

# Load ratings for rail guides (SF) per guiding carriage

| Linear unit/table |                  | Guide size<br>□ | "THK" version    |            |                        |                         | "Rexroth" ("Star") version |            |                         |
|-------------------|------------------|-----------------|------------------|------------|------------------------|-------------------------|----------------------------|------------|-------------------------|
|                   |                  |                 | Description<br>□ | Vsp<br>[N] | C <sub>50</sub><br>[N] | C <sub>DIN</sub><br>[N] | Description<br>□           | Vsp<br>[N] | C <sub>DIN</sub><br>[N] |
| <b>Alpha</b>      | <b>15-B</b>      | 15              | SHS15V           | 564        | 14200                  | <b>11271</b>            | R1622-123-20               | 620        | <b>9860</b>             |
|                   | <b>20-B</b>      | 20              | SHS20V           | 885        | 22300                  | <b>17700</b>            | R1622-823-20               | 1500       | <b>23400</b>            |
|                   | <b>30-B</b>      | 30              | SHS30V           | 1778       | 44800                  | <b>35558</b>            | R1622-723-20               | 2540       | <b>36500</b>            |
|                   | <b>35-B</b>      | 35L             | SHS35LC          | 2893       | 72900                  | <b>57861</b>            | R1653-323-20               | 4450       | <b>66700</b>            |
| <b>Beta</b>       | <b>40</b>        | 12              | SRS12M           | -          | 4000                   | <b>3175</b>             | 0442-212-01                | -          | <b>2310</b>             |
|                   | <b>60</b>        | 15              | SHS15V           | 564        | 14200                  | <b>11271</b>            | R1622-123-20               | 620        | <b>9860</b>             |
|                   | <b>70-C</b>      | 15              | SHS15V           | 564        | 14200                  | <b>11271</b>            | R1622-123-20               | 620        | <b>9860</b>             |
|                   | <b>80</b>        | 20              | SHS20V           | 885        | 22300                  | <b>17700</b>            | R1622-823-20               | 1500       | <b>23400</b>            |
|                   | <b>80-C</b>      | 25              | SHS25V           | 1258       | 31700                  | <b>25160</b>            | R1622-223-20               | 1820       | <b>28600</b>            |
|                   | <b>100</b>       | 20              | SHS20V           | 885        | 22300                  | <b>17700</b>            | R1622-823-20               | 1500       | <b>23400</b>            |
|                   | <b>100-D</b>     | 15              | SHS15V           | 564        | 14200                  | <b>11271</b>            | R1622-123-20               | 620        | <b>9860</b>             |
|                   | <b>110</b>       | 25              | SHS25V           | 1258       | 31700                  | <b>25160</b>            | R1622-223-20               | 1820       | <b>28600</b>            |
|                   | <b>120</b>       | 25              | SHS25V           | 1258       | 31700                  | <b>25160</b>            | R1622-223-20               | 1820       | <b>28600</b>            |
|                   | <b>120-C</b>     | 30              | SHS30V           | 1778       | 44800                  | <b>35558</b>            | R1622-723-20               | 2540       | <b>36500</b>            |
|                   | <b>140</b>       | 15              | SHS15V           | 564        | 14200                  | <b>11271</b>            | R1622-123-20               | 620        | <b>9860</b>             |
|                   | <b>140-C</b>     | 20              | SHS20V           | 885        | 22300                  | <b>17700</b>            | R1622-823-20               | 1500       | <b>23400</b>            |
|                   | <b>165</b>       | 35              | SHS35V           | 2472       | 62300                  | <b>49448</b>            | R1622-323-20               | 3350       | <b>51800</b>            |
|                   | <b>165-C-SSF</b> | 30L             | SHS30LV          | 2151       | 54200                  | <b>43019</b>            | R1623-723-20               | 3200       | <b>46000</b>            |
|                   | <b>180</b>       | 20              | SHS20V           | 885        | 22300                  | <b>17700</b>            | R1622-823-20               | 1500       | <b>23400</b>            |
|                   | <b>180-C</b>     | 25              | SHS25V           | 1258       | 31700                  | <b>25160</b>            | R1622-223-20               | 1820       | <b>28600</b>            |

Standard rail guide for all linear units/tables is "Rexroth" version

Vsp = Pretension (in % of dynamic load rating)

C<sub>50</sub> = Dynamic load rating for 50 km service life

C<sub>DIN</sub> = Dynamic load rating for 100 km service life (conversion:  $C_{DIN} = C_{50} \times 0.5^{1/3}$  or simplified  $C_{DIN} = C_{50} \times 0.79$ )

(In the "Rexroth" version, the carriages with the end number "-23" have a ball chain. => Lower load ratings than without ball chain "-20".)

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| Linear unit/table |         | Guide<br>size<br><br>□ | “THK” version        |      |                 |                  | “Rexroth” (“Star”) version |      |                  |
|-------------------|---------|------------------------|----------------------|------|-----------------|------------------|----------------------------|------|------------------|
|                   |         |                        | Description<br><br>□ | Vsp  | C <sub>50</sub> | C <sub>DIN</sub> | Description<br><br>□       | Vsp  | C <sub>DIN</sub> |
|                   |         |                        |                      | [N]  | [N]             | [N]              |                            | [N]  | [N]              |
| Delta             | 110-C   | 15                     | SHS15V               | 564  | 14200           | 11271            | R1622-123-20               | 620  | 9860             |
|                   | 145-C   | 20                     | SHS20V               | 885  | 22300           | 17700            | R1622-823-20               | 1500 | 23400            |
|                   | 200     | 25                     | SHS25V               | 1258 | 31700           | 25160            | R1622-223-20               | 1820 | 28600            |
|                   | 240(-C) | 25                     | SHS25V               | 1258 | 31700           | 25160            | R1622-223-20               | 1820 | 28600            |
| Gamma             | 90      | 15                     | SHS15V               | 564  | 14200           | 11271            | R1622-123-20               | 620  | 9860             |
|                   | 120     | 20                     | SHS20V               | 885  | 22300           | 17700            | R1622-823-20               | 1500 | 23400            |
|                   | 160     | 25                     | SHS25V               | 1258 | 31700           | 25160            | R1622-223-20               | 1820 | 28600            |
|                   | 220     | 25L                    | SHS25LV              | 1460 | 36800           | 29208            | R1623-223-20               | 2430 | 37300            |
|                   | 280     | 35                     | SHS35V               | 2472 | 62300           | 49448            | R1622-323-20               | 3350 | 51800            |

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