



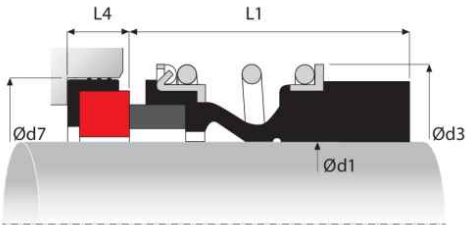
## Mechanical Seal type BBB

### Characteristics

Type: BBB

Size table:

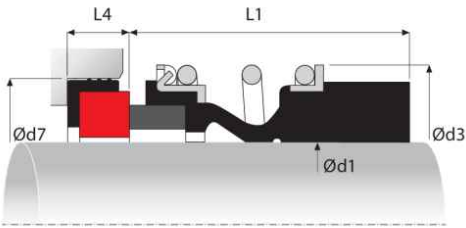
| d1 | d7 | d3   | l1   | l4   |
|----|----|------|------|------|
| mm | mm | mm   | mm   | mm   |
| 10 | 21 | 20   | 33.4 | 6.6  |
| 12 | 23 | 24.3 | 33.4 | 6.6  |
| 14 | 25 | 28.5 | 33.4 | 6.6  |
| 15 | 27 | 28.5 | 33.4 | 6.6  |
| 16 | 27 | 28.5 | 33.4 | 6.6  |
| 18 | 33 | 31   | 37.5 | 7.5  |
| 20 | 35 | 36.5 | 37.5 | 7.5  |
| 22 | 37 | 36.5 | 37.5 | 7.5  |
| 24 | 39 | 41.1 | 42.5 | 7.5  |
| 25 | 40 | 41.1 | 42.5 | 7.5  |
| 28 | 43 | 47.6 | 42.5 | 7.5  |
| 30 | 45 | 47.6 | 42.5 | 7.5  |
| 32 | 48 | 51   | 47.5 | 7.5  |
| 33 | 48 | 51   | 47.5 | 7.5  |
| 35 | 50 | 54.5 | 47.5 | 7.5  |
| 38 | 56 | 57.9 | 46   | 9    |
| 40 | 58 | 60   | 46   | 9    |
| 43 | 61 | 63.8 | 51   | 9    |
| 45 | 63 | 65.7 | 51   | 9    |
| 48 | 66 | 69.3 | 51   | 9    |
| 50 | 70 | 71.8 | 50.5 | 9.5  |
| 53 | 73 | 76   | 59   | 11   |
| 55 | 75 | 78.3 | 59   | 11   |
| 58 | 78 | 82.5 | 59   | 11   |
| 60 | 80 | 85.5 | 59   | 11   |
| 65 | 85 | 90.3 | 69   | 11   |
| 68 | 90 | 94   | 68.7 | 11.3 |
| 70 | 92 | 97   | 68.7 | 11.3 |
| 75 | 97 | 102  | 68.7 | 11.3 |



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Size table:

| d1  | d7  | d3    | l1 | l4 |
|-----|-----|-------|----|----|
| 80  | 105 | 109.5 | 78 | 12 |
| 85  | 110 | 116.7 | 76 | 14 |
| 90  | 115 | 122.3 | 76 | 14 |
| 95  | 120 | 127.6 | 76 | 14 |
| 100 | 125 | 132   | 76 | 14 |



| Secondary seal material | Sliding ring material | Countersliding ring material | Direction of rotation right | d1 | d7 | d3   | l1   | l4  | Article                        |
|-------------------------|-----------------------|------------------------------|-----------------------------|----|----|------|------|-----|--------------------------------|
|                         |                       |                              |                             | mm | mm | mm   | mm   | mm  | Max. 200 articles in the table |
| EPDM                    | Carbon                | Siliciumcarbide              | Yes                         | 10 | 21 | 20   | 33.4 | 6.6 | 12411575                       |
| EPDM                    | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 10 | 21 | 20   | 33.4 | 6.6 | 12411576                       |
| FKM                     | Carbon                | Siliciumcarbide              | Yes                         | 10 | 21 | 20   | 33.4 | 6.6 | 12411579                       |
| FKM                     | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 10 | 21 | 20   | 33.4 | 6.6 | 12411580                       |
| NBR                     | Carbon                | Siliciumcarbide              | Yes                         | 10 | 21 | 20   | 33.4 | 6.6 | 12411577                       |
| NBR                     | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 10 | 21 | 20   | 33.4 | 6.6 | 12411578                       |
| EPDM                    | Carbon                | Siliciumcarbide              | Yes                         | 12 | 23 | 24.3 | 33.4 | 6.6 | 12411970                       |
| EPDM                    | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 12 | 23 | 24.3 | 33.4 | 6.6 | 12411971                       |
| FKM                     | Carbon                | Siliciumcarbide              | Yes                         | 12 | 23 | 24.3 | 33.4 | 6.6 | 12407304                       |
| FKM                     | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 12 | 23 | 24.3 | 33.4 | 6.6 | 12411974                       |
| NBR                     | Carbon                | Siliciumcarbide              | Yes                         | 12 | 23 | 24.3 | 33.4 | 6.6 | 12411972                       |
| NBR                     | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 12 | 23 | 24.3 | 33.4 | 6.6 | 12411973                       |
| EPDM                    | Carbon                | Siliciumcarbide              | Yes                         | 14 | 25 | 28.5 | 33.4 | 6.6 | 12412502                       |
| EPDM                    | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 14 | 25 | 28.5 | 33.4 | 6.6 | 12412503                       |
| FKM                     | Carbon                | Siliciumcarbide              | Yes                         | 14 | 25 | 28.5 | 33.4 | 6.6 | 12412506                       |
| FKM                     | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 14 | 25 | 28.5 | 33.4 | 6.6 | 12412507                       |
| NBR                     | Carbon                | Siliciumcarbide              | Yes                         | 14 | 25 | 28.5 | 33.4 | 6.6 | 12412504                       |
| NBR                     | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 14 | 25 | 28.5 | 33.4 | 6.6 | 12412505                       |
| EPDM                    | Carbon                | Siliciumcarbide              | Yes                         | 15 | 27 | 28.5 | 33.4 | 6.6 | 12412849                       |
| EPDM                    | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 15 | 27 | 28.5 | 33.4 | 6.6 | 12412850                       |
| FKM                     | Carbon                | Siliciumcarbide              | Yes                         | 15 | 27 | 28.5 | 33.4 | 6.6 | 12412853                       |
| FKM                     | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 15 | 27 | 28.5 | 33.4 | 6.6 | 12412854                       |
| NBR                     | Carbon                | Siliciumcarbide              | Yes                         | 15 | 27 | 28.5 | 33.4 | 6.6 | 12412851                       |
| NBR                     | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 15 | 27 | 28.5 | 33.4 | 6.6 | 12412852                       |
| EPDM                    | Carbon                | Siliciumcarbide              | Yes                         | 16 | 27 | 28.5 | 33.4 | 6.6 | 12413273                       |
| EPDM                    | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 16 | 27 | 28.5 | 33.4 | 6.6 | 12413274                       |
| FKM                     | Carbon                | Siliciumcarbide              | Yes                         | 16 | 27 | 28.5 | 33.4 | 6.6 | 12413277                       |
| FKM                     | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 16 | 27 | 28.5 | 33.4 | 6.6 | 12413278                       |
| NBR                     | Carbon                | Siliciumcarbide              | Yes                         | 16 | 27 | 28.5 | 33.4 | 6.6 | 12413275                       |
| NBR                     | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 16 | 27 | 28.5 | 33.4 | 6.6 | 12413276                       |
| EPDM                    | Carbon                | Siliciumcarbide              | Yes                         | 18 | 33 | 31   | 37.5 | 7.5 | 12413725                       |
| EPDM                    | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 18 | 33 | 31   | 37.5 | 7.5 | 12413726                       |
| FKM                     | Carbon                | Siliciumcarbide              | Yes                         | 18 | 33 | 31   | 37.5 | 7.5 | 12413729                       |
| FKM                     | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 18 | 33 | 31   | 37.5 | 7.5 | 12413730                       |
| NBR                     | Carbon                | Siliciumcarbide              | Yes                         | 18 | 33 | 31   | 37.5 | 7.5 | 12413727                       |
| NBR                     | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 18 | 33 | 31   | 37.5 | 7.5 | 12413728                       |

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| Secondary seal material        | Sliding ring material | Countersliding ring material | Direction of rotation right | d1 | d7 | d3   | l1   | l4  | Article  |
|--------------------------------|-----------------------|------------------------------|-----------------------------|----|----|------|------|-----|----------|
| Max. 200 articles in the table |                       |                              |                             |    |    |      |      |     |          |
| mm                             | mm                    | mm                           | mm                          | mm | mm | mm   | mm   | mm  |          |
| EPDM                           | Carbon                | Siliciumcarbide              | Yes                         | 20 | 35 | 36.5 | 37.5 | 7.5 | 12414294 |
| EPDM                           | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 20 | 35 | 36.5 | 37.5 | 7.5 | 12414295 |
| FKM                            | Carbon                | Siliciumcarbide              | Yes                         | 20 | 35 | 36.5 | 37.5 | 7.5 | 12414298 |
| FKM                            | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 20 | 35 | 36.5 | 37.5 | 7.5 | 12414299 |
| NBR                            | Carbon                | Siliciumcarbide              | Yes                         | 20 | 35 | 36.5 | 37.5 | 7.5 | 12414296 |
| NBR                            | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 20 | 35 | 36.5 | 37.5 | 7.5 | 12414297 |
| EPDM                           | Carbon                | Siliciumcarbide              | Yes                         | 22 | 37 | 36.5 | 37.5 | 7.5 | 12414743 |
| EPDM                           | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 22 | 37 | 36.5 | 37.5 | 7.5 | 12414744 |
| FKM                            | Carbon                | Siliciumcarbide              | Yes                         | 22 | 37 | 36.5 | 37.5 | 7.5 | 12414747 |
| FKM                            | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 22 | 37 | 36.5 | 37.5 | 7.5 | 12414748 |
| NBR                            | Carbon                | Siliciumcarbide              | Yes                         | 22 | 37 | 36.5 | 37.5 | 7.5 | 12414745 |
| NBR                            | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 22 | 37 | 36.5 | 37.5 | 7.5 | 12414746 |
| EPDM                           | Carbon                | Siliciumcarbide              | Yes                         | 24 | 39 | 41.1 | 42.5 | 7.5 | 12415259 |
| EPDM                           | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 24 | 39 | 41.1 | 42.5 | 7.5 | 12415260 |
| FKM                            | Carbon                | Siliciumcarbide              | Yes                         | 24 | 39 | 41.1 | 42.5 | 7.5 | 12415263 |
| FKM                            | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 24 | 39 | 41.1 | 42.5 | 7.5 | 12415264 |
| NBR                            | Carbon                | Siliciumcarbide              | Yes                         | 24 | 39 | 41.1 | 42.5 | 7.5 | 12415261 |
| NBR                            | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 24 | 39 | 41.1 | 42.5 | 7.5 | 12415262 |
| EPDM                           | Carbon                | Siliciumcarbide              | Yes                         | 25 | 40 | 41.1 | 42.5 | 7.5 | 12415662 |
| EPDM                           | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 25 | 40 | 41.1 | 42.5 | 7.5 | 12415663 |
| FKM                            | Carbon                | Siliciumcarbide              | Yes                         | 25 | 40 | 41.1 | 42.5 | 7.5 | 12415666 |
| FKM                            | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 25 | 40 | 41.1 | 42.5 | 7.5 | 12415667 |
| NBR                            | Carbon                | Siliciumcarbide              | Yes                         | 25 | 40 | 41.1 | 42.5 | 7.5 | 12415664 |
| NBR                            | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 25 | 40 | 41.1 | 42.5 | 7.5 | 12415665 |
| EPDM                           | Carbon                | Siliciumcarbide              | Yes                         | 28 | 43 | 47.6 | 42.5 | 7.5 | 12394669 |
| EPDM                           | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 28 | 43 | 47.6 | 42.5 | 7.5 | 12134107 |
| FKM                            | Carbon                | Siliciumcarbide              | Yes                         | 28 | 43 | 47.6 | 42.5 | 7.5 | 12416159 |
| FKM                            | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 28 | 43 | 47.6 | 42.5 | 7.5 | 12416160 |
| NBR                            | Carbon                | Siliciumcarbide              | Yes                         | 28 | 43 | 47.6 | 42.5 | 7.5 | 12416157 |
| NBR                            | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 28 | 43 | 47.6 | 42.5 | 7.5 | 12416158 |
| EPDM                           | Carbon                | Siliciumcarbide              | Yes                         | 30 | 45 | 47.6 | 42.5 | 7.5 | 12416687 |
| EPDM                           | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 30 | 45 | 47.6 | 42.5 | 7.5 | 12416688 |
| FKM                            | Carbon                | Siliciumcarbide              | Yes                         | 30 | 45 | 47.6 | 42.5 | 7.5 | 12416691 |
| FKM                            | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 30 | 45 | 47.6 | 42.5 | 7.5 | 12416692 |
| NBR                            | Carbon                | Siliciumcarbide              | Yes                         | 30 | 45 | 47.6 | 42.5 | 7.5 | 12416689 |
| NBR                            | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 30 | 45 | 47.6 | 42.5 | 7.5 | 12416690 |
| EPDM                           | Carbon                | Siliciumcarbide              | Yes                         | 32 | 48 | 51   | 47.5 | 7.5 | 12417158 |
| EPDM                           | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 32 | 48 | 51   | 47.5 | 7.5 | 12387483 |
| FKM                            | Carbon                | Siliciumcarbide              | Yes                         | 32 | 48 | 51   | 47.5 | 7.5 | 12417161 |
| FKM                            | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 32 | 48 | 51   | 47.5 | 7.5 | 12417162 |
| NBR                            | Carbon                | Siliciumcarbide              | Yes                         | 32 | 48 | 51   | 47.5 | 7.5 | 12417159 |
| NBR                            | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 32 | 48 | 51   | 47.5 | 7.5 | 12417160 |
| EPDM                           | Carbon                | Siliciumcarbide              | Yes                         | 33 | 48 | 51   | 47.5 | 7.5 | 12417560 |
| EPDM                           | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 33 | 48 | 51   | 47.5 | 7.5 | 12417561 |
| FKM                            | Carbon                | Siliciumcarbide              | Yes                         | 33 | 48 | 51   | 47.5 | 7.5 | 12417564 |
| FKM                            | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 33 | 48 | 51   | 47.5 | 7.5 | 12417565 |
| NBR                            | Carbon                | Siliciumcarbide              | Yes                         | 33 | 48 | 51   | 47.5 | 7.5 | 12417562 |
| NBR                            | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 33 | 48 | 51   | 47.5 | 7.5 | 12417563 |
| EPDM                           | Carbon                | Siliciumcarbide              | Yes                         | 35 | 50 | 54.5 | 47.5 | 7.5 | 12418015 |
| EPDM                           | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 35 | 50 | 54.5 | 47.5 | 7.5 | 12418016 |
| FKM                            | Carbon                | Siliciumcarbide              | Yes                         | 35 | 50 | 54.5 | 47.5 | 7.5 | 12418019 |
| FKM                            | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 35 | 50 | 54.5 | 47.5 | 7.5 | 12418020 |

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| Secondary seal material | Sliding ring material | Countersliding ring material | Direction of rotation right | d1 | d7 | d3   | l1   | l4  | Article                        |
|-------------------------|-----------------------|------------------------------|-----------------------------|----|----|------|------|-----|--------------------------------|
|                         |                       |                              |                             | mm | mm | mm   | mm   | mm  | Max. 200 articles in the table |
| NBR                     | Carbon                | Siliciumcarbide              | Yes                         | 35 | 50 | 54.5 | 47.5 | 7.5 | 12418017                       |
| NBR                     | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 35 | 50 | 54.5 | 47.5 | 7.5 | 12418018                       |
| EPDM                    | Carbon                | Siliciumcarbide              | Yes                         | 38 | 56 | 57.9 | 46   | 9   | 12418436                       |
| EPDM                    | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 38 | 56 | 57.9 | 46   | 9   | 12307390                       |
| FKM                     | Carbon                | Siliciumcarbide              | Yes                         | 38 | 56 | 57.9 | 46   | 9   | 12418439                       |
| FKM                     | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 38 | 56 | 57.9 | 46   | 9   | 12340968                       |
| NBR                     | Carbon                | Siliciumcarbide              | Yes                         | 38 | 56 | 57.9 | 46   | 9   | 12418437                       |
| NBR                     | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 38 | 56 | 57.9 | 46   | 9   | 12418438                       |
| EPDM                    | Carbon                | Siliciumcarbide              | Yes                         | 40 | 58 | 60   | 46   | 9   | 12418905                       |
| EPDM                    | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 40 | 58 | 60   | 46   | 9   | 12418906                       |
| FKM                     | Carbon                | Siliciumcarbide              | Yes                         | 40 | 58 | 60   | 46   | 9   | 12418909                       |
| FKM                     | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 40 | 58 | 60   | 46   | 9   | 12418910                       |
| NBR                     | Carbon                | Siliciumcarbide              | Yes                         | 40 | 58 | 60   | 46   | 9   | 12418907                       |
| NBR                     | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 40 | 58 | 60   | 46   | 9   | 12418908                       |
| EPDM                    | Carbon                | Siliciumcarbide              | Yes                         | 43 | 61 | 63.8 | 51   | 9   | 12419348                       |
| EPDM                    | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 43 | 61 | 63.8 | 51   | 9   | 12419349                       |
| FKM                     | Carbon                | Siliciumcarbide              | Yes                         | 43 | 61 | 63.8 | 51   | 9   | 12419352                       |
| FKM                     | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 43 | 61 | 63.8 | 51   | 9   | 12419353                       |
| NBR                     | Carbon                | Siliciumcarbide              | Yes                         | 43 | 61 | 63.8 | 51   | 9   | 12419350                       |
| NBR                     | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 43 | 61 | 63.8 | 51   | 9   | 12419351                       |
| EPDM                    | Carbon                | Siliciumcarbide              | Yes                         | 45 | 63 | 65.7 | 51   | 9   | 12419809                       |
| EPDM                    | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 45 | 63 | 65.7 | 51   | 9   | 12419810                       |
| FKM                     | Carbon                | Siliciumcarbide              | Yes                         | 45 | 63 | 65.7 | 51   | 9   | 12419813                       |
| FKM                     | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 45 | 63 | 65.7 | 51   | 9   | 12419814                       |
| NBR                     | Carbon                | Siliciumcarbide              | Yes                         | 45 | 63 | 65.7 | 51   | 9   | 12419811                       |
| NBR                     | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 45 | 63 | 65.7 | 51   | 9   | 12419812                       |
| EPDM                    | Carbon                | Siliciumcarbide              | Yes                         | 48 | 66 | 69.3 | 51   | 9   | 12420202                       |
| EPDM                    | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 48 | 66 | 69.3 | 51   | 9   | 12359635                       |
| FKM                     | Carbon                | Siliciumcarbide              | Yes                         | 48 | 66 | 69.3 | 51   | 9   | 12420205                       |
| FKM                     | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 48 | 66 | 69.3 | 51   | 9   | 12420206                       |
| NBR                     | Carbon                | Siliciumcarbide              | Yes                         | 48 | 66 | 69.3 | 51   | 9   | 12420203                       |
| NBR                     | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 48 | 66 | 69.3 | 51   | 9   | 12420204                       |
| EPDM                    | Carbon                | Siliciumcarbide              | Yes                         | 50 | 70 | 71.8 | 50.5 | 9.5 | 12420536                       |
| EPDM                    | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 50 | 70 | 71.8 | 50.5 | 9.5 | 12420537                       |
| FKM                     | Carbon                | Siliciumcarbide              | Yes                         | 50 | 70 | 71.8 | 50.5 | 9.5 | 12420540                       |
| FKM                     | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 50 | 70 | 71.8 | 50.5 | 9.5 | 12420541                       |
| NBR                     | Carbon                | Siliciumcarbide              | Yes                         | 50 | 70 | 71.8 | 50.5 | 9.5 | 12420538                       |
| NBR                     | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 50 | 70 | 71.8 | 50.5 | 9.5 | 12420539                       |
| EPDM                    | Carbon                | Siliciumcarbide              | Yes                         | 53 | 73 | 76   | 59   | 11  | 12420922                       |
| EPDM                    | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 53 | 73 | 76   | 59   | 11  | 12420923                       |
| FKM                     | Carbon                | Siliciumcarbide              | Yes                         | 53 | 73 | 76   | 59   | 11  | 12420926                       |
| FKM                     | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 53 | 73 | 76   | 59   | 11  | 12420927                       |
| NBR                     | Carbon                | Siliciumcarbide              | Yes                         | 53 | 73 | 76   | 59   | 11  | 12420924                       |
| NBR                     | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 53 | 73 | 76   | 59   | 11  | 12420925                       |
| EPDM                    | Carbon                | Siliciumcarbide              | Yes                         | 55 | 75 | 78.3 | 59   | 11  | 12421317                       |
| EPDM                    | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 55 | 75 | 78.3 | 59   | 11  | 12421318                       |
| FKM                     | Carbon                | Siliciumcarbide              | Yes                         | 55 | 75 | 78.3 | 59   | 11  | 12421321                       |
| FKM                     | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 55 | 75 | 78.3 | 59   | 11  | 12421322                       |
| NBR                     | Carbon                | Siliciumcarbide              | Yes                         | 55 | 75 | 78.3 | 59   | 11  | 12421319                       |
| NBR                     | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 55 | 75 | 78.3 | 59   | 11  | 12421320                       |
| EPDM                    | Carbon                | Siliciumcarbide              | Yes                         | 58 | 78 | 82.5 | 59   | 11  | 12421680                       |
| EPDM                    | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 58 | 78 | 82.5 | 59   | 11  | 12421681                       |

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| Secondary seal material | Sliding ring material | Countersliding ring material | Direction of rotation right | d1 | d7  | d3    | l1   | l4   | Article  |
|-------------------------|-----------------------|------------------------------|-----------------------------|----|-----|-------|------|------|----------|
|                         |                       |                              |                             | mm | mm  | mm    | mm   | mm   |          |
| FKM                     | Carbon                | Siliciumcarbide              | Yes                         | 58 | 78  | 82.5  | 59   | 11   | 12421684 |
| FKM                     | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 58 | 78  | 82.5  | 59   | 11   | 12421685 |
| NBR                     | Carbon                | Siliciumcarbide              | Yes                         | 58 | 78  | 82.5  | 59   | 11   | 12421682 |
| NBR                     | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 58 | 78  | 82.5  | 59   | 11   | 12421683 |
| EPDM                    | Carbon                | Siliciumcarbide              | Yes                         | 60 | 80  | 85.5  | 59   | 11   | 12422019 |
| EPDM                    | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 60 | 80  | 85.5  | 59   | 11   | 12422020 |
| FKM                     | Carbon                | Siliciumcarbide              | Yes                         | 60 | 80  | 85.5  | 59   | 11   | 12422023 |
| FKM                     | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 60 | 80  | 85.5  | 59   | 11   | 12422024 |
| NBR                     | Carbon                | Siliciumcarbide              | Yes                         | 60 | 80  | 85.5  | 59   | 11   | 12422021 |
| NBR                     | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 60 | 80  | 85.5  | 59   | 11   | 12422022 |
| EPDM                    | Carbon                | Siliciumcarbide              | Yes                         | 65 | 85  | 90.3  | 69   | 11   | 12422627 |
| EPDM                    | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 65 | 85  | 90.3  | 69   | 11   | 12422628 |
| FKM                     | Carbon                | Siliciumcarbide              | Yes                         | 65 | 85  | 90.3  | 69   | 11   | 12422631 |
| FKM                     | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 65 | 85  | 90.3  | 69   | 11   | 12422632 |
| NBR                     | Carbon                | Siliciumcarbide              | Yes                         | 65 | 85  | 90.3  | 69   | 11   | 12422629 |
| NBR                     | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 65 | 85  | 90.3  | 69   | 11   | 12422630 |
| EPDM                    | Carbon                | Siliciumcarbide              | Yes                         | 68 | 90  | 94    | 68.7 | 11.3 | 12422983 |
| EPDM                    | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 68 | 90  | 94    | 68.7 | 11.3 | 12422984 |
| FKM                     | Carbon                | Siliciumcarbide              | Yes                         | 68 | 90  | 94    | 68.7 | 11.3 | 12422987 |
| FKM                     | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 68 | 90  | 94    | 68.7 | 11.3 | 12422988 |
| NBR                     | Carbon                | Siliciumcarbide              | Yes                         | 68 | 90  | 94    | 68.7 | 11.3 | 12422985 |
| NBR                     | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 68 | 90  | 94    | 68.7 | 11.3 | 12422986 |
| EPDM                    | Carbon                | Siliciumcarbide              | Yes                         | 70 | 92  | 97    | 68.7 | 11.3 | 12423362 |
| EPDM                    | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 70 | 92  | 97    | 68.7 | 11.3 | 12423363 |
| FKM                     | Carbon                | Siliciumcarbide              | Yes                         | 70 | 92  | 97    | 68.7 | 11.3 | 12423366 |
| FKM                     | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 70 | 92  | 97    | 68.7 | 11.3 | 12423367 |
| NBR                     | Carbon                | Siliciumcarbide              | Yes                         | 70 | 92  | 97    | 68.7 | 11.3 | 12423364 |
| NBR                     | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 70 | 92  | 97    | 68.7 | 11.3 | 12423365 |
| EPDM                    | Carbon                | Siliciumcarbide              | Yes                         | 75 | 97  | 102   | 68.7 | 11.3 | 12423745 |
| EPDM                    | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 75 | 97  | 102   | 68.7 | 11.3 | 12423746 |
| FKM                     | Carbon                | Siliciumcarbide              | Yes                         | 75 | 97  | 102   | 68.7 | 11.3 | 12423749 |
| FKM                     | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 75 | 97  | 102   | 68.7 | 11.3 | 12423750 |
| NBR                     | Carbon                | Siliciumcarbide              | Yes                         | 75 | 97  | 102   | 68.7 | 11.3 | 12423747 |
| NBR                     | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 75 | 97  | 102   | 68.7 | 11.3 | 12423748 |
| EPDM                    | Carbon                | Siliciumcarbide              | Yes                         | 80 | 105 | 109.5 | 78   | 12   | 12424180 |
| EPDM                    | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 80 | 105 | 109.5 | 78   | 12   | 12424181 |
| FKM                     | Carbon                | Siliciumcarbide              | Yes                         | 80 | 105 | 109.5 | 78   | 12   | 12424184 |
| FKM                     | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 80 | 105 | 109.5 | 78   | 12   | 12424185 |
| NBR                     | Carbon                | Siliciumcarbide              | Yes                         | 80 | 105 | 109.5 | 78   | 12   | 12424182 |
| NBR                     | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 80 | 105 | 109.5 | 78   | 12   | 12424183 |
| EPDM                    | Carbon                | Siliciumcarbide              | Yes                         | 85 | 110 | 116.7 | 76   | 14   | 12424520 |
| EPDM                    | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 85 | 110 | 116.7 | 76   | 14   | 12424521 |
| FKM                     | Carbon                | Siliciumcarbide              | Yes                         | 85 | 110 | 116.7 | 76   | 14   | 12424524 |
| FKM                     | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 85 | 110 | 116.7 | 76   | 14   | 12424525 |
| NBR                     | Carbon                | Siliciumcarbide              | Yes                         | 85 | 110 | 116.7 | 76   | 14   | 12424522 |
| NBR                     | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 85 | 110 | 116.7 | 76   | 14   | 12424523 |
| EPDM                    | Carbon                | Siliciumcarbide              | Yes                         | 90 | 115 | 122.3 | 76   | 14   | 12424849 |
| EPDM                    | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 90 | 115 | 122.3 | 76   | 14   | 12424850 |
| FKM                     | Carbon                | Siliciumcarbide              | Yes                         | 90 | 115 | 122.3 | 76   | 14   | 12424853 |
| FKM                     | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 90 | 115 | 122.3 | 76   | 14   | 12424854 |
| NBR                     | Carbon                | Siliciumcarbide              | Yes                         | 90 | 115 | 122.3 | 76   | 14   | 12424851 |
| NBR                     | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 90 | 115 | 122.3 | 76   | 14   | 12424852 |

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| Secondary seal material | Sliding ring material | Countersliding ring material | Direction of rotation right | d1<br>mm | d7<br>mm | d3<br>mm | l1<br>mm | l4<br>mm | Article  |
|-------------------------|-----------------------|------------------------------|-----------------------------|----------|----------|----------|----------|----------|----------|
| EPDM                    | Carbon                | Siliciumcarbide              | Yes                         | 95       | 120      | 127.6    | 76       | 14       | 12425108 |
| EPDM                    | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 95       | 120      | 127.6    | 76       | 14       | 12425109 |
| FKM                     | Carbon                | Siliciumcarbide              | Yes                         | 95       | 120      | 127.6    | 76       | 14       | 12425112 |
| FKM                     | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 95       | 120      | 127.6    | 76       | 14       | 12425113 |
| NBR                     | Carbon                | Siliciumcarbide              | Yes                         | 95       | 120      | 127.6    | 76       | 14       | 12425110 |
| NBR                     | Siliciumcarbide       | Siliciumcarbide              | Yes                         | 95       | 120      | 127.6    | 76       | 14       | 12425111 |
| EPDM                    | Carbon                | Siliciumcarbide              | Yes                         | 100      | 125      | 132      | 76       | 14       | 12425446 |

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