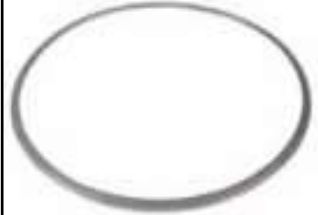




## V-BAND CLAMPS



## DAF

|                                                                                     |                                                                                                         |                                                                                      |                                                                                                       |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
|    | <p><b>7BM995</b></p> <p>Joint</p> <p>1927181</p> <p>Dia. int. : 359,5 mm<br/>Dia. ext. : 359,5 mm</p>   |    | <p><b>7BM987</b></p> <p>Joint</p> <p>126758467</p> <p>Dia.int : 432,1mm<br/>Dia.int: 4556,99mm</p>    |
|  | <p><b>7BM989</b></p> <p>Joint</p> <p>1927181</p> <p>Dia. int. : 364,82 mm<br/>Dia. ext. : 385,76 mm</p> |  | <p><b>7BM991</b></p> <p>Joint</p> <p>1927181</p> <p>Dia. int. : 341,8 mm<br/>Dia. ext. : 354,0 mm</p> |
|  | <p><b>7BM988</b></p> <p>Joint</p> <p>1927181</p> <p>Dia. int. : 324,0 mm<br/>Dia. ext. : 343,0 mm</p>   |  | <p><b>7BM965</b></p> <p>Kit</p> <p>1927181 41927181</p> <p>5 pièces</p>                               |

**DAF****7BM926**

Kit

2192099

(Replace by : 2325404 +  
2325403) 5 coins**7BM927**

Collier

2325404

Dia. int. : 334,0 mm

## DAF



## 7BM985

Joint

1997442

Dia. int. : 209,3 mm

Dia. ext. : 223,5 mm

## 7BM981

Collier

1997442

Dia. int. : 224,20 mm

## 7BM980

Kit

1997442 2 point : 1 collier  
+ 1 joint

**DAF****4MM987**

Joint

1976845

Dia. int. : 247,1 mm

Dia. ext. : 261,7 mm

**4MM988**

Collier

1976845

Dia. int. : 264,40 mm

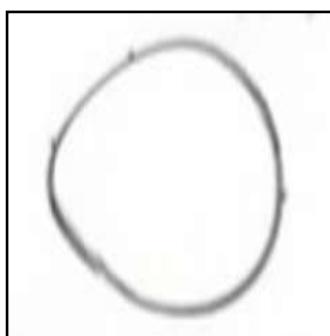
**7BM977**

Kit

1976845

2 point : 1 collier + 1 joint

## IVECO



JOINT : 7LM975

Ref. IVECO : 5801651206



COLLIER : 7LM971

Ref. IVECO : 5801651206

Dia. : 300 mm



COLLIER : 7LM969

Ref. IVECO : 5801651206

Dia. : 287,6 mm



KIT 3 PIÈCES : 7LM980

Ref. IVECO : 5801651206 2  
colliers + 1 joint

## DAF

|                                                                                    |                                                                         |                                                                                     |                                                                                                 |
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|  | <p><b>JOINT : 7LM975</b></p> <p>Ref. IVECO : 5801651206<br/>2326073</p> |  | <p><b>COLLIER : 7LM971</b></p> <p>Ref. IVECO :<br/>5801651206 Dia. : 300<br/>mm<br/>2326073</p> |
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|  | <p><b>COLLIER : 7LM969</b></p> <p>Ref. IVECO : 5801651206<br/>Dia. : 287,6 mm<br/>2326073</p> |  | <p><b>KIT 3 PIÈCES : 7LM980</b></p> <p>Ref. IVECO : 5801651206<br/>2 colliers + 1 joint<br/>2326073</p> |
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## DAF

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|  | <p>JOINT : 7LM975</p> <p>Ref. IVECO : 5801651206</p> |  | <p>COLLIER : 7LM971</p> <p>Ref. IVECO : 5801651206<br/>Dia. : 300 mm</p> |
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|  | <p>COLLIER : 7LM969</p> <p>Ref. IVECO : 5801651206<br/>Dia. : 287,6 mm</p> |  | <p>KIT 3 PIÈCES : 7LM980</p> <p>Ref. IVECO : 5801651206 2<br/>colliers + 1 joint</p> |
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## DAF

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|  | <p style="text-align: center; color: blue;">JOINT : 7LM975</p> <div style="border: 1px solid black; padding: 10px; margin-top: 10px;"> <p>Ref. IVECO : 5801651206</p> </div> |  | <p style="text-align: center; color: blue;">COLLIER : 7LM971</p> <div style="border: 1px solid black; padding: 10px; margin-top: 10px;"> <p>Ref. IVECO : 5801651206<br/>Dia. : 300 mm</p> </div> |
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|  | <p style="text-align: center; color: blue;">COLLIER : 7LM969</p> <div style="border: 1px solid black; padding: 10px; margin-top: 10px;"> <p>Ref. IVECO : 5801651206<br/>Dia. : 287,6 mm</p> </div> |  | <p style="text-align: center; color: blue;">KIT 3 PIÈCES : 7LM980</p> <div style="border: 1px solid black; padding: 10px; margin-top: 10px;"> <p>Ref. IVECO : 5801651206 2<br/>colliers + 1 joint</p> </div> |
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## DAF

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|  | <p><b>JOINT : 7LM984</b></p> <p>Ref. IVECO : 5801651134</p> |  | <p><b>COLLIER : 7LM983</b></p> <p>Ref. IVECO : 5801651134<br/>Dia. : 350 mm ext.</p> |
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|  | <p><b>COLLIER : 7LM982</b></p> <p>Ref. IVECO : 5801651134<br/>Dia. : 332 mm</p> |  | <p><b>KIT 4 PIÈCES : 7LK999</b></p> <p>Ref. IVECO : 5801651134<br/>Ref. IVECO : 5802039913 2<br/>colliers + 2 joints</p> |
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## DAF

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|  | <p style="text-align: center; color: blue;">JOINT : 7LM984</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>Ref. IVECO : 5801651134</p> </div> |  | <p style="text-align: center; color: blue;">COLLIER : 7LM983</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>Ref. IVECO : 5801651134<br/>Dia. : 350 mm ext.</p> </div> |
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|  | <p style="text-align: center; color: blue;">COLLIER : 7LM982</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>Ref. IVECO : 5801651134<br/>Dia. : 332 mm</p> </div> |  | <p style="text-align: center; color: blue;">KIT 4 PIÈCES : 7LK999</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>Ref. IVECO : 5801651134<br/>Ref. IVECO : 5802039913 2<br/>colliers + 2 joints</p> </div> |
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## DAF

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|  | <p>JOINT : 7LM984</p> <p>Ref. IVECO : 5801651134</p> |  | <p>COLLIER : 7LM983</p> <p>Ref. IVECO : 5801651134<br/>Dia. : 350 mm ext</p> |
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|  | <p>COLLIER : 7LM982</p> <p>Ref. IVECO : 5801651134<br/>Dia. : 332 mm</p> |  | <p>KIT 4 PIÈCES : 7LK999</p> <p>Ref. IVECO : 5801651134<br/>Ref. IVECO : 5802039913 2<br/>colliers + 2 joints</p> |
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## DAF

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|  | <p>JOINT : 7LM984</p> <p>Ref. IVECO : 5801651134</p> |  | <p>COLLIER : 7LM983</p> <p>Ref. IVECO : 5801651134<br/>Dia. : 350 mm ext</p> |
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|  | <p>COLLIER : 7LM982</p> <p>Ref. IVECO : 5801651134<br/>Dia. : 332 mm</p> |  | <p>KIT 4 PIÈCES : 7LK999</p> <p>Ref. IVECO : 5801651134<br/>Ref. IVECO : 5802039913 2<br/>colliers + 2 joints</p> |
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## DAF

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|  | <p><b>JOINT : 7LM984</b></p> <p>Ref. IVECO : 5801651134</p> |  | <p><b>COLLIER : 7LM983</b></p> <p>Ref. IVECO : 5801651134<br/>Dia. : 350 mm ext.</p> |
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|  | <p><b>COLLIER : 7LM982</b></p> <p>Ref. IVECO : 5801651134<br/>Dia. : 332 mm</p> |  | <p><b>KIT 4 PIÈCES : 7LK999</b></p> <p>Ref. IVECO : 5801651134<br/>Ref. IVECO : 5802039913 2<br/>colliers + 2 joints</p> |
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## DAF

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|  | <p><b>JOINT : 7LM984</b></p> <p>Ref. IVECO : 5801651134</p> |  | <p><b>COLLIER : 7LM983</b></p> <p>Ref. IVECO : 5801651134<br/>Dia. : 350 mm ext</p> |
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|  | <p><b>COLLIER : 7LM982</b></p> <p>Ref. IVECO : 5801651134<br/>Dia. : 332 mm</p> |  | <p><b>KIT 4 PIÈCES : 7LK999</b></p> <p>Ref. IVECO : 5801651134<br/>Ref. IVECO : 5802039913 2<br/>colliers + 2 joints</p> |
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## DAF

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|  | <p style="text-align: center; color: blue;">JOINT : 7LM984</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>Ref. IVECO : 5801651134</p> </div> |  | <p style="text-align: center; color: blue;">COLLIER : 7LM983</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>Ref. IVECO : 5801651134<br/>Dia. : 350 mm ext.</p> </div> |
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|  | <p style="text-align: center; color: blue;">COLLIER : 7LM982</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>Ref. IVECO : 5801651134<br/>Dia. : 332 mm</p> </div> |  | <p style="text-align: center; color: blue;">KIT 4 PIÈCES : 7LK999</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>Ref. IVECO : 5801651134<br/>Ref. IVECO : 5802039913 2<br/>colliers + 2 joints</p> </div> |
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## DAF

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|  | <p><b>JOINT : 7LM984</b></p> <p>Ref. IVECO : 5801651134</p> |  | <p><b>COLLIER : 7LM983</b></p> <p>Ref. IVECO : 5801651134<br/>Dia. : 350 mm ext.</p> |
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|  | <p><b>COLLIER : 7LM982</b></p> <p>Ref. IVECO : 5801651134<br/>Dia. : 332 mm</p> |  | <p><b>KIT 4 PIÈCES : 7LK999</b></p> <p>Ref. IVECO : 5801651134<br/>Ref. IVECO : 5802039913 2<br/>colliers + 2 joints</p> |
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## DAF

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|  | <p>JOINT : 7LM984</p> <p>Ref. IVECO : 5801651134</p> |  | <p>COLLIER : 7LM983</p> <p>Ref. IVECO : 5801651134<br/>Dia. : 350 mm ext.</p> |
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|  | <p>COLLIER : 7LM982</p> <p>Ref. IVECO : 5801651134<br/>Dia. : 332 mm</p> |  | <p>KIT 4 PIÈCES : 7LK999</p> <p>Ref. IVECO : 5801651134<br/>Ref. IVECO : 5802039913 2<br/>colliers + 2 joints</p> |
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## MAN

|                                                                                    |                                                           |                                                                                     |                                                           |
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|  | <p>GRAND JOINT : 2JM996</p> <p>Ref. MAN : 81159010043</p> |  | <p>PETIT JOINT : 2JM993</p> <p>Ref. MAN : 81159010044</p> |
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|  | <p>GRAND COLLIER : 2JM992</p> <p>Ref. MAN : 81974200184<br/>25 x 378</p> |  | <p>PETIT COLLIER : 2JM994</p> <p>Ref. MAN : 81974200185<br/>25 x 221</p> |
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## MAN

|                                                                                    |                                                                                    |                                                                                     |                                                                                    |
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|  | <p><b>GRAND JOINT : 2JM973</b></p> <p>Ref. MAN : 81159010045<br/>Dia. : 279 mm</p> |  | <p><b>PETIT JOINT : 2JM982</b></p> <p>Ref. MAN : 81159010046<br/>Dia. : 122 mm</p> |
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|                                                                                     |                                                                                      |                                                                                      |                                                                                      |
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|  | <p><b>GRAND COLLIER : 2JM978</b></p> <p>Ref. MAN : 06674314282<br/>40 x 14 x 282</p> |  | <p><b>PETIT COLLIER : 2JM980</b></p> <p>Ref. MAN : 06674314125<br/>40 x 14 x 125</p> |
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## MAN

|                                                                                     |                                                                                      |                                                                                      |                                                                                      |
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|   | <p><b>GRAND JOINT : 2JM986</b></p> <p>Ref. MAN : 81159010047<br/>Dia. : 304 mm</p>   |   | <p><b>GRAND JOINT : 2JM973</b></p> <p>Ref. MAN : 81159010045<br/>Dia. : 279 mm</p>   |
|  | <p><b>PETIT JOINT : 2JM982</b></p> <p>Ref. MAN : 81159010046<br/>Dia. : 122 mm</p>   |  | <p><b>GRAND COLLIER : 2JM984</b></p> <p>Ref. MAN : 06674314307<br/>40 x 14 x 307</p> |
|  | <p><b>PETIT COLLIER : 2JM980</b></p> <p>Ref. MAN : 06674314125<br/>40 x 14 x 125</p> |                                                                                      |                                                                                      |

## MAN

|                                                                                   |                                                                           |                                                                                    |                                                          |
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|  | <p>GRAND JOINT : 2JM996</p> <p>Ref. MAN : 81159010043<br/>X 2 par FAP</p> |  | <p>PETIT JOINT : 51299</p> <p>Ref. MAN : 81159010051</p> |
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|  | <p>GRAND COLLIER : 2JM992</p> <p>Ref. MAN : 81974200184<br/>25 x 378</p> |  | <p>PETIT COLLIER : 51298</p> <p>Ref. MAN : 81974200196</p> |
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## MERCEDES

|                                                                                    |                                                                                                                             |                                                                                     |                                                                                                                                                                                                          |
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|  | <p><b>JOINT : 39197</b></p> <p>Dia. int. : 245 mm - Dia.<br/>ext. : 255 mm Réf.<br/>Mercedes : 4911580-<br/>A0004911580</p> |  | <p><b>COLLIER : 3BM992</b></p> <p>Dia. int. : 280 mm - Dia.<br/>ext. : 284 mm Réf.<br/>MERCEDES :<br/>19954444/19954544<br/>19954944-19955644-<br/>19955744<br/>A0019954444/4544/4944/<br/>5644/5744</p> |
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|  | <p><b>COLLIER : 3BM996</b></p> <p>Dia. Int. : 267 mm Réf.<br/>Mercedes : 0009953933 -<br/>9953933 A0009953933</p> |  | <p><b>KIT 3 PIÈCES : 3BM968</b></p> <p>1-39197+1-3BM992+1-<br/>3BM996</p> |
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## MERCEDES



### JOINT : 3BM933

Dia. int. : 267 mm Ref.  
MERCEDES : 0009951833-  
9951833 A0009951833



### JOINT : 3BM978

Ref. Mercedes : 4911280-  
0004911280  
A0004911280



### COLLIER : 3BM992

Dia. int. : 280 mm – Dia. ext. :  
284mm Ref.  
MERCEDES19954444/19954544  
19954944 -19955644 - 19955744  
A0019954444/4544/4944/5644/  
5744

## MERCEDES

|                                                                                     |                                                                                                                             |                                                                                      |                                                                                                        |
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|   | <p><b>JOINT : 39197</b></p> <p>Dia. int. : 245 mm - Dia.<br/>ext. : 255 mm Ref.<br/>Mercedes : 4911580-<br/>A0004911580</p> |   | <p><b>COLLIER : 3BM996</b></p> <p>Joint<br/>126758467<br/>Dia.int : 432,1mm<br/>Dia.int: 4556,99mm</p> |
|  | <p><b>COLLIER : 3BM998</b></p> <p>Ref. Mercedes :<br/>19954544-0019954544<br/>A0019954544 Dia. : 280<br/>mm</p>             |  | <p><b>KIT 3 PIÈCES : 3BM968</b></p> <p>1-39197 + 1-3BM998 + 1-<br/>3BM996</p>                          |

## MERCEDES

|                                                                                    |                                                                                                                             |                                                                                     |                                                                                                                                                                                        |
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|  | <p><b>JOINT : 39197</b></p> <p>Dia. int. : 245 mm - Dia.<br/>ext. : 255 mm Ref.<br/>Mercedes : 4911580-<br/>A0004911580</p> |  | <p><b>COLLIER : 3BM992</b></p> <p>Dia. int. : 280 mm - Dia.<br/>ext. : 284 mm<br/>19954444/19954544<br/>19954944 -19955644 -<br/>19955744<br/>A0019954444/4544/4944/<br/>5644/5744</p> |
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|  | <p><b>COLLIER : 3BM996</b></p> <p>Dia. int. : 267 mm Ref.<br/>Mercedes : 0009953933-<br/>9953933 A0009953933</p> |  | <p><b>KIT 3 PIÈCES : 3BM968</b></p> <p>1-39197+1-3BM992+1-<br/>3BM996</p> |
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## MERCEDES

|                                                                                     |                                                                                                                                |                                                                                      |                                                                                           |
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|   | <p><b>JOINT : 3BM993</b></p> <p>Ref. Mercedes : 4911380-0004911380<br/>A0004911380 Dia. int. : 263 mm - Dia. ext. : 279 mm</p> |   | <p><b>COLLIER : 63577</b></p> <p>Ref. Mercedes : 6809950202-A6809950202 Dia. : 267 mm</p> |
|  | <p><b>COLLIER : 3BM998</b></p> <p>Ref. Mercedes : 19954544-0019954544 A0019954544 Dia. : 280 mm</p>                            |  | <p><b>KIT 3 PIÈCES : 3BM971</b></p> <p>1-3BM993+1-63577+1-3BM998</p>                      |

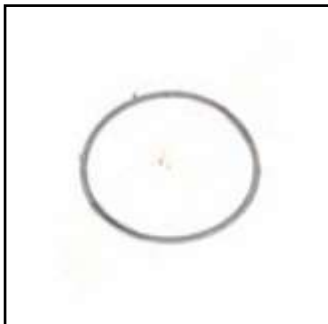
## MERCEDES

|                                                                                     |                                                                                                                                |                                                                                      |                                                                                           |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
|   | <p><b>JOINT : 3BM993</b></p> <p>Ref. Mercedes : 4911380-0004911380<br/>A0004911380 Dia. int. : 263 mm - Dia. ext. : 279 mm</p> |   | <p><b>COLLIER : 63577</b></p> <p>Ref. Mercedes : 6809950202-A6809950202 Dia. : 267 mm</p> |
|  | <p><b>COLLIER : 3BM998</b></p> <p>Ref. Mercedes : 19954544-0019954544 A0019954544 Dia. : 280 mm</p>                            |  | <p><b>KIT 3 PIÈCES :</b></p> <p>1-3BM993+1-63577+1-3BM998</p>                             |

## MERCEDES

|                                                                                    |                                                                                                                                |                                                                                     |                                                                                           |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
|  | <p><b>JOINT : 3BM993</b></p> <p>Ref. Mercedes : 4911380-0004911380<br/>A0004911380 Dia. int. : 263 mm - Dia. ext. : 279 mm</p> |  | <p><b>COLLIER : 63577</b></p> <p>Ref. Mercedes : 6809950202-A6809950202 Dia. : 267 mm</p> |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|

|                                                                                     |                                                                                                         |                                                                                      |                                                                      |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------|
|  | <p><b>COLLIER : 3BM998</b></p> <p>Ref. Mercedes : 19954544-0019954544<br/>A0019954544 Dia. : 280 mm</p> |  | <p><b>KIT 3 PIÈCES : 3BM971</b></p> <p>1-3BM993+1-63577+1-3BM998</p> |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------|

**MERCEDES****JOINT : 3BM993**

Ref. Mercedes : 4911380-  
0004911380  
A0004911380 Dia. int. :  
263 mm - Dia. ext. : 279  
mm

**COLLIER : 3BM998**

Ref. Mercedes :  
19954544-0019954544  
A0019954544 Dia. : 280  
mm

**COLLIER : 3BM996**

Ref. Mercedes :  
0009953933-9953933  
A0009953933 Dia. int. :  
267 mm

## MERCEDES

|                                                                                    |                                                                                                                                |                                                                                     |                                                                                           |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
|  | <p><b>JOINT : 3BM993</b></p> <p>Ref. Mercedes : 4911380-0004911380<br/>A0004911380 Dia. int. : 263 mm - Dia. ext. : 279 mm</p> |  | <p><b>COLLIER : 63577</b></p> <p>Ref. Mercedes : 6809950202-A6809950202 Dia. : 267 mm</p> |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|

|                                                                                     |                                                                                                     |                                                                                      |                                                                      |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------|
|  | <p><b>COLLIER : 3BM998</b></p> <p>Ref. Mercedes : 19954544-0019954544 A0019954544 Dia. : 280 mm</p> |  | <p><b>KIT 3 PIÈCES : 3BM971</b></p> <p>1-3BM993+1-63577+1-3BM998</p> |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------|

## MERCEDES

|                                                                                    |                                                                                                                 |                                                                                     |                                                                                                                             |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
|  | <p><b>COLLIER : 3BM998</b></p> <p>Ref. Mercedes :<br/>19954544-0019954544<br/>A0019954544 Dia. : 280<br/>mm</p> |  | <p><b>JOINT : 39197</b></p> <p>Dia. int. : 245 mm - Dia.<br/>ext. : 255 mm Ref.<br/>Mercedes : 4911580-<br/>A0004911580</p> |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|

|                                                                                     |                                                                                                                  |                                                                                      |                                                                                                             |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
|  | <p><b>COLLIER : 3BM996</b></p> <p>Dia. Int. : 267 mm Ref.<br/>Mercedes : 0009953933-<br/>9953933 A0009953933</p> |  | <p><b>KIT 3 PIÈCES : 3BM968</b></p> <p>Joint<br/>126758467<br/>Dia.int : 432,1mm<br/>Dia.int: 4556,99mm</p> |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|

## RENAULT-VOLVO



### KIT DE MONTAGE :

Grand Collier (1x) : 21664904-23260887-  
7421664904 Petit Collier (1x) : 21664906-  
23260891-7421664906 Joint (2x) : 21664918-  
7421664918



### KIT DE MONTAGE : 1G0006

Grand Collier (1x) : 21445539-22778070-  
7421445539 Petit Collier (1x) : 21445536-  
7421445536 Joint (2x) : 21570880-7421570880  
Complet (4 pièces) : 23108406

## SCANIA

|                                                                                   |                                                            |                                                                                    |                                                            |
|-----------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------|
|  | <p>JOINT : 4MM995</p> <p>Ref. Scania : 2168586-2588429</p> |  | <p>JOINT : 4MM994</p> <p>Ref. Scania : 2096951-2097659</p> |
|-----------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------|

|                                                                                     |                                                      |                                                                                      |                              |
|-------------------------------------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------|
|  | <p>COLLIER : 4MM993</p> <p>Ref. Scania : 2097660</p> |  | <p>KIT 3 PIÈCES : 4MM984</p> |
|-------------------------------------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------|

## SCANIA



JOINT : 4MM990

Ref. Scania : 2137602-  
2431439 2217917



SEALING RING: 4MM997

Joint  
126758467  
Dia.int : 432,1mm  
Dia.int: 4556,99mm



COLLIER : 4MM999

Ref. Scania : 2137233

## ABOUT US:

Invicta India has established a prime position for itself amongst leading manufacturers of Clamps and coupling since the year 1995.

Invicta India clamps serve fail-proof joining solutions to various sectors viz. Automotive, Tractors, Diesel Engines, Irrigation, Marine, Chemical, Electrical, Filtration and many others. Since the past five decades, we have been continuously serving reputed OEMs and commercial markets worldwide.

Having rich experience in the industry, Invicta team take pride in providing varied clamping solutions to suit the needs of its clients.

Additionally, our team had various opportunities to develop special designs for Gas Turbine applications and clamps. Certain designs developed by us are patented

Our plants are well equipped with advanced machinery for the purposes of development and manufacturing & have its own special processes in-house viz. Trivalent Plating plant & Heat treatment. ETP plant is also in place for waste water recycling. We run our own Design Validation Process (DVP & R) with all necessary testing equipment. It is backed up with skilled employees who take efforts to ensure the quality of the clamps by testing their strength and reliability. Every clamp is passed through several quality checkpoints & is embossed with a batch number for reverse traceability

## QUALITY ASSURANCE:

Invicta India has been manufacturing clamps and fastenings for over 26 years. Quality is the cornerstone of our philosophy and has been the main contributor to our success and longevity.

Although often a small and relatively inexpensive part of the overall equipment, their reliability and functionality are of paramount importance. All materials used by Invicta India are certified and manufacturing quality is closely monitored throughout, using a combination of in process and final inspection testing. Invicta India operates a stringent quality system, from the initial design conception right through the manufacturing process to final packing and indeed dispatch.



## AVAILABLE MATERIALS

ZINC PLATING ST-37, STAINLESS STEEL 304,  
STAINLESS STEEL 316, AND STAINLESS STEEL 430

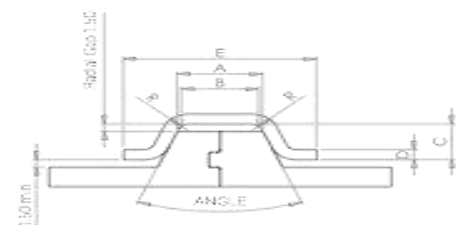
## APPLICATIONS

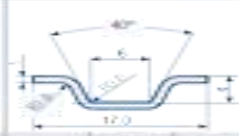
Engines, Aerospace, Turbochargers, Petrochemicals, Exhaust Systems, and Communications V-Band Clamps provide fast and secure coupling for connecting flanged joints.

These V-Band clamps feature high strength and positive sealing integrity. Custom Sizes available - Please contact our sales team to discuss flange specifications.

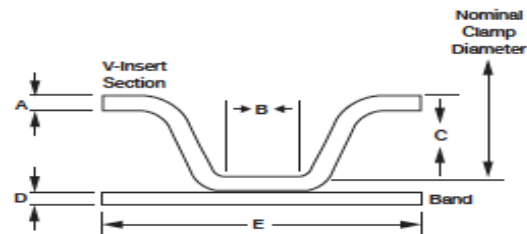
### TECHNICAL INFORMATION

| Profile Reference | "A" Flange Tip Width mm | "B" Tip Width mm | "C" Retainer Depth mm | "D" Material Thickness mm | "E" Overall Width mm | "R" Radius | Internal Angle |
|-------------------|-------------------------|------------------|-----------------------|---------------------------|----------------------|------------|----------------|
| A                 | 6.35                    | 5.26             | 7.14                  | 1.5                       | 19.05                | 1.5        | 40             |
| D                 | 7.4                     | 6.65             | 3.58                  | 1.22                      | 16.0                 | 0.41       | 40             |
| E                 | 11.25                   | 10.16            | 7.14                  | 1.22                      | 25.4                 | 0.8        | 40             |
| S                 | 11.25                   | 10.16            | 7.14                  | 2.0                       | 25.4                 | 1.5        | 40             |
| LL                | 9.3                     | 8.2              | 12.5                  | 2.5                       | 30.0                 | 2.5        | 40             |
| MM                | 15.1                    | 14.0             | 20.0                  | 3.0                       | 45.0                 | 3.0        | 40             |
| AS                | 8.1                     | 7.0              | 7.14                  | 2.0                       | 25.4                 | 1.5        | 40             |
| AX                | 15.6                    | 14.5             | 7.0                   | 1.5                       | 22.8                 | 1.5        | 40             |
| BA                | 9.0                     | 7.9              | 5.2                   | 1.5                       | 15.0                 | 1.0        | 40             |
| BP                | 10.25                   | 9.14             | 7.75                  | 2.0                       | 25.5                 | 2.0        | 40             |



|                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>4.0 b</b> $\geq \varnothing 89$                                                  | <b>5.0 a</b> $\geq \varnothing 82$                                                  | <b>5.3 b</b> $\geq \varnothing 110$                                                 | <b>6.0 a</b> $\geq \varnothing 100$                                                  | <b>6.5 a</b> $\geq \varnothing 120$                                                   |
|  |  |  |  |  |
| STC      25 mm      25 mm                                                           | STC      25 mm      25 mm                                                           | STC      25 mm      25 mm                                                           | STC      25 mm      25 mm                                                            | STC      25 mm      25 mm                                                             |
| QPC      •      •                                                                   | QPC      •      •                                                                   | QPC      •      •                                                                   | QPC      •      •                                                                    | QPC      •      •                                                                     |
| <b>6.6 b</b> $\geq \varnothing 100$                                                 | <b>7.9 b</b> $\geq \varnothing 100$                                                 | <b>9.2 a</b> $\geq \varnothing 100$                                                 | <b>10.2 a</b> $\geq \varnothing 100$                                                 | <b>14.5 a</b> $\geq \varnothing 105$                                                  |
|  |  |  |  |  |
| STC      25 mm      25 mm                                                           | STC      25 mm      25 mm                                                           | STC      25 mm      25 mm                                                           | STC      25 mm      25 mm                                                            | STC      25 mm      25 mm                                                             |
| QPC      •      •                                                                   | QPC      •      •                                                                   | QPC      •      •                                                                   | QPC      •      •                                                                    | QPC      •      •                                                                     |

## TECHNICAL INFORMATION



| Part Number | Nominal Diameter | A                | B          | C            | D              | E          | Insert angle column degree |
|-------------|------------------|------------------|------------|--------------|----------------|------------|----------------------------|
|             |                  | Insert Thickness | Apex Width | Insert Depth | Band Thickness | Band Width |                            |
| Rex-001     | 44.5             | 1.27             | 6.65       | 3.58         | 0.63           | 15.87      | 45                         |
| Rex-002     | 80               | 1.27             | 6.65       | 3,58         | 0.88           | 19.05      | 45                         |
| Rex-003     | 81.5             | 1.27             | 6.65       | 3.58         | 0.88           | 19.05      | 45                         |
| Rex-004     | 85.9             | 1.95             | 5.25       | 7.13         | 1.01           | 22.22      | 45                         |
| Rex-005     | 97               | 1.95             | 5.25       | 7.13         | 1.01           | 22.22      | 45                         |
| Rex-006     | 97               | 1.95             | 5.25       | 7.13         | 1.27           | 22.22      | 45                         |
| Rex-007     | 98.6             | 1.27             | 10.16      | 7.13         | 1.01           | 22.22      | 45                         |
| Rex-008     | 100.6            | 1.95             | 5.25       | 7.13         | 1.57           | 22.22      | 45                         |
| Rex-009     | 102.6            | 1.27             | 6.25       | 3.58         | 0.88           | 19.05      | 45                         |
| Rex-010     | 108              | 1.27             | 10.16      | 7.13         | 1.01           | 22.22      | 45                         |
| Rex-011     | 109.5            | 1.95             | 5.25       | 7.13         | 1.01           | 22.22      | 45                         |
| Rex-012     | 114.3            | 1.27             | 6.65       | 3.58         | 0.88           | 19.05      | 45                         |
| Rex-013     | 117.1            | 1.27             | 3.96       | 7.13         | 0.88           | 19.05      | 45                         |
| Rex-014     | 120.7            | 1.27             | 10.16      | 7.13         | 1.01           | 22.22      | 45                         |
| Rex-015     | 122.2            | 1.95             | 5.25       | 7.13         | 1.01           | 22.22      | 45                         |
| Rex-016     | 133.4            | 1.27             | 6.65       | 3.58         | 0.88           | 19.05      | 45                         |
| Rex-017     | 147.6            | 1.27             | 5.25       | 7.13         | 1.57           | 22.22      | 45                         |
| Rex-018     | 149.4            | 1.27             | 10.16      | 7.13         | 1.01           | 22.22      | 45                         |
| Rex-019     | 149.9            | 1.27             | 6.65       | 3.58         | 0.88           | 19.05      | 45                         |
| Rex-020     | 152.4            | 1.27             | 3.96       | 7.13         | 0.88           | 19.05      | 45                         |
| Rex-021     | 242.8            | 1.27             | 13.46      | 5.46         | 0.88           | 19.05      | 45                         |
| Rex-022     | 242.8            | 1.27             | 13.97      | 7.13         | 0.88           | 19.05      | 45                         |
| Rex-023     | 271.5            | 1.27             | 5.25       | 7.13         | 1.57           | 22.22      | 45                         |

## V-BAND CLAMP (EUROPEAN STYLE)



V-Band clamps provide fast, secure clamping for flanged joints.

V-Band clamps are engineered for long term durability, strength, corrosion resistance, easy usage with the highest quality standards.

### The Advantages

- Compact design
- Space and weight saving design
- Durable and stronger clamping system
- Easy handling
- Quick assembly

### Outline Specifications

- Diameter range: 50mm to 600mm
- High pressure, corrosion resistance and temperature rating up to 900 °C

### Materials

- 300 series stainless steel : 304, 301, 316, 316Ti
- 400 series stainless steel : 438, 409, 410S, 441
- Flange width range: 4mm to 25mm
- Flange depth range: 4mm to 20mm

It is used in a wide range of applications including exhaust systems, turbochargers, pumps, filters, emission and industrial applications, diesel engines and other flanged joints.



V-Band Klammern bieten ein Flanschverbindungsprodukt schnell, sicher und qualitativ. Lösungen an den Flanschverbindungen werden unter Berücksichtigung der wichtigsten Faktoren wie Temperatur, Druck und Vibration die am besten geeigneten Materialien und technischen Eigenschaften für die V-Bandklammer-Herstellung verwendet, die Vibrationsfestigkeit und Abdichtung gewährleisten.

### Vorteile

- Kompaktes Design
- Platz- und Gewichtsparcours
- Stabiler und dauerhafter Schließmechanismus
- Leicht- und schnelle Montage

### Allgemeine Technische Eigenschaften

- Durchmesserbereich: 50mm bis 600mm (besondere Durchmesserwünsche werden bewertet.)

- Hoher Druck-, Korrosions- und bis zu 900 °C Temperaturbeständig

### verwendete Materialien:

- 300 Serie Edelstahl : 304, 301, 316, 316Ti

- 400 Serie Edelstahl : 438, 409, 410S, 441

- Flanschbreite: 4mm bis 25mm

- Flanschtiefe: 4mm bis 20mm

**Typische Einsatzgebiete:** Einlass- und Auslass-Verbindungen, Turbolader-Verbindungen, Abgasanlagen, Dieselmotoren, Pumpen und alle Flanschverbindungen.

| NOMINAL DIAMETER | FLANGE O.D. |
|------------------|-------------|
| Ø97              | Ø94         |
| Ø103             | Ø100        |
| Ø110             | Ø107        |
| Ø131             | Ø128        |
| Ø243             | Ø240        |
| Ø117             | Ø114        |
| Ø68              | Ø65         |
| Ø197             | Ø194        |
| Ø124,4           | Ø121,4      |
| Ø76,5            | Ø73,5       |
| Ø127             | Ø124        |
| Ø115,8           | Ø112,8      |
| Ø115,8           | Ø112,8      |
| Ø127,4           | Ø124,4      |
| Ø127,4           | Ø124,4      |
| Ø145,8           | Ø142,8      |
| Ø155,8           | Ø152,8      |
| Ø145,8           | Ø142,8      |
| Ø70              | Ø67         |

| Band Width (mm) | Band Thickness (mm) | Material           | Bolt   |          |
|-----------------|---------------------|--------------------|--------|----------|
|                 |                     |                    | Metric | Material |
| 20 mm           | 1 - 1,2 - 1,5 mm    | AISI 300 Series SS | M6     | AISI 304 |
| 25 mm           | 1,2 - 1,5 - 2 mm    | AISI 400 Series SS | M8     | AISI 316 |
| 30 mm           | 1,2 - 1,5 - 2 mm    |                    | M10    |          |



## CLOSURE TYPES

### STC – Straight Trunnion Closure



#### Advantages:

- Low-friction losses
- High-strength precision-machined components
- Manufactured from consistently high-quality materials
- State-of-the-art automated manufacturing
- Competitively priced

### QRC – Quick-Release Closure



#### Advantages:

- All the advantages of STC-type closures
- Rapid closing and opening
- Captive closure components
- Significantly shorter installation times
- Closure bolt secured during tightening

## DOUBLE HARDWARE T-BOLT V-BAND CLAMP

### Band widths & closure sizes

V-Band clamps are manufactured in two different band widths and with different closures, depending on the profile type concerned:



Dual V-Band clamps provide high tightening torque and secure coupling for critical joints which includes large diameter applications and high vibration.

- High tightening torque and accurate sealing with double latch
- High resistance to pressure and vibration
- Long term durability, strength and corrosion resistance
- Space and weight saving compact design
- Easy handling
- Quick assembly

It is used in a wide range of applications including exhaust connections, pumps, ship exhaust systems and other flanged joints.



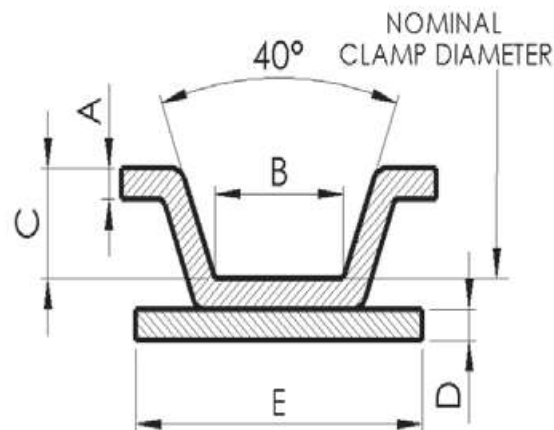
Doppel-V-Bandklemmen sind dafür konzipiert, dass sie vor allem bei großem Durchmesser und Vibrationen an kritischen Verbindungspunkten für hohen Drehmoment und eine vollständige Abdichtung sorgen.

- Mit doppeltem Schließmechanismus hoher Drehmoment und vollständige Abdichtung
- Hohe Beständigkeit gegen Druck und Vibration
- Langlebige hohe Korrosionsfestigkeit
- Platz- und Gewichtsparendes Design
- leichte und schnelle Montage

**Typische Einsatzgebiete:** Sei industrielle Anwendungen, Pui Flanschverbindungen.



| NOMINAL DIAMETER | FLANGE O.D. |
|------------------|-------------|
| Ø300             | Ø279        |
| Ø193             | Ø190        |
| Ø211             | Ø208        |
| Ø373             | Ø370        |



| Band Widthness (mm) | Band Thickness (mm)  | Material                                 | Bolt                              |                 | Material                                             |
|---------------------|----------------------|------------------------------------------|-----------------------------------|-----------------|------------------------------------------------------|
|                     |                      |                                          | inch.                             | Metric          |                                                      |
| 19 mm               | 1 - 1,2 - 1,5 mm     | AISI 300 Series SS<br>AISI 400 Series SS | 1/4 inc.<br>5/16 inc.<br>3/8 inc. | M6<br>M8<br>M10 | AISI 410<br>AISI 304<br>Steel 8.8<br>(Geomet Plated) |
| 22,2 mm             | 1 - 1,2 - 1,5 - 2 mm |                                          |                                   |                 |                                                      |
| 25 mm               | 1,2 - 1,5 - 2 mm     |                                          |                                   |                 |                                                      |
| 31,8 mm             | 1,5 - 2 mm           |                                          |                                   |                 |                                                      |

## V-CLAMP FLANGE.



V-Band Flange Kit provide fast, secure coupling for tube connections. It is a perfect solution for easy installation and disassemble of tube connections.

It is used in a wide range of applications including turbo charges, tube fixing, pumps, high pressure air and water systems.

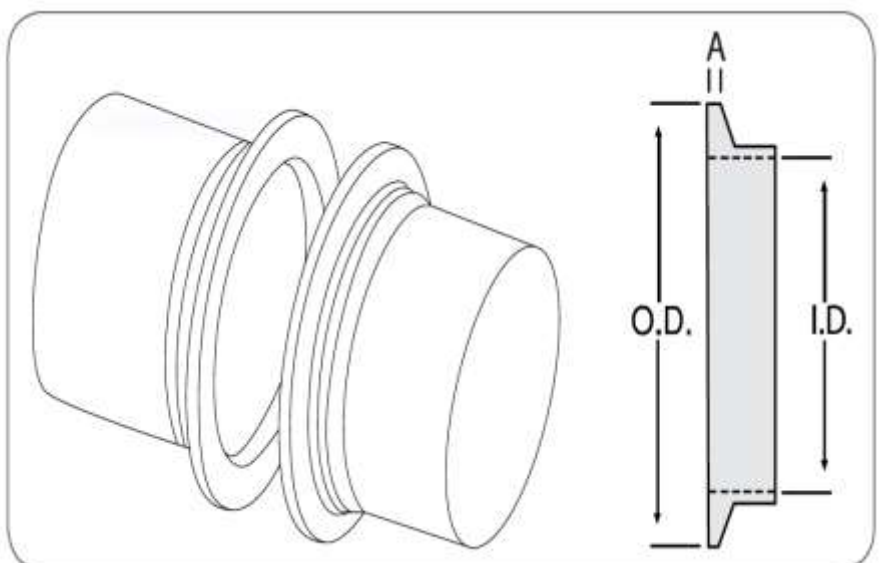


V-Band Flansch-Kit bietet für Rohre schnelle, sichere und hochwertige Verbindungen.

Typische Einsatzgebiete: Turbolader Verbindungen, modifizierte Abgasverbindungen, Filter und bietet an allen Rohrverbindungen praktische Montagemöglichkeiten.



| Turbo Size / O.D. | Part No V-Bant Kit | ID mm         | OD    | A dia mm |
|-------------------|--------------------|---------------|-------|----------|
| 2,00"             | VBK200             | 50,8 (+0,75)  | 70,55 | 4,08     |
| 2,50"             | VBK250             | 63,5 (+0,75)  | 83,25 | 4,08     |
| 3,00"             | VBK300             | 76,2 (+0,75)  | 95,95 | 4,08     |
| 3,50"             | VBK350             | 88,9 (+0,75)  | 111   | 4,08     |
| 4,00"             | VBK400             | 101,6 (+0,75) | 124   | 4,08     |
| 4,50"             | VBK450             | 114,3 (+0,75) | 137,5 | 4,08     |
| 5,00"             | VBK500             | 127 (+0,75)   | 149,5 | 4,08     |



To complement the V-Clamps which we manufacture we also offer machined flanges and seals as part of a kit.

Our flanges can be machined to work with flat gaskets, O-Ring gaskets or supplied without a gasket. The gaskets are available in Graphite, NBR, Viton, Silicone, EPDM, PTFE & Chloroprene. The flanges themselves can be machined in AISI304 & AISI316 stainless steels.

As standard we produce flanges to suit 2", 2.5", 3", 3.5" & 4" tube OD's in many of our V-Profiles.

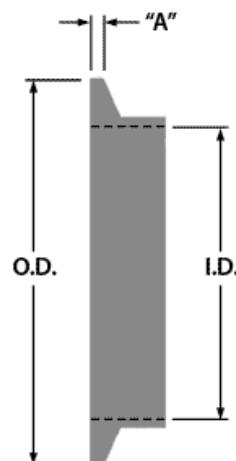


V-Band clamps have been around for ages. Sometimes called "Marmon clamps", they are used in a variety of commercial, industrial, and racing applications. In many cases the end of a tube/pipe is pressed to form the flange. We have designed a line weld on flanges that can be used to replace the old 3 bolt flange or slip and clamp connections. The precision CNC machined surface provides a gasket less seal. The T-bolt style latch allows the clamp to be installed quickly without removing the nut.



INVICTA INDIA V-Bands are designed for use with INVICTA INDIA Sealing Flanges. The advertised size refers to the outside diameter of the tubing that will slide through the inside diameter of the sealing flange. Our V-Band clamps and sealing flanges are not designed specifically to be compatible with other manufactures flanges, such as turbine outlets. See the diagram and chart (*right*) for compatibility.

| Flange P/N # | I.D.  | O.D.  | A dia. |
|--------------|-------|-------|--------|
| 150          | 1.50" | 2.24" | .150"  |
| 175          | 1.75" | 2.49" | .150"  |
| 200          | 2.00" | 2.69" | .150"  |
| 225          | 2.25" | 2.99" | .150"  |
| 250          | 2.50" | 3.22" | .150"  |
| 275          | 2.75" | 3.49" | .150"  |
| 300          | 3.00" | 3.69" | .150"  |
| 350          | 3.50" | 4.22" | .150"  |
| 400          | 4.00" | 4.69" | .150"  |
| 450          | 4.50" | 5.10" | .150"  |
| 500          | 5.00" | 5.59" | 0.15   |



|                                                                                                                                                                                                                                                     |                                                                                     |                                                                                                                                                                                                                                                       |                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>V-BAND CLAMP (T-BOLT)</b>                                                                                                                                                                                                                        |    | <b>DOUBLE HARDWARE T-BOLT V-BAND CLAMP</b>                                                                                                                                                                                                            |    |
| <b>ROLL FORMED T-BOLT V-BAND CLAMP</b>                                                                                                                                                                                                              |    | <b>Worm Drive V-Band Clamp</b> <ul style="list-style-type: none"> <li>• Light Duty - Designed for Low Pressure Applications</li> <li>• Hardware - 5/16" slotted hex-screw</li> <li>• Sizes: 1.75" - 7" (2" - 5.50")</li> <li>• 3 V-inserts</li> </ul> |    |
| <b>Quick Release V-Band Clamp</b>                                                                                                                                                                                                                   |  | <b>Spring Loaded V-Band Clamp (Turbocharger Applications)</b>                                                                                                                                                                                         |  |
| <b>Thumb-Turn V-Band Clamp</b> <ul style="list-style-type: none"> <li>• Light Duty - Designed for Low Pressure Applications</li> <li>• Thumb Screw for Hand Tightening.</li> <li>• Sizes: 1.75" - 7" (2" - 5.50")</li> <li>• 3 V-inserts</li> </ul> |  |                                                                                                                                                                                                                                                       |                                                                                       |

## SERIES - 1

Invicta V-Profile Clamps use an optimized design that reduces weight and maximizes space. The result is improved fuel consumption and a more flexible use of space around the application.

### The advantages at a glance

- Quick assembly
- Compact design
- Lightweight
- Easy handling
- Wide range of existing profiles

### Why choose a V-Profile Clamp?

- Easy to handle and provide ease of assembly.
- Compact design requires minimal space
- Quick to assemble – only one bolt to tighten to produce a secure joint
- Lightweight, reducing the total weight of the system



### Methods of Operation

- The profile clamp's method of operation is based on the principle of an inclined plane.
- When the closure bolt is tightened, this exerts circumferential force on the profile segments.
- The two halves of the flange are pressed together by means of the profile.
- The circumferential force that is exerted is translated into considerably higher axial force.

### Applications

- Exhaust gas systems
- Exhaust gas recirculation (EGR)
- Charged air applications
- Cooling systems
- Filter systems
- Selective catalytic reduction (SCR)
- Turbocharger manifold connections



## SERIES – 2

The Series-2 is a stamped V-Clamp that is a low-cost and economical continuously formed metal band with a flexible hinge point. The spot-weld-free construction enhances corrosion resistance.

### Applications

- Air connections
- Exhaust connections
- Materials: Corrosion- and heat-resistant steel (Cold-rolled steel and stainless steel)
- **Sizes:** 2-1/8" – 7" (178 mm) or 1.75" (44.5 mm) to 7" (178 mm)
- **Fasteners:** 1/4" and 5/16"



## SERIES – 3

The Series-3 V-Clamp is a cost-effective continuously formed metal band having two 180° V-Retainer zones and an added hinge point for flexibility with a general purpose style closure.

### Applications

- Light-duty Turbocharger connections
- Turbo exhaust outlet
- Diesel exhaust connections
- **Materials:** Corrosion-resistant and specialty steels 301SS, 304SS, 316SS
- **Sizes:** 4" (102 mm) to 9" (229 mm) diameter (limited dimensions)
- **Fasteners:** 1/4"



## SERIES – 4

Series-4 V-Clamp Halves feature two separate V-retainers with two bolts. This creates a more uniform clamping load than a single bolt clamp. The spot-weld-free construction enhances the corrosion resistance. Available options include carriage, hex head or special bolts, captivated nuts.

### Applications

- Air brakes, exhaust connections
- Diaphragm pumps
- **Materials:** Steel, plated steel, corrosion- and heat-resistant steels
- **Fasteners:** #10, 1/4", 5/16"
- **Sizes:** 2" (51 mm) to 14" (356 mm) diameter
- **Tooling:** Application specific
- **Options:** Carriage, hex head or special bolts, captivated nuts



## SERIES – 5

The series-5 profile clamps are reliable and time-efficient connection elements.

### Applications

- Turbocharger
- Hot end and cold end joints
- EGR, SCR injector and sensor joints
- **Internal profile diameters available:** Diameter 20 –180 mm (other diameters upon request)



## SERIES – 6

The series -6 V-Coupling is designed for limited space applications and has two retainers connected with a hinge for ease of installation. The spot-weld-free construction provides enhanced corrosion resistance.

### Applications

- Small turbochargers
- Turbocharger turbine housing
- EGR systems
- Exhaust connections
- **Materials:** Corrosion- and heat-resistant steels
- **Sizes:** Diameter range 2" – 7"
- **Fasteners:** M6



## SERIES – 7

The Series-7 clamps offer a connection solution to applications exposed to high temperatures. A typical application is gasoline turbocharger connections.

### Applications

- Turbo gasoline engine manifold, turbocharger and catalyst joints
- High temperature diesel engine manifold and turbocharger joints
- Internal profile diameters available: Diameter 69–138 mm (other diameters upon request)



## SERIES – 8

The Series-8 two-piece profile clamps enable fast and easy pre-assembly by using only two fingers. The special design is based on a spring element and a hook in the bottom of the clamp, in combination with a pre-assembled bolt.

### Applications

- Turbocharger
- Hot end and cold end joints
- EGR, SCR injector and sensor joints
- Internal profile diameters available: Diameter 31 mm and 98 mm (other diameters upon request)



## SERIES – 9

The Series-9 compact profile clamps are reliable and time-efficient connection elements.

### Applications

- Turbocharger
- Hot end and cold end joints
- EGR, SCR injector and sensor joints
- **Internal profile diameters available:** Diameter 50–98 mm (other diameters upon request)



## ROLL FORMED T-BOLT V-BAND CLAMP / V-BAND CLAMPS - VTB



V-Band clamps provide fast, secure coupling for flanged joints. V-Band clamps are easy usage with the highest quality standards.

- Engineered for long term durability, strength, corrosion resistance
- Space and weight saving compact design
- Durable and stronger closure system
- Temperature rating up to 900 °C
- Easy handling
- Quick assembly

### Outline Specification Options:

- Diameter range 55mm to 600mm
  - Materials:  
300 series stainless steel: 304, 301, 116, 316Ti  
400 series stainless steel: 430, 405, 430Ti, 441
  - Flange width range 4mm to 25mm
  - Flange depth range 4mm to 20mm
- It is used in a wide range of applications including exhaust systems, turbochargers, pumps, filters, emission and industrial applications, diesel engines and other flanged joints.



V-Band Klammern bieten an Flanschverbindungen schnelle, sichere und qualitative Lösungen an.

- An Flanschverbindungen hohe Haftfestigkeit
- vollständige Abdichtung
- hohe Temperatur- (bis 900°C), Druck-, Vibration- und Korrosionsfestigkeit
- kompakte Bauweise bietet Platz- und Gewichtsersparnis
- einfache und schnelle Montage

### Produktspezifikationen:

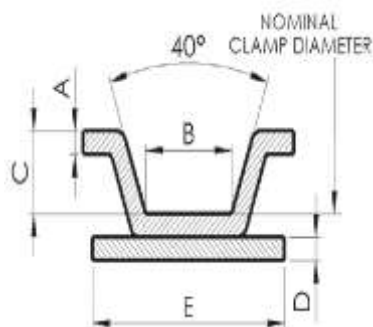
- Durchmesserbereich 55mm bis 600mm
- verwendete Materialien:  
300 Serie Edelstahl: 304, 301, 316, 316Ti  
400 Serie Edelstahl: 430, 405, 430Ti, 441
- Flanschbreite 4mm bis 25mm
- Flanschtiefe 4mm bis 20mm

### Typische Einsatzbereiche:

Emissionen- und industrielle Anwendungen, Turbolader Verbindungen, Abgasanlagen, Dieselmotoren, Pumpen und alle Flanschverbindungen.

| NOMINAL DIAMETER | FLANGE O.D. |
|------------------|-------------|
| Ø98,5            | Ø95,5       |
| Ø119             | Ø116        |
| Ø81,50           | Ø78,5       |
| Ø73,55           | Ø70,55      |
| Ø86,25           | Ø83,25      |
| Ø98,95           | Ø95,95      |
| Ø114             | Ø98,12      |
| Ø127             | Ø124        |
| Ø140,5           | Ø137,5      |
| Ø152,5           | Ø149,5      |
| Ø184,28          | Ø181,28     |
| Ø88,9            | Ø85,9       |
| Ø129,5           | Ø126,5      |
| Ø103             | Ø100        |
| Ø121             | Ø118        |
| Ø129,5           | Ø126,5      |
| Ø206,2           | Ø203,2      |
| Ø288,75          | Ø285,75     |
| Ø75              | Ø72         |
| Ø89              | Ø86         |
| Ø109,5           | Ø106,5      |
| Ø109             | Ø106        |
| Ø137,5           | Ø134,7      |
| Ø98              | Ø95         |
| Ø91,8            | Ø88,8       |

| NOMINAL DIAMETER | FLANGE O.D. |
|------------------|-------------|
| Ø160             | Ø157        |
| Ø98              | Ø95         |
| Ø124             | Ø121        |
| Ø76,2            | Ø73,2       |
| Ø117             | Ø114        |
| Ø104,1           | Ø101,1      |
| Ø93              | Ø90         |
| Ø152,5           | Ø149,5      |
| Ø183             | Ø180        |
| Ø118             | Ø115        |
| Ø150             | Ø147        |
| Ø205             | Ø202        |
| Ø115             | Ø112        |
| Ø213             | Ø210        |
| Ø65              | Ø62         |
| Ø110,2           | Ø107,2      |
| Ø104             | Ø101        |
| Ø163             | Ø160        |
| Ø162             | Ø159        |
| Ø155             | Ø152        |
| Ø127             | Ø124        |
| Ø152,4           | Ø149,4      |
| Ø203,4           | Ø204,4      |
| Ø130             | Ø127        |



| Band Wideness (mm) | Band Thickness (mm)  | Material                                 | Bolt inch.      | Material           |
|--------------------|----------------------|------------------------------------------|-----------------|--------------------|
| 19 mm              | 1 - 1,2 - 1,5 mm     | AISI 300 Series SS<br>AISI 400 Series SS | 1/4 inc.        | AISI 410           |
| 22,2 mm            | 1 - 1,2 - 1,5 - 2 mm |                                          | 1/4 - 5/16 inc. | AISI 304 Steel 8.8 |
| 25 - 25,4 mm       | 1,2 - 1,5 - 2 mm     |                                          | 5/16 inc.       | (Geomet Plated)    |
| 31,8 - 32 mm       | 1,5 - 2 mm           |                                          | 3/8 inc.        |                    |

## APPLICATION RANGE

**Invictaindia** profile clamps are quick-release connecting elements for all flange and cover joints. They also present an economical alternative to conventional bolted flange joints.

are therefore the ideal clamps for containers as used in water treatment, filter construction, inlet and exhaust systems as well as for connecting suction and hydraulic lines or supply line systems in climatic, coolant or lubricant applications.

**Invictaindia** offers the best solution for any application.



## PRODUCT • ADVANTAGES

The comprehensive range of profile clamps offers you

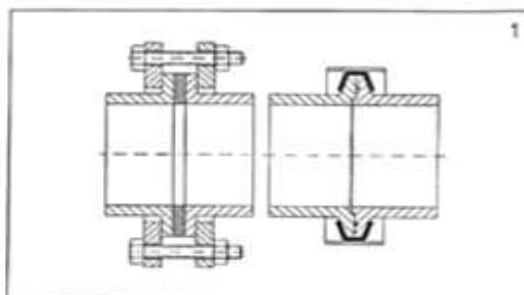
- 39 different profiles
- 3 bandwidths
- 4 closure types
- single-part and two-part clamp design
- 2 materials

In addition, the single-part clamps are available in either 2 or 3 segmented design. While the 2-segment clamp is higher in strength, the 3-segment clamp is recommended if maximum flexibility of the clamp is the key requirement.

The tables on the inside give an overview of the standard range. All profile clamp designs highlighted in blue are quickly available.

All **Invictaindia** profile clamps offer a variety of benefits, such as

- **Easy handling**  
Profile clamps are easy to handle and can be assembled with conventional tooling.
- **Time effective assembly**  
Due to its handling properties and its quick-release feature, profile clamps are quickly assembled. With the single-part design, only one bolt has to be tightened to produce a secure joint.



- **Compact design** (see fig. 1)  
As the clamp requires only minimal space in contrast to conventional flanges, it can also be used in critical fitting situations.
- **Light weight**  
In comparison to flanges, profile clamps are extremely light-weight. This helps to reduce the total weight of complex systems to a considerable extent.

## MATERIALS

profile clamps are available in 2 material qualities:

| Code | Closure                | Profile segments/<br>clampband |
|------|------------------------|--------------------------------|
| W2   | zinc plated mild steel | 1.4301                         |
| W4   | 1.4301                 |                                |

Material cross reference table

| DIN    | AISI/AS | BS       | AFNOR       |
|--------|---------|----------|-------------|
| 1.4301 | 304     | 304 S 31 | Z6 CN 18-09 |

## CLOSURE TYPES

STC



The STC closure type with its practical socket head cap screw is a modification of the common TBS type.

QRC



The QRC closure type can be opened very quickly and conveniently; at the same time, it eliminates the risk of accidental opening.

TBS



The TBS closure type is fitted with a strong T-bolt. This closure has been developed for high pressure tapered flange applications.

Note: Available only for existing business and not for new design concepts.

SVS



SVS is an elbow lever-type closure, which can be opened and closed without tooling. It is recommended for applications which require frequent release of the joint, e.g. in filter constructions.

## THE WHOLE RANGE AT A GLANCE

|                           | STC                                                                                 | QRC                                                                                 | TBS*                                                                                 | SVS                                                                                   |
|---------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Single-part<br>2 segments |  |  |  |  |
| Single-part<br>3 segments |  |  |  |  |
| Two-part<br>2 segments    |  | not part of the<br>standard range                                                   |  |  |

\* Available only for existing business and not for new design concepts.

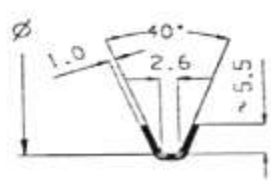
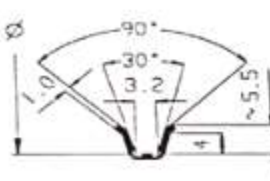
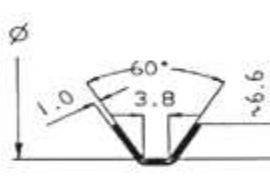
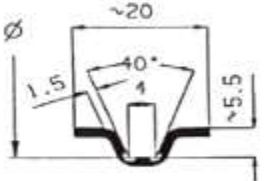
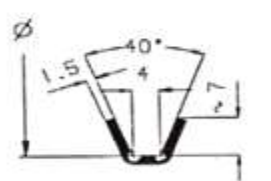
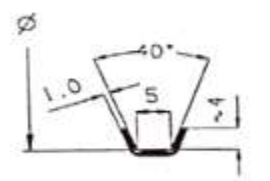
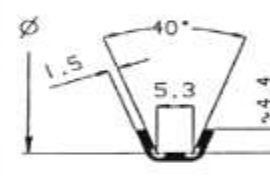
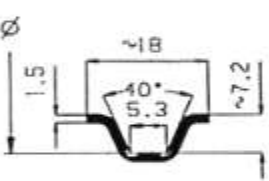
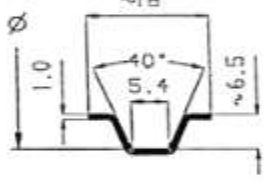
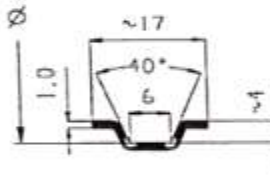
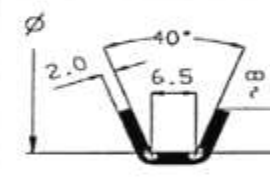
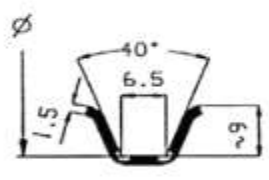
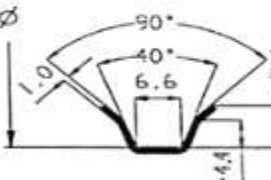
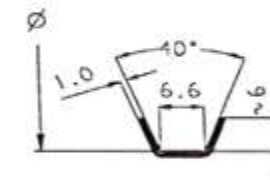
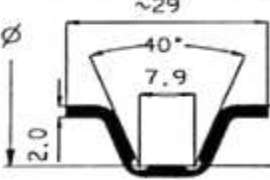
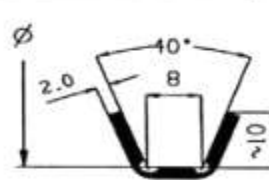
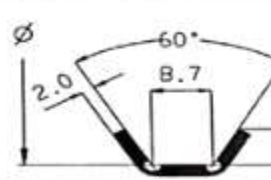
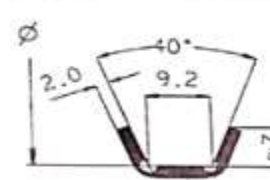
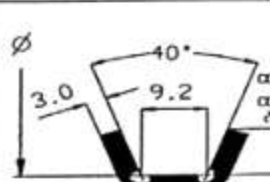
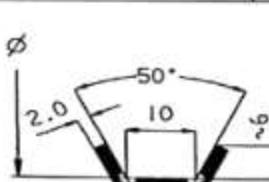
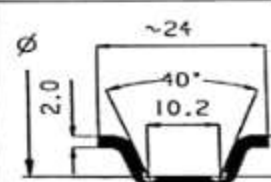
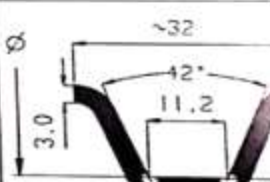
### ALL PROFILES AT A GLANCE

Pages 4 and 9 show all 39 profiles of the Invicta India V-Clamp standard range. The respective inner profile diameter can be freely chosen in millimeter steps with consideration to the limits of minimum and maximum diameter.

For any special application, please ask for further profile types in our Invicta India V-clamp special range or special pressed profiles.

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|                                                                                     |    |                                                                                     |    |                                                                                      |                                                                                     |                                                                                       |    |
|-------------------------------------------------------------------------------------|----|-------------------------------------------------------------------------------------|----|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----|
|                                                                                     |    | 2,6a                                                                                |    | 01                                                                                   | 3,2a                                                                                |                                                                                       | 02 |
|                                                                                     |    |   |    |                                                                                      |  |                                                                                       |    |
| 3,8a                                                                                | 03 | 4,0a                                                                                | 04 | 4,0b                                                                                 | 05                                                                                  | 5,0a                                                                                  | 06 |
|    |    |    |    |    |                                                                                     |    |    |
| 5,3a                                                                                | 07 | 5,3b                                                                                | 08 | 5,4a                                                                                 | 09                                                                                  | 6,0a                                                                                  | 10 |
|   |    |   |    |   |                                                                                     |   |    |
| 6,5a                                                                                | 11 | 6,5b                                                                                | 12 | 6,6a                                                                                 | 13                                                                                  | 6,6b                                                                                  | 14 |
|  |    |  |    |  |                                                                                     |  |    |
| 7,9b                                                                                | 15 | 8,0a                                                                                | 16 | 8,7a                                                                                 | 17                                                                                  | 9,2a                                                                                  | 18 |
|  |    |  |    |  |                                                                                     |  |    |
| 9,2b                                                                                | 19 | 10,0a                                                                               | 20 | 10,2a                                                                                | 21                                                                                  | 11,2a                                                                                 | 22 |
|  |    |  |    |  |                                                                                     |  |    |

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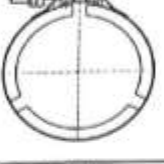
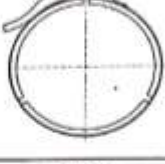
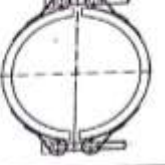
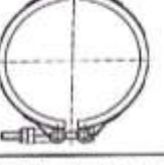
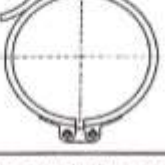
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## THE WHOLE RANGE AT A GLANCE

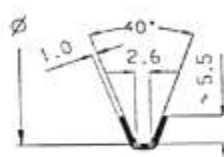
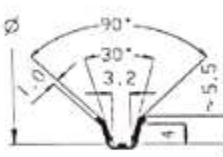
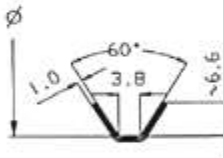
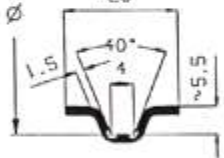
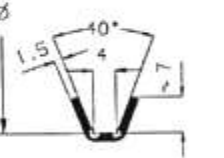
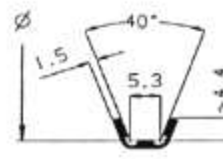
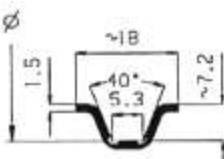
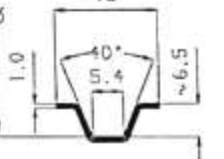
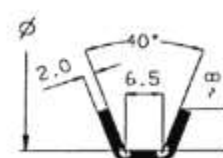
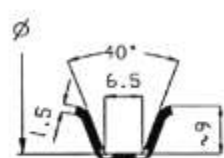
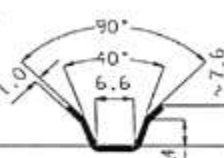
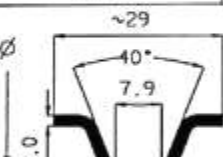
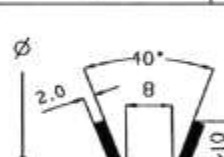
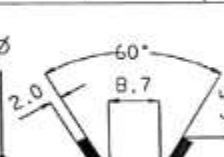
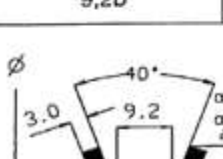
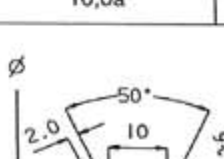
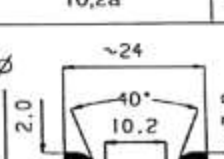
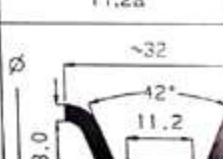
|                                  | STC                                                                                 | QRC                                                                                 | TBS*                                                                                 | SVS                                                                                   |
|----------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>Single-part</b><br>2 segments |  |  |  |  |
| <b>Single-part</b><br>3 segments |  |  |  |  |
| <b>Two-part</b><br>2 segments    |  | not part of the standard range                                                      |  |  |

\* Available only for existing business and not for new design concepts.

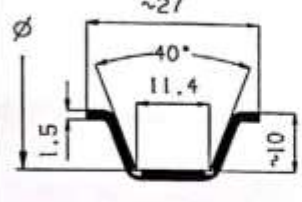
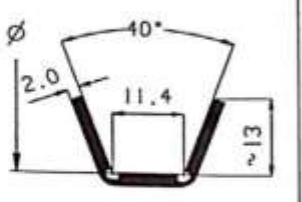
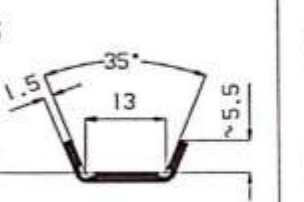
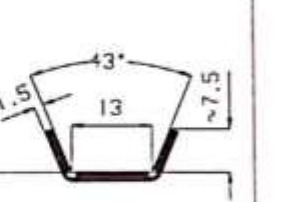
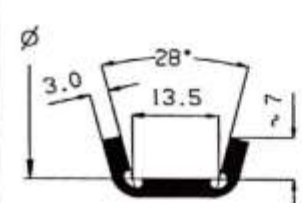
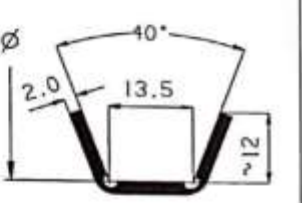
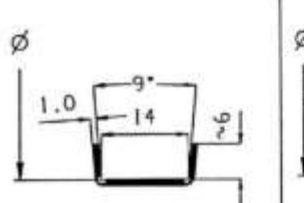
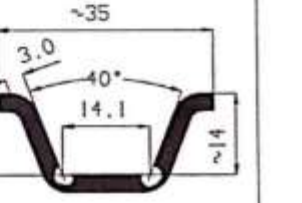
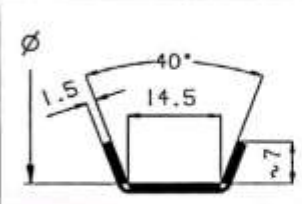
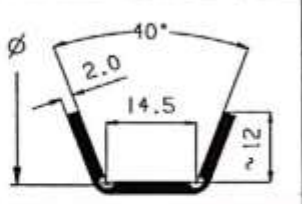
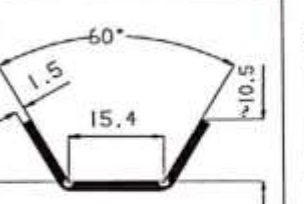
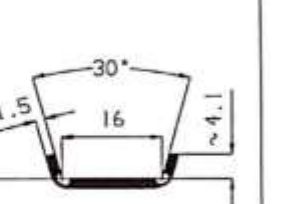
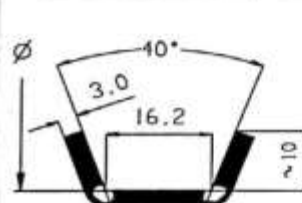
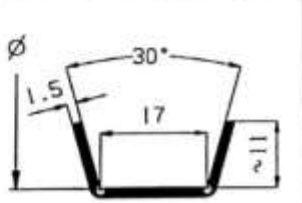
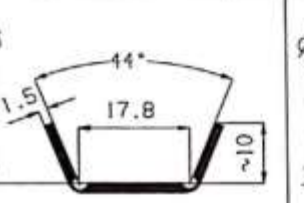
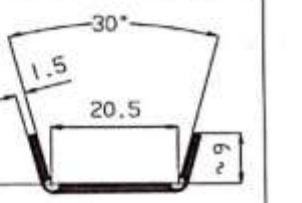
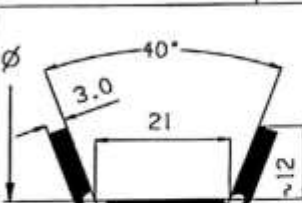
### ALL PROFILES AT A GLANCE

Pages 4 and 9 show all 39 profiles of the Invicta India V-Clamp standard range. The respective inner profile diameter can be freely chosen in millimeter steps with consideration to the limits of minimum and maximum diameter.

For any special application, please ask for further profile types in our Invicta India V-clamp special range or special pressed profiles.

|                                                                                     |    |                                                                                     |                                                                                     |                                                                                       |    |
|-------------------------------------------------------------------------------------|----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----|
| 2,6a                                                                                |    | 01                                                                                  | 3,2a                                                                                |                                                                                       | 02 |
|   |    |                                                                                     |  |                                                                                       |    |
| 3,8a                                                                                | 03 | 4,0a                                                                                | 04                                                                                  | 4,0b                                                                                  | 05 |
|    |    |    |                                                                                     |     |    |
| 5,3a                                                                                | 07 | 5,3b                                                                                | 08                                                                                  | 5,4a                                                                                  | 09 |
|  |    |  |                                                                                     |   |    |
| 6,5a                                                                                | 11 | 6,5b                                                                                | 12                                                                                  | 6,6a                                                                                  | 13 |
|  |    |  |                                                                                     |   |    |
| 7,9b                                                                                | 15 | 8,0a                                                                                | 16                                                                                  | 8,7a                                                                                  | 17 |
|  |    |  |                                                                                     |   |    |
| 9,2b                                                                                | 19 | 10,0a                                                                               | 20                                                                                  | 10,2a                                                                                 | 21 |
|  |    |  |                                                                                     |   |    |
|                                                                                     |    |                                                                                     |                                                                                     | 11,2a                                                                                 | 22 |
|                                                                                     |    |                                                                                     |                                                                                     |  |    |

**ALL PROFILES AT A GLANCE**

|                                                                                     |    |                                                                                     |    |                                                                                      |    |                                                                                       |    |
|-------------------------------------------------------------------------------------|----|-------------------------------------------------------------------------------------|----|--------------------------------------------------------------------------------------|----|---------------------------------------------------------------------------------------|----|
| 11,4a                                                                               | 23 | 11,4b                                                                               | 24 | 13,0a                                                                                | 25 | 13,0b                                                                                 | 26 |
|    |    |    |    |    |    |    |    |
| 13,5a                                                                               | 27 | 13,5b                                                                               | 28 | 14,0a                                                                                | 29 | 14,1a                                                                                 | 30 |
|    |    |    |    |    |    |    |    |
| 14,5a                                                                               | 31 | 14,5b                                                                               | 32 | 15,4a                                                                                | 33 | 16,0a                                                                                 | 34 |
|   |    |   |    |   |    |   |    |
| 16,2a                                                                               | 35 | 17,0a                                                                               | 36 | 17,8a                                                                                | 37 | 20,5a                                                                                 | 38 |
|  |    |  |    |  |    |  |    |
| 21,0a                                                                               | 39 |  |    |                                                                                      |    |                                                                                       |    |
|  |    |                                                                                     |    |                                                                                      |    |                                                                                       |    |

 = with STC and QRC closures these profiles have a reduced lead time

## **CONTACT INFORMATION**

Invicta India Pvt. Ltd.  
N-258/B GK-1  
New Delhi  
India

REX Consolidated  
80 DLF Industrial Area Phase I  
Faridabad Haryana-121003  
India

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For enquiries, please email us : [rahul@invictaindia.com](mailto:rahul@invictaindia.com)