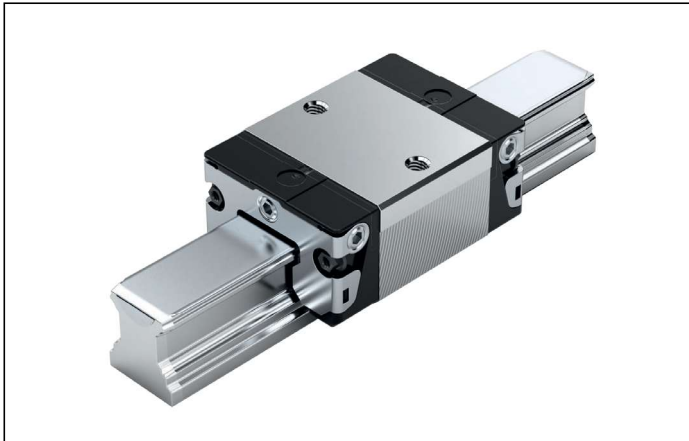


SKS – slimline short standard height R1666 ... 2.



Dynamic characteristics

Travel speed: $v_{\max} = 5 \text{ m/s}$

Acceleration: $a_{\max} = 500 \text{ m/s}^2$

(If $F_{\text{comb}} > 2.8 \cdot F_{\text{pr}}$: $a_{\max} = 50 \text{ m/s}^2$)

Note on lubrication

- ▶ Pre-lubricated

Note

For all SNS/SNO ball guide rails.

Options and part numbers

Size	Ball runner block with size	Preload class		Accuracy class		Seal with ball runner blocks					
		C0	C1	N	H	without ball chain			with ball chain		
						SS	LS	DS	SS	LS	DS
15	R1666 1	9		4	3	20	21	–	22	23	–
			1	4	3	20	21	–	22	23	–
20	R1666 8	9		4	3	20	21	–	22	23	–
			1	4	3	20	21	2Z	22	23	2Y
25	R1666 2	9		4	3	20	21	–	22	23	–
			1	4	3	20	21	2Z	22	23	2Y
30	R1666 7	9		4	3	20	21	–	22	23	–
			1	4	3	20	21	2Z	22	23	2Y
35	R1666 3	9		4	3	20	21	–	22	23	–
			1	4	3	20	21	2Z	22	23	2Y
e.g.	R1666 7		1		3	20					

Order example

Options:

- ▶ SKS ball runner block
- ▶ Size 30
- ▶ Preload class C1
- ▶ Accuracy class H
- ▶ With standard seal, without ball chain

Part number:

R1666 713 20

Preload classes

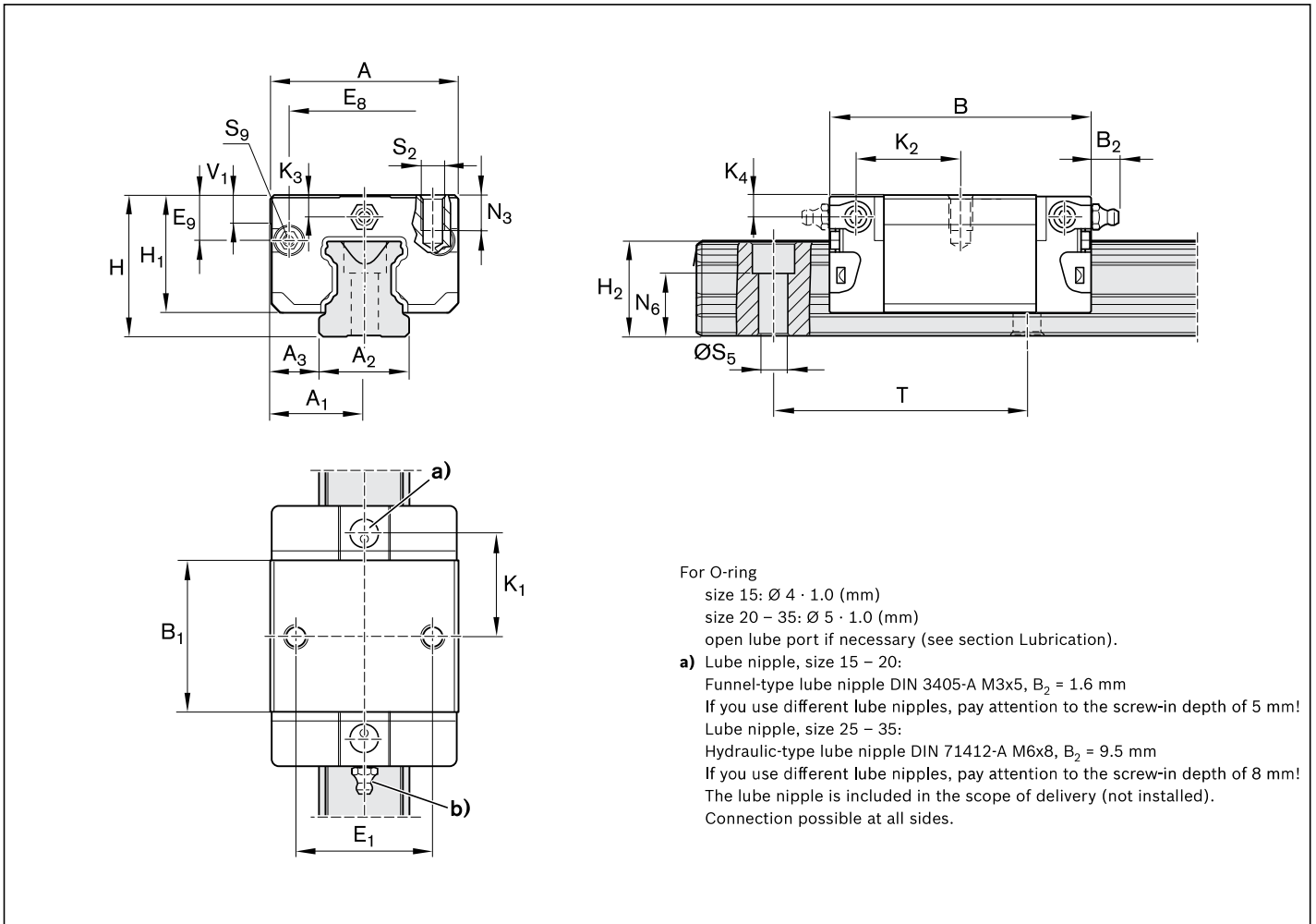
C0 = Without preload (clearance)
C1 = Moderate preload

Seals

SS = standard seal
LS = low-friction seal
DS = double-lipped seal

Key


Gray digits
= No preferred variant/combination
(Some delivery times may be longer)



For O-ring
 size 15: Ø 4 · 1.0 (mm)
 size 20 – 35: Ø 5 · 1.0 (mm)
 open lube port if necessary (see section Lubrication).
a) Lube nipple, size 15 – 20:
 Funnel-type lube nipple DIN 3405-A M3x5, B₂ = 1.6 mm
 If you use different lube nipples, pay attention to the screw-in depth of 5 mm!
 Lube nipple, size 25 – 35:
 Hydraulic-type lube nipple DIN 71412-A M6x8, B₂ = 9.5 mm
 If you use different lube nipples, pay attention to the screw-in depth of 8 mm!
 The lube nipple is included in the scope of delivery (not installed).
 Connection possible at all sides.

Size	Dimensions (mm)																	
	A	A ₁	A ₂	A ₃	B ^{+0.5}	B ₁	E ₁	E ₈	E ₉	H	H ₁	H ₂ ¹⁾	H ₂ ²⁾	K ₁	K ₂	K ₃	K ₄	
15	34	17	15	9.5	44.7	25.7	26	24.55	6.70	24	19.90	16.30	16.20	16.25	17.85	3.20	3.20	
20	44	22	20	12.0	57.3	31.9	32	32.50	7.30	30	25.35	20.75	20.55	22.95	22.95	3.35	3.35	
25	48	24	23	12.5	67.0	38.6	35	38.30	11.50	36	29.90	24.45	24.25	25.35	26.50	5.50	5.50	
30	60	30	28	16.0	75.3	45.0	40	48.40	14.60	42	35.35	28.55	28.35	28.80	30.50	6.05	6.05	
35	70	35	34	18.0	84.9	51.4	50	58.00	17.35	48	40.40	32.15	31.85	32.70	34.20	6.90	6.90	

Size	Dimensions (mm)								Weight (kg)	Load capacities ³⁾ (N)		Load moments ³⁾ (Nm)			
	N ₃	N ₆ ^{±0.5}	S ₂	S ₅	S ₉	T	V ₁	m		C	C ₀	M _t	M _{t0}	M _L	M _{L0}
15	6.0	10.3	M4	4.5	M2.5x3.5	60	5.0	0.10	6 720	7 340	65	71	29	32	
20	7.5	13.2	M5	6.0	M3x5	60	6.0	0.25	15 400	16 500	200	210	83	89	
25	9.0	15.2	M6	7.0	M3x5	60	7.5	0.35	19 800	21 200	280	300	130	140	
30	12.0	17.0	M8	9.0	M3x5	80	7.0	0.60	25 600	28 900	440	500	200	230	
35	13.0	20.5	M8	9.0	M3x5	80	8.0	0.90	36 600	49 300	790	1 060	340	460	

1) Dimension H₂ with cover strip
 2) Dimension H₂ without cover strip
 3) Load capacities and load moments for ball runner blocks **without** ball chain. Load capacities and load moments for ball runner blocks **with** ball chain.  12
 Determination of the dynamic load capacities and load moments is based on a 100,000 m travel life according to DIN ISO14728-1. Often only 50,000 m are actually stipulated. For comparison: Multiply values **C**, **M_t** and **M_L** by 1.26 according to the table.