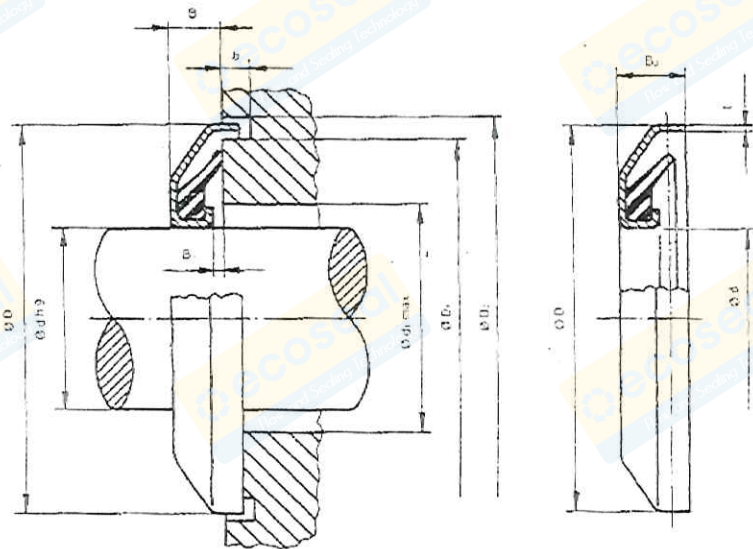




# ***GAMMA SEAL & V-SEAL***



## GAMMA-seal type 9RB



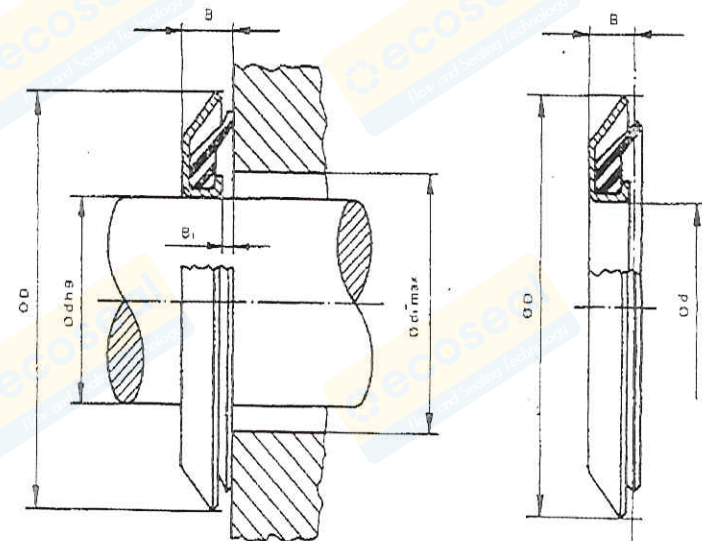
Installation dimensions and catalogue numbers

| $\varnothing d$ | $\varnothing D$ | B   | $B_1$ | $B_2$ | b | $\varnothing d_1$ | $\varnothing D_1$ | f    | Catalogue no.   |
|-----------------|-----------------|-----|-------|-------|---|-------------------|-------------------|------|-----------------|
| 15              | 32              | 4,0 | 1,0   | 6,0   | 3 | 21                | 29                | 0,5  | 9RB 15 32 04    |
| 17              | 34              | 4,0 | 1,0   | 6,0   | 3 | 23                | 31                | 0,5  | 9RB 17 34 04    |
| 23              | 37              | 4,0 | 1,0   | 6,0   | 3 | 25                | 34                | 0,5  | 9RB 20 37 04    |
| 25              | 42              | 4,0 | 1,0   | 6,0   | 3 | 31                | 39                | 0,5  | 9RB 25 42 04    |
| 30              | 48              | 4,5 | 1,0   | 6,5   | 3 | 37                | 45                | 0,5  | 9RB 30 48 045   |
| 35              | 53              | 4,5 | 1,0   | 6,5   | 3 | 42                | 50                | 0,5  | 9RB 35 53 045   |
| 40              | 58              | 4,5 | 1,0   | 6,5   | 3 | 47                | 55                | 0,5  | 9RB 40 58 045   |
| 45              | 63              | 4,5 | 1,0   | 6,5   | 3 | 52                | 60                | 0,5  | 9RB 45 63 045   |
| 50              | 72              | 5,5 | 1,0   | 7,5   | 3 | 56                | 68,5              | 0,75 | 9RB 50 72 055   |
| 55              | 77              | 5,5 | 1,0   | 7,5   | 3 | 63                | 73,5              | 0,75 | 9RB 55 77 055   |
| 60              | 82              | 5,5 | 1,0   | 7,5   | 3 | 68                | 78,5              | 0,75 | 9RB 60 82 055   |
| 65              | 87              | 5,5 | 1,0   | 7,5   | 3 | 73                | 83,5              | 0,75 | 9RB 65 87 055   |
| 70              | 92              | 5,5 | 1,0   | 7,5   | 3 | 78                | 88,5              | 0,75 | 9RB 70 92 055   |
| 80              | 102             | 5,5 | 1,0   | 7,5   | 3 | 88                | 98,5              | 0,75 | 9RB 80 102 055  |
| 85              | 107             | 5,5 | 1,0   | 7,5   | 3 | 93                | 103,5             | 0,75 | 9RB 85 107 055  |
| 90              | 112             | 5,5 | 1,0   | 7,5   | 3 | 98                | 108,5             | 0,75 | 9RB 90 112 055  |
| 95              | 117             | 5,5 | 1,0   | 7,5   | 3 | 103               | 113,5             | 0,75 | 9RB 95 117 055  |
| 100             | 122             | 5,5 | 1,0   | 7,5   | 3 | 108               | 118,5             | 0,75 | 9RB 100 122 055 |

Special designs are available and new sizes are added gradually. At present sizes with outer diameter up to 250 mm are manufactured. Consult us!

## GAMMA-seal type RB

STEF



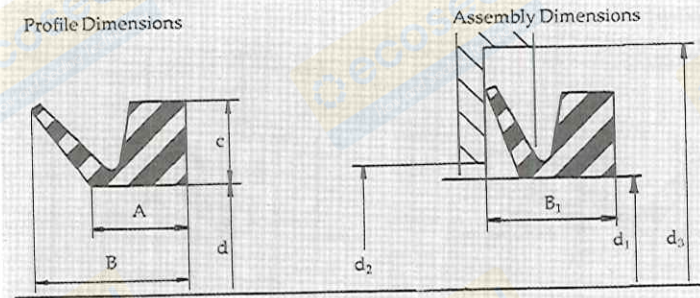
Installation dimensions and catalogue numbers

| $\varnothing d$ | $\varnothing D$ | B   | $B_1$ | $\varnothing d_1$ | Catalogue No. | $\varnothing d$ | $\varnothing D$ | B   | $B_1$ | $\varnothing d_1$ | Catalogue No. |
|-----------------|-----------------|-----|-------|-------------------|---------------|-----------------|-----------------|-----|-------|-------------------|---------------|
| 10              | 24              | 3,5 | 1,0   | 15                | RB 10         | 53              | 73              | 5,5 | 1,0   | 61                | RB 53         |
| 12              | 26              | 3,5 | 1,0   | 17                | RB 12         | 55              | 75              | 5,5 | 1,0   | 63                | RB 55         |
| 15              | 30              | 4,0 | 1,0   | 21                | RB 15         | 58              | 78              | 5,5 | 1,0   | 66                | RB 58         |
| 16              | 32              | 4,0 | 1,0   | 23                | RB 16         | 60              | 80              | 5,5 | 1,0   | 68                | RB 60         |
| 17              | 32              | 4,0 | 1,0   | 23                | RB 17         | 62              | 82              | 5,5 | 1,0   | 70                | RB 62         |
| 18              | 33              | 4,0 | 1,0   | 24                | RB 18         | 65              | 85              | 5,5 | 1,0   | 73                | RB 65         |
| 20              | 35              | 4,0 | 1,0   | 26                | RB 20         | 68              | 88              | 5,5 | 1,0   | 76                | RB 68         |
| 22              | 40              | 4,0 | 1,0   | 31                | RB 22         | 70              | 90              | 5,5 | 1,0   | 78                | RB 70         |
| 24              | 40              | 4,0 | 1,0   | 31                | RB 24         | 72              | 92              | 5,5 | 1,0   | 80                | RB 72         |
| 25              | 40              | 4,0 | 1,0   | 31                | RB 25         | 75              | 95              | 5,5 | 1,0   | 83                | RB 75         |
| 28              | 40              | 4,0 | 1,0   | 31                | RB 26         | 78              | 98              | 5,5 | 1,0   | 86                | RB 78         |
| 28              | 43              | 4,0 | 1,0   | 34                | RB 28         | 80              | 100             | 5,5 | 1,0   | 88                | RB 80         |
| 30              | 47              | 4,5 | 1,0   | 37                | RB 30         | 85              | 105             | 5,5 | 1,0   | 93                | RB 85         |
| 32              | 49              | 4,5 | 1,0   | 39                | RB 32         | 90              | 110             | 5,5 | 1,0   | 98                | RB 90         |
| 35              | 52              | 4,5 | 1,0   | 42                | RB 35         | 95              | 115             | 5,5 | 1,0   | 103               | RB 95         |
| 40              | 57              | 4,5 | 1,0   | 47                | RB 40         | 100             | 120             | 5,5 | 1,0   | 108               | RB 100        |
| 45              | 62              | 4,5 | 1,0   | 52                | RB 45         | 105             | 125             | 5,5 | 1,0   | 113               | RB 105        |
| 48              | 65              | 4,5 | 1,0   | 55                | RB 48         | 125             | 148             | 6,5 | 1,0   | 133               | RB 125        |
| 50              | 70              | 5,5 | 1,0   | 58                | RB 50         | 135             | 159             | 6,5 | 1,0   | 145               | RB 135        |
| 52              | 72              | 5,5 | 1,0   | 60                | RB 52         |                 |                 |     |       |                   |               |

| TYPE        | d*D*H           | SUB_NO   | TYPE | d*D*H      | SOG_NO  |
|-------------|-----------------|----------|------|------------|---------|
| 9RB 100/122 | 100*122*5.5     | NK8C00SY | RB   | 14*30*3    | 660058N |
| 9RB 100/122 | 100*122*5.5/7.5 | NK8C00SY | RB   | 15*30*3    | 660012N |
| 9RB 110     | 110*132*5.5/7.5 | NK8C00SY | RB   | 15*30*3    | 660012V |
| 9RB 140/178 | 140*178*7.5     | NK8C00SY | RB   | 16*32*3    | 660030N |
| 9RB 15/32   | 15*32*4         | NK8C00SY | RB   | 17*32*3    | 660013N |
| 9RB 17/34   | 17*34*4         | NK8C00SY | RB   | 18*33*4    | 660069N |
| 9RB 20/37   | 20*37*4/6       | NK8C00SY | RB   | 20*35*3    | 660006N |
| 9RB 25/42   | 25*42*4         | NK8C00SY | RB   | 22*40*3    | 660019N |
| 9RB 25/42   | 25*42*4         | VN8C00SY | RB   | 24*40*3    | 660044N |
| 9RB 28.6/48 | 28.56*48*6.5    | NK9C00SY | RB   | 24*40*3    | 660044N |
| 9RB 30/48   | 30*48*4.5       | NK8C00SY | RB   | 25*40*3    | 660015N |
| 9RB 30/48   | 30*48*4.5       | VN8C00SY | RB   | 26*40*4    | 660072N |
| 9RB 35/51.5 | 35*51.5*4.5/6.5 | NK9C00SY | RB   | 28*43*3    | 660034N |
| 9RB 35/53   | 35*53*4.5       | NK8C00SY | RB   | 30*47*3.5  | 660001N |
| 9RB 35/53   | 35*53*4.5       | VN8C00SY | RB   | 32*49*3.5  | 660027N |
| 9RB 40/58   | 40*58*4.5       | NK8C00SY | RB   | 35*52*3.5  | 660014N |
| 9RB 40/58   | 40*58*4.5       | VN8C00SY | RB   | 38*55*3.5  | 660029N |
| 9RB 40/74   | 40*74*10        | NK9C00SY | RB   | 40*57*3.5  | 660002N |
| 9RB 45/70   | 45*70*4.5/6.5   | NK9C00SY | RB   | 40*57*3.5  | 660002V |
| 9RB 50/72   | 50*72*5.5       | NK8C00SY | RB   | 45*62*3.5  | 660007N |
| 9RB 50/72   | 50*72*5.5       | VN8C00SY | RB   | 45*62*3.5  | 660007V |
| 9RB 50/80   | 50*80*7.5       | NK9C00SY | RB   | 48*65*3.5  | 660038N |
| 9RB 55/75   | 55*75*5.5       | NK8C00SY | RB   | 50*70*4.5  | 660003N |
| 9RB 55/77   | 55*77*5.5/7.5   | NK8C00SY | RB   | 50*70*4.5  | 660003V |
| 9RB 60/82   | 60*82*5.5/7.5   | NK8C00SY | RB   | 52*72*4.5  | 660028N |
| 9RB 60/82   | 60*82*5.5/7.5   | VN8C00SY | RB   | 55*75*4.5  | 660018N |
| 9RB 60/88   | 60*88*5/7       | NK9C00SY | RB   | 55*75*4.5  | 660018V |
| 9RB 70/92   | 70*92*7.5       | NK8C00SY | RB   | 58*78*4.5  | 660049N |
| 9RB 70/92   | 70*92*7.5       | VN8C00SY | RB   | 60*80*4.5  | 660004N |
| 9RB 75/97   | 75*97*5.5/7.5   | NK8C00SY | RB   | 60*80*4.5  | 660004V |
| 9RB 80/102  | 80*102*5.5/7.5  | NK8C00SY | RB   | 62*82*4.5  | 660067N |
| 9RB 80/102  | 80*102*5.5/7.5  | VN8C00SY | RB   | 65*85*4.5  | 660026N |
| 9RB 85/107  | 85*107*5.5/7.5  | NK9C00SY | RB   | 65*85*4.5  | 660026V |
| 9RB 90/112  | 90*112*5.5      | NK8C00SY | RB   | 70*90*4.5  | 660010N |
| 9RB 90/112  | 90*112*5.5      | VN8C00SY | RB   | 70*90*4.5  | 660010V |
| 9RB 95/117  | 95*117*5.5/7.5  | NK8C00SY | RB   | 72*92*4.5  | 660046N |
|             |                 |          | RB   | 75*95*4.5  | 660005N |
| TYPE        | d*D*H           | SOG_NO   | RB   | 75*95*4.5  | 660005V |
| RB          | 10*24*2.5       | 660064N  | RB   | 78*98*4.5  | 660060N |
| RB          | 100*120*4.5     | 660008N  | RB   | 80*100*5.5 | 660009N |
| RB          | 100*120*4.5     | 660008V  | RB   | 85*105*4.5 | 660068N |
| RB          | 105*125*5.5     | 660051N  | RB   | 90*110*4.5 | 660011N |
| RB          | 12*26*2.5       | 660039N  |      |            |         |
| RB          | 120*143*5.5     | 660053N  |      |            |         |

## DIMENSION CHARTS

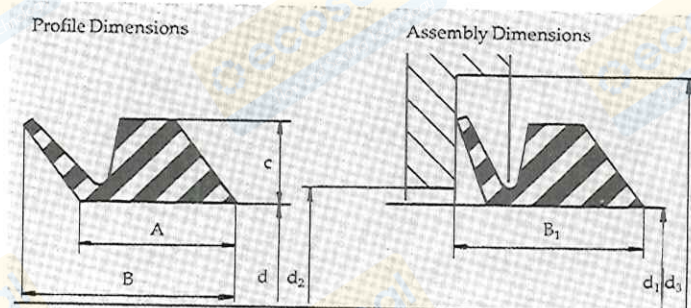
### V-RING A



Select the larger V-ring when the dimension  $d_1$  is on the boundary between two sizes of V-ring. All dimensions in mm.

| V-ring designation | Shaft diameter $d_1$ | Inside diameter $d_2$ | Height of cross-section $c$ | Dimension A | Free width B | Maximum $d_1$ | Minimum $d_1$ | Fitted width $B_1$ |
|--------------------|----------------------|-----------------------|-----------------------------|-------------|--------------|---------------|---------------|--------------------|
| V-3A               | 2.7- 3.5             | 2.5                   | 1.5                         | 2.1         | 3.0          | $d_1+1$       | $d_1+4$       | $2.5 \pm 0.3$      |
| V-4A               | 3.5- 4.5             | 3.2                   | 2                           | 2.4         | 3.7          | $d_1+1$       | $d_1+6$       | $3.0 \pm 0.4$      |
| V-5A               | 4.5- 5.5             | 4                     |                             |             |              |               |               |                    |
| V-6A               | 5.5- 6.5             | 5                     |                             |             |              |               |               |                    |
| V-7A               | 6.5- 8.0             | 6                     | 2                           | 2.4         | 3.7          | $d_1+1$       | $d_1+6$       | $3.0 \pm 0.4$      |
| V-8A               | 8.0- 9.5             | 7                     |                             |             |              |               |               |                    |
| V-10A              | 9.5- 11.5            | 9                     | 3                           | 3.4         | 5.5          | $d_1+1$       | $d_1+9$       | $4.5 \pm 0.6$      |
| V-12A              | 11.5- 12.5           | 10.5                  |                             |             |              |               |               |                    |
| V-13A              | 12.5- 13.5           | 11.7                  |                             |             |              |               |               |                    |
| V-14A              | 13.5- 15.5           | 12.5                  |                             |             |              |               |               |                    |
| V-16A              | 15.5- 17             | 14                    | 3                           | 3.4         | 5.5          | $d_1+1$       | $d_1+9$       | $4.5 \pm 0.6$      |
| V-18A              | 17.5- 19             | 16                    |                             |             |              |               |               |                    |
| V-20A              | 19 - 21              | 18                    | 4                           | 4.7         | 7.5          | $d_1+2$       | $d_1+12$      | $6.0 \pm 0.8$      |
| V-22A              | 21 - 24              | 20                    |                             |             |              |               |               |                    |
| V-25A              | 24 - 27              | 22                    |                             |             |              |               |               |                    |
| V-28A              | 27 - 29              | 25                    |                             |             |              |               |               |                    |
| V-30A              | 29 - 31              | 27                    |                             |             |              |               |               |                    |
| V-32A              | 31 - 33              | 29                    |                             |             |              |               |               |                    |
| V-35A              | 33 - 36              | 31                    | 4                           | 4.7         | 7.5          | $d_1+2$       | $d_1+12$      | $6.0 \pm 0.8$      |
| V-38A              | 36 - 38              | 34                    |                             |             |              |               |               |                    |
| V-40A              | 38 - 43              | 36                    | 5                           | 5.5         | 9.0          | $d_1+2$       | $d_1+15$      | $7.0 \pm 1.0$      |
| V-45A              | 43 - 48              | 40                    |                             |             |              |               |               |                    |
| V-50A              | 48 - 53              | 45                    |                             |             |              |               |               |                    |
| V-55A              | 53 - 58              | 49                    |                             |             |              |               |               |                    |
| V-60A              | 58 - 63              | 54                    | 5                           | 5.5         | 9.0          | $d_1+2$       | $d_1+15$      | $7.0 \pm 1.0$      |
| V-65A              | 63 - 68              | 58                    |                             |             |              |               |               |                    |
| V-70A              | 68 - 73              | 63                    | 6                           | 6.8         | 11.0         | $d_1+3$       | $d_1+18$      | $9.0 \pm 1.2$      |
| V-75A              | 73 - 78              | 67                    |                             |             |              |               |               |                    |
| V-80A              | 78 - 83              | 72                    |                             |             |              |               |               |                    |
| V-85A              | 83 - 88              | 76                    |                             |             |              |               |               |                    |
| V-90A              | 88 - 93              | 81                    |                             |             |              |               |               |                    |
| V-95A              | 93 - 98              | 85                    | 6                           | 6.8         | 11.0         | $d_1+3$       | $d_1+18$      | $9.0 \pm 1.2$      |
| V-100A             | 98 - 105             | 90                    |                             |             |              |               |               |                    |
| V-110A             | 105 - 115            | 99                    | 7                           | 7.9         | 12.8         | $d_1+4$       | $d_1+21$      | $10.5 \pm 1.5$     |
| V-120A             | 115 - 125            | 108                   |                             |             |              |               |               |                    |
| V-130A             | 125 - 135            | 117                   |                             |             |              |               |               |                    |
| V-140A             | 135 - 145            | 126                   |                             |             |              |               |               |                    |
| V-150A             | 145 - 155            | 135                   | 7                           | 7.9         | 12.8         | $d_1+4$       | $d_1+21$      | $10.5 \pm 1.5$     |
| V-160A             | 155 - 165            | 144                   | 8                           | 9.0         | 14.5         | $d_1+4$       | $d_1+24$      | $12.0 \pm 1.8$     |
| V-170A             | 165 - 175            | 153                   |                             |             |              |               |               |                    |
| V-180A             | 175 - 185            | 162                   |                             |             |              |               |               |                    |
| V-190A             | 185 - 195            | 171                   |                             |             |              |               |               |                    |
| V-199A             | 195 - 210            | 180                   | 8                           | 9.0         | 14.5         | $d_1+4$       | $d_1+24$      | $12.5 \pm 1.8$     |

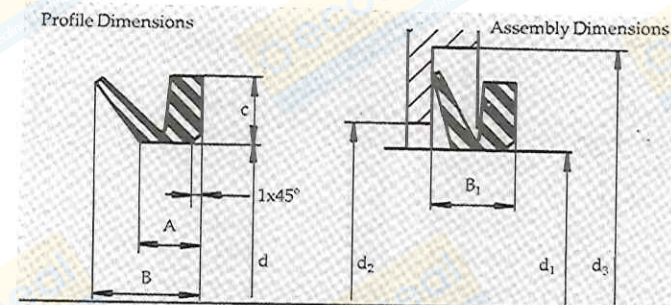
V-RING S



Select the larger V-ring when the dimension  $d_1$  is on the boundary between two sizes of V-ring. All dimensions in mm.

| V-ring designation | For shaft diameter $d_1$ | Inside diameter $d$ | Height of cross-section $c$ | Dimension A | Free width $B$ | Maximum $d_1$ | Minimum $d_1$ | Fitted width $B_1$ |
|--------------------|--------------------------|---------------------|-----------------------------|-------------|----------------|---------------|---------------|--------------------|
| V-5S               | 4.5 - 5.5                | 4                   | 2                           | 3.9         | 5.2            | $d_1 + 1$     | $d_1 + 6$     | $4.5 \pm 0.4$      |
| V-6S               | 5.5 - 6.5                | 5                   |                             |             |                |               |               |                    |
| V-7S               | 6.5 - 8.0                | 6                   |                             |             |                |               |               |                    |
| V-8S               | 8.0 - 9.5                | 7                   | 2                           | 3.9         | 5.2            | $d_1 + 1$     | $d_1 + 6$     | $4.5 \pm 0.4$      |
| V-10S              | 9.5 - 11.5               | 9                   | 3                           | 5.6         | 7.7            | $d_1 + 1$     | $d_1 + 9$     | $6.7 \pm 0.6$      |
| V-12S              | 11.5 - 13.5              | 10.5                |                             |             |                |               |               |                    |
| V-14S              | 13.5 - 15.5              | 12.5                |                             |             |                |               |               |                    |
| V-16S              | 15.5 - 17.5              | 14                  |                             |             |                |               |               |                    |
| V-18S              | 17.5 - 19                | 16                  | 3                           | 5.6         | 7.7            | $d_1 + 1$     | $d_1 + 9$     | $6.7 \pm 0.6$      |
| V-20S              | 19 - 21                  | 18                  | 4                           | 7.9         | 10.5           | $d_1 + 2$     | $d_1 + 12$    | $9.0 \pm 0.8$      |
| V-22S              | 21 - 24                  | 20                  |                             |             |                |               |               |                    |
| V-25S              | 24 - 27                  | 22                  |                             |             |                |               |               |                    |
| V-28S              | 27 - 29                  | 25                  |                             |             |                |               |               |                    |
| V-30S              | 29 - 31                  | 27                  |                             |             |                |               |               |                    |
| V-32S              | 31 - 33                  | 29                  |                             |             |                |               |               |                    |
| V-35S              | 33 - 36                  | 31                  |                             |             |                |               |               |                    |
| V-38S              | 36 - 38                  | 34                  | 4                           | 7.9         | 10.5           | $d_1 + 2$     | $d_1 + 12$    | $9.0 \pm 0.8$      |
| V-40S              | 38 - 43                  | 36                  | 5                           | 9.5         | 13.0           | $d_1 + 2$     | $d_1 + 15$    | $11.0 \pm 1.0$     |
| V-45S              | 43 - 48                  | 40                  |                             |             |                |               |               |                    |
| V-50S              | 48 - 53                  | 45                  |                             |             |                |               |               |                    |
| V-55S              | 53 - 58                  | 49                  |                             |             |                |               |               |                    |
| V-60S              | 58 - 63                  | 54                  |                             |             |                |               |               |                    |
| V-65S              | 63 - 68                  | 58                  | 5                           | 9.5         | 13.0           | $d_1 + 2$     | $d_1 + 15$    | $11.0 \pm 1.0$     |
| V-70S              | 68 - 73                  | 63                  | 6                           | 11.3        | 15.5           | $d_1 + 3$     | $d_1 + 18$    | $13.5 \pm 1.2$     |
| V-75S              | 73 - 78                  | 67                  |                             |             |                |               |               |                    |
| V-80S              | 78 - 83                  | 72                  |                             |             |                |               |               |                    |
| V-85S              | 83 - 88                  | 76                  |                             |             |                |               |               |                    |
| V-90S              | 88 - 93                  | 81                  |                             |             |                |               |               |                    |
| V-95S              | 93 - 98                  | 85                  |                             |             |                |               |               |                    |
| V-100S             | 98 - 105                 | 90                  | 6                           | 11.3        | 15.5           | $d_1 + 3$     | $d_1 + 18$    | $13.5 \pm 1.2$     |
| V-110S             | 105 - 115                | 99                  | 7                           | 13.1        | 18.0           | $d_1 + 4$     | $d_1 + 21$    | $15.5 \pm 1.5$     |
| V-120S             | 115 - 125                | 108                 |                             |             |                |               |               |                    |
| V-130S             | 125 - 135                | 117                 |                             |             |                |               |               |                    |
| V-140S             | 135 - 145                | 126                 |                             |             |                |               |               |                    |
| V-150S             | 145 - 155                | 135                 | 7                           | 13.1        | 18.0           | $d_1 + 4$     | $d_1 + 21$    | $15.5 \pm 1.5$     |
| V-160S             | 155 - 165                | 144                 | 8                           | 15.0        | 20.5           | $d_1 + 4$     | $d_1 + 24$    | $18.0 \pm 1.8$     |
| V-170S             | 165 - 175                | 153                 |                             |             |                |               |               |                    |
| V-180S             | 175 - 185                | 162                 |                             |             |                |               |               |                    |
| V-190S             | 185 - 195                | 171                 |                             |             |                |               |               |                    |
| V-199S             | 195 - 210                | 180                 | 8                           | 15.0        | 20.5           | $d_1 + 4$     | $d_1 + 24$    | $18.0 \pm 1.8$     |

V-RING L



A = 6.0  
B = 10.5  
c = 6.5

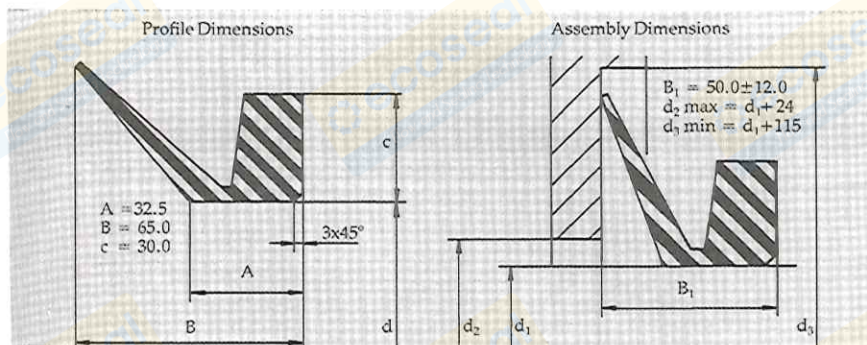
$B_1 = 8.0 \pm 1.5$   
 $d_2 \text{ max} = d_1 + 5$   
 $d_3 \text{ min} = d_1 + 20$

Select the larger V-ring when the dimension  $d_1$  is on the boundary between two sizes of V-ring. All dimensions in mm.

| V-ring designation | For shaft diameter $d_1$ | Inside diameter $d$ | V-ring designation | For shaft diameter $d_1$ | Inside diameter $d$ |
|--------------------|--------------------------|---------------------|--------------------|--------------------------|---------------------|
| V-110L             | 105 - 115                | 99                  | V-725L             | 710 - 740                | 670                 |
| V-120L             | 115 - 125                | 108                 | V-750L             | 740 - 775                | 705                 |
| V-130L             | 125 - 135                | 117                 | V-800L             | 775 - 825                | 745                 |
| V-140L             | 135 - 145                | 126                 | V-850L             | 825 - 875                | 785                 |
| V-150L             | 145 - 155                | 135                 | V-900L             | 875 - 925                | 825                 |
| V-160L             | 155 - 165                | 144                 | V-950L             | 925 - 975                | 865                 |
| V-170L             | 165 - 175                | 153                 | V-1000L            | 975 - 1025               | 910                 |
| V-180L             | 175 - 185                | 162                 | V-1050L            | 1025 - 1075              | 955                 |
| V-190L             | 185 - 195                | 171                 | V-1100L            | 1075 - 1125              | 1000                |
| V-200L             | 195 - 210                | 182                 | V-1150L            | 1125 - 1175              | 1045                |
| V-220L             | 210 - 233                | 198                 | V-1200L            | 1175 - 1225              | 1090                |
| V-250L             | 233 - 260                | 225                 | V-1250L            | 1225 - 1275              | 1135                |
| V-275L             | 260 - 285                | 247                 | V-1300L            | 1275 - 1325              | 1180                |
| V-300L             | 285 - 310                | 270                 | V-1350L            | 1325 - 1375              | 1225                |
| V-325L             | 310 - 335                | 292                 | V-1400L            | 1375 - 1425              | 1270                |
| V-350L             | 335 - 365                | 315                 | V-1450L            | 1425 - 1475              | 1315                |
| V-375L             | 365 - 385                | 337                 | V-1500L            | 1475 - 1525              | 1360                |
| V-400L             | 385 - 410                | 360                 | V-1550L            | 1525 - 1575              | 1405                |
| V-425L             | 410 - 440                | 382                 | V-1600L            | 1575 - 1625              | 1450                |
| V-450L             | 440 - 475                | 405                 | V-1650L            | 1625 - 1675              | 1495                |
| V-500L             | 475 - 510                | 450                 | V-1700L            | 1675 - 1725              | 1540                |
| V-525L             | 510 - 540                | 472                 | V-1750L            | 1725 - 1775              | 1585                |
| V-550L             | 540 - 575                | 495                 | V-1800L            | 1775 - 1825              | 1630                |
| V-600L             | 575 - 625                | 540                 | V-1850L            | 1825 - 1875              | 1675                |
| V-650L             | 625 - 675                | 600                 | V-1900L            | 1875 - 1925              | 1720                |
| V-700L             | 675 - 710                | 630                 | V-1950L            | 1925 - 1975              | 1765                |
|                    |                          |                     | V-2000L            | 1975 - 2025              | 1810                |

V-RING L greater than V-2000L made to special order. Profile and fitted width the same as standard V-RING L.

V-RING E

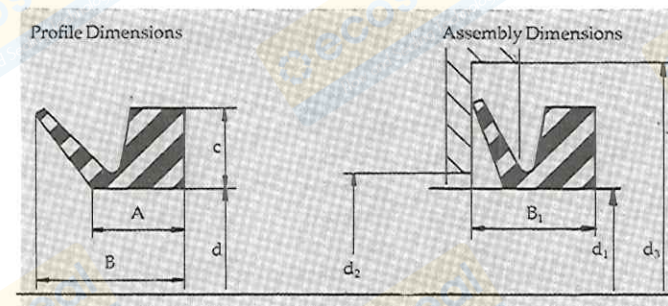


Select the larger V-ring when the dimension  $d_1$  is on the boundary between two sizes of V-ring. All dimensions in mm.

| V-ring designation | For shaft diameter $d_1$ | Inside diameter $d_2$ | V-ring designation | For shaft diameter $d_1$ | Inside diameter $d_2$ | V-ring designation | For shaft diameter $d_1$ | Inside diameter $d_2$ |
|--------------------|--------------------------|-----------------------|--------------------|--------------------------|-----------------------|--------------------|--------------------------|-----------------------|
| V-300E             | 300 - 305                | 294                   | V-525E             | 525 - 530                | 512                   | V-920E             | 912 - 922                | 880                   |
| V-305E             | 305 - 310                | 299                   | V-530E             | 530 - 535                | 517                   | V-930E             | 922 - 933                | 890                   |
| V-310E             | 310 - 315                | 304                   | V-535E             | 535 - 540                | 521                   | V-940E             | 933 - 944                | 900                   |
| V-315E             | 315 - 320                | 309                   | V-540E             | 540 - 545                | 526                   | V-950E             | 944 - 955                | 911                   |
| V-320E             | 320 - 325                | 314                   | V-545E             | 545 - 550                | 531                   | V-960E             | 955 - 966                | 921                   |
| V-325E             | 325 - 330                | 319                   | V-550E             | 550 - 555                | 536                   | V-970E             | 966 - 977                | 932                   |
| V-330E             | 330 - 335                | 323                   | V-555E             | 555 - 560                | 541                   | V-980E             | 977 - 988                | 942                   |
| V-335E             | 335 - 340                | 328                   | V-560E             | 560 - 565                | 546                   | V-990E             | 988 - 999                | 953                   |
| V-340E             | 340 - 345                | 333                   | V-565E             | 565 - 570                | 550                   | V-1000E            | 999 - 1010               | 963                   |
| V-345E             | 345 - 350                | 338                   | V-570E             | 570 - 575                | 555                   | V-1020E            | 1010 - 1025              | 973                   |
| V-350E             | 350 - 355                | 343                   | V-575E             | 575 - 580                | 560                   | V-1040E            | 1025 - 1045              | 990                   |
| V-355E             | 355 - 360                | 347                   | V-580E             | 580 - 585                | 565                   | V-1060E            | 1045 - 1065              | 1008                  |
| V-360E             | 360 - 365                | 352                   | V-585E             | 585 - 590                | 570                   | V-1080E            | 1065 - 1085              | 1027                  |
| V-365E             | 365 - 370                | 357                   | V-590E             | 590 - 600                | 575                   | V-1100E            | 1085 - 1105              | 1045                  |
| V-370E             | 370 - 375                | 362                   | V-600E             | 600 - 610                | 582                   | V-1120E            | 1105 - 1125              | 1065                  |
| V-375E             | 375 - 380                | 367                   | V-610E             | 610 - 620                | 592                   | V-1140E            | 1125 - 1145              | 1084                  |
| V-380E             | 380 - 385                | 371                   | V-620E             | 620 - 630                | 602                   | V-1160E            | 1145 - 1165              | 1103                  |
| V-385E             | 385 - 390                | 376                   | V-630E             | 630 - 640                | 612                   | V-1180E            | 1165 - 1185              | 1121                  |
| V-390E             | 390 - 395                | 381                   | V-640E             | 640 - 650                | 621                   | V-1200E            | 1185 - 1205              | 1139                  |
| V-395E             | 395 - 400                | 386                   | V-650E             | 650 - 660                | 631                   | V-1220E            | 1205 - 1225              | 1157                  |
| V-400E             | 400 - 405                | 391                   | V-660E             | 660 - 670                | 640                   | V-1240E            | 1225 - 1245              | 1176                  |
| V-405E             | 405 - 410                | 396                   | V-670E             | 670 - 680                | 650                   | V-1260E            | 1245 - 1270              | 1195                  |
| V-410E             | 410 - 415                | 401                   | V-680E             | 680 - 690                | 660                   | V-1280E            | 1270 - 1295              | 1218                  |
| V-415E             | 415 - 420                | 405                   | V-690E             | 690 - 700                | 670                   | V-1300E            | 1295 - 1315              | 1240                  |
| V-420E             | 420 - 425                | 410                   | V-700E             | 700 - 710                | 680                   | V-1325E            | 1315 - 1340              | 1259                  |
| V-425E             | 425 - 430                | 415                   | V-710E             | 710 - 720                | 689                   | V-1350E            | 1340 - 1365              | 1281                  |
| V-430E             | 430 - 435                | 420                   | V-720E             | 720 - 730                | 699                   | V-1375E            | 1365 - 1390              | 1305                  |
| V-435E             | 435 - 440                | 425                   | V-730E             | 730 - 740                | 709                   | V-1400E            | 1390 - 1415              | 1328                  |
| V-440E             | 440 - 445                | 429                   | V-740E             | 740 - 750                | 718                   | V-1425E            | 1415 - 1440              | 1350                  |
| V-445E             | 445 - 450                | 434                   | V-750E             | 750 - 758                | 728                   | V-1450E            | 1440 - 1465              | 1374                  |
| V-450E             | 450 - 455                | 439                   | V-760E             | 758 - 766                | 735                   | V-1475E            | 1465 - 1490              | 1397                  |
| V-455E             | 455 - 460                | 444                   | V-770E             | 766 - 774                | 743                   | V-1500E            | 1490 - 1515              | 1419                  |
| V-460E             | 460 - 465                | 448                   | V-780E             | 774 - 783                | 751                   | V-1525E            | 1515 - 1540              | 1443                  |
| V-465E             | 465 - 470                | 453                   | V-790E             | 783 - 792                | 759                   | V-1550E            | 1540 - 1570              | 1467                  |
| V-470E             | 470 - 475                | 458                   | V-800E             | 792 - 801                | 768                   | V-1575E            | 1570 - 1600              | 1495                  |
| V-475E             | 475 - 480                | 463                   | V-810E             | 801 - 810                | 777                   | V-1600E            | 1600 - 1640              | 1524                  |
| V-480E             | 480 - 485                | 468                   | V-820E             | 810 - 821                | 786                   | V-1650E            | 1640 - 1680              | 1559                  |
| V-485E             | 485 - 490                | 473                   | V-830E             | 821 - 831                | 796                   | V-1700E            | 1680 - 1720              | 1596                  |
| V-490E             | 490 - 495                | 478                   | V-840E             | 831 - 841                | 805                   | V-1750E            | 1720 - 1765              | 1632                  |
| V-495E             | 495 - 500                | 483                   | V-850E             | 841 - 851                | 814                   | V-1800E            | 1765 - 1810              | 1671                  |
| V-500E             | 500 - 505                | 488                   | V-860E             | 851 - 861                | 824                   | V-1850E            | 1810 - 1855              | 1714                  |
| V-505E             | 505 - 510                | 493                   | V-870E             | 861 - 871                | 833                   | V-1900E            | 1855 - 1905              | 1753                  |
| V-510E             | 510 - 515                | 497                   | V-880E             | 871 - 882                | 843                   | V-1950E            | 1905 - 1955              | 1794                  |
| V-515E             | 515 - 520                | 502                   | V-890E             | 882 - 892                | 853                   | V-2000E            | 1955 - 2010              | 1844                  |
| V-520E             | 520 - 525                | 507                   | V-900E             | 892 - 912                | 871                   |                    |                          |                       |

V-RING E greater than V-2000 E made to special order. Profile and fitted width the same as standard V-RING E.

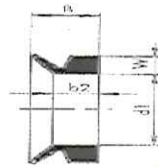
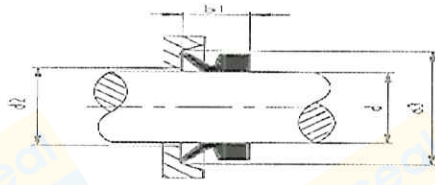
V-RING A



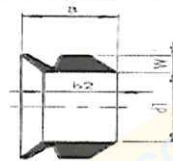
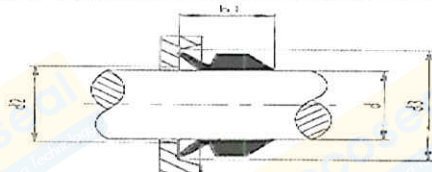
Select the larger V-ring when the dimension  $d_1$  is on the boundary between two sizes of V-ring. All dimensions in mm.

| V-ring designation | For shaft diameter $d_1$ | Inside diameter $d_2$ | Height of cross-section $c$ | Dimension A | Free width B | Maximum $d_1$ | Minimum $d_1$ | Fitted width $B_1$ |
|--------------------|--------------------------|-----------------------|-----------------------------|-------------|--------------|---------------|---------------|--------------------|
| V-200A             | 190 - 210                | 180                   | 15                          | 14.3        | 25.0         | $d_1 + 10$    | $d_1 + 45$    | $20.0 \pm 4.0$     |
| V-220A             | 210 - 225                | 198                   |                             |             |              |               |               |                    |
| V-250A             | 235 - 265                | 225                   |                             |             |              |               |               |                    |
| V-275A             | 265 - 290                | 247                   |                             |             |              |               |               |                    |
| V-300A             | 290 - 310                | 270                   |                             |             |              |               |               |                    |
| V-325A             | 310 - 335                | 292                   |                             |             |              |               |               |                    |
| V-350A             | 335 - 365                | 315                   |                             |             |              |               |               |                    |
| V-375A             | 365 - 390                | 337                   |                             |             |              |               |               |                    |
| V-400A             | 390 - 430                | 360                   |                             |             |              |               |               |                    |
| V-450A             | 430 - 480                | 405                   |                             |             |              |               |               |                    |
| V-500A             | 480 - 530                | 450                   |                             |             |              |               |               |                    |
| V-550A             | 530 - 580                | 495                   |                             |             |              |               |               |                    |
| V-600A             | 580 - 630                | 540                   |                             |             |              |               |               |                    |
| V-650A             | 630 - 665                | 600                   |                             |             |              |               |               |                    |
| V-700A             | 665 - 705                | 630                   |                             |             |              |               |               |                    |
| V-725A             | 705 - 745                | 670                   |                             |             |              |               |               |                    |
| V-750A             | 745 - 785                | 705                   |                             |             |              |               |               |                    |
| V-800A             | 785 - 830                | 745                   |                             |             |              |               |               |                    |
| V-850A             | 830 - 875                | 785                   |                             |             |              |               |               |                    |
| V-900A             | 875 - 920                | 825                   |                             |             |              |               |               |                    |
| V-950A             | 920 - 965                | 865                   |                             |             |              |               |               |                    |
| V-1000A            | 965 - 1015               | 910                   |                             |             |              |               |               |                    |
| V-1050A            | 1015 - 1065              | 955                   |                             |             |              |               |               |                    |
| V-1100A            | 1065 - 1115              | 1000                  |                             |             |              |               |               |                    |
| V-1150A            | 1115 - 1165              | 1045                  |                             |             |              |               |               |                    |
| V-1200A            | 1165 - 1215              | 1090                  |                             |             |              |               |               |                    |
| V-1250A            | 1215 - 1270              | 1135                  |                             |             |              |               |               |                    |
| V-1300A            | 1270 - 1320              | 1180                  |                             |             |              |               |               |                    |
| V-1350A            | 1320 - 1370              | 1225                  |                             |             |              |               |               |                    |
| V-1400A            | 1370 - 1420              | 1270                  |                             |             |              |               |               |                    |
| V-1450A            | 1420 - 1470              | 1315                  |                             |             |              |               |               |                    |
| V-1500A            | 1470 - 1520              | 1360                  |                             |             |              |               |               |                    |
| V-1550A            | 1520 - 1570              | 1405                  |                             |             |              |               |               |                    |
| V-1600A            | 1570 - 1620              | 1450                  |                             |             |              |               |               |                    |
| V-1650A            | 1620 - 1670              | 1495                  |                             |             |              |               |               |                    |
| V-1700A            | 1670 - 1720              | 1540                  |                             |             |              |               |               |                    |
| V-1750A            | 1720 - 1770              | 1585                  |                             |             |              |               |               |                    |
| V-1800A            | 1770 - 1820              | 1630                  |                             |             |              |               |               |                    |
| V-1850A            | 1820 - 1870              | 1675                  |                             |             |              |               |               |                    |
| V-1900A            | 1870 - 1920              | 1720                  |                             |             |              |               |               |                    |
| V-1950A            | 1920 - 1970              | 1765                  |                             |             |              |               |               |                    |
| V-2000A            | 1970 - 2020              | 1810                  |                             |             |              |               |               |                    |

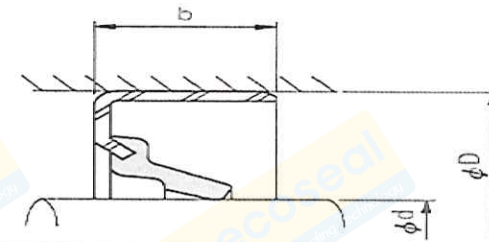
V-ring A greater than V-2000 A made to special order. Profiles and axial fitted width the same as for V-2000A-V-2000.



| TYPE   | d*D*H             | TYPE   | d*D*H            | TYPE   | d*D*H            |
|--------|-------------------|--------|------------------|--------|------------------|
| VA-003 | 2.5*5.5*2.1/3     | VA-038 | 34*42*4.7/7.5    | VA-140 | 126*140*7.9/12.8 |
| VA-004 | 3.2*7.2*2.4/3.7   | VA-040 | 36*46*5.5/9      | VA-150 | 135*149*7.9*12.8 |
| VA-006 | 5*9*2.4/3.7       | VA-045 | 40*50*5.5/9      | VA-160 | 144*160*9/14.5   |
| VA-007 | 6*10*2.4/3.7      | VA-050 | 45*55*5.5/9      | VA-170 | 153*169*9/14.5   |
| VA-008 | 7*11*2.4/3.7      | VA-055 | 49*59*5.5/9      | VA-180 | 162*178*9/14.5   |
| VA-010 | 9*15*3.4/5.5      | VA-060 | 54*64*5.5/9      | VA-190 | 171*187*9/14.5   |
| VA-012 | 10.5*16.5*3.4/5.5 | VA-065 | 58*68*5.5/9      | VA-199 | 180*196*9/14.5   |
| VA-014 | 12.5*18.5*3.4/5.5 | VA-070 | 63*75*6.8/11     | VA-200 | 180*210*14.3/25  |
| VA-016 | 14*20*3.4/5.5     | VA-075 | 67*79*6.8/11     | VA-220 | 198*228*14.3/25  |
| VA-018 | 16*22*3.4/5.5     | VA-080 | 72*84*6.8/11     | VA-250 | 225*255*14.3/25  |
| VA-022 | 20*28*4.7/7.5     | VA-085 | 76*88*6.8/11     | VA-220 | 198*228*14.3/25  |
| VA-025 | 22*30*4.7/7.5     | VA-090 | 81*93*6.8/11     | VA-250 | 225*255*14.3/25  |
| VA-028 | 25*33*4.7/7.5     | VA-095 | 85*97*6.8/11     | VA-300 | 270*300*14.3/25  |
| VA-030 | 27*35*4.7/7.5     | VA-100 | 90*102*6.8/11    | VA-325 | 292*322*14.3/25  |
| VA-032 | 29*37*4.7/7.5     | VA-110 | 99*113*7.9/12.8  | VA-400 | 360*390*14.3/25  |
| VA-035 | 31*39*4.7/7.5     | VA-120 | 108*122*7.9/12.8 | VA-450 | 405*435*14.3/25  |
| VA-038 | 34*42*4.7/7.5     | VA-130 | 117*131*7.9/12.8 | VA-600 | 540*570*14.3/25  |

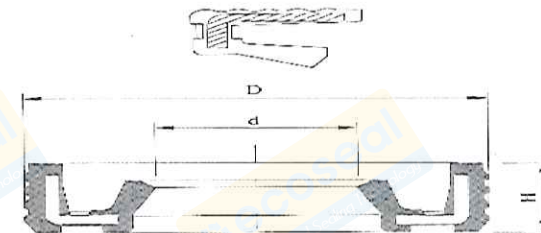


| TYPE   | d*D*H             | TYPE   | d*D*H           | TYPE   | d*D*H            |
|--------|-------------------|--------|-----------------|--------|------------------|
| VS-005 | 4*8*3.9/5.2       | VS-032 | 29*37*7.9/10.5  | VS-095 | 85*97*11.3/15.5  |
| VS-006 | 5*9*3.9/5.2       | VS-035 | 31*39*7.9/10.5  | VS-100 | 90*102*11.3/15.5 |
| VS-007 | 6*10*3.9/5.2      | VS-038 | 34*42*7.9/10.5  | VS-110 | 99*113*13.1/18   |
| VS-008 | 7*11*3.9/5.2      | VS-040 | 36*46*9.5/13    | VS-120 | 108*122*13.1/18  |
| VS-010 | 9*15*5.6/7.7      | VS-045 | 40*50*9.5/13    | VS-130 | 117*131*13.1/18  |
| VS-012 | 10.5*16.5*5.6/7.7 | VS-050 | 45*55*9.5/13    | VS-140 | 126*140*13.1/18  |
| VS-014 | 12.5*18.5*5.6/7.7 | VS-055 | 49*59*9.5/13    | VS-150 | 135*149*13.1/18  |
| VS-016 | 14*20*5.6/7.7     | VS-060 | 54*64*9.5/13    | VS-160 | 144*160*15/20.5  |
| VS-018 | 16*22*5.6/7.7     | VS-065 | 58*65*9.5/13    | VS-170 | 153*169*15/20.5  |
| VS-020 | 18*26*7.9/10.5    | VS-070 | 63*75*11.3/15.5 | VS-180 | 162*178*15/20.5  |
| VS-022 | 20*28*7.9/10.5    | VS-075 | 67*79*11.3/15.5 | VS-190 | 171*187*15/20.5  |
| VS-025 | 22*30*7.9/10.5    | VS-080 | 72*84*11.3/15.5 | VS-199 | 180*196*15/20.5  |
| VS-028 | 25*33*7.9/10.5    | VS-085 | 76*88*11.3/15.5 |        |                  |
| VS-030 | 27*35*4.9/10.5    | VS-090 | 81*93*11.3/15.5 |        |                  |



| TYPE | d*D*H              | TYPE | d*D*H            | TYPE | d*D*H            |
|------|--------------------|------|------------------|------|------------------|
| VB   | 10*15*3            | VB   | 15.88*25.4*6.35  | VB   | 25*32*3          |
| VB   | 10*16*4            | VB   | 15.88*28.58*6.35 | VB   | 25*32*4          |
| VB   | 10*17*3            | VB   | 150*180*13       | VB   | 25*32*5          |
| VB   | 100*110*4          | VB   | 16*20*2.5        | VB   | 25*33*4          |
| VB   | 107.95*122.22*2.77 | VB   | 16*21*3          | VB   | 25*34*5          |
| VB   | 11.13*15.83*3.18   | VB   | 16*22*3          | VB   | 25*35*4          |
| VB   | 110*130*10         | VB   | 16*22*4          | VB   | 25*38*4          |
| VB   | 110*135*8          | VB   | 16*24*5          | VB   | 25.4*31.75*3     |
| VB   | 12*16*3            | VB   | 16*25*4          | VB   | 25.4*31.75*3.18  |
| VB   | 12*18*3            | VB   | 16.99*31.75*6.35 | VB   | 25.4*33.35*3.18  |
| VB   | 12*18*4.8          | VB   | 160*190*13       | VB   | 25.4*33.35*3.96  |
| VB   | 12*22*4.5          | VB   | 17*23.5*3.2      | VB   | 25.4*38.1*4.78   |
| VB   | 12.7*17.48*2.45    | VB   | 17*25*3          | VB   | 25.4*44.45*6.35  |
| VB   | 12.7*19.05*3.17    | VB   | 17*29*3.2        | VB   | 26.19*34.92*4.78 |
| VB   | 12.7*19.05*4.78    | VB   | 17.47*22.22*3.17 | VB   | 27*32*3          |
| VB   | 12.7*22.22*6.35    | VB   | 17.48*22.23*2.39 | VB   | 27*33.35*3.18    |
| VB   | 12.7*22.23*3.18    | VB   | 17.48*25.4*4.78  | VB   | 27*34*3          |
| VB   | 12.7*28.58*3.18    | VB   | 18*24*3          | VB   | 27*34.92*6.1     |
| VB   | 125*140*7          | VB   | 18*26*5          | VB   | 28*35*3          |
| VB   | 130*145*7          | VB   | 19*26*3.5        | VB   | 28*35*4          |
| VB   | 130*155*11         | VB   | 19*32*11         | VB   | 28*35*6          |
| VB   | 14*20*3            | VB   | 19.05*25.4*3.18  | VB   | 28*37*6          |
| VB   | 14*32*11           | VB   | 19.05*25.4*6.35  | VB   | 28*39*6          |
| VB   | 14.3*22.23*4.78    | VB   | 19.05*31.75*6.35 | VB   | 28.56*35*4       |
| VB   | 15*19*4            | VB   | 20*24*2.5        | VB   | 28.57*35*2.2     |
| VB   | 15*21*3            | VB   | 20*28*4          | VB   | 28.57*35*4       |
| VB   | 15*22*3            | VB   | 20*30*4          | VB   | 28.58*34.92*3.36 |
| VB   | 15*22*4            | VB   | 22*30*4          | VB   | 28.58*38.1*4.78  |
| VB   | 15*23*3            | VB   | 22.23*28.58*6.35 | VB   | 28.58*39.7*6.35  |
| VB   | 15*28*3            | VB   | 22.23*30.18*3.96 | VB   | 28.58*44.45*6.35 |
| VB   | 15*32*6            | VB   | 23*28*3          | VB   | 29*36*8          |
| VB   | 15.2*28*4          | VB   | 23.83*30.18*3.18 | VB   | 3*8*2            |
| VB   | 15.88*20.65*2.39   | VB   | 24*30*3          | VB   | 30*34*4          |
| VB   | 15.88*20.83*2.39   | VB   | 24*32*4          | VB   | 30*35*3          |
| VB   | 15.88*22.23*3.18   | VB   | 24.99*46.43*4.78 | VB   | 30*37*3          |
| VB   | 15.88*25.4*3.17    | VB   | 25*31*2.5        | VB   | 30*37*4          |

| TYPE | d*D*H            | TYPE | d*D*H            | TYPE | d*D*H              |
|------|------------------|------|------------------|------|--------------------|
| VB   | 30*38*3          | VB   | 44.45*53.98*4.9  | VB   | 60*75*4            |
| VB   | 30*38*4          | VB   | 44.45*57.15*12.7 | VB   | 60*78*7            |
| VB   | 30*40*4          | VB   | 44.45*57.15*4.37 | VB   | 63*75*5            |
| VB   | 30.18*41.28*4.78 | VB   | 44.45*57.15*6.35 | VB   | 63.5*73.02*3.18    |
| VB   | 31*37*3          | VB   | 44.45*76.2*9.53  | VB   | 65*75*8            |
| VB   | 31.75*42.88*3.18 | VB   | 44.7*54*6        | VB   | 65*77*7            |
| VB   | 31.75*42.88*4.78 | VB   | 45*50*3          | VB   | 65*80*6            |
| VB   | 31.75*44.45*6.35 | VB   | 45*52*3          | VB   | 65*88*6            |
| VB   | 31.75*50.27*6.35 | VB   | 45*52*4          | VB   | 69.47*79.38*2.77   |
| VB   | 32*38*3.5        | VB   | 45*53*7          | VB   | 69.85*104.78*11.13 |
| VB   | 32*41*4          | VB   | 45*55*4          | VB   | 69.85*79.38*2.77   |
| VB   | 32*42*4          | VB   | 45*65*5          | VB   | 69.85*79.38*4.78   |
| VB   | 32*45*4          | VB   | 47.63*58.75*9.53 | VB   | 7.14*11.13*3.18    |
| VB   | 33*39*5          | VB   | 48*55*4          | VB   | 7.95*14.3*3.96     |
| VB   | 33*40*3          | VB   | 5*10*2           | VB   | 7.95*15.88*3.18    |
| VB   | 33.35*47.63*4.78 | VB   | 5*9*2            | VB   | 7.95*15.88*3.96    |
| VB   | 34.92*57.94*7.95 | VB   | 5.94*11.89*2.38  | VB   | 70*85*4            |
| VB   | 35*41*2.5        | VB   | 50*58*4          | VB   | 71*86*5            |
| VB   | 35*42*1.9        | VB   | 50*58*4          | VB   | 75*100*8           |
| VB   | 35*42*3.5        | VB   | 50*62*4          | VB   | 79.38*104.78*6.35  |
| VB   | 35*42*4          | VB   | 50*62*5          | VB   | 8*12*3             |
| VB   | 35*45*4          | VB   | 50*63*5          | VB   | 80*95*5            |
| VB   | 35*47*5          | VB   | 50*80*6          | VB   | 82.55*96.91*2.77   |
| VB   | 35*48*4          | VB   | 50.8*60.32*6.35  | VB   | 88.9*98.45*4.78    |
| VB   | 35*60*5          | VB   | 51*58*4          | VB   | 9.53*12.7*2.26     |
| VB   | 36*42*3.5        | VB   | 53.97*63.5*5.16  | VB   | 9.53*15.88*3.18    |
| VB   | 36.53*44.45*3.96 | VB   | 53.98*73.03*6.35 | VB   | 9.53*15.88*4.76    |
| VB   | 36.65*41.75*3    | VB   | 55*62*4          | VB   | 9.53*22.23*3.18    |
| VB   | 37.5*45*4        | VB   | 55*63*5          | VB   | 9.93*14.3*2.39     |
| VB   | 38*43*3          | VB   | 55*67*5          |      |                    |
| VB   | 38*48*4          | VB   | 55*68*4          |      |                    |
| VB   | 38*50*4          | VB   | 55*70*5          |      |                    |
| VB   | 38*50*5          | VB   | 55*82*10         |      |                    |
| VB   | 38.1*44.45*2.77  | VB   | 55*90*6          |      |                    |
| VB   | 38.1*47.63*4.78  | VB   | 57.15*66.68*6.35 |      |                    |
| VB   | 38.1*47.63*6.35  | VB   | 57.15*69.85*6.35 |      |                    |
| VB   | 39.7*60.33*6.35  | VB   | 57.94*69.85*5.56 |      |                    |
| VB   | 40*47*4          | VB   | 58*65*3.5        |      |                    |
| VB   | 40*50*4          | VB   | 6*10*2           |      |                    |
| VB   | 40*50*6          | VB   | 6*13*4.5         |      |                    |
| VB   | 40*54*5          | VB   | 6*13*5           |      |                    |
| VB   | 40*55*6.5        | VB   | 6.35*12.7*4.78   |      |                    |
| VB   | 41.28*47.63*2.77 | VB   | 6.35*9.53*3.18   |      |                    |
| VB   | 42*52*4          | VB   | 60*67*4          |      |                    |



| TYPE | d*D*H            | TYPE | d*D*H          | TYPE | d*D*H |
|------|------------------|------|----------------|------|-------|
| VCW  | 10*14*3          | VCW  | 32*42*4        |      |       |
| VCW  | 10*17*3          | VCW  | 35*42*4        |      |       |
| VCW  | 12*16*3          | VCW  | 37*47*4        |      |       |
| VCW  | 12*18*3          | VCW  | 39*52*5        |      |       |
| VCW  | 12*19*3          | VCW  | 4.78*12.7*3.18 |      |       |
| VCW  | 12*23*3          | VCW  | 40*47*4        |      |       |
| VCW  | 14*20*3          | VCW  | 40*50*4        |      |       |
| VCW  | 14*22*3          | VCW  | 43*53*4        |      |       |
| VCW  | 15*21*3          | VCW  | 45*55*4        |      |       |
| VCW  | 15*28*3          | VCW  | 50*58*4        |      |       |
| VCW  | 15.88*22.23*3.96 | VCW  | 50*60.5*5      |      |       |
| VCW  | 16*22*3          | VCW  | 50*62*5        |      |       |
| VCW  | 16*24*3          | VCW  | 55*63*5        |      |       |
| VCW  | 16*25*3          | VCW  | 6*10*3         |      |       |
| VCW  | 17*23*3          | VCW  | 60*72*4        |      |       |
| VCW  | 18*24*3          | VCW  | 8*12*3         |      |       |
| VCW  | 18*24*4          | VCW  | 8*14*4         |      |       |
| VCW  | 18*26*4          | VCW  | 8*16*3         |      |       |
| VCW  | 19*25*3.2        | VCW  | 9*16*3         |      |       |
| VCW  | 19*27*4          | VCW  | 9*28*4.1       |      |       |
| VCW  | 20*26*4          |      |                |      |       |
| VCW  | 20*28*4          |      |                |      |       |
| VCW  | 20*30*4          |      |                |      |       |
| VCW  | 22*28*4          |      |                |      |       |
| VCW  | 24*31*4          |      |                |      |       |
| VCW  | 24*32*4          |      |                |      |       |
| VCW  | 25*32*4          |      |                |      |       |
| VCW  | 25*33*4          |      |                |      |       |
| VCW  | 25*35*4          |      |                |      |       |
| VCW  | 26*32*4          |      |                |      |       |
| VCW  | 28*35*4          |      |                |      |       |
| VCW  | 28*40*4          |      |                |      |       |
| VCW  | 28*40*5          |      |                |      |       |
| VCW  | 30*37*4          |      |                |      |       |
| VCW  | 30*40*4          |      |                |      |       |
| VCW  | 30*42*4          |      |                |      |       |
| VCW  | 30.18*42.06*6.35 |      |                |      |       |