

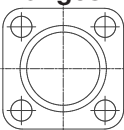
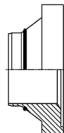
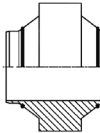
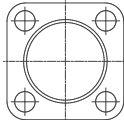
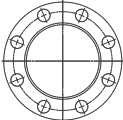
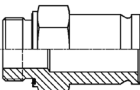
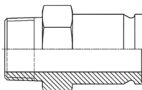
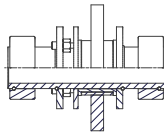
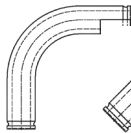
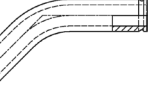
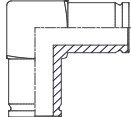
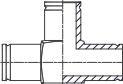
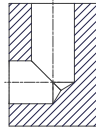
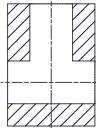
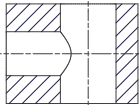
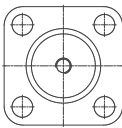
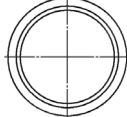
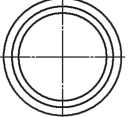
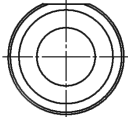
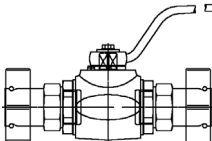
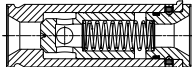


## **ISO 6164 System**

250 – 400 bar

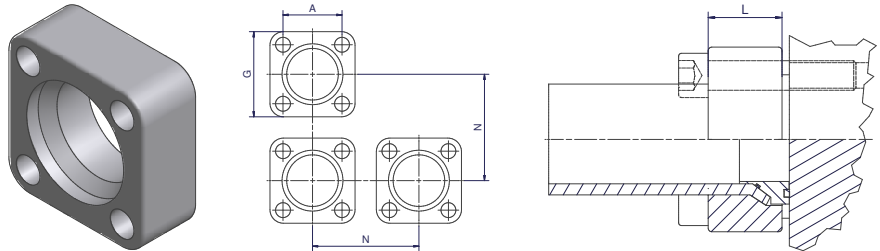
ENGINEERING YOUR SUCCESS.

# Programme overview ISO 6164 footprint

|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                                                         |                                                                                                                           |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Parflange® F37<br>connection parts | <b>Flanges</b><br><br><b>F37</b> – p.153/154                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                                                         |                                                                                                                           |
|                                    | <b>Inserts</b><br><br><b>TFB</b> – p.157<br><br><b>TFV</b> – p.158<br><br><b>TT</b> – p.159<br><br><b>TF</b> – p.160                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                                                         | <b>Sleeve</b><br><br><b>SL</b> – p.161 |
| Retaining ring<br>connection parts | <b>Flanges</b><br><br><b>R</b> – p.155<br><br><b>R</b> – p.155<br><br><b>R-Ring</b> – p.162<br><br><b>PSC</b> – p.156                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                                                         |                                                                                                                           |
|                                    | <b>Male / Female</b><br><br><b>MTF-R</b> – p.163<br><br><b>MTF-N</b> – p.164<br><br><b>FTF-R</b> – p.165                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | <b>Weld</b><br><br><b>WA</b> – p.166 |                                                                                                                           |
|                                    | <b>Tube to Tube</b><br><br><b>BF</b> – p.167<br><br><b>VB</b> – p.168<br><br><b>RF</b> – p.169<br><br><b>FB90</b> – p.170<br><br><b>FB45</b> – p.171<br><br><b>LF</b> – p.172<br><br><b>TF</b> – p.173 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                                                         |                                                                                                                           |
| SAE<br>connection parts            | <b>Blocks</b><br><br><b>LB</b> – p.174<br><br><b>TB</b> – p.175<br><br><b>TBR</b> – p.176<br><br><b>BFV</b> – p.177                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                                                         |                                                                                                                           |
|                                    | Seals<br>Adapter<br>Bolts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Components</b><br><br><b>BS</b> – p.178<br><br><b>F37S</b> – p.178<br><br><b>AO</b> – p.179<br><br><b>TBT</b> – p.180 |  |                                                                                                                         |                                                                                                                           |
| Ball valves                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <br><b>KH</b> – p.182/183<br><br><b>KH-R</b> – p.184<br><br><b>RHD-R</b> – p.185                                                                                                                           |  |                                                                                                                         |                                                                                                                           |

## F37 – Flare flange | ISO 6164 footprint

ISO 6164



Parflange F37 flange dimensions

| Size Inch | Flange<br>Order code  | A     | G   | N   | L  | Weight<br>(Steel)<br>kg/1 piece | W.P.<br>bar |
|-----------|-----------------------|-------|-----|-----|----|---------------------------------|-------------|
| 2         | <b>F37-432-CFX</b>    | 69.3  | 100 | 105 | 40 | 1.80                            | 400         |
| 2 1/2     | <b>F37-440-CFX</b>    | 83.4  | 120 | 125 | 50 | 3.00                            |             |
| 2 1/2     | <b>F37-44073-CF*</b>  | 83.4  | 120 | 125 | 50 | 3.10                            |             |
| 3         | <b>F37-448-CFX</b>    | 102.5 | 150 | 155 | 52 | 5.40                            |             |
| 3         | <b>F37-448909-CF*</b> | 102.5 | 150 | 155 | 52 | 5.29                            |             |

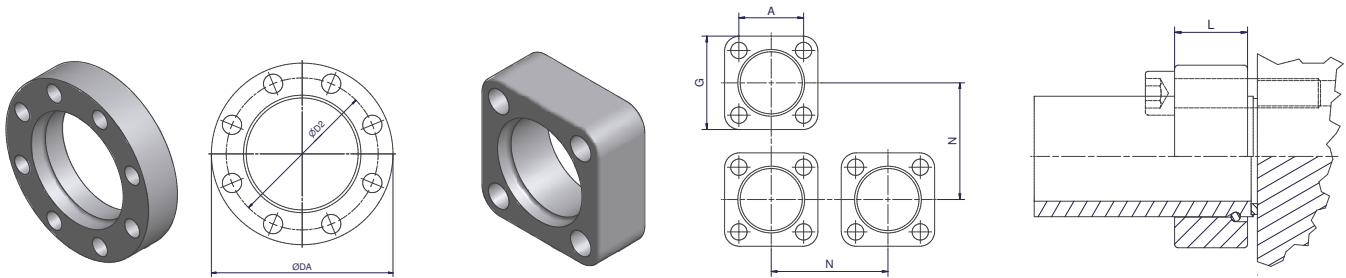
\* Heavy series (with lockring)

Please change suffixes according to material/surface required

| Order code suffixes             |                                |              |            |
|---------------------------------|--------------------------------|--------------|------------|
| Material                        | Suffix surface<br>and material | Example      | Comments   |
| Steel, zinc plated, Cr(VI)-free | CF                             | F37-432-CFX  |            |
| Stainless steel                 | SS                             | F37-432-SSX  |            |
| Galvanized hot dip zinc         | TZN                            | F37-432-TZNX | on request |

## R – Retaining ring flange | ISO 6164 footprint

ISO 6164



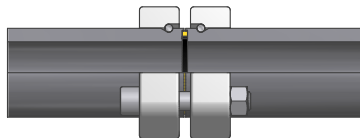
### Retaining ring flange dimensions

| Size<br>Inch | Flange<br>Order Code | A     | G   | N   | L  | Weight<br>body (Steel)<br>kg/1 piece | W.P.<br>bar |
|--------------|----------------------|-------|-----|-----|----|--------------------------------------|-------------|
| 2            | <b>R-432-CFX</b>     | 69.3  | 100 | 105 | 40 | 1.60                                 | 400         |
| 2 1/2        | <b>R-440-CFX</b>     | 83.4  | 120 | 125 | 50 | 2.90                                 |             |
| 3            | <b>R-448-CFX</b>     | 102.5 | 150 | 155 | 52 | 5.00                                 |             |
| 4            | <b>R-464-CFX</b>     | 123.7 | 180 | 185 | 70 | 9.70                                 |             |
|              |                      | D2    | DA  |     |    |                                      |             |
| 4 1/2        | <b>R-872-CFX</b>     | 175.0 | 214 |     | 60 | 8.97                                 | 350         |
| 5            | <b>R-880-CFX</b>     | 205.0 | 245 |     | 70 | 13.44                                | 350         |
| 6            | <b>R-896-CFX</b>     | 245.0 | 300 |     | 80 | 21.22                                | 350         |
| 8            | <b>R-8128-CFX</b>    | 315.0 | 385 |     | 92 | 39.27                                | 250         |
| 10           | <b>R-8160273-CFX</b> | 375.0 | 450 |     | 90 | 59.31                                | 250         |

Schedule sizes on request.

Please change suffixes according to material/surface required

| Order code suffixes             |                                |            |
|---------------------------------|--------------------------------|------------|
| Material                        | Suffix surface<br>and material | Example    |
| Steel, zinc plated, Cr(VI)-free | CF                             | R-432-CFX  |
| Stainless steel                 | SS                             | R-432-SSX  |
| Galvanized hot dip zinc         | TZN                            | R-432-TZNX |

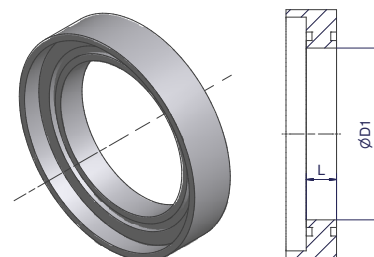


### Part combination Bonded seal ISO 6164 connection

| Flange pressure<br>(bar) | Size<br>Inch | Pipe Size | Flange    | Retaining<br>Ring | Bonded Seal |
|--------------------------|--------------|-----------|-----------|-------------------|-------------|
| 400                      | 2            | 66X8.5    | R-432-CFX | R32X              | BS32SNX     |
|                          | 2 1/2        | 80X10.0   | R-440-CFX | R40X              | BS40SNX     |
|                          | 3            | 97X12.0   | R-448-CFX | R48X              | BS48SNX     |
|                          | 4            | 115X15.0  | R-464-CFX | R64X              | BS64SNX     |
| 350                      | 4 1/2        | 130X15.0  | R-872-CFX | R72X              | BS72SNX     |
|                          | 5            | 150X15.0  | R-880-CFX | R80X              | BS80SNX     |

## PSC – Pipe seal carrier | ISO 6164 footprint

ISO 6164

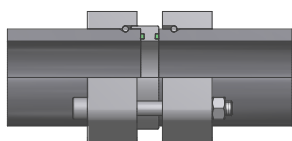


| Size<br>Inch | Pipe size | Seal carrier incl. F37 Seal | Seal carrier incl. O-Ring | L    | D1  | F37 Seal   | O-Ring         |
|--------------|-----------|-----------------------------|---------------------------|------|-----|------------|----------------|
| 2            | 66X8.5    | PSC32-66X8.5VCF             | PSC32-66X8.5OCF           | 10.0 | 49  | F37RS32X   | OR55.25X2.62X  |
| 2 1/2        | 80X10.0   | PSC40-80X10VCF              | PSC40-80X10OCF            | 15.0 | 60  | F37RS40X   | OR66.27X3.53X  |
| 3            | 97X12.0   | PSC48-97X12VCF              | PSC48-97X12OCF            | 15.0 | 73  | F37RS48X   | OR78.97X3.53X  |
| 4            | 115X15.0  | PSC64-115X15VCF             | PSC64-115X15OCF           | 15.0 | 85  | F37RS64X   | OR94.84X3.53X  |
| 4 1/2        | 130X15.0  | PSC72-130X15VCF             | PSC72-130X15OCF           | 25.5 | 100 | F37RS72X   | OR107.54X3.53X |
| 5            | 150X15.0  | PSC80-150X15VCF             | PSC80-150X15OCF           | 38.0 | 120 | F37RS80X   | OR129.77X3.53X |
| 6            | 190X20.0  | PSC96-190X20VCF             | PSC96-190X20OCF           | 40.0 | 150 | on request | OR158.12X5.33X |
| 8            | 250X25.0  | PSC128-250X25VCF            | PSC128-250X25OCF          | 40.0 | 200 | F37RS128X  | OR215.27X5.33X |
| 10           | 273X25.4  | PSC160-273X25.4VCF          | PSC160-273X25.4OCF        | 40.0 | 222 | on request | OR234.34X5.33X |

Other sizes on request

Please change suffixes according to material/surface required

| Order code suffixes                           |                             |                |
|-----------------------------------------------|-----------------------------|----------------|
| Material                                      | Suffix surface and material | Example        |
| Steel, zinc plated, Cr(VI)-free, F37-Seal     | VCF                         | PSC40-80X10VCF |
| Stainless steel, F37-Seal                     | VSS                         | PSC40-80X10VSS |
| Steel, zinc plated, Cr(VI)-free, O-Ring (NBR) | OCF                         | PSC40-80X10OCF |
| Stainless steel, O-Ring (NBR)                 | OSS                         | PSC40-80X10OSS |



### Example of part combination Pipe seal carrier ISO 6164 connection

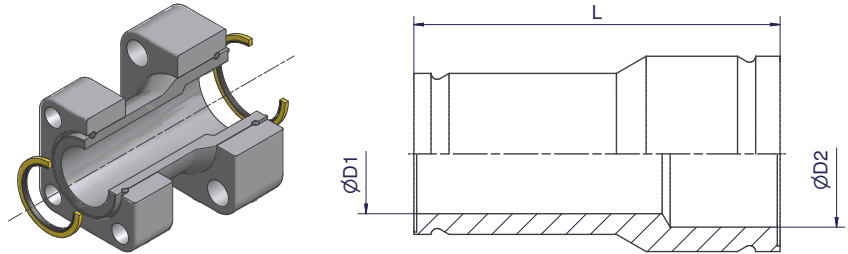
| Flange pressure (bar) | Size Inch | Pipe Size | Flange        | Retaining Ring | Pipe seal carrier  |
|-----------------------|-----------|-----------|---------------|----------------|--------------------|
| 400                   | 2         | 66X8.5    | R-432-CFX     | R32X           | PSC32-66X8.5VCF    |
|                       | 2 1/2     | 80X10.0   | R-440-CFX     | R40X           | PSC40-80X10VCF     |
|                       | 3         | 97X12.0   | R-448-CFX     | R48X           | PSC48-97X12VCF     |
|                       | 4         | 115X15.0  | R-464-CFX     | R64X           | PSC64-115X15VCF    |
| 350                   | 4 1/2     | 130X15.0  | R-872-CFX     | R72X           | PSC72-130X15VCF    |
|                       | 5         | 150X15.0  | R-880-CFX     | R80X           | PSC80-150X15VCF    |
|                       | 6         | 190X20.0  | R-896-CFX     | R96X           | PSC96-190X20VCF    |
| 250                   | 8         | 250X25.0  | R-8128-CFX    | R128X          | PSC128-250X25VCF   |
|                       | 10        | 273X25.4  | R-8160273-CFX | R160X          | PSC160-273X25.4VCF |

Other sizes on request

For recommended bolts and nuts see page 181.

## RF – Reducer flange

ISO 6164



| Size<br>Inch | Complete Part<br>Order code | Reducer Body<br>Order code | D1  | D2  | L   | Weight<br>body (Steel)<br>kg/1 piece |
|--------------|-----------------------------|----------------------------|-----|-----|-----|--------------------------------------|
| 2 1/2 - 2    | <b>R-440-432RFCF</b>        | <b>RF40-32CFX</b>          | 49  | 60  | 150 | 2.2                                  |
| 3 - 2        | <b>R-448-432RFCF</b>        | <b>RF48-32CFX</b>          | 49  | 73  | 180 | 3.4                                  |
| 3 - 2 1/2    | <b>R-448-440RFCF</b>        | <b>RF48-40CFX</b>          | 60  | 73  | 180 | 3.7                                  |
| 4 - 3        | <b>R-464-448RFCF</b>        | <b>RF64-48CFX</b>          | 73  | 85  | 200 | 6.1                                  |
| 5 - 3        | <b>R-880-448RFCF</b>        | <b>RF80-48CFX</b>          | 73  | 120 | 200 | 8.0                                  |
| 5 - 4        | <b>R-880-464RFCF</b>        | <b>RF80-64CFX</b>          | 85  | 120 | 220 | 10.3                                 |
| 6 - 5        | <b>R-896-880RFCF</b>        | <b>RF96-80CFX</b>          | 120 | 150 | 250 | 18.3                                 |

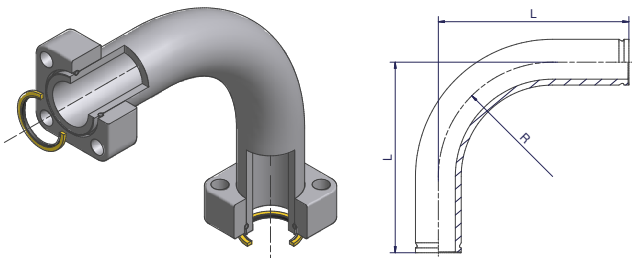
Other sizes on request

Please change suffixes according to material/surface required

| Order code suffixes             |                                |               |
|---------------------------------|--------------------------------|---------------|
| Material                        | Suffix surface<br>and material | Example       |
| Steel, zinc plated, Cr(VI)-free | CF                             | R-432-424RFCF |
| Stainless steel                 | SS                             | R-432-424RFSS |

FB90 – 90° Flange bend

ISO 6164



| Size<br>Inch | Tube    | Complete Part<br>Order code | 90° Flange Bend<br>Order code | L   | R   | Weight<br>body (Steel)<br>kg/1 piece |
|--------------|---------|-----------------------------|-------------------------------|-----|-----|--------------------------------------|
| 2            | 66X8.5  | R-432FB90S                  | FB90-32SX                     | 275 | 165 | 5.72                                 |
| 2 1/2        | 80X10.0 | R-440FB90S                  | FB90-40SX                     | 370 | 200 | 11.20                                |
| 3            | 97X12.0 | R-448FB90S                  | FB90-48SX                     | 450 | 243 | 19.90                                |

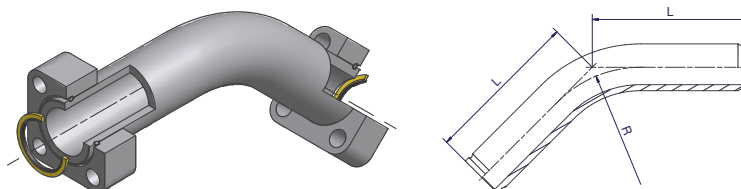
Please change suffixes according to material/surface required

| Order code suffixes             |                                |             |            |
|---------------------------------|--------------------------------|-------------|------------|
| Material                        | Suffix surface<br>and material | Example     | Comments   |
| Steel, zinc plated, Cr(VI)-free | S                              | R-432FB90S  |            |
| Stainless steel                 | SS                             | R-432FB90SS | on request |



**FB45 – 45° Flange bend**

ISO 6164



| Size<br>Inch | Tube    | Complete Part<br>Order code | 45° Flange Bend<br>Order code | L   | R   | Weight<br>body (Steel)<br>kg/1 piece |
|--------------|---------|-----------------------------|-------------------------------|-----|-----|--------------------------------------|
| 2            | 66X8.5  | <b>R-432FB45S</b>           | <b>FB45-32SX</b>              | 220 | 165 | 5.16                                 |
| 2 1/2        | 80X10.0 | <b>R-440FB45S</b>           | <b>FB45-40SX</b>              | 240 | 200 | 8.07                                 |
| 3            | 97X12.0 | <b>R-448FB45S</b>           | <b>FB45-48SX</b>              | 260 | 243 | 12.70                                |

Available on request

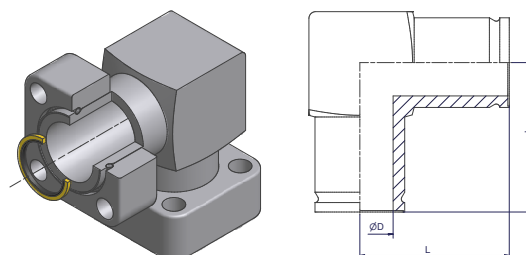
Please change suffixes according to material/surface required

| Order code suffixes             |                                |             |            |
|---------------------------------|--------------------------------|-------------|------------|
| Material                        | Suffix surface<br>and material | Example     | Comments   |
| Steel, zinc plated, Cr(VI)-free | S                              | R-432FB45S  |            |
| Stainless steel                 | SS                             | R-432FB45SS | on request |



## LF – Elbow flange

ISO 6164



| Size<br>Inch | Complete Part<br>Order code | Elbow Flange<br>body<br>Order code | D  | L   | Weight<br>body (Steel)<br>kg/1 piece |
|--------------|-----------------------------|------------------------------------|----|-----|--------------------------------------|
| 2            | <b>R-432LFCF</b>            | <b>LF32CFX</b>                     | 49 | 110 | 4.02                                 |
| 2 1/2        | <b>R-440LFCF</b>            | <b>LF40CFX</b>                     | 60 | 130 | 5.79                                 |
| 3            | <b>R-448LFCF</b>            | <b>LF48CFX</b>                     | 73 | 160 | 10.76                                |

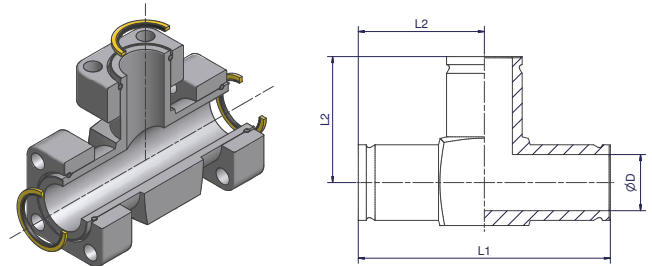
Please change suffixes according to material/surface required

| Order code suffixes             |                                |           |
|---------------------------------|--------------------------------|-----------|
| Material                        | Suffix surface<br>and material | Example   |
| Steel, zinc plated, Cr(VI)-free | CF                             | R-432LFCF |
| Stainless steel                 | SS                             | R-432LFSS |



## TF – TEE flange

ISO 6164



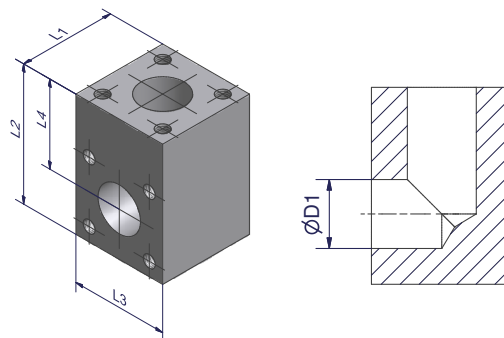
| Size<br>Inch | Complete Part<br>Order code | Tee Flange<br>body<br>Order code | D  | L1  | L2  | Weight<br>body (Steel)<br>kg/1 piece |
|--------------|-----------------------------|----------------------------------|----|-----|-----|--------------------------------------|
| 2            | <b>R-432TFCF</b>            | <b>TF32CFX</b>                   | 49 | 220 | 110 | 4.53                                 |
| 2 1/2        | <b>R-440TFCF</b>            | <b>TF40CFX</b>                   | 60 | 260 | 130 | 8.70                                 |
| 3            | <b>R-448TFCF</b>            | <b>TF48CFX</b>                   | 73 | 320 | 160 | 12.81                                |

Please change suffixes according to material/surface required

| Order code suffixes             |                                |           |
|---------------------------------|--------------------------------|-----------|
| Material                        | Suffix surface<br>and material | Example   |
| Steel, zinc plated, Cr(VI)-free | CF                             | R-432TFCF |
| Stainless steel                 | SS                             | R-432TFSS |

## LB – Flange L-block

ISO 6164



| Size<br>Inch | Order code      | D1  | L1  | L2  | L3  | L4  | Weight (Steel)<br>kg/1 piece |
|--------------|-----------------|-----|-----|-----|-----|-----|------------------------------|
| 2            | <b>LB432CFX</b> | 49  | 100 | 140 | 100 | 90  | 8.72                         |
| 2 1/2        | <b>LB440CFX</b> | 60  | 120 | 160 | 120 | 100 | 14.10                        |
| 3            | <b>LB448SX</b>  | 73  | 150 | 200 | 150 | 125 | 28.10                        |
| 4            | <b>LB464SX</b>  | 99  | 180 | 240 | 180 | 150 | 48.80                        |
| 5            | <b>LB880SX*</b> | 120 | 260 | 300 | 260 | 170 | 131.65                       |
| 6            | <b>LB896SX*</b> | 150 | 300 | 360 | 300 | 210 | 203.00                       |

Other sizes on request

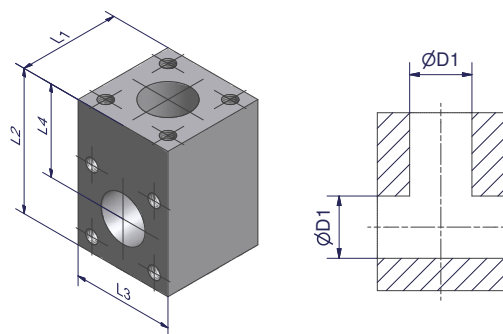
Please change suffixes according to material/surface required

| Order code suffixes             |                             |                                  |
|---------------------------------|-----------------------------|----------------------------------|
| Material                        | Suffix surface and material | Example                          |
| Steel, zinc plated, Cr(VI)-free | CF                          | LB432CFX<br>*not in CF available |
| Steel                           | S                           | LB432SX                          |
| Stainless steel                 | SS                          | LB432SSX                         |



## TB – Flange T-block

ISO 6164



| Size<br>Inch | Order code      | D1  | L1  | L2  | L3  | L4  | Weight (Steel)<br>kg/1 piece |
|--------------|-----------------|-----|-----|-----|-----|-----|------------------------------|
| 2            | <b>TB432CFX</b> | 49  | 100 | 140 | 100 | 90  | 8.03                         |
| 2 1/2        | <b>TB440CFX</b> | 60  | 120 | 160 | 120 | 100 | 12.90                        |
| 3            | <b>TB448SX</b>  | 73  | 150 | 200 | 150 | 125 | 25.80                        |
| 4            | <b>TB464SX</b>  | 85  | 180 | 240 | 180 | 150 | 40.70                        |
| 4 1/2        | <b>TB872SX</b>  | 100 | 220 | 250 | 220 | 140 | 74.00                        |
| 5            | <b>TB880SX*</b> | 120 | 260 | 300 | 260 | 170 | 122.00                       |
| 6            | <b>TB896SX*</b> | 150 | 300 | 360 | 300 | 210 | 186.00                       |

Other sizes on request

Please change suffixes according to material/surface required

| Order code suffixes             |                                   |                                  |
|---------------------------------|-----------------------------------|----------------------------------|
| Material                        | Suffix<br>surface<br>and material | Example                          |
| Steel, zinc plated, Cr(VI)-free | CF                                | TB432CFX<br>*not in CF available |
| Steel                           | S                                 | TB432SX                          |
| Stainless steel                 | SS                                | TB432SSX                         |