

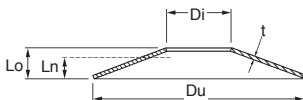
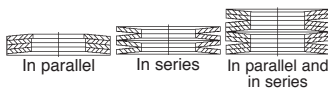
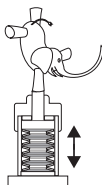
- Disc spring washer
- Belleville (spring) washer conforming to DIN 2093
- Sold in packs

### Advantages

- Exerts large forces
- Usable under severe conditions

### Info.

- When compressed, internal  $D_i$  reduces while outside diameter  $D_u$  increases
- Dynamic washers can be assembled into columns of multiple washers in different configurations to obtain the performance required, e.g. a longer stroke than a single washer would give or a higher force for a shorter stroke.



### DISCOUNTS

|            |      |      |            |
|------------|------|------|------------|
| N° batches | 1+   | 6+   | 10+        |
| Discount.  | List | -10% | On request |

| Part number | Outside diameter $D_u$ | Internal diameter $D_i$ | Thickness $t$ | Free length $L_o$ | Loaded length $L_n$ | Load in $F_n$ (N) | Qty per pack | Stock* | Price per pack |
|-------------|------------------------|-------------------------|---------------|-------------------|---------------------|-------------------|--------------|--------|----------------|
| RBS8214/L   | 8,00                   | 3,20                    | 0,30          | 0,55              | 0,36                | 106               | 200          | ✓      | 27,28 €        |
| RBS8215/L   | 8,00                   | 3,20                    | 0,40          | 0,60              | 0,45                | 185               | 200          | -      | 27,28 €        |
| RBS8216/L   | 8,00                   | 4,20                    | 0,30          | 0,55              | 0,36                | 118               | 200          | ✓      | 27,28 €        |
| RBS8217/L   | 8,00                   | 4,20                    | 0,40          | 0,60              | 0,45                | 206               | 200          | -      | 27,28 €        |
| RBS8227/L   | 10,00                  | 3,20                    | 0,30          | 0,65              | 0,39                | 100               | 200          | ✗      | 31,83 €        |
| RBS8228/L   | 10,00                  | 3,20                    | 0,40          | 0,70              | 0,47                | 181               | 200          | ✗      | 31,83 €        |
| RBS8229/L   | 10,00                  | 3,20                    | 0,50          | 0,75              | 0,56                | 282               | 200          | -      | 31,83 €        |
| RBS8230/L   | 10,00                  | 4,20                    | 0,40          | 0,50              | 0,47                | 191               | 200          | -      | 31,83 €        |
| RBS8231/L   | 10,00                  | 4,20                    | 0,50          | 0,75              | 0,56                | 296               | 200          | -      | 31,83 €        |
| RBS8232/L   | 10,00                  | 4,20                    | 0,60          | 0,85              | 0,66                | 490               | 200          | -      | 31,83 €        |
| RBS8233/L   | 10,00                  | 5,20                    | 0,40          | 0,70              | 0,53                | 209               | 200          | ✓      | 31,83 €        |
| RBS8234/L   | 10,00                  | 5,20                    | 0,50          | 0,75              | 0,56                | 326               | 200          | ✓      | 31,83 €        |
| RBS8239/L   | 12,00                  | 4,20                    | 0,40          | 0,80              | 0,50                | 181               | 200          | ✓      | 31,83 €        |
| RBS8240/L   | 12,00                  | 4,20                    | 0,50          | 0,85              | 0,59                | 288               | 200          | -      | 31,83 €        |
| RBS8242/L   | 12,00                  | 5,20                    | 0,50          | 0,90              | 0,60                | 349               | 200          | -      | 31,83 €        |
| RBS8243/L   | 12,00                  | 5,20                    | 0,60          | 0,95              | 0,69                | 581               | 200          | ✓      | 31,83 €        |
| RBS8244/L   | 12,50                  | 6,20                    | 0,50          | 0,85              | 0,59                | 331               | 200          | ✓      | 31,83 €        |
| RBS8247/L   | 12,50                  | 6,20                    | 0,70          | 1,00              | 0,77                | 659               | 200          | ✓      | 40,94 €        |
| RBS8256/L   | 14,00                  | 7,20                    | 0,50          | 0,90              | 0,60                | 279               | 200          | ✓      | 40,94 €        |
| RBS8257/L   | 14,00                  | 7,20                    | 0,80          | 1,10              | 0,87                | 796               | 200          | -      | 40,94 €        |

\*Depending on availability - Dimensions in mm

## DISCOUNTS

|            |      |      |            |
|------------|------|------|------------|
| N° batches | 1+   | 6+   | 10+        |
| Discount.  | List | -10% | On request |

| Part number | Outside diameter Du | Internal diameter Di | Thickness t | Free length Lo | Loaded length Ln | Load in Ln (N) Fn | Qty per pack | Stock* | Price per pack |
|-------------|---------------------|----------------------|-------------|----------------|------------------|-------------------|--------------|--------|----------------|
| RBS8259/L   | 15,00               | 5,20                 | 0,40        | 0,95           | 0,54             | 178               | 200          | ↗      | 40,94 €        |
| RBS8260/L   | 15,00               | 5,20                 | 0,50        | 1,00           | 0,62             | 279               | 200          | ↗      | 40,94 €        |
| RBS8261/L   | 15,00               | 5,20                 | 0,60        | 1,05           | 0,71             | 407               | 200          | -      | 40,94 €        |
| RBS8262/L   | 15,00               | 5,20                 | 0,70        | 1,10           | 0,80             | 563               | 200          | -      | 40,94 €        |
| RBS8263/L   | 15,00               | 6,20                 | 0,50        | 1,00           | 0,62             | 292               | 200          | -      | 40,94 €        |
| RBS8264/L   | 15,00               | 6,20                 | 0,60        | 1,05           | 0,71             | 424               | 200          | ✓      | 40,94 €        |
| RBS8265/L   | 15,00               | 6,20                 | 0,70        | 1,10           | 0,80             | 583               | 200          | ✓      | 40,94 €        |
| RBS8266/L   | 15,00               | 8,20                 | 0,70        | 1,10           | 0,80             | 666               | 200          | -      | 40,94 €        |
| RBS8267/L   | 15,00               | 8,20                 | 0,80        | 1,20           | 0,90             | 1005              | 200          | ✓      | 45,52 €        |
| RBS8272/L   | 16,00               | 8,20                 | 0,60        | 1,05           | 0,71             | 410               | 200          | ✓      | 40,94 €        |
| RBS8273/L   | 16,00               | 8,20                 | 0,90        | 1,25           | 0,99             | 1010              | 200          | ✓      | 45,52 €        |
| RBS8275/L   | 18,00               | 6,20                 | 0,40        | 1,00           | 0,55             | 141               | 200          | ✓      | 40,94 €        |
| RBS8276/L   | 18,00               | 6,20                 | 0,50        | 1,10           | 0,65             | 245               | 200          | -      | 40,94 €        |
| RBS8277/L   | 18,00               | 6,20                 | 0,60        | 1,20           | 0,75             | 400               | 200          | -      | 45,52 €        |
| RBS8278/L   | 18,00               | 6,20                 | 0,70        | 1,25           | 0,84             | 561               | 200          | -      | 45,52 €        |
| RBS8279/L   | 18,00               | 6,20                 | 0,80        | 1,30           | 0,92             | 735               | 200          | ✓      | 45,52 €        |
| RBS8280/L   | 18,00               | 8,20                 | 0,70        | 1,25           | 0,84             | 601               | 200          | ✓      | 45,52 €        |
| RBS8281/L   | 18,00               | 8,20                 | 1,00        | 1,30           | 0,92             | 781               | 200          | ✓      | 50,06 €        |
| RBS8282/L   | 18,00               | 9,20                 | 0,70        | 1,20           | 0,82             | 566               | 200          | -      | 45,52 €        |
| RBS8283/L   | 18,00               | 9,20                 | 1,00        | 1,40           | 1,10             | 1255              | 200          | -      | 50,06 €        |
| RBS8291/L   | 20,00               | 8,20                 | 0,60        | 1,30           | 0,77             | 413               | 200          | ✓      | 45,52 €        |
| RBS8292/L   | 20,00               | 8,20                 | 0,70        | 1,35           | 0,86             | 577               | 200          | ✓      | 45,52 €        |
| RBS8293/L   | 20,00               | 8,20                 | 0,80        | 1,40           | 0,95             | 760               | 200          | ✓      | 50,06 €        |
| RBS8295/L   | 20,00               | 10,20                | 0,80        | 1,35           | 0,94             | 748               | 200          | ✓      | 50,06 €        |
| RBS8296/L   | 20,00               | 10,20                | 0,90        | 1,45           | 1,04             | 1064              | 200          | ↗      | 50,06 €        |
| RBS8297/L   | 20,00               | 10,20                | 1,00        | 1,55           | 1,14             | 1422              | 200          | ✓      | 54,62 €        |
| RBS8298/L   | 20,00               | 10,20                | 1,10        | 1,55           | 1,21             | 1520              | 200          | ↗      | 54,62 €        |
| RBS8301/L   | 22,50               | 11,20                | 0,80        | 1,45           | 0,96             | 707               | 200          | -      | 50,06 €        |
| RBS8302/L   | 22,50               | 11,20                | 1,25        | 1,75           | 1,37             | 1932              | 200          | -      | 98,49 €        |
| RBS8303/L   | 23,00               | 8,20                 | 0,70        | 1,50           | 0,90             | 549               | 200          | -      | 50,06 €        |
| RBS8304/L   | 23,00               | 8,20                 | 0,80        | 1,55           | 0,99             | 730               | 200          | -      | 50,06 €        |
| RBS8305/L   | 23,00               | 8,20                 | 0,90        | 1,70           | 1,10             | 1079              | 200          | ↗      | 54,62 €        |
| RBS8309/L   | 23,00               | 10,20                | 0,90        | 1,65           | 1,09             | 1059              | 200          | -      | 54,62 €        |
| RBS8310/L   | 23,00               | 10,20                | 1,00        | 1,70           | 1,17             | 1314              | 200          | ✓      | 63,72 €        |
| RBS8311/L   | 23,00               | 12,20                | 1,25        | 1,85           | 1,40             | 2334              | 200          | -      | 96,34 €        |
| RBS8313/L   | 25,00               | 12,20                | 0,90        | 1,60           | 1,07             | 862               | 200          | ✓      | 59,17 €        |
| RBS8314/L   | 25,00               | 12,20                | 1,50        | 2,05           | 1,64             | 2922              | 200          | ✓      | 115,51 €       |
| RBS8321/L   | 28,00               | 10,20                | 0,80        | 1,75           | 1,04             | 672               | 200          | ✓      | 63,72 €        |
| RBS8322/L   | 28,00               | 10,20                | 1,00        | 2,00           | 1,25             | 1285              | 200          | -      | 68,28 €        |
| RBS8324/L   | 28,00               | 12,20                | 1,00        | 1,95           | 1,24             | 1265              | 200          | ✓      | 68,28 €        |
| RBS8325/L   | 28,00               | 12,20                | 1,25        | 2,10           | 1,46             | 2079              | 200          | ✓      | 116,15 €       |
| RBS8326/L   | 28,00               | 12,20                | 1,50        | 2,25           | 1,69             | 3079              | 200          | -      | 123,59 €       |
| RBS8327/L   | 28,00               | 14,20                | 1,00        | 1,80           | 1,20             | 1108              | 200          | ✓      | 68,28 €        |
| RBS8328/L   | 28,00               | 14,20                | 1,25        | 2,10           | 1,46             | 2236              | 200          | -      | 116,15 €       |
| RBS8329/L   | 28,00               | 14,20                | 1,50        | 2,15           | 1,66             | 2844              | 200          | -      | 154,09 €       |

\*Depending on availability - Dimensions in mm

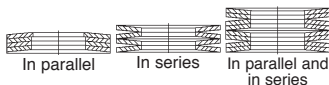
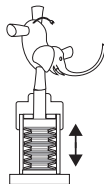
- Disc spring washer
- Belleville (spring) washer conforming to DIN 2093
- Sold in packs

### Advantages

- Exerts large forces
- Usable under severe conditions

### Info.

- When compressed, internal diameter  $D_i$  reduces while outside diameter  $D_u$  increases
- Dynamic washers can be assembled into columns of multiple washers in different configurations to obtain the performance required, e.g. a longer stroke than a single washer would give or a higher force for a shorter stroke.

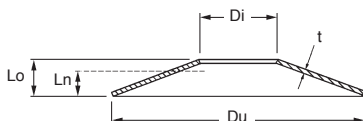


### DISCOUNTS

|            |      |      |            |
|------------|------|------|------------|
| N° batches | 1+   | 6+   | 10+        |
| Discount.  | List | -10% | On request |

| Part number | Outside diameter $D_u$ | Internal diameter $D_i$ | Thickness $t$ | Free length $L_o$ | Loaded length $L_n$ | Load in $L_n$ (N) $F_n$ | Qty per pack | Stock* | Price per pack |
|-------------|------------------------|-------------------------|---------------|-------------------|---------------------|-------------------------|--------------|--------|----------------|
| RBS8334/L   | 31,50                  | 16,30                   | 1,25          | 2,15              | 1,47                | 1912                    | 100          | ✓      | 59,11 €        |
| RBS8335/L   | 31,50                  | 16,30                   | 1,75          | 2,45              | 1,92                | 3874                    | 100          | ✓      | 71,50 €        |
| RBS8345/L   | 34,00                  | 14,30                   | 1,25          | 2,40              | 1,54                | 2010                    | 100          | -      | 79,71 €        |
| RBS8346/L   | 34,00                  | 14,30                   | 1,50          | 2,55              | 1,76                | 2991                    | 100          | -      | 78,77 €        |
| RBS8347/L   | 34,00                  | 16,30                   | 1,50          | 2,55              | 1,76                | 3187                    | 100          | -      | 83,53 €        |
| RBS8348/L   | 34,00                  | 16,30                   | 2,00          | 2,85              | 2,41                | 5776                    | 100          | -      | 87,53 €        |
| RBS8352/L   | 35,50                  | 18,30                   | 1,25          | 2,25              | 1,50                | 1716                    | 100          | -      | 68,64 €        |
| RBS8353/L   | 35,50                  | 18,30                   | 2,00          | 2,80              | 2,20                | 5256                    | 100          | -      | 91,63 €        |
| RBS8364/L   | 40,00                  | 16,30                   | 1,50          | 2,80              | 1,82                | 2775                    | 100          | -      | 105,53 €       |
| RBS8365/L   | 40,00                  | 16,30                   | 2,00          | 3,10              | 2,27                | 5247                    | 100          | -      | 133,17 €       |
| RBS8366/L   | 40,00                  | 18,30                   | 2,00          | 3,15              | 2,29                | 5688                    | 100          | -      | 136,63 €       |
| RBS8367/L   | 40,00                  | 20,40                   | 1,50          | 2,65              | 1,79                | 2648                    | 100          | ✓      | 102,68 €       |
| RBS8368/L   | 40,00                  | 20,40                   | 2,00          | 3,10              | 2,27                | 5766                    | 100          | ✓      | 106,48 €       |
| RBS8369/L   | 40,00                  | 20,40                   | 2,25          | 3,15              | 2,47                | 6551                    | 100          | -      | 112,71 €       |
| RBS8370/L   | 40,00                  | 20,40                   | 2,50          | 3,45              | 2,74                | 9512                    | 100          | -      | 133,36 €       |

\*Depending on availability - Dimensions in mm



## DISCOUNTS

| N° batches | 1+   | 6+   | 10+        |
|------------|------|------|------------|
| Discount.  | List | -10% | On request |

| Part number | Diameter      |                |                | Free length<br>Lo | Loaded length<br>Ln | Load in Ln (N)<br>Fn | Qty per pack | Stock* | Price per pack |
|-------------|---------------|----------------|----------------|-------------------|---------------------|----------------------|--------------|--------|----------------|
|             | Outside<br>Du | Internal<br>Di | Thickness<br>t |                   |                     |                      |              |        |                |
| RBS8373/L   | 45,00         | 22,40          | 1,75           | 3,05              | 2,07                | 3677                 | 50           | -      | 45,37 €        |
| RBS8374/L   | 45,00         | 22,40          | 2,50           | 3,50              | 2,75                | 7796                 | 50           | -      | 58,21 €        |
| RBS8376/L   | 50,00         | 18,40          | 1,50           | 3,30              | 1,95                | 2628                 | 50           | -      | 45,36 €        |
| RBS8380/L   | 50,00         | 20,40          | 2,00           | 3,50              | 2,37                | 4746                 | 50           | -      | 53,94 €        |
| RBS8381/L   | 50,00         | 20,40          | 2,50           | 3,85              | 2,84                | 7992                 | 50           | -      | 63,36 €        |
| RBS8382/L   | 50,00         | 22,40          | 2,00           | 3,60              | 2,40                | 5256                 | 50           | -      | 53,92 €        |
| RBS8383/L   | 50,00         | 22,40          | 2,50           | 3,90              | 2,85                | 8482                 | 50           | -      | 53,92 €        |
| RBS8384/L   | 50,00         | 25,40          | 2,00           | 3,40              | 2,35                | 4805                 | 50           | -      | 58,21 €        |
| RBS8385/L   | 50,00         | 25,40          | 2,50           | 3,90              | 2,85                | 9169                 | 50           | -      | 53,92 €        |
| RBS8386/L   | 50,00         | 25,40          | 3,00           | 4,10              | 3,27                | 12101                | 50           | -      | 63,36 €        |
| RBS8393/L   | 56,00         | 28,50          | 2,00           | 3,60              | 2,40                | 4511                 | 50           | ✓      | 77,40 €        |
| RBS8394/L   | 56,00         | 28,50          | 3,00           | 4,30              | 3,32                | 11523                | 50           | -      | 106,98 €       |
| RBS8400/L   | 60,00         | 25,50          | 2,50           | 4,40              | 3,00                | 8267                 | 50           | -      | 100,18 €       |
| RBS8401/L   | 60,00         | 25,50          | 3,00           | 4,65              | 3,41                | 11866                | 50           | -      | 118,40 €       |
| RBS8402/L   | 60,00         | 30,50          | 3,00           | 4,70              | 3,40                | 13386                | 50           | -      | 118,40 €       |
| RBS8403/L   | 60,00         | 30,50          | 3,50           | 5,00              | 3,87                | 18319                | 50           | ✓      | 132,10 €       |
| RBS8405/L   | 63,00         | 31,00          | 3,50           | 4,90              | 3,85                | 15200                | 50           | -      | 142,35 €       |
| RBS8414/L   | 70,00         | 35,50          | 3,00           | 5,10              | 3,50                | 12454                | 50           | -      | 153,28 €       |
| RBS8415/L   | 70,00         | 35,50          | 4,00           | 5,80              | 4,45                | 24173                | 50           | -      | 232,06 €       |

\*Depending on availability - Dimensions in mm

## Our other products



PTA100  
Articulated levelling  
foot, pressed base  
Ø100, Ø 100



M2  
Worm and wheel set,  
Hardened steel



PSG125  
Spur gear - precision  
range, Pre-hardened  
Steel 35NCD6



gt64  
Rotating bent lever,  
Common applications



MBF  
Threaded blocking  
clamp, Threaded  
locking clamp



PTAf80-PAMF80  
Articulated fixable  
foot with pressed  
base Ø80, Ø 80



ZG0  
Plastic spur gear,  
Machined plastic  
(delrin)



FBL6000\_K1  
Brush strip per meter  
PA6 fibres Ø0.2 to  
Ø0.3, Black polyamide  
6 -...



PP50  
Worm and wheel gear  
reducer, from 6.50 to



ZG4  
Plastic spur gear,  
Machined plastic



BPHR  
Ball transfer unit  
housed spring loaded,



FIRSTDC1Q60  
Speed controller 10A,  
10 A

## Complementary products



R206  
Die spring ISO10243,  
Extra-heavy



R205  
Die spring ISO10243,  
Heavy



R204  
Die spring ISO10243,  
Average



R203  
Die spring ISO10243,  
Light