# SNS – Slimline, normal, standard height
# R1822 ... 2.

**Dynamic characteristics**

Travel speed: $v_{max}$ = 4 m/s

Acceleration: $a_{max}$ = 150 m/s$^2$

**Recommended combination based on preload and accuracy class**

- For preload C2: H and P (preferably)
- For preload C3: P and SP

## Material numbers

| Size | Roller Runner Block with size | Preload class | | Accuracy class | | | | Seals | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | C2 | C3 | H | P | SP | UP | DS | SS[1)] | AS |
| **25** | R1822 2 | 2 | | 3 | 2 | 1 | 9 | 2X | – | – |
| | | | 3 | | 2 | 1 | 9 | 2X | – | – |
| **35** | R1822 3 | 2 | | 3 | 2 | 1 | 9 | 2X | 24 | 2A |
| | | | 3 | | 2 | 1 | 9 | 2X | 24 | 2A |
| **45** | R1822 4 | 2 | | 3 | 2 | 1 | 9 | 2X | 24 | 2A |
| | | | 3 | | 2 | 1 | 9 | 2X | 24 | 2A |
| **55** | R1822 5 | 2 | | 3 | 2 | 1 | 9 | 2X | – | 2A |
| | | | 3 | | 2 | 1 | 9 | 2X | – | 2A |
| **65** | R1822 6 | 2 | | 3 | 2 | 1 | 9 | 2X | – | – |
| | | | 3 | | 2 | 1 | 9 | 2X | – | – |

**1)** In Preparation

## Technical data

| Size | Mass (kg) | Load capacities [1)] (N) | | Torsional moment load capacity[1)] (Nm) | | Longitudinal moment load capacity[1)] (Nm) | |
|---|---|---|---|---|---|---|---|
| | m | C | $C_0$ | $M_t$ | $M_{t0}$ | $M_L$ | $M_{L0}$ |
| **25** | 0.54 | 26900 | 59500 | 348 | 770 | 260 | 580 |
| **35** | 1.55 | 61000 | 119400 | 1210 | 2370 | 760 | 1480 |
| **45** | 2.90 | 106600 | 209400 | 2640 | 5180 | 1650 | 3,240 |
| **55** | 4.14 | 140400 | 284700 | 4120 | 8350 | 2610 | 5290 |
| **65** | 8.12 | 237200 | 456300 | 8430 | 16210 | 5260 | 10120 |

**2)** Determination of the dynamic load capacities and load moments is based on a stroke travel of 100,000 m according to DIN ISO 14728-1. However, often only 50,000 m is actually stipulated. For comparison: Multiply values C, $M_t$ and $M_L$ from the table by 1.23.

**Order example**

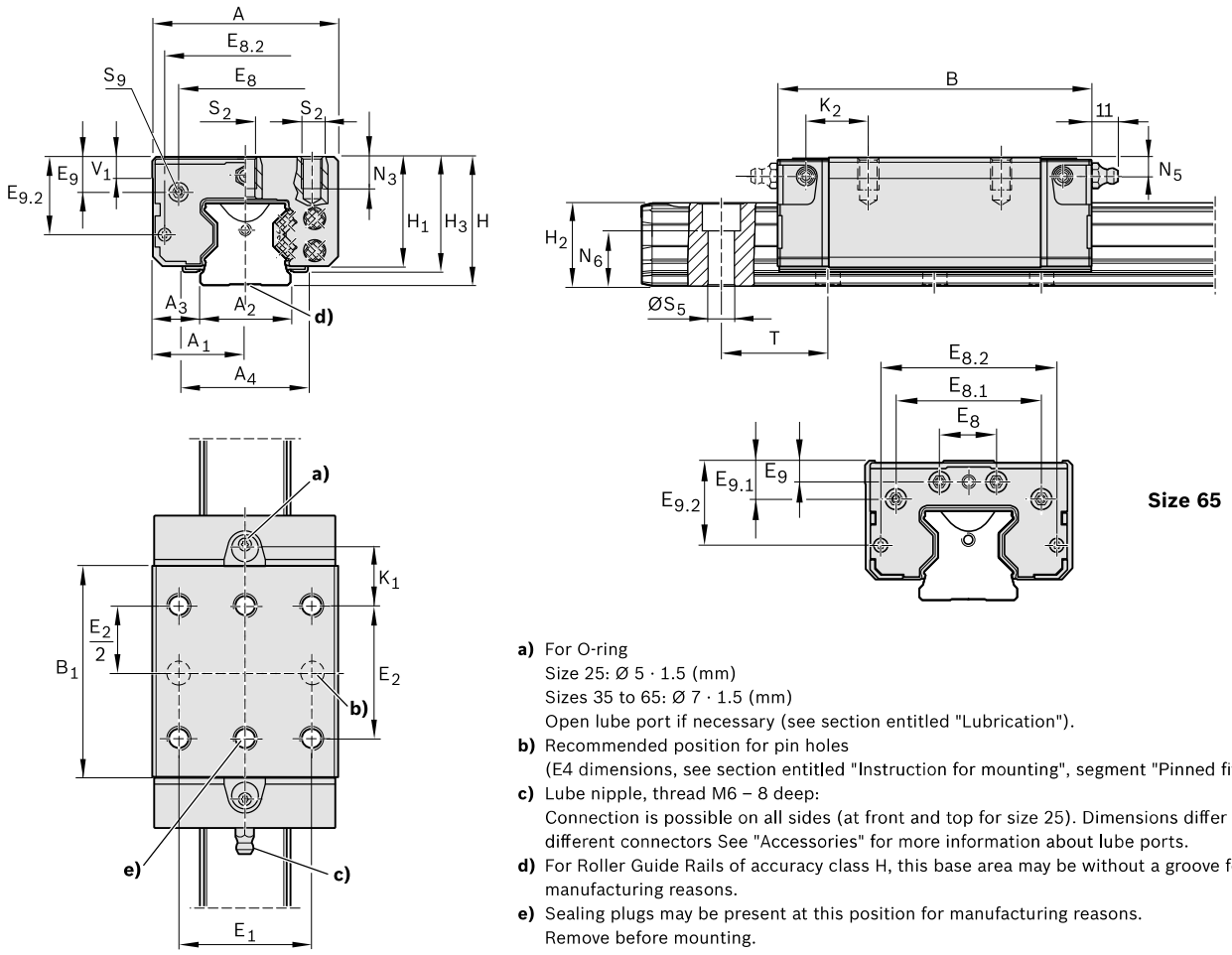
Options:

- Roller Runner Block SNS
- Size 35
- Preload class C2
- Accuracy class H
- With double-lip seal 2X

Material number: R1822 323 2X

**Preload classes**
C2 = Average preload
C3 = High preload
C1, C4, C5 upon request

**Seals**
DS = Double-lip seal
SS = Standard seal
AS = Longitudinal seal




**a)** For O-ring
Size 25: Ø 5 · 1.5 (mm)
Sizes 35 to 65: Ø 7 · 1.5 (mm)
Open lube port if necessary (see section entitled "Lubrication").

**b)** Recommended position for pin holes
(E4 dimensions, see section entitled "Instruction for mounting", segment "Pinned fitting").

**c)** Lube nipple, thread M6 – 8 deep:
Connection is possible on all sides (at front and top for size 25). Dimensions differ among different connectors See "Accessories" for more information about lube ports.

**d)** For Roller Guide Rails of accuracy class H, this base area may be without a groove for manufacturing reasons.

**e)** Sealing plugs may be present at this position for manufacturing reasons.
Remove before mounting.

## Dimensions (mm)

| Size | A | $A_1$ | $A_2$ | $A_3$ | $A_4$ [2)] | B | $B_1$ | $E_1$ | $E_2$ | $E_8$ | $E_{8.1}$ | $E_{8.2}$ | $E_9$ | $E_{9.1}$ | $E_{9.2}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **25** | 48 | 24 | 23 | 12.5 | – | 97.00 | 63.5 | 35 | 35 | 33.4 | – | 40.2 | 8.30 | – | 21.40 |
| **35** | 70 | 35 | 34 | 18.0 | 47.0 | 118.00 | 79.6 | 50 | 50 | 50.3 | – | 60.5 | 13.10 | – | 29.10 |
| **45** | 86 | 43 | 45 | 20.5 | 55.6 | 147.00 | 101.5 | 60 | 60 | 62.9 | – | 72.0 | 16.70 | – | 36.50 |
| **55** | 100 | 50 | 53 | 23.5 | 63.3 | 170.65 | 123.1 | 75 | 75 | 74.2 | – | 81.6 | 18.85 | – | 40.75 |
| **65** | 126 | 63 | 63 | 31.5 | – | 207.30 | 146.0 | 76 | 70 | 35.0 | 93.00 | 106.0 | 9.30 | 26.00 | 55.00 |

| Size | H | $H_1$ | $H_2$ [3)] | $H_2$ [4)] | $H_3$ [5)] | $K_1$ | $K_2$ | $N_3$ | $N_5$ | $N_6^{\pm 0.5}$ | $S_2$ | $S_5$ | $S_9$ [6)] | T [7)] | $V_1$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **25** | 36 | 30 | 23.60 | 23.40 | – | 19.05 | – | 8 | 5.5 | 14.3 | M6 | 7 | M3-6,5 deep | 30.0 | 7.5 |
| **35** | 48 | 41 | 31.10 | 30.80 | 43 | 21.55 | 23.40 | 12 | 7.0 | 19.4 | M8 | 9 | M3-6,0 deep | 40.0 | 8.0 |
| **45** | 60 | 51 | 39.10 | 38.80 | 53 | 27.45 | 30.35 | 18 | 8.0 | 22.4 | M10 | 14 | M4-9,0 deep | 52.5 | 10.0 |
| **55** | 70 | 58 | 47.85 | 47.55 | 60 | 31.75 | 34.90 | 17 | 9.0 | 28.7 | M12 | 16 | M5-8.0 deep | 60.0 | 12.0 |
| **65** | 90 | 76 | 58.15 | 57.85 | – | 50.00 | 53.00 | 21 | 9.3 | 36.5 | M16 | 18 | M4-8.0 deep | 75.0 | 15.0 |

**1)** Dimension $A_4$ = Width of the additional longitudinal seal
**2)** Dimension $H_2$ with cover strip
**3)** Dimension $H_2$ without cover strip
**4)** Dimension $H_3$ = Total Roller Runner Block including the additional longitudinal seal
**5)** Thread for connecting parts
**6)** T = Rail separation of the Roller Guide Rail