114                              | 25               |
|           | BD-JS2159          | BD-JS4159          |                      |                        | 127                              | 25               |
|           | BD-JS2709          | BD-JS4709          |                      |                        | 133                              | 25               |
|           | BD-JS2169          | BD-JS4169          |                      |                        | 152                              | 25               |
|           | BD-JS2179          | -                  |                      |                        | 165                              | 25               |
|           | BD-JS2189          | -                  |                      |                        | 177                              | 25               |
| BD-JS2199 | -                  | 203                | 25                   |                        |                                  |                  |

# INDUSTRIAL FITTINGS - clips, clamps, ferrules

## Band-It® banding assembly system

### Tools for Standard and Junior band assembly

| picture   | code      | band width [inch] | application  |
|---|-----------|-------------------|--|
|    | BD-C07599 | 3/16 ÷ 3/4        | Band-It® Standard 1/4"   |
|   | BD-C00189 | 3/16 ÷ 3/4        | Band-It® Standard 3/8" ÷ 3/4"<br>Band-It® Junior - for use with BD-J00199 adapter only |
|  | BD-J00199 | 1/4 ÷ 3/4         | Band-It® Junior - adapter for use with BD-C00189 tool only                             |
|  | BD-C00399 | 3/16 ÷ 3/4        | Band-It® Standard 3/8" ÷ 3/4" used when higher tension is required (heavy duty)        |
|  | BD-G40299 | 3/4 ÷ 1.1/4       | Band-It® Standard Giant  |

# INDUSTRIAL FITTINGS - clips, clamps, ferrules

## Band-It® banding assembly system



### Band-It® Ultra-Lok®

The most robust of all banding systems intended for the most requiring applications. The banding is available as preformed, double wrap clamps with built-in buckles or as band in pieces that allow making a clamp directly on the hose (in a single or double wrap). A double wrap is recommended for superior strength. The smooth band properly mounted on a smooth, uncorrugated hose ensures tight connection of a fitting which reduces leaks paths into a clamp itself. Assembly with BD-UL9010 or BD-UL4000B electric tools.

| picture   | code (AISI 201) | band width * [inch] | band thickness [mm] | maximum diameter wrap [mm] | package [pcs] |
|---|-----------------|---------------------|---------------------|----------------------------|---------------|
| Band (a double wrap clamp with a built-in buckle)<br><br> | BD-UL2799       | 1/2                 | 0.76                | 38                         | 100           |
|   | BD-UL2839       |                     |                     | 50                         | 100           |
|   | BD-UL2869       |                     |                     | 69                         | 100           |
|   | BD-UL2919       |                     |                     | 101                        | 100           |
|   | BD-UL2279       | 3/4                 |                     | 50                         | 100           |
|   | BD-UL2109       |                     |                     | 69                         | 50            |
|   | BD-UL2119       |                     |                     | 76                         | 50            |
|   | BD-UL2129       |                     |                     | 88                         | 50            |
|   | BD-UL2139       |                     |                     | 101                        | 25            |
|   | BD-UL2149       |                     |                     | 114                        | 25            |
|   | BD-UL2159       |                     |                     | 127                        | 25            |
|   | BD-UL2709       |                     |                     | 139                        | 25            |
|   | BD-UL2169       |                     |                     | 152                        | 25            |
|   | BD-UL2179       |                     |                     | 165                        | 25            |
|   | BD-UL2189       |                     |                     | 177                        | 25            |
|   | BD-UL2199       |                     |                     | 203                        | 25            |
|   | BD-UL2289       |                     |                     | 228                        | 10            |


| picture                | code (AISI 201) | band width * [inch] | band length [mm] | maximum diameter wrap [mm] |        | package [pcs] |
|------------------------|-----------------|---------------------|------------------|----------------------------|--------|---------------|
|                        |                 |                     |                  | single                     | double |               |
| Straight bands<br><br> | BD-UL1018       | 1/2                 | 457              | 76                         | -      | 50            |
|                        | BD-UL1024       |                     | 610              | 127                        | 64     | 50            |
|                        | BD-UL1028       |                     | 711              | 152                        | 76     | 50            |
|                        | BD-UL1032       |                     | 813              | 178                        | 89     | 50            |
|                        | BD-UL1036       |                     | 914              | 203                        | 102    | 50            |
|                        | BD-UL1046       |                     | 1168             | 279                        | 140    | 25            |
|                        | BD-UL1056       |                     | 1422             | 356                        | 178    | 25            |
|                        | BD-UL1070       |                     | 1778             | 457                        | 229    | 25            |
|                        | BD-UL1086       |                     | 2184             | 559                        | 280    | 25            |
|                        | BD-UL1096       |                     | 2438             | 635                        | 318    | 25            |
|                        | BD-UL1106       |                     | 2692             | 711                        | 356    | 25            |
|                        | BD-UL1116       |                     | 2946             | 787                        | 394    | 25            |


\* - Use BD- M09387 shear plate to adjust the tool before forming 1/2" clamp.

# INDUSTRIAL FITTINGS - clips, clamps, ferrules

## Band-It® banding assembly system

Band-It® Ultra-Lok® - table follow up

| picture   | code<br>(AISI 201) | band<br>width *<br>[inch] | band<br>length<br>[mm] | maximum diameter wrap<br>[mm] |        | package<br>[pcs] |
|---|--------------------|---------------------------|------------------------|-------------------------------|--------|------------------|
|   |                    |                           |                        | single                        | double |                  |
|  | BD-UL2020          | 3/4                       | 508                    | 102                           | -      | 30               |
|   | BD-UL2024          |                           | 610                    | 140                           | -      | 25               |
|   | BD-UL2028          |                           | 711                    | 152                           | -      | 21               |
|   | BD-UL2032          |                           | 813                    | 178                           | 89     | 19               |
|   | BD-UL2036          |                           | 914                    | 252                           | 102    | 33               |
|   | BD-UL2040          |                           | 1016                   | 254                           | 127    | 30               |
|   | BD-UL2044          |                           | 1118                   | 267                           | 140    | 27               |
|   | BD-UL2048          |                           | 1219                   | 305                           | 153    | 25               |
|   | BD-UL2052          |                           | 1321                   | 330                           | 165    | 23               |
|   | BD-UL2060          |                           | 1524                   | 381                           | 191    | 20               |
|   | BD-UL2068          |                           | 1727                   | 445                           | 216    | 17               |
|   | BD-UL2076          |                           | 1930                   | 508                           | 254    | 15               |
|   | BD-UL2084          |                           | 2134                   | 559                           | 280    | 14               |
|   | BD-UL2092          |                           | 2337                   | 622                           | 305    | 13               |
|   | BD-UL2120          |                           | 3048                   | 826                           | 407    | 10               |
|   | BD-UL2150          |                           | 3810                   | 1029                          | 508    | 8                |
| BD-UL2175   | 4445               | 1232                      | 610                    | 7                             |        |                  |

| picture   | code      | size<br>[inch] | package<br>[pcs] |
|---|-----------|----------------|------------------|
|  | BD-UB2549 | 1/2            | 100              |
|   | BD-UB2569 | 3/4            | 100              |

### Electric tools for Ultra-Lok® band assembly

|  |  |
|--|--|
|  <p>BD-UL9010 (220 V)</p> |  <p>BD-UL4000B (battery)</p> |
|--|--|

# INDUSTRIAL FITTINGS - clips, clamps, ferrules

## Band-It® banding assembly system



### Band-It® Ball-Lok®

Self-locking bands can be assembled manually in a fast and easy way or with the use of tools listed further. Made entirely of AISI 304, AISI 316 steel or as an epoxy coated version (fully or partially coated). The epoxy coating is non-toxic, halogen-free but in the first place, it greatly improves corrosion resistance. The bands are highly resistant to fire, corrosion, UV radiation as well as high and low temperature.

| picture   | code<br>(AISI 304) | code<br>(AISI 316)    | band<br>width<br>[mm] | band<br>length<br>[mm] | maximum<br>diameter wrap<br>[mm] | package<br>[pcs] |     |
|-----------|--------------------|-----------------------|-----------------------|------------------------|----------------------------------|------------------|-----|
|           | uncoated           |                       |                       |                        |                                  |                  |     |
|           | BD-KE1118          | BD-KE0118             | 4.6                   | 150                    | 30                               | 100              |     |
|           | BD-KE1128          | BD-KE0128             |                       | 201                    | 50                               | 100              |     |
|           | BD-KE1138          | BD-KE0138             |                       | 259                    | 69                               | 100              |     |
|           | BD-KE1148          | BD-KE0148             |                       | 360                    | 102                              | 100              |     |
|           | BD-KE1158          | BD-KE0158             |                       | 520                    | 152                              | 100              |     |
|           | BD-KE1168          | BD-KE0168             |                       | 679                    | 203                              | 100              |     |
|           | BD-KE1178          | BD-KE0178             |                       | 838                    | 254                              | 100              |     |
|           | BD-KE1188          | BD-KE0188             |                       | 1067                   | 305                              | 100              |     |
|           | BD-KE1328          | BD-KE0328             | 7.9                   | 201                    | 50                               | 100              |     |
|           | BD-KE1338          | BD-KE0338             |                       | 259                    | 69                               | 100              |     |
|           | BD-KE1348          | BD-KE0348             |                       | 360                    | 102                              | 100              |     |
|           | BD-KE1358          | BD-KE0358             |                       | 520                    | 152                              | 100              |     |
|           | BD-KE1368          | BD-KE0368             |                       | 679                    | 203                              | 100              |     |
|           | BD-KE1378          | BD-KE0378             |                       | 838                    | 254                              | 100              |     |
|           | BD-KE1388          | BD-KE0388             |                       | 1067                   | 305                              | 100              |     |
|           | BD-KE1398          | -                     |                       | 1200                   | 360                              | 100              |     |
|           |                    | epoxy coating         |                       |                        |                                  |                  |     |
|           |                    | partial<br>(AISI 316) | full<br>(AISI 316)    | 4.6                    | 150                              | 30               | 100 |
| BD-KE0618 |                    | BD-KE0218             | 201                   |                        | 50                               | 100              |     |
| BD-KE0628 |                    | BD-KE0228             | 259                   |                        | 69                               | 100              |     |
| BD-KE0638 |                    | BD-KE0238             | 360                   |                        | 102                              | 100              |     |
| BD-KE0648 |                    | BD-KE0248             | 520                   |                        | 152                              | 100              |     |
| BD-KE0658 |                    | BD-KE0258             | 679                   |                        | 203                              | 100              |     |
| BD-KE0668 |                    | BD-KE0268             | 838                   |                        | 254                              | 100              |     |
| BD-KE0678 |                    | BD-KE0278             | 1067                  |                        | 305                              | 100              |     |
| BD-KE0818 |                    | BD-KE0418             | 7.9                   | 150                    | 30                               | 100              |     |
| BD-KE0828 |                    | BD-KE0428             |                       | 201                    | 50                               | 100              |     |
| BD-KE0838 |                    | BD-KE0438             |                       | 259                    | 69                               | 100              |     |
| BD-KE0848 |                    | BD-KE0448             |                       | 360                    | 102                              | 100              |     |
| BD-KE0858 |                    | BD-KE0458             |                       | 520                    | 152                              | 100              |     |
| BD-KE0868 |                    | BD-KE0468             |                       | 679                    | 203                              | 100              |     |
| BD-KE0878 |                    | BD-KE0478             |                       | 838                    | 254                              | 100              |     |

### Tools for Ball-Lok® band assembly

Tool for band tightening and cutting



BD-K50289

Tool for band tightening and cutting



BD-KE9229


# INDUSTRIAL FITTINGS - clips, clamps, ferrules

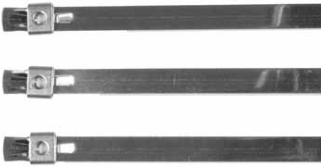
## Band-It® banding assembly system




### Band-It® Tie-Lok®

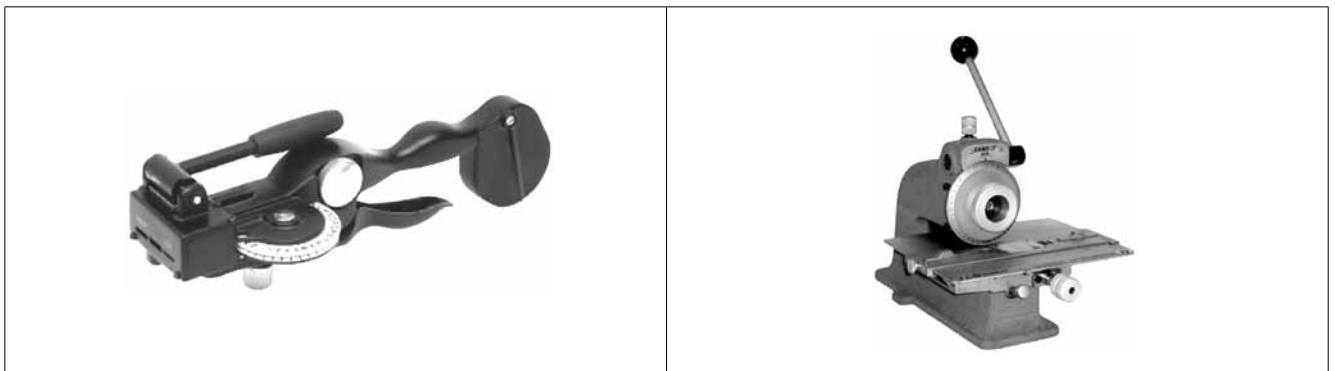
Band-It® marking system utilizes tags for self-marking and for assembly with Tie-Lok® bands. Tie-Lok® is a durable, safe and reliable band with smooth internal layer that features low-profile lock. Marking tools are also available. For details of our offer, contact Sales or Technical Department of TUBES INTERNATIONAL®.

| Identification tag<br> | code<br>(AISI 304) | code<br>(AISI 316) | dimensions<br>[mm] | package<br>[pcs] |
|---|--------------------|--------------------|--------------------|------------------|
|   | BD-ID1009          | BD-ID4409          | 51x19              | 100              |
|   | BD-ID1019          | BD-ID4419          | 63.5x38            | 100              |
|   | BD-ID1029          | BD-ID4429          | 89x19              | 100              |

| Tag band<br> | code<br>(AISI 304) | code<br>(AISI 316) | band width<br>[inch] | length<br>[mm] | maximum<br>diameter wrap<br>[mm] |
|---|--------------------|--------------------|----------------------|----------------|----------------------------------|
|   | BD-AS2119          | BD-AS4119          | 1/4                  | 254            | 51                               |
|   | BD-AS2129          | BD-AS4129          |                      | 419            | 101                              |
|   | BD-AS2139          | BD-AS4139          |                      | 572            | 152                              |
|   | BD-AS2149          | BD-AS4149          |                      | 737            | 203                              |
|   | BD-AS2159          | BD-AS4159          |                      | 889            | 254                              |

| Tensioning and cutting tool for tag<br>band application<br> | code      | band width<br>[inch] | weight<br>[kg] | max. tensile strength<br>[kG] |
|--|-----------|----------------------|----------------|-------------------------------|
|  | BD-A92079 | 1/4                  | 0.45           | 130                           |

### Tag marking tools



## INDUSTRIAL FITTINGS - clips, clamps, ferrules



### CAW

Clamps designed to assemble lightweight PVC and rubber hoses. The smooth internal layer of the band protects the hose against damage. Assembly and disassembly is fast and easy when tools intended for the purpose are used. As made of AISI 304 (W4) stainless steel, it can be used in food, medical, electronic and automotive industry (air conditioning).

| code       | I.D.<br>[mm] | min. / max.<br>diameter range<br>[mm] | band<br>thickness<br>[mm] | band<br>width<br>[mm] |
|------------|--------------|---------------------------------------|---------------------------|-----------------------|
| CL-CAW-070 | 7.0          | 5.7 ÷ 7.0                             | 0.5                       | 5                     |
| CL-CAW-080 | 8.0          | 6.8 ÷ 8.0                             |                           |                       |
| CL-CAW-087 | 8.7          | 7.0 ÷ 8.7                             |                           |                       |
| CL-CAW-090 | 9.0          | 7.3 ÷ 9.0                             |                           |                       |
| CL-CAW-095 | 9.5          | 7.8 ÷ 9.5                             |                           |                       |
| CL-CAW-100 | 10.0         | 8.3 ÷ 10.0                            |                           |                       |
| CL-CAW-105 | 10.5         | 8.8 ÷ 10.5                            |                           |                       |
| CL-CAW-109 | 10.9         | 9.2 ÷ 10.9                            |                           |                       |
| CL-CAW-113 | 11.3         | 9.6 ÷ 11.3                            |                           |                       |
| CL-CAW-118 | 11.8         | 10.1 ÷ 11.8                           |                           |                       |
| CL-CAW-119 | 11.9         | 9.4 ÷ 11.9                            |                           |                       |
| CL-CAW-123 | 12.3         | 9.8 ÷ 12.3                            |                           |                       |
| CL-CAW-128 | 12.8         | 10.3 ÷ 12.8                           |                           |                       |
| CL-CAW-133 | 13.3         | 10.8 ÷ 13.3                           |                           |                       |
| CL-CAW-138 | 13.8         | 11.3 ÷ 13.8                           |                           |                       |
| CL-CAW-140 | 14.0         | 11.5 ÷ 14.0                           |                           |                       |
| CL-CAW-142 | 14.2         | 11.7 ÷ 14.2                           |                           |                       |
| CL-CAW-145 | 14.5         | 12.0 ÷ 14.5                           |                           |                       |
| CL-CAW-148 | 14.8         | 12.3 ÷ 14.8                           |                           |                       |
| CL-CAW-153 | 15.3         | 12.8 ÷ 15.3                           |                           |                       |
| CL-CAW-157 | 15.7         | 13.2 ÷ 15.7                           |                           |                       |
| CL-CAW-160 | 16.0         | 13.5 ÷ 16.0                           |                           |                       |
| CL-CAW-162 | 16.2         | 13.7 ÷ 16.2                           |                           |                       |
| CL-CAW-166 | 16.6         | 14.1 ÷ 16.6                           |                           |                       |
| CL-CAW-168 | 16.8         | 14.3 ÷ 16.8                           |                           |                       |
| CL-CAW-170 | 17.0         | 14.5 ÷ 17.0                           |                           |                       |
| CL-CAW-175 | 17.5         | 15.0 ÷ 17.5                           |                           |                       |
| CL-CAW-178 | 17.8         | 14.6 ÷ 17.8                           |                           |                       |
| CL-CAW-180 | 18.0         | 14.8 ÷ 18.0                           |                           |                       |
| CL-CAW-185 | 18.5         | 15.3 ÷ 18.5                           |                           |                       |

### Tools for CAW clamps assembly

clamping pliers



CL-CLTEN1099

compact pneumatic pliers



CL-UTSV001



# INDUSTRIAL FITTINGS - clips, clamps, ferrules



## DCL

DCL clamps are made of a one-piece band with a locking pawl which prevents accidental unlocking. Clamping force is evenly distributed on the pawl. The smooth internal layer of the band protects the hose against damage. Assembly and disassembly is fast and easy when tools intended for the purpose are used. As made of AISI 304 (W4) stainless steel, it can be used in food, home appliance and automotive industry. Colour-coded stripes on the clamps facilitate identification.

| code       | I.D. [mm] | min. / max. diameter range [mm] | band thickness [mm] | band width [mm] | color  |   |        |
|------------|-----------|---------------------------------|---------------------|-----------------|--------|---|--------|
| CL-DCL-080 | 8.0       | 8.5 ÷ 9.5                       | 0.5                 | 6               | blue   |   |        |
| CL-DCL-085 | 8.5       | 9.0 ÷ 10.0                      |                     |                 | green  |   |        |
| CL-DCL-090 | 9.0       | 9.5 ÷ 11.0                      |                     |                 | violet |   |        |
| CL-DCL-095 | 9.5       | 10.0 ÷ 11.5                     |                     |                 | black  |   |        |
| CL-DCL-100 | 10.0      | 10.5 ÷ 11.5                     |                     |                 | green  |   |        |
| CL-DCL-105 | 10.5      | 11.0 ÷ 12.0                     |                     |                 | blue   |   |        |
| CL-DCL-110 | 11.0      | 11.5 ÷ 12.5                     |                     |                 | green  |   |        |
| CL-DCL-115 | 11.5      | 12.0 ÷ 13.0                     |                     |                 | violet |   |        |
| CL-DCL-120 | 12.0      | 12.5 ÷ 13.5                     |                     |                 | black  |   |        |
| CL-DCL-125 | 12.5      | 13.0 ÷ 14.0                     |                     |                 | red    |   |        |
| CL-DCL-130 | 13.0      | 13.5 ÷ 14.5                     |                     |                 | green  |   |        |
| CL-DCL-135 | 13.5      | 14.0 ÷ 15.0                     |                     |                 | violet |   |        |
| CL-DCL-140 | 14.0      | 14.5 ÷ 15.5                     |                     |                 | 0.6    | 8 | red    |
| CL-DCL-145 | 14.5      | 15.0 ÷ 16.0                     |                     |                 |        |   | violet |
| CL-DCL-150 | 15.0      | 15.5 ÷ 16.5                     | black               |                 |        |   |        |
| CL-DCL-155 | 15.5      | 16.0 ÷ 17.0                     | blue                |                 |        |   |        |
| CL-DCL-160 | 16.5      | 16.5 ÷ 17.5                     | green               |                 |        |   |        |
| CL-DCL-165 | 17.0      | 17.0 ÷ 18.0                     | black               |                 |        |   |        |
| CL-DCL-170 | 17.5      | 17.5 ÷ 18.5                     | red                 |                 |        |   |        |
| CL-DCL-175 | 18.0      | 18.0 ÷ 19.0                     | blue                |                 |        |   |        |
| CL-DCL-180 | 18.5      | 18.5 ÷ 19.5                     | green               |                 |        |   |        |
| CL-DCL-185 | 19.0      | 19.0 ÷ 20.0                     | violet              |                 |        |   |        |
| CL-DCL-190 | 19.5      | 19.5 ÷ 21.0                     | blue                |                 |        |   |        |
| CL-DCL-195 | 20.0      | 20.0 ÷ 21.5                     | black               |                 |        |   |        |
| CL-DCL-200 | 20.5      | 20.5 ÷ 22.0                     | red                 |                 |        |   |        |
| CL-DCL-205 | 21.0      | 21.0 ÷ 22.5                     | blue                |                 |        |   |        |
| CL-DCL-210 | 21.5      | 21.5 ÷ 23.0                     | green               |                 |        |   |        |
| CL-DCL-215 | 22.0      | 22.0 ÷ 23.5                     | violet              |                 |        |   |        |
| CL-DCL-220 | 22.5      | 22.5 ÷ 24.0                     | black               |                 |        |   |        |
| CL-DCL-225 | 23.0      | 23.0 ÷ 24.5                     | red                 |                 |        |   |        |
| CL-DCL-230 | 23.5      | 23.5 ÷ 25.0                     | blue                |                 |        |   |        |
| CL-DCL-235 | 24.0      | 24.0 ÷ 25.5                     | green               |                 |        |   |        |

### Tools for DCL clamps assembly

clamping pliers



CL-CLICUT5201

compact pneumatic pliers



CL-UTSV001

# INDUSTRIAL FITTINGS - clips, clamps, ferrules



## EAR CLIP

EAR CLIP hose clips are simple to use and inexpensive. They are easy and fast to mount with special ear clamp pliers that are also used to disassemble the clips.

### EAR CLIP with 1 ear

| W1 code<br>(galvanized steel) | W4 code<br>(AISI 304) | I.D.<br>[mm] | diameter range<br>[mm] | band thickness<br>[mm] | band width<br>[mm] |
|-------------------------------|-----------------------|--------------|------------------------|------------------------|--------------------|
| AB-03012080                   | AB-23012440           | 9.3          | 7 ÷ 9                  | 0.8                    | 6                  |
| AB-03012072                   | AB-23012087           | 10.3         | 8 ÷ 10                 | 0.8                    | 6                  |
| AB-03012013                   | AB-23012010           | 11.3         | 9 ÷ 11                 | 0.8                    | 6.5                |
| AB-03012021                   | AB-23012028           | 12.3         | 10 ÷ 12                | 0.8                    | 6.5                |
| AB-03012030                   | AB-23012036           | 13.3         | 11 ÷ 13                | 0.9 (W4 - 0.8)         | 6.5                |
| AB-03012048                   | AB-23012044           | 14.3         | 12 ÷ 14                | 1                      | 7                  |
| -                             | AB-23012079           | 15.3         | 13 ÷ 15                | 1                      | 7                  |
| AB-03012056                   | AB-23012052           | 16.3         | 14 ÷ 16                | 1.1 (W4 - 1)           | 7                  |
| AB-03012064                   | AB-23012060           | 18.5         | 16 ÷ 18                | 1.2 (W4 - 1)           | 7                  |
| -                             | AB-23012423           | 19.5         | 17 ÷ 19                | 1                      | 7.5                |
| -                             | AB-23012431           | 20.5         | 18 ÷ 20                | 1                      | 7.5                |

### EAR CLIP with 2 ears

| W1 code<br>(galvanized steel) | W4 code<br>(AISI 304) | I.D.<br>[mm] | diameter range<br>[mm] | band thickness<br>[mm] | band width<br>[mm] |
|-------------------------------|-----------------------|--------------|------------------------|------------------------|--------------------|
| AB-03012101                   | AB-23012108           | 7.3          | 5 ÷ 7                  | 0.6                    | 6                  |
| AB-03012110                   | AB-23012116           | 9.3          | 7 ÷ 9                  | 0.8                    | 6                  |
| AB-03012128                   | AB-23012124           | 11.3         | 9 ÷ 11                 | 0.8                    | 6.5                |
| AB-03012099                   | -                     | 12.3         | 10 ÷ 12                | 0.9                    | 6.5                |
| AB-03012136                   | AB-23012132           | 13.3         | 11 ÷ 13                | 0.9 (W4 - 0.8)         | 6.5                |
| AB-03012144                   | AB-23012140           | 15.3         | 13 ÷ 15                | 1.0                    | 7                  |
| AB-03012152                   | AB-23012159           | 17.5         | 14 ÷ 17                | 1.2 (W4 - 1)           | 7                  |
| AB-03012160                   | AB-23012167           | 18.5         | 15 ÷ 18                | 1.2 (W4 - 1)           | 7.5                |
| AB-03012179                   | AB-23012175           | 20.5         | 17 ÷ 20                | 1.2 (W4 - 1)           | 7.5                |
| AB-03012187                   | AB-23012183           | 21.5         | 18 ÷ 21                | 1.2 (W4 - 1)           | 8                  |
| AB-03012195                   | AB-23012191           | 23.5         | 20 ÷ 23                | 1.3 (W4 - 1)           | 8                  |
| AB-03012208                   | AB-23012204           | 25.5         | 22 ÷ 25                | 1.4 (W4 - 1.2)         | 8.5                |
| AB-03012216                   | -                     | 27.5         | 23 ÷ 27                | 1.4                    | 8.5                |
| AB-03012224                   | -                     | 28.5         | 25 ÷ 28                | 1.4                    | 9                  |
| AB-03012232                   | -                     | 31.5         | 28 ÷ 31                | 1.4                    | 9                  |
| AB-03012240                   | -                     | 34.5         | 31 ÷ 34                | 1.4                    | 9.5                |
| AB-03012259                   | -                     | 37.5         | 34 ÷ 37                | 1.6                    | 9.5                |
| AB-03012267                   | -                     | 40.5         | 37 ÷ 40                | 1.6                    | 10                 |
| AB-03012275                   | -                     | 43.5         | 40 ÷ 43                | 1.6                    | 10                 |
| AB-03012283                   | -                     | 46.5         | 43 ÷ 46                | 1.6                    | 10.5               |



EAR CLIP standard pliers

AB-61001



Flexible hose clamp driver for band clamps

AB-717005

## INDUSTRIAL FITTINGS - clips, clamps, ferrules



### EAR CLIP - W

EAR CLIP hose clips are simple to use and inexpensive. They are easy and fast to mount with special ear clamp pliers that are also used to disassemble the clips. The inner liner protects the hose against any damage.

#### EAR CLIP with 1 ear (with inner liner)

| W1 code<br>(galvanized steel) | W4 code<br>(AISI 304) | I.D.<br>[mm] | diameter range<br>[mm] | band thickness<br>[mm] | band width<br>[mm] |
|-------------------------------|-----------------------|--------------|------------------------|------------------------|--------------------|
| AB-03011009                   | AB-23012300           | 8.5          | 7.5 ÷ 8.5              | 0.8                    | 6                  |
| AB-03011010                   | AB-23012319           | 9.5          | 8 ÷ 9.5                | 0.8                    | 6                  |
| AB-03011029                   | AB-23012327           | 10.5         | 9 ÷ 10.5               | 0.8                    | 6.5                |
| AB-03011037                   | AB-23012335           | 11.5         | 10 ÷ 11.5              | 0.8                    | 6.5                |
| AB-03011045                   | AB-23012343           | 12.5         | 10.5 ÷ 12.5            | 0.9 (W4 - 0.8)         | 6.5                |
| AB-03011053                   | AB-23012351           | 13.3         | 11.5 ÷ 13.3            | 1                      | 7                  |
| -                             | AB-23012360           | 14.5         | 12.5 ÷ 14.5            | 1                      | 7                  |
| AB-03011061                   | AB-23012378           | 15.3         | 13 ÷ 15.3              | 1.1 (W4 - 1)           | 7                  |
| -                             | AB-23012386           | 16.3         | 14 ÷ 16.3              | 1                      | 7                  |
| AB-03011070                   | AB-23012394           | 17.3         | 15 ÷ 17.3              | 1.2 (W4 - 1)           | 7                  |
| -                             | AB-23012407           | 18.3         | 16 ÷ 18.3              | 1                      | 7.5                |
| -                             | AB-23012415           | 19.3         | 17 ÷ 19.3              | 1                      | 7.5                |



### WIRE CLIP

A wire spring clip is designed for quick mounting of low-pressure hoses. Made of zinc-plated spring steel.

| code        | min. diameter<br>[mm] | max. diameter<br>[mm] | wire<br>[mm] |
|-------------|-----------------------|-----------------------|--------------|
| AB-02016012 | 7.3                   | 7.8                   | 1            |
| AB-02016020 | 7.8                   | 8.3                   | 1            |
| AB-02016039 | 8.3                   | 8.8                   | 1            |
| AB-02016047 | 8.8                   | 9.3                   | 1            |
| AB-02016055 | 9.3                   | 9.9                   | 1            |
| AB-02016063 | 9.8                   | 10.4                  | 1.2          |
| AB-02016071 | 10.4                  | 11                    | 1.2          |
| AB-02016080 | 11                    | 11.6                  | 1.2          |
| AB-02016098 | 11.6                  | 12.3                  | 1.5          |
| AB-02016100 | 12.1                  | 13.1                  | 1.5          |
| AB-02016119 | 12.9                  | 13.6                  | 1.5          |
| AB-02016127 | 13.6                  | 14.4                  | 1.5          |
| AB-02016135 | 14.4                  | 15.1                  | 1.8          |
| AB-02016143 | 14.8                  | 15.9                  | 1.8          |
| AB-02016151 | 15.9                  | 16.8                  | 1.8          |
| AB-02016160 | 16.8                  | 17.7                  | 1.8          |
| AB-02016178 | 17.7                  | 18.7                  | 2            |
| AB-02016186 | 18.7                  | 19.6                  | 2            |
| AB-02016194 | 19.6                  | 20.6                  | 2            |

# INDUSTRIAL FITTINGS - clips, clamps, ferrules



## MINI CLIP

Rolled-up edges of a MINI hose clip prevent damage of the hose. A hexagonal, slotted screw head allows screwing with the use of a flexible hose clamp driver.

MINI CLIP W1 - electro zinc-plated carbon steel.

MINI CLIP W4 - made entirely of AISI 304 steel.

| W1 code<br>(carbon steel) | min. diameter<br>[mm] | max. diameter<br>[mm] | tightening torque*<br>[Nm] | max. medium pressure*<br>[bar] |
|---------------------------|-----------------------|-----------------------|----------------------------|--------------------------------|
| AB-03010510               |                       | 6                     | 0.4                        | 15                             |
| AB-03010528               |                       | 8                     | 0.4                        | 14                             |
| AB-03010536               |                       | 9                     | 1                          | 15                             |
| AB-03010544               | 9.5                   | 10                    | 1                          | 14                             |
| AB-03010552               | 10                    | 11                    | 1                          | 13                             |
| AB-03010560               | 12                    | 13                    | 1                          | 12.5                           |
| AB-03010579               | 13                    | 14                    | 1                          | 12.5                           |
| AB-03010587               | 14                    | 15                    | 1                          | 12                             |
| AB-03010595               | 15                    | 17                    | 1                          | 12                             |
| AB-03010608               | 16                    | 18                    | 1                          | 11.5                           |
| AB-03010616               | 18                    | 20                    | 1                          | 10.5                           |
| AB-03010624               | 19                    | 21                    | 1                          | 10.5                           |
| AB-03010632               | 20                    | 22                    | 1                          | 10.5                           |
| AB-03010640               | 22                    | 25                    | 1                          | 9.5                            |
| AB-03010659               | 23                    | 26                    | 1                          | 9                              |
| AB-03010667               | 25                    | 28                    | 1                          | 8.5                            |
| AB-03010675               | 26                    | 29                    | 1                          | 8.5                            |
| AB-03010683               | 29                    | 32                    | 1                          | 8                              |

| W4 code<br>(AISI 304) | size | min. diameter<br>[mm] | max. diameter<br>[mm] | tightening torque*<br>[Nm] |
|-----------------------|------|-----------------------|-----------------------|----------------------------|
| AB-622008             | 8    | 7.5                   | 8.5                   | 1.5                        |
| AB-622009             | 9    | 8.5                   | 9.5                   | 1.5                        |
| AB-622010             | 10   | 9.5                   | 11                    | 1.5                        |
| AB-622011             | 11   | 10.5                  | 12                    | 1.5                        |
| AB-622012             | 12   | 11.5                  | 13                    | 1.5                        |
| AB-622013             | 13   | 12.5                  | 14                    | 1.5                        |
| AB-622014             | 14   | 13.5                  | 15                    | 1.5                        |
| AB-622015             | 15   | 14.5                  | 16                    | 1.5                        |
| AB-622016             | 16   | 15                    | 17                    | 1.5                        |
| AB-622017             | 17   | 16                    | 18                    | 1.5                        |

\* - depending on the type of a hose and connection part.

# INDUSTRIAL FITTINGS - clips, clamps, ferrules



## ASFA-L 9 mm

A general purpose, worm drive hose clamp designed for easy and quick mounting of low-pressure hoses. Manufactured according to the requirements of DIN 3017 standard. W5 version, made entirely of AISI 316 steel, is recommended for food, chemical and marine industry application, etc.

| W1 code<br>(galvanized steel) | W5 code<br>(AISI 316) | min / max<br>diameter range<br>[mm] | band thickness<br>[mm] | tightening torque*<br>[Nm] | max. medium<br>pressure*<br>[bar] |
|-------------------------------|-----------------------|-------------------------------------|------------------------|----------------------------|-----------------------------------|
| AB-03008753                   | AB-03015759           | 8 ÷ 16                              | 0.6                    | 3                          | 45                                |
| AB-03008761                   | AB-03015767           | 12 ÷ 22                             | 0.6                    | 3                          | 45                                |
| AB-03008770                   | AB-03015775           | 16 ÷ 27                             | 0.7                    | 3.5                        | 42                                |
| AB-03008788                   | AB-03015783           | 20 ÷ 32                             | 0.7                    | 3.5                        | 36                                |
| AB-03008796                   | AB-03015804           | 25 ÷ 40                             | 0.7                    | 4                          | 32                                |
| AB-03008809                   | AB-03015812           | 30 ÷ 45                             | 0.7                    | 4                          | 28                                |
| AB-03008817                   | AB-03015820           | 32 ÷ 50                             | 0.7                    | 4                          | 24                                |
| AB-03008825                   | AB-03015839           | 40 ÷ 60                             | 0.7                    | 4                          | 19                                |
| AB-03008833                   | AB-03015847           | 50 ÷ 70                             | 0.7                    | 4                          | 17                                |
| AB-03008841                   | AB-03015855           | 60 ÷ 80                             | 0.7                    | 4                          | 15                                |
| AB-03008850                   | AB-03015863           | 70 ÷ 90                             | 0.7                    | 4                          | 13                                |
| AB-03008868                   | AB-03015871           | 80 ÷ 100                            | 0.7                    | 4                          | 11                                |
| AB-03008876                   | AB-03015880           | 90 ÷ 110                            | 0.7                    | 4                          | 10                                |
| AB-03008884                   | AB-03015898           | 100 ÷ 120                           | 0.7                    | 4                          | 9                                 |
| AB-03008892                   | AB-03015900           | 110 ÷ 130                           | 0.7                    | 4                          | 8                                 |
| AB-03008905                   | AB-03015919           | 120 ÷ 140                           | 0.7                    | 4                          | 7                                 |
| AB-03008913                   | AB-03015927           | 130 ÷ 150                           | 0.7                    | 4                          | 6                                 |
| AB-03008921                   | AB-03015935           | 140 ÷ 160                           | 0.7                    | 4                          | 5                                 |



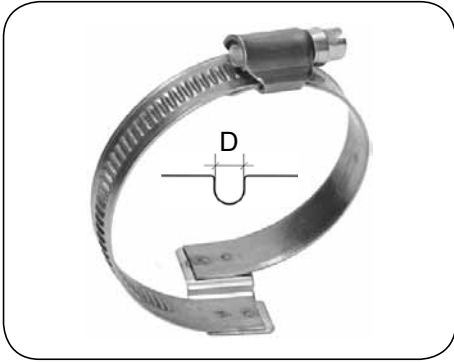
## ASFA-S 12 mm

A general purpose hose clamps designed for quick and easy clamping of low-pressure hoses. Manufactured in accordance with DIN 3017 standard. W5 version, made entirely of AISI 316 steel, is recommended for food, chemical, marine industry, etc.

| W1 code<br>(galvanized steel) | W5 code<br>(AISI 316) | min / max<br>diameter range<br>[mm] | band thickness<br>[mm] | tightening torque*<br>[Nm] | max. medium<br>pressure*<br>[bar] |
|-------------------------------|-----------------------|-------------------------------------|------------------------|----------------------------|-----------------------------------|
| AB-03009001                   | AB-03017720           | 16 ÷ 27                             | 0.8                    | 4.2                        | 45                                |
| AB-03009002                   | AB-03017500           | 20 ÷ 32                             | 0.8                    | 5.2                        | 45                                |
| AB-03009003                   | AB-03017519           | 25 ÷ 40                             | 0.8                    | 5.2                        | 40                                |
| AB-03009004                   | AB-03017738           | 30 ÷ 45                             | 0.8                    | 5.2                        | 35                                |
| AB-03009005                   | AB-03017527           | 32 ÷ 50                             | 0.8                    | 6                          | 35                                |
| AB-03009006                   | AB-03017535           | 40 ÷ 60                             | 0.8                    | 6                          | 30                                |
| AB-03009007                   | AB-03017543           | 50 ÷ 70                             | 0.8                    | 6.8                        | 25                                |
| AB-03009008                   | AB-03017551           | 60 ÷ 80                             | 0.8                    | 6.8                        | 20                                |
| AB-03009009                   | AB-03017560           | 70 ÷ 90                             | 0.8                    | 6.8                        | 17                                |
| AB-03009010                   | AB-03017578           | 80 ÷ 100                            | 0.8                    | 6.8                        | 14                                |
| AB-03009011                   | AB-03017586           | 90 ÷ 110                            | 0.8                    | 6.8                        | 12                                |
| AB-03009012                   | AB-03017594           | 100 ÷ 120                           | 0.8                    | 6.8                        | 10                                |
| AB-03009013                   | AB-03017607           | 110 ÷ 130                           | 0.8                    | 6.8                        | 8                                 |
| AB-03009014                   | AB-03017615           | 120 ÷ 140                           | 0.8                    | 6.8                        | 7                                 |
| AB-03009015                   | AB-03017623           | 130 ÷ 150                           | 0.8                    | 6.8                        | 6                                 |
| AB-03009016                   | AB-03017631           | 140 ÷ 160                           | 0.8                    | 6.8                        | 5                                 |
| AB-03009017                   | AB-03017640           | 150 ÷ 170                           | 0.8                    | 6.8                        | 4                                 |
| AB-03009018                   | AB-03017658           | 160 ÷ 180                           | 0.8                    | 6.8                        | 3                                 |
| AB-03009019                   | AB-03017666           | 170 ÷ 190                           | 0.8                    | 6.8                        | 2                                 |
| AB-03009020                   | AB-03017674           | 180 ÷ 200                           | 0.8                    | 6.8                        | 2                                 |
| AB-03009021                   | AB-03017682           | 190 ÷ 210                           | 0.8                    | 6.8                        | 1.8                               |
| AB-03009022                   | AB-03017690           | 200 ÷ 220                           | 0.8                    | 6.8                        | 1.8                               |
| AB-03009023                   | AB-03017703           | 210 ÷ 230                           | 0.8                    | 6.8                        | 1.6                               |
| AB-03009024                   | AB-03017711           | 220 ÷ 240                           | 0.8                    | 6.8                        | 1.6                               |

\* - depending on hose type and connection shape.

# INDUSTRIAL FITTINGS - clips, clamps, ferrules



## BC bridge clamp

A bridge worm drive clamp with 9 and 12 mm band width. A clockwise clamp is designed to assemble P1, P2, P3, P7 type helix-reinforced ducting hoses whereas a counter-clockwise clamp for Clip type hoses (see: ducting and ventilation). The bridge of the clamp secures tight connection and prevents hose damage.

W2 - AISI 430 steel  
W4 - AISI 304 steel  
W5 - AISI 316 steel

| W2 code           | W4 code           | W5 code           | min / max diam. range [mm] | band width [mm] | bridge width D [mm] | pieces number |
|-------------------|-------------------|-------------------|----------------------------|-----------------|---------------------|---------------|
| CL-OMP-040-097-W2 | CL-OMP-040-097-W4 | CL-OMP-040-097-W5 | 25 ÷ 40                    | 9               | 7                   | 1             |
| CL-OMP-050-097-W2 | CL-OMP-050-097-W4 | CL-OMP-050-097-W5 | 32 ÷ 50                    |                 |                     |               |
| CL-OMP-060-097-W2 | CL-OMP-060-097-W4 | CL-OMP-060-097-W5 | 40 ÷ 60                    |                 |                     |               |
| CL-OMP-070-097-W2 | CL-OMP-070-097-W4 | CL-OMP-070-097-W5 | 50 ÷ 70                    |                 |                     |               |
| CL-OMP-080-097-W2 | CL-OMP-080-097-W4 | CL-OMP-080-097-W5 | 60 ÷ 80                    |                 |                     |               |
| CL-OMP-090-097-W2 | CL-OMP-090-097-W4 | CL-OMP-090-097-W5 | 70 ÷ 90                    |                 |                     |               |
| CL-OMP-100-097-W2 | CL-OMP-100-097-W4 | CL-OMP-100-097-W5 | 80 ÷ 100                   |                 |                     |               |
| CL-OMP-110-097-W2 | CL-OMP-110-097-W4 | CL-OMP-110-097-W5 | 90 ÷ 110                   |                 |                     |               |
| CL-OMP-120-097-W2 | CL-OMP-120-097-W4 | CL-OMP-120-097-W5 | 100 ÷ 120                  |                 |                     |               |
| CL-OMP-130-097-W2 | CL-OMP-130-097-W4 | CL-OMP-130-097-W5 | 110 ÷ 130                  |                 |                     |               |
| CL-OMP-140-097-W2 | CL-OMP-140-097-W4 | CL-OMP-140-097-W5 | 120 ÷ 140                  |                 |                     |               |
| CL-OMP-150-097-W2 | CL-OMP-150-097-W4 | CL-OMP-150-097-W5 | 130 ÷ 150                  |                 |                     |               |
| CL-OMP-160-097-W2 | CL-OMP-160-097-W4 | CL-OMP-160-097-W5 | 140 ÷ 160                  |                 |                     |               |
| CL-OMP-040-127-W2 | CL-OMP-040-127-W4 | CL-OMP-040-127-W5 | 25 ÷ 40                    |                 |                     |               |
| CL-OMP-050-127-W2 | CL-OMP-050-127-W4 | CL-OMP-050-127-W5 | 32 ÷ 50                    |                 |                     |               |
| CL-OMP-060-127-W2 | CL-OMP-060-127-W4 | CL-OMP-060-127-W5 | 40 ÷ 60                    |                 |                     |               |
| CL-OMP-070-127-W2 | CL-OMP-070-127-W4 | CL-OMP-070-127-W5 | 50 ÷ 70                    |                 |                     |               |
| CL-OMP-080-127-W2 | CL-OMP-080-127-W4 | CL-OMP-080-127-W5 | 60 ÷ 80                    |                 |                     |               |
| CL-OMP-090-127-W2 | CL-OMP-090-127-W4 | CL-OMP-090-127-W5 | 70 ÷ 90                    |                 |                     |               |
| CL-OMP-100-127-W2 | CL-OMP-100-127-W4 | CL-OMP-100-127-W5 | 80 ÷ 100                   |                 |                     |               |
| CL-OMP-110-127-W2 | CL-OMP-110-127-W4 | CL-OMP-110-127-W5 | 90 ÷ 110                   |                 |                     |               |
| CL-OMP-120-127-W2 | CL-OMP-120-127-W4 | CL-OMP-120-127-W5 | 100 ÷ 120                  |                 |                     |               |
| CL-OMP-130-127-W2 | CL-OMP-130-127-W4 | CL-OMP-130-127-W5 | 110 ÷ 130                  |                 |                     |               |
| CL-OMP-140-127-W2 | CL-OMP-140-127-W4 | CL-OMP-140-127-W5 | 120 ÷ 140                  |                 |                     |               |
| CL-OMP-150-127-W2 | CL-OMP-150-127-W4 | CL-OMP-150-127-W5 | 130 ÷ 150                  |                 |                     |               |
| CL-OMP-160-127-W2 | CL-OMP-160-127-W4 | CL-OMP-160-127-W5 | 140 ÷ 160                  |                 |                     |               |
| CL-OMP-170-127-W2 | CL-OMP-170-127-W4 | CL-OMP-170-127-W5 | 150 ÷ 170                  |                 |                     |               |
| CL-OMP-180-127-W2 | CL-OMP-180-127-W4 | CL-OMP-180-127-W5 | 160 ÷ 180                  |                 |                     |               |
| CL-OMP-190-127-W2 | CL-OMP-190-127-W4 | CL-OMP-190-127-W5 | 170 ÷ 190                  |                 |                     |               |
| CL-OMP-200-127-W2 | CL-OMP-200-127-W4 | CL-OMP-200-127-W5 | 180 ÷ 200                  |                 |                     |               |



Two-piece clamp

# INDUSTRIAL FITTINGS - clips, clamps, ferrules

## BC bridge clamp - table follow up

| W2 code           | W4 code           | code W5           | min / max diam. range [mm] | band width [mm] | bridge width D [mm] | pieces number |
|-------------------|-------------------|-------------------|----------------------------|-----------------|---------------------|---------------|
| CL-OMP-215-126-W2 | CL-OMP-215-126-W4 | CL-OMP-215-126-W5 | 195 ÷ 215                  | 12              | 6                   | 1             |
| CL-OMP-225-126-W2 | CL-OMP-225-126-W4 | CL-OMP-225-126-W5 | 205 ÷ 225                  |                 |                     |               |
| CL-OMP-235-126-W2 | CL-OMP-235-126-W4 | CL-OMP-235-126-W5 | 215 ÷ 235                  |                 |                     |               |
| CL-OMP-245-126-W2 | CL-OMP-245-126-W4 | CL-OMP-245-126-W5 | 225 ÷ 245                  |                 |                     |               |
| CL-OMP-255-126-W2 | CL-OMP-255-126-W4 | CL-OMP-255-126-W5 | 235 ÷ 255                  |                 |                     |               |
| CL-OMP-265-126-W2 | CL-OMP-265-126-W4 | CL-OMP-265-126-W5 | 225 ÷ 265                  |                 |                     |               |
| CL-OMP-275-126-W2 | CL-OMP-275-126-W4 | CL-OMP-275-126-W5 | 235 ÷ 275                  |                 |                     |               |
| CL-OMP-285-126-W2 | CL-OMP-285-126-W4 | CL-OMP-285-126-W5 | 245 ÷ 285                  |                 |                     |               |
| CL-OMP-295-126-W2 | CL-OMP-295-126-W4 | CL-OMP-295-126-W5 | 255 ÷ 295                  |                 |                     |               |
| CL-OMP-315-126-W2 | CL-OMP-315-126-W4 | CL-OMP-315-126-W5 | 275 ÷ 315                  |                 |                     |               |
| CL-OMP-335-126-W2 | CL-OMP-335-126-W4 | CL-OMP-335-126-W5 | 295 ÷ 335                  |                 |                     |               |
| CL-OMP-365-126-W2 | CL-OMP-365-126-W4 | CL-OMP-365-126-W5 | 325 ÷ 365                  |                 |                     |               |
| CL-OMP-415-126-W2 | CL-OMP-415-126-W4 | CL-OMP-415-126-W5 | 355 ÷ 415                  |                 |                     |               |
| CL-OMP-435-126-W2 | CL-OMP-435-126-W4 | CL-OMP-435-126-W5 | 375 ÷ 435                  |                 |                     |               |
| CL-OMP-465-126-W2 | CL-OMP-465-126-W4 | CL-OMP-465-126-W5 | 405 ÷ 465                  |                 |                     |               |
| CL-OMP-515-126-W2 | CL-OMP-515-126-W4 | CL-OMP-515-126-W5 | 455 ÷ 515                  |                 |                     |               |
| CL-OMP-615-126-W2 | CL-OMP-615-126-W4 | CL-OMP-615-126-W5 | 535 ÷ 615                  |                 |                     |               |
| CL-OMP-715-126-W2 | CL-OMP-715-126-W4 | CL-OMP-715-126-W5 | 635 ÷ 715                  |                 |                     |               |
| CL-OMP-815-126-W2 | CL-OMP-815-126-W4 | CL-OMP-815-126-W5 | 735 ÷ 815                  |                 |                     |               |
| CL-OMP-915-126-W2 | CL-OMP-915-126-W4 | CL-OMP-915-126-W5 | 835 ÷ 915                  |                 |                     |               |
| CL-OMP-215-128-W2 | CL-OMP-215-128-W4 | CL-OMP-215-128-W5 | 195 ÷ 215                  | 12              | 8                   | 1             |
| CL-OMP-225-128-W2 | CL-OMP-225-128-W4 | CL-OMP-225-128-W5 | 205 ÷ 225                  |                 |                     |               |
| CL-OMP-235-128-W2 | CL-OMP-235-128-W4 | CL-OMP-235-128-W5 | 215 ÷ 235                  |                 |                     |               |
| CL-OMP-245-128-W2 | CL-OMP-245-128-W4 | CL-OMP-245-128-W5 | 225 ÷ 245                  |                 |                     |               |
| CL-OMP-255-128-W2 | CL-OMP-255-128-W4 | CL-OMP-255-128-W5 | 235 ÷ 255                  |                 |                     |               |
| CL-OMP-265-128-W2 | CL-OMP-265-128-W4 | CL-OMP-265-128-W5 | 225 ÷ 265                  |                 |                     |               |
| CL-OMP-275-128-W2 | CL-OMP-275-128-W4 | CL-OMP-275-128-W5 | 235 ÷ 275                  |                 |                     |               |
| CL-OMP-285-128-W2 | CL-OMP-285-128-W4 | CL-OMP-285-128-W5 | 245 ÷ 285                  |                 |                     |               |
| CL-OMP-295-128-W2 | CL-OMP-295-128-W4 | CL-OMP-295-128-W5 | 255 ÷ 295                  |                 |                     |               |
| CL-OMP-315-128-W2 | CL-OMP-315-128-W4 | CL-OMP-315-128-W5 | 275 ÷ 315                  |                 |                     |               |
| CL-OMP-335-128-W2 | CL-OMP-335-128-W4 | CL-OMP-335-128-W5 | 295 ÷ 335                  |                 |                     |               |
| CL-OMP-365-128-W2 | CL-OMP-365-128-W4 | CL-OMP-365-128-W5 | 325 ÷ 365                  |                 |                     |               |
| CL-OMP-415-128-W2 | CL-OMP-415-128-W4 | CL-OMP-415-128-W5 | 355 ÷ 415                  |                 |                     |               |
| CL-OMP-435-128-W2 | CL-OMP-435-128-W4 | CL-OMP-435-128-W5 | 375 ÷ 435                  |                 |                     |               |
| CL-OMP-465-128-W2 | CL-OMP-465-128-W4 | CL-OMP-465-128-W5 | 405 ÷ 465                  |                 |                     |               |
| CL-OMP-515-128-W2 | CL-OMP-515-128-W4 | CL-OMP-515-128-W5 | 455 ÷ 515                  |                 |                     |               |
| CL-OMP-615-128-W2 | CL-OMP-615-128-W4 | CL-OMP-615-128-W5 | 535 ÷ 615                  |                 |                     |               |
| CL-OMP-715-128-W2 | CL-OMP-715-128-W4 | CL-OMP-715-128-W5 | 635 ÷ 715                  |                 |                     |               |
| CL-OMP-815-128-W2 | CL-OMP-815-128-W4 | CL-OMP-815-128-W5 | 735 ÷ 815                  |                 |                     |               |
| CL-OMP-915-128-W2 | CL-OMP-915-128-W4 | CL-OMP-915-128-W5 | 835 ÷ 915                  |                 |                     |               |

The codes in the tables apply to the clockwise clamps.

A code example of a counter-clockwise clamp, 25 ÷ 40 mm, 9 mm wide, 7 mm bridge, W2: CL-OML-040-097-W2. The range of diameters, band and bridge width are the same as for clockwise version.

## INDUSTRIAL FITTINGS - clips, clamps, ferrules



### FLEX-GEAR

Band clamps with spring lock system maintaining constant clamping force. Excellent choice for fluctuating and extreme temperature applications. The rolled-up edges of the band protect the external layer of the hose from damage and ensure even clamping force around the hose. Tightening torque: 5.6 Nm (max. 9.6 Nm).

The band clamp of 847 series is made entirely of stainless steel, whereas the clamp of 843 series has a carbon steel screw coated with a layer of Zn + Cr (III). Band width 9/16".

| code<br>(847 series) | code<br>(843 series) | minimum diameter<br>[mm] | maximum diameter<br>[mm] | SAE size |
|----------------------|----------------------|--------------------------|--------------------------|----------|
| AB-847010            | AB-843010            | 14                       | 27                       | 10       |
| AB-847012            | AB-843012            | 16                       | 32                       | 12       |
| AB-847016            | AB-843016            | 21                       | 38                       | 16       |
| AB-847020            | AB-843020            | 20                       | 44                       | 20       |
| AB-847024            | AB-843024            | 27                       | 51                       | 24       |
| AB-847028            | AB-843028            | 33                       | 57                       | 28       |
| AB-847032            | AB-843032            | 40                       | 63                       | 32       |
| AB-847036            | AB-843036            | 46                       | 70                       | 36       |
| AB-847040            | AB-843040            | 52                       | 76                       | 40       |
| AB-847044            | AB-843044            | 59                       | 82                       | 44       |
| AB-847048            | AB-843048            | 65                       | 89                       | 48       |



### FLEX-GEAR HD

Band clamps with spring lock system maintaining constant clamping force. Excellent choice for fluctuating and extreme temperature applications. The rolled-up edges of the band protect the external layer of the hose from damage and ensure even clamping force around the hose. Tightening torque: 8.5 Nm (max. 14.1 Nm).

The band clamp of 845 series is made entirely of stainless steel, whereas the clamp of 841 series has a carbon steel screw coated with a layer of Zn + Cr (III). Band width 5/8".

| code<br>(845 series) | code<br>(841 series) | minimum diameter<br>[mm] | maximum diameter<br>[mm] | SAE size |
|----------------------|----------------------|--------------------------|--------------------------|----------|
| AB-845175            | AB-841175            | 25                       | 45                       | 175      |
| AB-845200            | AB-841200            | 32                       | 54                       | 212      |
| AB-845250            | AB-841250            | 45                       | 67                       | 262      |
| AB-845300            | AB-841300            | 57                       | 79                       | 312      |
| AB-845350            | AB-841350            | 70                       | 92                       | 362      |
| AB-845400            | AB-841400            | 83                       | 105                      | 412      |
| AB-845450            | AB-841450            | 95                       | 117                      | 462      |
| AB-845500            | AB-841500            | 108                      | 130                      | 512      |
| AB-845550            | AB-841550            | 121                      | 143                      | 562      |
| AB-845600            | AB-841600            | 133                      | 155                      | 612      |
| AB-845650            | AB-841650            | 146                      | 168                      | 662      |
| AB-845700            | AB-841700            | 159                      | 181                      | 712      |
| AB-845750            | AB-841750            | 172                      | 193                      | 762      |
| AB-845800            | AB-841800            | 184                      | 206                      | 812      |
| AB-845850            | AB-841850            | 197                      | 219                      | 862      |
| AB-845900            | AB-841900            | 210                      | 232                      | 912      |



# INDUSTRIAL FITTINGS - clips, clamps, ferrules



## SUPRA HEAVY DUTY W2. W4

A robust clamp with rolled-up band edges recommended for reinforced, thick-wall industrial hoses. The hexagonal head design of a screw allows tightening with such common tools as flat, tubular or adjustable spanner.

W2 - band and bridge AISI 430 steel, bolt and rollers of zinc-plated steel.

W4 - band and bridge AISI 304 steel, bolt and rollers AISI 302 steel.

| W2 code     | W4 code     | min / max diameter range [mm] | band width [mm] | bolt size | max. tightening torque* [Nm] | max. medium pressure* [bar] |    |    |    |
|-------------|-------------|-------------------------------|-----------------|-----------|------------------------------|-----------------------------|----|----|----|
| AB-03019012 | AB-03013016 | 17÷19                         | 18              | M6        | 10                           | 45                          |    |    |    |
| AB-03019020 | AB-03013024 | 19÷21                         |                 |           |                              |                             |    |    |    |
| AB-03019039 | AB-03013032 | 21÷23                         |                 |           |                              |                             |    |    |    |
| AB-03019047 | AB-03013040 | 23÷25                         |                 |           |                              |                             |    |    |    |
| AB-03019055 | AB-03013059 | 25÷27                         |                 |           |                              |                             |    |    |    |
| AB-03019063 | AB-03013067 | 27÷29                         |                 |           |                              |                             |    |    |    |
| AB-03019071 | AB-03013075 | 29÷31                         | 20              | M7        | 12                           | 40                          |    |    |    |
| AB-03019080 | AB-03013083 | 31÷34                         |                 |           |                              |                             |    |    |    |
| AB-03019098 | AB-03013091 | 34÷37                         |                 |           |                              |                             |    |    |    |
| AB-03019100 | AB-03013104 | 37÷40                         |                 |           |                              |                             |    |    |    |
| AB-03019119 | AB-03013112 | 40÷43                         |                 |           |                              |                             |    |    |    |
| AB-03019127 | AB-03013120 | 43÷47                         |                 |           |                              |                             |    |    |    |
| AB-03019135 | AB-03013139 | 47÷51                         |                 |           | 16                           | 36                          |    |    |    |
| AB-03019143 | AB-03013147 | 51÷55                         |                 |           |                              |                             |    |    |    |
| AB-03019151 | AB-03013155 | 55÷59                         |                 |           |                              |                             |    |    |    |
| AB-03019160 | AB-03013163 | 59÷63                         |                 |           |                              |                             |    |    |    |
| AB-03019178 | AB-03013171 | 63÷68                         |                 |           |                              |                             |    |    |    |
| AB-03019186 | AB-03013180 | 68÷73                         |                 |           |                              |                             | 25 | M8 | 30 |
| AB-03019194 | AB-03013198 | 73÷79                         |                 |           |                              |                             |    |    |    |
| AB-03019207 | AB-03013200 | 79÷85                         |                 |           |                              |                             |    |    |    |
| AB-03019215 | AB-03013219 | 85÷91                         |                 |           |                              |                             |    |    |    |
| AB-03019223 | AB-03013227 | 91÷97                         |                 |           |                              |                             |    |    |    |
| AB-03019231 | AB-03013235 | 97÷104                        |                 |           |                              |                             |    |    |    |
| AB-03019240 | AB-03013243 | 104÷112                       | 12              |           |                              |                             |    |    |    |
| AB-03019258 | AB-03013251 | 112÷121                       |                 |           |                              |                             |    |    |    |
| AB-03019266 | AB-03013260 | 121÷130                       |                 |           |                              |                             |    |    |    |
| AB-03019274 | AB-03013278 | 130÷140                       |                 | 28        | M10                          | 45                          |    |    | 9  |
| AB-03019282 | AB-03013286 | 140÷150                       |                 |           |                              |                             |    |    |    |
| AB-03019290 | AB-03013294 | 150÷162                       |                 |           |                              |                             |    |    |    |
| AB-03019303 | AB-03013307 | 162÷174                       |                 |           |                              |                             |    |    |    |
| AB-03019311 | AB-03013315 | 174÷187                       |                 |           |                              |                             |    |    |    |
| AB-03019320 | AB-03013323 | 187÷200                       |                 |           |                              |                             |    |    |    |
| AB-03019338 | AB-03013331 | 200÷213                       | 6               |           |                              |                             |    |    |    |
| AB-03019346 | AB-03013340 | 213÷226                       |                 |           |                              |                             |    |    |    |
| AB-03019354 | AB-03013358 | 226÷239                       |                 |           |                              |                             |    |    |    |
| AB-03019362 | AB-03013366 | 239÷252                       |                 |           |                              |                             |    |    |    |
| AB-03019370 | AB-03013374 | 252÷265                       |                 |           |                              |                             |    |    |    |
| AB-03019477 | AB-03013390 | 265÷278                       |                 |           |                              | 3                           |    |    |    |
| AB-03019392 | AB-03013422 | 278÷291                       |                 |           |                              |                             |    |    |    |
| AB-03019403 | AB-03013433 | 291÷304                       |                 |           |                              |                             |    |    |    |
| AB-03019411 | AB-03013444 | 304÷317                       |                 |           |                              |                             |    |    |    |
| AB-03019485 | AB-03013403 | 317÷330                       |                 |           |                              |                             |    |    |    |
| AB-03019422 | AB-03013455 | 330÷343                       |                 |           |                              |                             |    |    |    |
| AB-03019433 | AB-03013466 | 343÷356                       |                 |           |                              |                             |    |    |    |
| AB-03019444 | AB-03013477 | 356÷369                       |                 |           |                              |                             |    |    |    |
| AB-03019455 | AB-03013488 | 369÷382                       |                 |           |                              |                             |    |    |    |
| AB-03019499 | AB-03013499 | 382÷395                       |                 |           |                              |                             |    |    |    |
| AB-03019500 | AB-03013500 | 395÷408                       |                 |           |                              |                             |    |    |    |

\* - depending on hose type and connection shape

## INDUSTRIAL FITTINGS - clips, clamps, ferrules



### HDC W1, W5

A robust clamp with rolled-up band edges recommended for reinforced, thick-wall industrial hoses. The hexagonal head of a bolt allows tightening with such common tools as flat, tubular and adjustable spanner.

W1 - all parts made of zinc-plated steel.

W5 - all parts made of AISI 316 steel.

| W1 code           | W5 code           | min / max diameter range [mm] | thickness x band width |         | bolt [mm] |
|-------------------|-------------------|-------------------------------|------------------------|---------|-----------|
|                   |                   |                               | W1 [mm]                | W5 [mm] |           |
| AB-HDC-017-019-W1 | AB-HDC-017-019-W5 | 17 ÷ 19                       | 0.6×18                 | 0.6×18  | M5×40     |
| AB-HDC-020-022-W1 | AB-HDC-020-022-W5 | 20 ÷ 22                       |                        |         |           |
| AB-HDC-023-025-W1 | AB-HDC-023-025-W5 | 23 ÷ 25                       |                        |         |           |
| AB-HDC-026-028-W1 | AB-HDC-026-028-W5 | 26 ÷ 28                       |                        |         |           |
| AB-HDC-029-031-W1 | AB-HDC-029-031-W5 | 29 ÷ 31                       | 0.8×20                 | 0.6×20  | M6×50     |
| AB-HDC-032-035-W1 | AB-HDC-032-035-W5 | 32 ÷ 35                       |                        |         |           |
| AB-HDC-036-039-W1 | AB-HDC-036-039-W5 | 36 ÷ 39                       |                        |         |           |
| AB-HDC-040-043-W1 | AB-HDC-040-043-W5 | 40 ÷ 43                       |                        |         |           |
| AB-HDC-044-047-W1 | AB-HDC-044-047-W5 | 44 ÷ 47                       | 1.2×22                 | 0.8×22  | M6×55     |
| AB-HDC-048-051-W1 | AB-HDC-048-051-W5 | 48 ÷ 51                       |                        |         |           |
| AB-HDC-052-055-W1 | AB-HDC-052-055-W5 | 52 ÷ 55                       |                        |         |           |
| AB-HDC-056-059-W1 | AB-HDC-056-059-W5 | 56 ÷ 59                       |                        |         |           |
| AB-HDC-060-063-W1 | AB-HDC-060-063-W5 | 60 ÷ 63                       | 1.5×22                 |         |           |
| AB-HDC-064-067-W1 | AB-HDC-064-067-W5 | 64 ÷ 67                       |                        |         |           |
| AB-HDC-068-073-W1 | AB-HDC-068-073-W5 | 68 ÷ 73                       | 1.5×24                 | 0.8×24  | M8×70     |
| AB-HDC-074-079-W1 | AB-HDC-074-079-W5 | 74 ÷ 79                       |                        |         |           |
| AB-HDC-080-085-W1 | AB-HDC-080-085-W5 | 80 ÷ 85                       |                        |         |           |
| AB-HDC-086-091-W1 | AB-HDC-086-091-W5 | 86 ÷ 91                       |                        |         |           |
| AB-HDC-092-097-W1 | AB-HDC-092-097-W5 | 92 ÷ 97                       |                        |         |           |
| AB-HDC-098-103-W1 | AB-HDC-098-103-W5 | 98 ÷ 103                      |                        |         |           |
| AB-HDC-104-112-W1 | AB-HDC-104-112-W5 | 104 ÷ 112                     |                        |         |           |
| AB-HDC-113-121-W1 | AB-HDC-113-121-W5 | 113 ÷ 121                     |                        |         |           |
| AB-HDC-122-130-W1 | AB-HDC-122-130-W5 | 122 ÷ 130                     |                        |         |           |
| AB-HDC-131-139-W1 | AB-HDC-131-139-W5 | 131 ÷ 139                     |                        |         |           |
| AB-HDC-140-148-W1 | AB-HDC-140-148-W5 | 140 ÷ 148                     |                        |         |           |
| AB-HDC-149-161-W1 | AB-HDC-149-161-W5 | 149 ÷ 161                     |                        |         |           |
| AB-HDC-162-174-W1 | AB-HDC-162-174-W5 | 162 ÷ 174                     |                        |         |           |
| AB-HDC-175-187-W1 | AB-HDC-175-187-W5 | 175 ÷ 187                     |                        |         |           |
| AB-HDC-188-200-W1 | AB-HDC-188-200-W5 | 188 ÷ 200                     |                        |         |           |
| AB-HDC-201-213-W1 | AB-HDC-201-213-W5 | 201 ÷ 213                     |                        |         |           |
| AB-HDC-214-226-W1 | AB-HDC-214-226-W5 | 214 ÷ 226                     |                        |         |           |
| AB-HDC-227-239-W1 | AB-HDC-227-239-W5 | 227 ÷ 239                     |                        |         |           |
| AB-HDC-240-252-W1 | AB-HDC-240-252-W5 | 240 ÷ 252                     |                        |         |           |
| AB-HDC-253-265-W1 | AB-HDC-253-265-W5 | 253 ÷ 265                     |                        |         |           |
| AB-HDC-266-278-W1 | AB-HDC-266-278-W5 | 266 ÷ 278                     |                        |         |           |
| AB-HDC-279-291-W1 | AB-HDC-279-291-W5 | 279 ÷ 291                     |                        |         |           |
| AB-HDC-294-304-W1 | AB-HDC-294-304-W5 | 294 ÷ 304                     |                        |         |           |

# INDUSTRIAL FITTINGS - clips, clamps, ferrules



## DPC W1, W5

A clamp with robust, double band. Two bolt guarantee accurate and tight connection of a hose with its fitting.




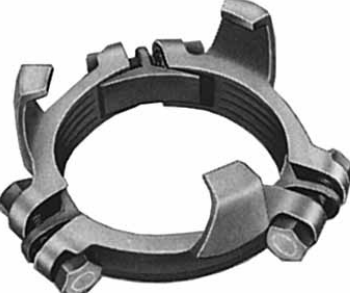
W1 - all parts made of zinc-plated steel.

W5 - all parts made of AISI 316 steel.

| W1 code           | W5 code           | min - max diameter range [mm] | thickness x band width [mm] | bolt [mm]                |
|-------------------|-------------------|-------------------------------|-----------------------------|--------------------------|
| AB-DPC-035-045-W1 | AB-DPC-035-045-W5 | 35 ÷ 45                       | 1x20                        | W1 - M6x45<br>W5 - M6x50 |
| AB-DPC-040-050-W1 | AB-DPC-040-050-W5 | 40 ÷ 50                       |                             |                          |
| AB-DPC-045-055-W1 | AB-DPC-045-055-W5 | 45 ÷ 55                       |                             |                          |
| AB-DPC-050-060-W1 | AB-DPC-050-060-W5 | 50 ÷ 60                       |                             |                          |
| AB-DPC-055-065-W1 | AB-DPC-055-065-W5 | 55 ÷ 65                       |                             |                          |
| AB-DPC-060-070-W1 | AB-DPC-060-070-W5 | 60 ÷ 70                       |                             |                          |
| AB-DPC-065-075-W1 | AB-DPC-065-075-W5 | 65 ÷ 75                       |                             |                          |
| AB-DPC-070-080-W1 | AB-DPC-070-080-W5 | 70 ÷ 80                       |                             |                          |
| AB-DPC-075-085-W1 | AB-DPC-075-085-W5 | 75 ÷ 85                       |                             |                          |
| AB-DPC-080-090-W1 | AB-DPC-080-090-W5 | 80 ÷ 90                       |                             |                          |
| AB-DPC-085-095-W1 | AB-DPC-085-095-W5 | 85 ÷ 95                       |                             |                          |
| AB-DPC-090-100-W1 | AB-DPC-090-100-W5 | 90 ÷ 100                      |                             |                          |
| AB-DPC-095-105-W1 | AB-DPC-095-105-W5 | 95 ÷ 105                      |                             |                          |
| AB-DPC-100-110-W1 | AB-DPC-100-110-W5 | 100 ÷ 110                     |                             |                          |
| AB-DPC-105-115-W1 | AB-DPC-105-115-W5 | 105 ÷ 115                     | 1x24                        | M8x60                    |
| AB-DPC-110-120-W1 | AB-DPC-110-120-W5 | 110 ÷ 120                     |                             |                          |
| AB-DPC-115-125-W1 | AB-DPC-115-125-W5 | 115 ÷ 125                     |                             |                          |
| AB-DPC-120-130-W1 | AB-DPC-120-130-W5 | 120 ÷ 130                     |                             |                          |
| AB-DPC-125-135-W1 | AB-DPC-125-135-W5 | 125 ÷ 135                     |                             |                          |
| AB-DPC-130-140-W1 | AB-DPC-130-140-W5 | 130 ÷ 140                     |                             |                          |
| AB-DPC-135-145-W1 | AB-DPC-135-145-W5 | 135 ÷ 145                     |                             |                          |
| AB-DPC-140-150-W1 | AB-DPC-140-150-W5 | 140 ÷ 150                     |                             |                          |
| AB-DPC-145-155-W1 | AB-DPC-145-155-W5 | 145 ÷ 155                     |                             |                          |
| AB-DPC-150-160-W1 | AB-DPC-150-160-W5 | 150 ÷ 160                     |                             |                          |
| AB-DPC-155-165-W1 | AB-DPC-155-165-W5 | 155 ÷ 165                     |                             |                          |
| AB-DPC-160-170-W1 | AB-DPC-160-170-W5 | 160 ÷ 170                     |                             |                          |
| AB-DPC-165-175-W1 | AB-DPC-165-175-W5 | 165 ÷ 175                     |                             |                          |
| AB-DPC-170-180-W1 | AB-DPC-170-180-W5 | 170 ÷ 180                     |                             |                          |
| AB-DPC-190-200-W1 | AB-DPC-190-200-W5 | 190 ÷ 200                     |                             |                          |
| AB-DPC-200-210-W1 | AB-DPC-200-210-W5 | 200 ÷ 210                     |                             |                          |
| AB-DPC-210-220-W1 | AB-DPC-210-220-W5 | 210 ÷ 220                     |                             |                          |
| AB-DPC-220-230-W1 | AB-DPC-220-230-W5 | 220 ÷ 230                     |                             |                          |
| AB-DPC-230-240-W1 | AB-DPC-230-240-W5 | 230 ÷ 240                     |                             |                          |
| AB-DPC-240-250-W1 | AB-DPC-240-250-W5 | 240 ÷ 250                     |                             |                          |
| AB-DPC-250-260-W1 | AB-DPC-250-260-W5 | 250 ÷ 260                     |                             |                          |
| AB-DPC-260-270-W1 | AB-DPC-260-270-W5 | 260 ÷ 270                     |                             |                          |
| AB-DPC-270-280-W1 | AB-DPC-270-280-W5 | 270 ÷ 280                     |                             |                          |
| AB-DPC-290-300-W1 | AB-DPC-290-300-W5 | 290 ÷ 300                     |                             |                          |

# INDUSTRIAL FITTINGS - clips, clamps, ferrules

## Malleable iron clamps

| picture   | code    | hose I.D. [mm] | clamp I.D. [mm] | working pressure [bar] | description  |
|---|---------|----------------|-----------------|------------------------|--|
|    | MU-1352 | 13             | 17 ÷ 22         | 16                     | Two-part hose clamp.<br>Material: zinc-plated malleable iron.  |
|   | MU-1353 | 19             | 27 ÷ 32         | 16                     |  |
|    | MU-1302 | 13             | 20 ÷ 29         | 16                     | Two-part hose clamp according to DIN 20039 A.<br>Material: zinc-plated malleable iron.   |
|   | MU-1303 | 19             | 28 ÷ 34         | 16                     |  |
|   | MU-1304 | 25             | 32 ÷ 40         | 16                     |  |
|   | MU-1305 | 32             | 39 ÷ 49         | 16                     |  |
|   | MU-1306 | 38             | 48 ÷ 60         | 16                     |  |
|   | MU-1307 | 50             | 60 ÷ 76         | 16                     |  |
|   | MU-1308 | 63             | 77 ÷ 94         | 16                     |  |
|   | MU-1309 | 75             | 94 ÷ 115        | 16                     |  |
|  | MU-1322 | 13             | 22 ÷ 29         | 25                     | Two-part hose clamp with safety claws and separate tongues according to DIN 20039 B.<br>Material: zinc-plated malleable iron.  |
|   | MU-1323 | 19             | 28 ÷ 33         | 25                     |  |
|   | MU-1324 | 25             | 35 ÷ 42         | 25                     |  |
|   | MU-1325 | 28             | 40 ÷ 47         | 25                     |  |
|   | MU-1326 | 35             | 48 ÷ 60         | 25                     |  |
|   | MU-1327 | 42             | 53 ÷ 68         | 25                     |  |
|   | MU-1328 | 50             | 58 ÷ 76         | 25                     |  |
| MU-1329   | 65      | 75 ÷ 88        | 25              |                        |  |
|  | MU-1330 | 75             | 90 ÷ 110        | 25                     | Three-part hose clamp with safety claws and separate tongues according to DIN 20039B.<br>Material: zinc-plated malleable iron. |
|   | MU-1331 | 105            | 110 ÷ 135       | 25                     |  |
|   | MU-1333 | 150            | 170 ÷ 190       | 25                     |  |

# INDUSTRIAL FITTINGS - clips, clamps, ferrules

## Safety clamps EN 14420-3 (DIN 2817), EN 14423 (DIN 2826)

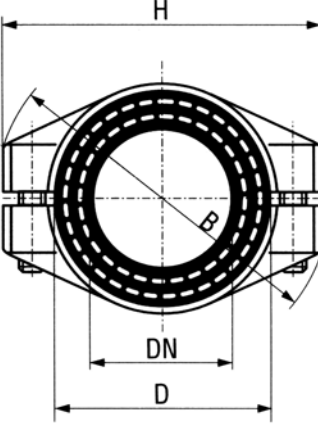
**Material:** SS (AISI 316), Ms (brass), Al (aluminium)  
**Working press.:** 25 bar (EN 14420-3), up to 100 bar (EN 14423)

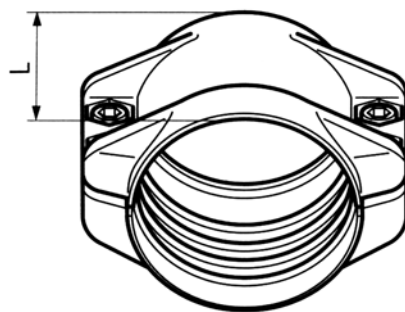
Safety clamp designed to assemble a hose on a fitting with a safety collar.

DN - hose inside diameter x hose wall thickness.

RS-636..., RS-637... (EN 14423) clamps designed for standard fittings (smooth).

RS-635... (EN 14420-3) clamps designed for high pressure and steam fittings (with serrated tail).

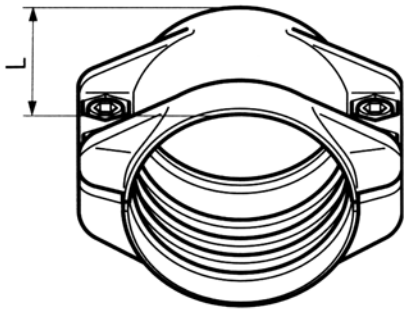
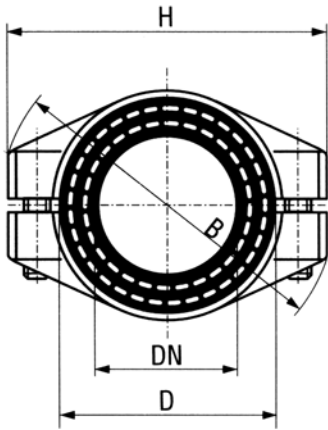
|  | code            | DN [mm]  | D min-max [mm] | material | dimensions [mm] |           |            | bolts     | weight [kg] |    |            |      |
|--|-----------------|----------|----------------|----------|-----------------|-----------|------------|-----------|-------------|----|------------|------|
|  |                 |          |                |          | H               | B         | L          |           |             |    |            |      |
|  | RS-636013005020 | 13 x 5   | 22+24          | SS       | 56              | 59        | 50         | 4 x M6x20 | 0.25        |    |            |      |
|  | RS-636013005030 |          |                | Ms       |                 |           |            |           | 0.27        |    |            |      |
|  | RS-636013005040 |          |                | Al       |                 |           |            |           | 0.11        |    |            |      |
|  | RS-635013005030 | Ms       | 54             | 57       | 65              | 0.37      |            |           |             |    |            |      |
|  | RS-635013006020 | SS       |                |          |                 | 0.32      |            |           |             |    |            |      |
|  | RS-635013006030 | Ms       |                |          |                 | 0.34      |            |           |             |    |            |      |
|  | RS-635013007030 | 13 x 7   | 26+28          | Ms       |                 |           |            | 0.31      |             |    |            |      |
|  | RS-636019006020 | 19 x 6   | 30+33          | SS       | 65              | 68        | 50         | 4 x M6x20 | 0.31        |    |            |      |
|  | RS-636019006030 |          |                | Ms       |                 |           |            |           | 0.31        |    |            |      |
|  | RS-636019006040 |          |                | Al       |                 |           |            |           | 0.13        |    |            |      |
|  | RS-635019006030 | Ms       | 67             | 70       | 65              | 4 x M8x25 | 0.54       |           |             |    |            |      |
|  | RS-635019007020 | SS       | 70             | 73       |                 |           | 0.50       |           |             |    |            |      |
|  | RS-635019007030 | Ms       |                |          |                 |           | 0.56       |           |             |    |            |      |
|  | RS-636025006020 | 25 x 6   | 36+39          | SS       | 73              | 75        | 50         | 4 x M6x20 | 0.33        |    |            |      |
|  | RS-636025006030 |          |                | Ms       |                 |           |            |           | 0.33        |    |            |      |
|  | RS-636025006040 |          |                | Al       |                 |           |            |           | 0.14        |    |            |      |
|  | RS-635025007030 | 25 x 6.5 | 37+39          | Ms       | 76              | 79        | 65         | 4 x M8x25 | 0.55        |    |            |      |
|  | RS-635025008020 | 25 x 7.5 | 39+41          | SS       | 80              | 83        |            |           | 0.63        |    |            |      |
|  | RS-635025008030 |          |                | Ms       |                 |           |            |           | 0.68        |    |            |      |
|  | RS-636025008030 | 25 x 8   | 40+43          | Ms       | 76              | 79        | 50         | 4 x M6x20 | 0.38        |    |            |      |
| RS-636025008040  | Al              |          |                | 0.14     |                 |           |            |           |             |    |            |      |
| RS-635025009030  | 25 x 8.5        | 41+43    | Ms             | 80       | 83              | 65        | 4 x M8x25  | 0.65      |             |    |            |      |
| RS-636032006020  | 32 x 6          | 43+46    | SS             | 75       | 77              | 50        | 4 x M6x20  | 0.35      |             |    |            |      |
| RS-636032006030  |                 |          | Ms             |          |                 |           |            | 0.41      |             |    |            |      |
| RS-636032006040  |                 |          | Al             |          |                 |           |            | 0.15      |             |    |            |      |
| RS-635032006030  |                 |          | Ms             |          |                 |           |            | 86        | 89          | 77 | 4 x M8x25  | 0.87 |
| RS-636032008030  | 32 x 8          | 47+50    | Ms             | 83       | 85              | 50        | 4 x M6x20  | 0.41      |             |    |            |      |
| RS-636032008040  |                 |          | Al             |          |                 |           |            | 0.15      |             |    |            |      |
| RS-635032008020  |                 |          | SS             |          |                 |           |            | 88        | 90          | 77 | 4 x M8x25  | 0.72 |
| RS-635032008030  |                 |          | Ms             |          |                 |           |            |           |             |    |            | 0.78 |
| RS-636032010030  | 32 x 10         | 50+53    | Ms             | 84       | 86              | 50        | 4 x M6x20  | 0.49      |             |    |            |      |
| RS-636032010040  |                 |          | Al             |          |                 |           |            | 0.17      |             |    |            |      |
| RS-635032010030  |                 |          | Ms             |          |                 |           |            | 95        | 97          | 77 | 4 x M8x25  | 0.83 |
| RS-636035006040  | 35 x 6          | 47+50    | Al             | 83       | 85              | 50        | 4 x M6x20  | 0.15      |             |    |            |      |
| RS-636038007020  | 38 x 6.5        | 50+52    | SS             | 83       | 85              | 50        | 4 x M6x20  | 0.38      |             |    |            |      |
| RS-636038007030  |                 |          | Ms             |          |                 |           |            | 0.43      |             |    |            |      |
| RS-636038007040  |                 |          | Al             |          |                 |           |            | 0.16      |             |    |            |      |
| RS-636038008030  | 38 x 8          | 53+56    | Ms             | 85       | 87              | 90        | 4 x M10x40 | 0.50      |             |    |            |      |
| RS-636038008040  |                 |          | Al             |          |                 |           |            | 0.18      |             |    |            |      |
| RS-635038008020  |                 |          | SS             |          |                 |           |            | 102       | 107         | 90 | 4 x M10x40 | 1.30 |
| RS-635038008030  |                 |          | Ms             |          |                 |           |            |           |             |    |            | 1.40 |
| RS-636038010030  | 38 x 10         | 57+60    | Ms             | 90       | 92              | 50        | 4 x M6x20  | 0.50      |             |    |            |      |
| RS-636038010040  |                 |          | Al             |          |                 |           |            | 0.18      |             |    |            |      |
| RS-635038010030  |                 |          | Ms             |          |                 |           |            | 106       | 111         | 90 | 4 x M10x40 | 1.55 |
| RS-636040007030  | 40 x 7          | 53+56    | Ms             | 85       | 87              | 50        | 4 x M6x20  | 0.50      |             |    |            |      |
| RS-636040007040  |                 |          | Al             |          |                 |           |            | 0.18      |             |    |            |      |
| RS-636040010030  | 40 x 10         | 58+61    | Ms             | 92       | 94              | 50        | 4 x M6x20  | 0.52      |             |    |            |      |
| RS-636040010040  |                 |          | Al             |          |                 |           |            | 0.19      |             |    |            |      |
| RS-636045007040  |                 |          | 45 x 7         |          |                 |           |            | 58+61     | Al          | 98 | 101        | 57   |



# INDUSTRIAL FITTINGS - clips, clamps, ferrules

## Safety clamps EN 14420-3 (DIN 2817), EN 14423 (DIN 2826)

| code            | DN [mm]  | D min-max [mm] | material | dimensions [mm] |     |      | bolts      | weight [kg] |
|-----------------|----------|----------------|----------|-----------------|-----|------|------------|-------------|
|                 |          |                |          | H               | B   | L    |            |             |
| RS-636050008020 | 50 x 8   | 64+67          | SS       | 103             | 106 | 57   | 4 x M8x25  | 0.65        |
| RS-636050008030 |          |                | MS       |                 |     |      |            | 0.71        |
| RS-636050008040 |          |                | Al       |                 |     |      |            | 0.27        |
| RS-635050009020 | 50 x 9   | 67+69          | SS       | 113             | 117 | 100  | 4 x M10x40 | 1.65        |
| RS-635050009030 |          |                | Ms       |                 |     |      |            | 1.70        |
| RS-636050010030 | 50 x 10  | 69+71          | Ms       | 107             | 110 | 57   | 4 x M8x25  | 0.81        |
| RS-636050010040 |          |                | Al       |                 |     |      |            | 0.31        |
| RS-635050010030 |          |                | Ms       |                 |     |      |            | 1.75        |
| RS-635050012030 | 50 x 12  | 73+76          | Ms       | 128             | 132 | 100  | 4 x M10x40 | 2.40        |
| RS-636065007020 | 65 x 7   | 78+82          | SS       | 118             | 121 | 75   | 4 x M8x25  | 1.05        |
| RS-636065007030 |          |                | Ms       |                 |     |      |            | 1.20        |
| RS-636065007040 |          |                | Al       |                 |     |      |            | 0.40        |
| RS-636065010030 | 65 x 10  | 84+87          | Ms       | 124             | 126 | 102  | 4 x M10x40 | 1.30        |
| RS-636065010040 |          |                | Al       |                 |     |      |            | 0.45        |
| RS-635065010030 | 65 x 12  | 88+91          | Ms       | 141             | 143 | 102  | 4 x M10x40 | 2.90        |
| RS-635065012030 |          |                | Ms       |                 |     |      |            | 2.40        |
| RS-636075008020 | 75 x 8   | 89+93          | SS       | 131             | 133 | 77   | 4 x M8x25  | 1.15        |
| RS-636075008030 |          |                | Ms       |                 |     |      |            | 1.25        |
| RS-636075008040 |          |                | Al       |                 |     |      |            | 0.49        |
| RS-636075010030 | 75 x 10  | 94+97          | Ms       | 138             | 140 | 115  | 4 x M10x40 | 1.40        |
| RS-636075010040 |          |                | Al       |                 |     |      |            | 0.53        |
| RS-635075010030 | 75 x 12  | 98+101         | Ms       | 148             | 150 | 77   | 4 x M8x25  | 3.30        |
| RS-636075012030 |          |                | Al       |                 |     |      |            | 1.85        |
| RS-636075012040 | 75 x 14  | 102+105        | Ms       | 141             | 142 | 115  | 4 x M10x40 | 0.52        |
| RS-635075012030 |          |                | Ms       |                 |     |      |            | 2.85        |
| RS-635075014030 | 75 x 14  | 102+105        | Ms       | 155             | 157 | 115  | 4 x M10x40 | 3.90        |
| RS-636080008030 | 80 x 8   | 94+97          | Ms       | 138             | 140 | 77   | 4 x M8x25  | 1.40        |
| RS-636080008040 |          |                | Al       |                 |     |      |            | 0.47        |
| RS-636080010030 |          |                | Ms       |                 |     |      |            | 0.80        |
| RS-636080010040 | 80 x 10  | 99+102         | Al       | 141             | 142 | 0.51 |            |             |
| RS-637100008020 | 100 x 8  | 114+119        | SS       | 164             | 167 | 120  | 4 x M10x40 | 3.00        |
| RS-637100008030 |          |                | Ms       |                 |     |      |            | 3.40        |
| RS-637100008040 |          |                | Al       |                 |     |      |            | 1.19        |
| RS-637100010030 | 100 x 10 | 118+122        | Ms       | 185             | 187 | 120  | 4 x M10x40 | 5.60        |
| RS-637100010040 |          |                | Al       |                 |     |      |            | 1.15        |
| RS-637100012030 | 100 x 12 | 122+126        | Ms       | 185             | 187 | 120  | 4 x M10x40 | 5.00        |
| RS-637100012040 |          |                | Al       |                 |     |      |            | 1.40        |
| RS-637100014030 | 100 x 14 | 126+130        | Ms       | 185             | 187 | 120  | 4 x M10x40 | 4.80        |
| RS-637100014040 |          |                | Al       |                 |     |      |            | 1.35        |
| RS-637100016030 | 100 x 16 | 130+134        | Ms       | 185             | 187 | 120  | 4 x M10x40 | 3.75        |
| RS-637100016040 |          |                | Al       |                 |     |      |            | 1.40        |
| RS-637125010030 | 125 x 10 | 143+148        | Ms       | 211             | 214 | 145  | 6 x M12x50 | 8.20        |
| RS-637125010040 |          |                | Al       | 190             | 192 |      | 6 x M10x50 | 1.40        |
| RS-637125013030 | 125 x 13 | 149+154        | Ms       | 211             | 214 | 145  | 6 x M12x50 | 7.25        |
| RS-637125013040 |          |                | Al       |                 |     |      |            | 2.65        |
| RS-637125015030 | 125 x 15 | 153+158        | Ms       | 218             | 224 | 145  | 6 x M12x50 | 8.10        |
| RS-637125015040 |          |                | Al       |                 |     |      |            | 2.85        |
| RS-637150010040 | 150 x 10 | 168+174        | Al       | 231             | 235 | 182  | 6 x M12x50 | 3.75        |
| RS-637150013040 | 150 x 13 | 174+180        | Al       | 233             | 237 | 182  | 6 x M12x50 | 3.30        |
| RS-637150015040 | 150 x 15 | 178+184        | Al       | 244             | 248 | 182  | 6 x M12x50 | 3.70        |
| RS-637200012040 | 200 x 12 | 222+229        | Al       | 288             | 291 | 243  | 8 x M12x60 | 6.50        |
| RS-637200016040 | 200 x 16 | 230+239        | Al       | 294             | 298 |      |            | 6.75        |

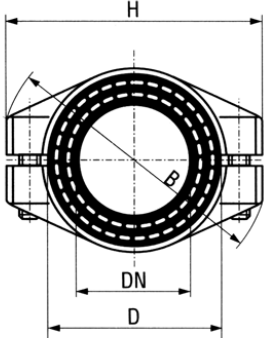


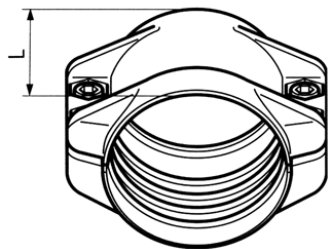
# INDUSTRIAL FITTINGS - clips, clamps, ferrules

## Safety clamps EN 14420-3 (DIN 2817)

**Material:** Aluminium  
**Working press.:** 25 bar (EN 14420-3)

Safety clamp in economic version designed to assemble a hose on a fitting with a safety collar.  
 DN - hose inside diameter x hose wall thickness.

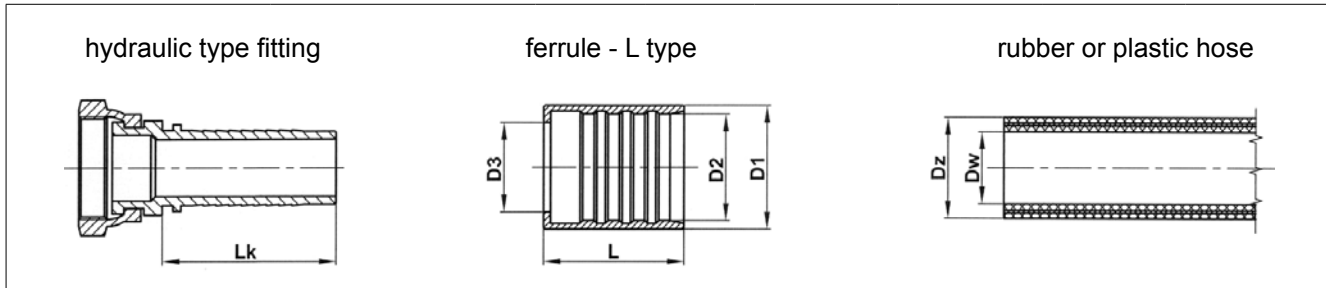
|   | code             | DN [mm]  | D min+max [mm] | material | dimensions [mm] |     |     |
|---|------------------|----------|----------------|----------|-----------------|-----|-----|
|   |                  |          |                |          | H               | B   | L   |
|  | TI-SC-013-050-AL | 13 x 5   | 22 ÷ 24        | Al       | 50              | 51  | 59  |
|   | TI-SC-019-060-AL | 19 x 6   | 30 ÷ 33        | Al       | 50              | 63  | 68  |
|   | TI-SC-025-060-AL | 25 x 6   | 36 ÷ 39        | Al       | 50              | 69  | 75  |
|   | TI-SC-025-080-AL | 25 x 8   | 40 ÷ 43        | Al       | 50              | 76  | 79  |
|   | TI-SC-032-060-AL | 32 x 6   | 43 ÷ 46        | Al       | 50              | 76  | 77  |
|   | TI-SC-032-080-AL | 32 x 8   | 47 ÷ 50        | Al       | 50              | 76  | 85  |
|   | TI-SC-038-065-AL | 38 x 6.5 | 50 ÷ 53        | Al       | 50              | 83  | 85  |
|   | TI-SC-038-080-AL | 38 x 8   | 53 ÷ 56        | Al       | 50              | 85  | 87  |
|   | TI-SC-038-100-AL | 38 x 10  | 57 ÷ 60        | Al       | 50              | 85  | 92  |
|   | TI-SC-040-070-AL | 40 x 7   | 53 ÷ 56        | Al       | 50              | 85  | 87  |
|   | TI-SC-045-070-AL | 45 x 7   | 58 ÷ 61        | Al       | 57              | 98  | 101 |
|   | TI-SC-050-060-AL | 50 x 6   | 61 ÷ 65        | Al       | 56              | 98  | 103 |
|   | TI-SC-050-080-AL | 50 x 8   | 63 ÷ 67        | Al       | 56              | 102 | 106 |
|   | TI-SC-050-100-AL | 50 x 10  | 69 ÷ 71        | Al       | 56              | 106 | 110 |
|   | TI-SC-063-080-AL | 63 x 8   | 78 ÷ 82        | Al       | 74              | 120 | 121 |
|   | TI-SC-063-100-AL | 63 x 10  | 82 ÷ 85        | Al       | 74              | 124 | 126 |
|   | TI-SC-075-080-AL | 75 x 8   | 89 ÷ 94        | Al       | 76              | 132 | 133 |
|   | TI-SC-075-100-AL | 75 x 10  | 94 ÷ 97        | Al       | 76              | 136 | 140 |
|   | TI-SC-075-120-AL | 75 x 12  | 99 ÷ 102       | Al       | 77              | 148 | 142 |
|   | TI-SC-080-080-AL | 80 x 8   | 94 ÷ 97        | Al       | 76              | 137 | 140 |
|   | TI-SC-100-080-AL | 100 x 8  | 114 ÷ 119      | Al       | 120             | 166 | 167 |
|   | TI-SC-100-100-AL | 100 x 10 | 118 ÷ 122      | Al       | 120             | 170 | 169 |
|   | TI-SC-100-120-AL | 100 x 12 | 122 ÷ 126      | Al       | 120             | 174 | 176 |
|   | TI-SC-100-140-AL | 100 x 14 | 126 ÷ 130      | Al       | 120             | 185 | 182 |
|   | TI-SC-100-160-AL | 100 x 16 | 130 ÷ 134      | Al       | 120             | 185 | 187 |
|   | TI-SC-125-100-AL | 125 x 10 | 143 ÷ 148      | Al       | 147             | 192 | 192 |
|   | TI-SC-150-100-AL | 150 x 10 | 167 ÷ 173      | Al       | 180             | 227 | 235 |
|   | TI-SC-150-130-AL | 150 x 13 | 174 ÷ 180      | Al       | 182             | 233 | 237 |
|   | TI-SC-200-120-AL | 200 x 12 | 222 ÷ 229      | Al       | 240             | 284 | 291 |



# INDUSTRIAL FITTINGS - clips, clamps, ferrules

## Crimping ferrules for industrial hoses - L type

L type ferrules are used to assemble hydraulic type fittings (the same type as Z type high-pressure fittings) on industrial hoses (both rubber and plastic with textile reinforcement or reinforcing spiral – suction-delivery hoses). In order to select an appropriate ferrule, hose outside and inside diameter must be taken into account. The length of the ferrule L must not exceed the length of the fitting's hose tail. Ferrules made of AISI 316 available on request.



| code<br>(galvanized steel) | code<br>(AISI 304) | hose I.D. |       | D1<br>[mm] | D2<br>[mm] | D3<br>[mm] | L<br>[mm] |
|----------------------------|--------------------|-----------|-------|------------|------------|------------|-----------|
|                            |                    | [inch]    | [mm]  |            |            |            |           |
| TI-L-15-04                 | TI-L-15-04-SS      | 1/4       | 6     | 19         | 15         | 11.6       | 30        |
| TI-L-15-05                 | TI-L-15-05-SS      | 5/16      | 8     | 19         | 15         | 13.2       |           |
| TI-L-17-05                 | TI-L-17-05-SS      |           |       | 21         | 17         |            |           |
| TI-L-19-05                 | TI-L-19-05-SS      | 3/8       | 10    | 23         | 19         | 14.8       | 32        |
| TI-L-16-06                 | TI-L-16-06-SS      |           |       | 20         | 16         |            |           |
| TI-L-18-06                 | TI-L-18-06-SS      |           |       | 22         | 18         |            |           |
| TI-L-19-06                 | TI-L-19-06-SS      |           |       | 23         | 19         |            |           |
| TI-L-20-06                 | TI-L-20-06-SS      |           |       | 24         | 20         |            |           |
| TI-L-24-06                 | TI-L-24-06-SS      | 1/2       | 12+13 | 28.4       | 24         | 18.6       | 34        |
| TI-L-22-08                 | TI-L-22-08-SS      |           |       | 27         | 21.5       |            |           |
| TI-L-24-08                 | TI-L-24-08-SS      |           |       | 29.5       | 24         |            |           |
| TI-L-26-08                 | TI-L-26-08-SS      |           |       | 30         | 25.5       |            |           |
| TI-L-28-08                 | TI-L-28-08-SS      | 5/8       | 16    | 33         | 28         | 21.4       | 36.5      |
| TI-L-25-10                 | TI-L-25-10-SS      |           |       | 30         | 25         |            |           |
| TI-L-28-10                 | TI-L-28-10-SS      |           |       | 33         | 28         |            |           |
| TI-L-30-10                 | TI-L-30-10-SS      | 3/4       | 19+20 | 35         | 30         | 24.8       | 40        |
| TI-L-30-12                 | TI-L-30-12-SS      |           |       | 36         | 30         |            |           |
| TI-L-33-12                 | TI-L-33-12-SS      | 1         | 25    | 39         | 33         | 31         | 50        |
| TI-L-37-16                 | TI-L-37-16-SS      |           |       | 43         | 37         |            |           |
| TI-L-39-16                 | TI-L-39-16-SS      |           |       | 45         | 39         |            |           |
| TI-L-41-16                 | TI-L-41-16-SS      |           |       | 47         | 41         |            |           |
| TI-L-45-20                 | TI-L-45-20-SS      | 1.1/4     | 32    | 52         | 45         | 38.2       | 58        |
| TI-L-48-20                 | TI-L-48-20-SS      |           |       | 55         | 48         |            |           |
| TI-L-50-20                 | TI-L-50-20-SS      |           |       | 57         | 50         |            |           |
| TI-L-53-20                 | TI-L-53-20-SS      | 1.1/2     | 38+40 | 62         | 53         | 44.8       | 64        |
| TI-L-52-24                 | TI-L-52-24-SS      |           |       | 59         | 52         |            |           |
| TI-L-54-24                 | TI-L-54-24-SS      |           |       | 61         | 54         |            |           |
| TI-L-56-24                 | TI-L-56-24-SS      |           |       | 63         | 56         |            |           |
| TI-L-58-24                 | TI-L-58-24-SS      | 2         | 50+51 | 65         | 58         | 57         | 70        |
| TI-L-64-32                 | TI-L-64-32-SS      |           |       | 73         | 64         |            |           |
| TI-L-67-32                 | TI-L-67-32-SS      |           |       | 76         | 67         |            |           |
| TI-L-70-32                 | TI-L-70-32-SS      | 2.1/2     | 63+65 | 76.1       | 69.8       | 71         | 92        |
| TI-L-82-40                 | TI-L-82-40-SS      |           |       | 89.8       | 82         |            |           |
| TI-L-96-48                 | TI-L-96-48-SS      | 3         | 75+80 | 106.4      | 96         | 88         |           |



### Example:

Hose for water IV-PATOS-13 with inside diameter  $D_w = 13$  mm, outside diameter  $D_z = 23$  mm, fittings TI-ZBW110-08-08, crimping ferrule TI-L-24-08. Crimped in accordance with IT-14.

### Attention!

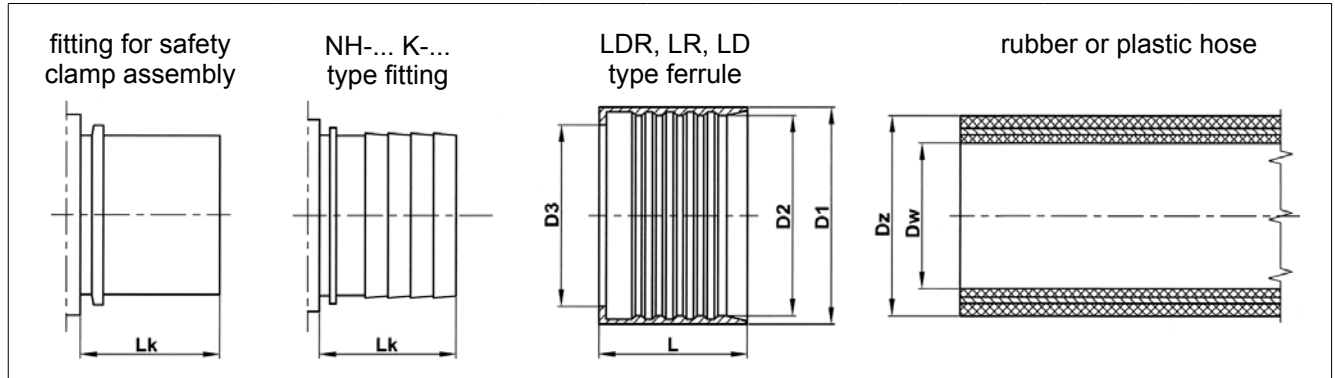
To crimp rubber and plastic hoses with textile reinforcement, properly selected ferrules for high-pressure thermoplastic hoses can also be used (ZC-..., MC-...).



# INDUSTRIAL FITTINGS - clips, clamps, ferrules

## Crimping ferrules for industrial hoses - LDR, LD, LR types

LDR, LD, LR type ferrules designed to crimp stainless steel hygienic fittings (with serrated hose tail) of NH-..K-... type and hose fittings with tails for safety clamps - RS, e.g. TW-KRS-..., NH-..R-... on industrial hoses (rubber and plastic with textile reinforcement, optionally with steel wire reinforcement - suction-delivery hoses). Inside Dw and outside Dz hose diameter must be taken into account when selecting the ferrule. The length of the ferrule L can be slightly (several mm) longer than the length of the fitting's hose tail Lk. LR ferrules - only for fittings for safety clamps, LD - only for NH-..., K-... type fittings. Ferrules made of AISI 316 steel available on request.



| code<br>(galvanized steel) | code<br>(AISI 304) | hose I.D. |         | D1<br>[mm] | D2<br>[mm] | D3<br>[mm] | L<br>[mm] |
|----------------------------|--------------------|-----------|---------|------------|------------|------------|-----------|
|                            |                    | [inch]    | [mm]    |            |            |            |           |
| -                          | TI-LD-024-08-SS    | 1/2       | 12+13   | 29.5       | 24         | 20         | 26        |
| -                          | TI-LD-026-10-SS    | 5/8       | 16      | 31.5       | 26         | 21.4       | 26        |
| -                          | TI-LD-030-12-SS    | 3/4       | 19+20   | 36         | 30         | 25         | 33        |
| -                          | TI-LR-030-12-SS    |           |         | 37         |            | 27         |           |
| -                          | TI-LR-033-12-SS    |           |         | 40         | 33         |            | 47        |
| -                          | TI-LD-037-16-SS    | 1         | 25      | 43         | 37         | 32         | 33.5      |
| TI-LR-037-16               | TI-LR-037-16-SS    |           |         | 44         |            | 33         | 33        |
| TI-LD-040-16               | TI-LD-040-16-SS    |           |         | 46         | 40         |            | 32        |
| TI-LR-040-16               | TI-LR-040-16-SS    |           |         | 47         |            | 33         | 47        |
| -                          | TI-LDR-042-20-SS   | 1.1/4     | 32      | 49         | 42         | 40         | 47        |
| TI-LDR-045-20              | TI-LDR-045-20-SS   |           |         | 52         | 45         |            |           |
| TI-LDR-048-20              | TI-LDR-048-20-SS   |           |         | 55         | 48         |            |           |
| TI-LDR-050-24              | TI-LDR-050-24-SS   | 1.1/2     | 38+40   | 58         | 50         | 45.8       | 48        |
| TI-LDR-056-24              | TI-LDR-056-24-SS   |           |         | 63.6       | 56         | 45.2       | 47        |
| -                          | TI-LDR-062-32-SS   | 2         | 50+51   | 70         | 62         | 59         | 54        |
| TI-LDR-064-32              | TI-LDR-064-32-SS   |           |         | 72         | 64         | 59         | 54        |
| TI-LDR-068-32              | TI-LDR-068-32-SS   |           |         | 76         | 68         |            |           |
| TI-LDR-071-32              | TI-LDR-071-32-SS   |           |         | 79         | 71         |            |           |
| TI-LDR-073-32              | TI-LDR-073-32-SS   |           |         | 81         | 73         |            |           |
| TI-LDR-078-40              | TI-LDR-078-40-SS   | 2.1/2     | 63+65   | 86         | 78         | 74         | 68        |
| TI-LDR-082-40              | TI-LDR-082-40-SS   |           |         | 90         | 82         |            |           |
| TI-LDR-085-40              | TI-LDR-085-40-SS   |           |         | 93         | 85         |            |           |
| TI-LDR-092-40              | TI-LDR-092-40-SS   |           |         | 100        | 92         |            |           |
| TI-LDR-090-48              | -                  |           |         | 98         | 90         |            |           |
| TI-LDR-092-48              | TI-LDR-092-48-SS   | 100       | 92      |            |            |            |           |
| TI-LDR-095-48              | TI-LDR-095-48-SS   | 103       | 95      |            |            |            |           |
| TI-LDR-098-48              | TI-LDR-098-48-SS   | 106       | 98      |            |            |            |           |
| TI-LDR-114-48              | TI-LDR-114-48-SS   | 123       | 114     |            |            |            |           |
| TI-LR-115-64               | -                  | 4         | 100+102 | 127        | 115        | 111        | 105       |
| -                          | TI-LD-119-64-SS    |           |         | 127        | 119        |            | 73.5      |
| TI-LR-120-64               | TI-LR-120-64-SS    |           |         | 128        | 120        |            | 105       |
| TI-LD-123-64               | TI-LD-123-64-SS    |           |         | 131        | 123        |            | 73.5      |
| TI-LR-123-64               | TI-LR-123-64-SS    |           |         |            |            |            | 105       |

# INDUSTRIAL FITTINGS - clips, clamps, ferrules



## RUBBER P-CLIP

Clamp designed for secure and vibration-damping suspension of pipes, cables, hoses, etc. It consists of a bent steel clip and a rubber flange profile. The rubber profile dampens mechanical impact and vibrations as well as protects cables and hoses against damage. The clip is made of galvanized carbon steel or AISI 304 steel, the profile of EPDM rubber resistant to water, abrasion, temperature changes and ageing.

| W1 code<br>(galv. steel) | W4 code<br>(AISI 304) | I.D.<br>[mm] | band<br>width<br>[mm] | bore<br>diameter<br>[mm] | W1 code<br>(galv. steel) | W4 code<br>(AISI 304) | I.D.<br>[mm] | band<br>width<br>[mm] | bore<br>diameter<br>[mm] |    |     |
|--------------------------|-----------------------|--------------|-----------------------|--------------------------|--------------------------|-----------------------|--------------|-----------------------|--------------------------|----|-----|
| AB-03003856              | AB-43003859           | 5            | 12                    | 5.3                      | AB-03004867              | AB-43004860           | 26           | 15                    | 6.4                      |    |     |
| AB-03003864              | AB-43003867           | 6            |                       |                          | AB-03004883              | AB-43004886           | 28           |                       |                          |    |     |
| AB-03003872              | AB-43003875           | 7            |                       |                          | AB-03004904              | AB-43004907           | 30           |                       |                          |    |     |
| AB-03003880              | AB-43003883           | 8            |                       |                          | AB-03004939              | AB-43004931           | 33           |                       |                          |    |     |
| AB-03003899              | AB-43003891           | 9            |                       |                          | AB-03004920              | AB-43004923           | 32           |                       |                          |    |     |
| AB-03003901              | AB-43003904           | 10           |                       |                          | AB-03004947              | AB-43004940           | 34           |                       |                          |    |     |
| AB-03003928              | AB-43003920           | 12           |                       |                          | AB-03004955              | AB-43004958           | 35           |                       |                          |    |     |
| AB-03003936              | AB-43003939           | 13           |                       |                          | AB-03004963              | AB-43004966           | 36           |                       |                          |    |     |
| AB-03003944              | AB-43003947           | 14           |                       |                          | AB-03004971              | AB-43004974           | 37           |                       |                          |    |     |
| AB-03003952              | AB-43003955           | 15           |                       |                          | AB-03004980              | AB-43004982           | 38           |                       |                          |    |     |
| AB-03003960              | AB-43003963           | 16           |                       |                          | AB-03005000              | AB-43005002           | 40           |                       |                          |    |     |
| AB-03003979              | AB-43003971           | 17           |                       |                          | AB-03005050              | AB-43005053           | 45           |                       |                          |    |     |
| AB-03003987              | AB-43003980           | 18           |                       |                          | AB-03005077              | -                     | 47           |                       |                          |    |     |
| AB-03003995              | AB-43003998           | 19           |                       |                          | AB-03005106              | AB-43005109           | 50           |                       |                          |    |     |
| AB-03004007              | AB-43004000           | 20           |                       |                          | AB-03005253              | -                     | 65           |                       |                          |    |     |
| AB-03004015              | AB-43004018           | 21           |                       |                          | AB-03005341              | -                     | 74           |                       |                          |    |     |
| AB-03004023              | AB-43004026           | 22           |                       |                          | AB-03005405              | -                     | 80           |                       |                          |    |     |
| AB-03004031              | AB-43004034           | 23           |                       |                          | AB-03005510              | AB-43005512           | 11           |                       |                          | 20 | 8.4 |
| AB-03004040              | AB-43004042           | 24           |                       |                          | AB-03005528              | AB-43005520           | 12           |                       |                          |    |     |
| AB-03004058              | AB-43004050           | 25           |                       |                          | AB-03005536              | AB-43005539           | 13           |                       |                          |    |     |
| AB-03004066              | AB-43004069           | 26           |                       |                          | AB-03005544              | AB-43005547           | 14           |                       |                          |    |     |
| AB-03004074              | AB-43004077           | 27           |                       |                          | AB-03005552              | AB-43005555           | 15           |                       |                          |    |     |
| AB-03004082              | AB-43004085           | 28           |                       |                          | AB-03005560              | AB-43005563           | 16           |                       |                          |    |     |
| AB-03004162              | -                     | 36           |                       |                          | AB-03005579              | AB-43005571           | 18           |                       |                          |    |     |
| AB-03004200              | AB-43004200           | 40           |                       |                          | AB-03005587              | AB-43005580           | 19           |                       |                          |    |     |
| AB-03004306              | -                     | 50           |                       |                          | AB-03005595              | AB-43005598           | 20           |                       |                          |    |     |
| AB-03004402              | -                     | 60           |                       |                          | AB-03005608              | AB-43005600           | 21           |                       |                          |    |     |
| AB-03004556              | AB-43004659           | 5            |                       |                          | AB-03005616              | AB-43005619           | 22           |                       |                          |    |     |
| AB-03004664              | AB-43004667           | 6            |                       |                          | AB-03005624              | AB-43005627           | 23           |                       |                          |    |     |
| AB-03004680              | AB-43004683           | 8            |                       |                          | AB-03005632              | AB-43005635           | 24           |                       |                          |    |     |
| AB-03004701              | AB-43004704           | 10           |                       |                          | AB-03005640              | AB-43005643           | 25           |                       |                          |    |     |
| AB-03004710              | AB-43004712           | 11           |                       |                          | AB-03005667              | AB-43005661           | 27           |                       |                          |    |     |
| AB-03004728              | AB-43004720           | 12           | AB-03005675           | AB-43005670              | 28                       |                       |              |                       |                          |    |     |
| AB-03004736              | AB-43004739           | 13           | AB-03005691           | AB-43005696              | 30                       |                       |              |                       |                          |    |     |
| AB-03004744              | AB-43004747           | 14           | AB-03005712           | AB-43005715              | 32                       |                       |              |                       |                          |    |     |
| AB-03004752              | AB-43004755           | 15           | AB-03005739           | AB-43005731              | 34                       |                       |              |                       |                          |    |     |
| AB-03004760              | AB-43004763           | 16           | AB-03005747           | AB-43005740              | 35                       |                       |              |                       |                          |    |     |
| AB-03004779              | AB-43004771           | 17           | AB-03005755           | AB-43005758              | 36                       |                       |              |                       |                          |    |     |
| AB-03004787              | AB-43004780           | 18           | AB-03005771           | AB-43005774              | 38                       |                       |              |                       |                          |    |     |
| AB-03004795              | AB-43004798           | 19           | AB-03005798           | AB-43005790              | 40                       |                       |              |                       |                          |    |     |
| AB-03004808              | AB-43004800           | 20           | AB-03005894           | AB-43005899              | 50                       |                       |              |                       |                          |    |     |
| AB-03004816              | AB-43004819           | 21           | AB-03006168           | AB-43006160              | 77                       |                       |              |                       |                          |    |     |
| AB-03004824              | AB-43004827           | 22           | AB-03006299           | AB-43006290              | 90                       |                       |              |                       |                          |    |     |
| AB-03004832              | AB-43004835           | 23           | -                     | AB-43006299              | 98                       |                       |              |                       |                          |    |     |
| AB-03004859              | AB-43004851           | 25           | AB-03007163           | -                        | 110                      |                       |              |                       |                          |    |     |