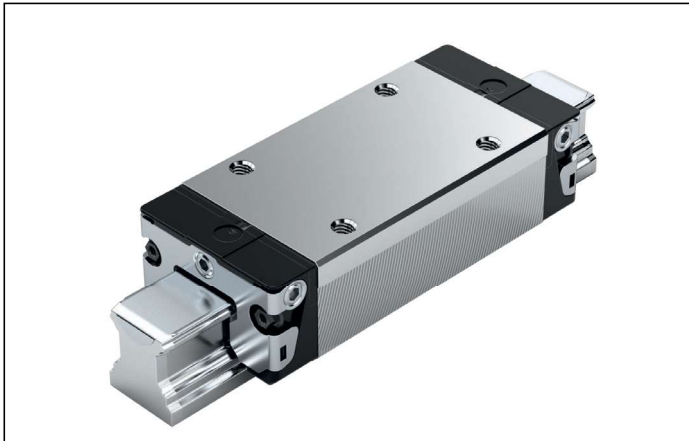


SLS – slimline, long, standard height R1623 ... 2.



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	C2	C3	N	H	P	XP	without ball chain			with ball chain			
										SS	LS ¹⁾	DS	SS	LS ¹⁾	DS	
15	R1623 1	9				4	3	–	–	20	21	–	22	23	–	–
			1			4	3	2	8	20	21	–	22	23	–	–
				2		–	3	2	8	20	21	–	22	23	–	–
					3	–	–	–	8	20	21	–	22	23	–	–
20	R1623 8	9				4	3	–	–	20	21	–	22	23	–	–
			1			4	3	2	8	20	21	2Z	22	23	2Y	–
				2		–	3	2	8	20	21	2Z	22	23	2Y	–
					3	–	–	–	8	20	21	2Z	22	23	2Y	–
25	R1623 2	9				4	3	–	–	20	21	–	22	23	–	–
			1			4	3	2	8	20	21	2Z	22	23	2Y	–
				2		–	3	2	8	20	21	2Z	22	23	2Y	–
					3	–	–	–	8	20	21	2Z	22	23	2Y	–
30	R1623 7	9				4	3	–	–	20	21	–	22	23	–	–
			1			4	3	2	8	20	21	2Z	22	23	2Y	–
				2		–	3	2	8	20	21	2Z	22	23	2Y	–
					3	–	–	–	8	20	21	2Z	22	23	2Y	–
35	R1623 3	9				4	3	–	–	20	21	–	22	23	–	–
			1			4	3	2	8	20	21	2Z	22	23	2Y	–
				2		–	3	2	8	20	21	2Z	22	23	2Y	–
					3	–	–	–	8	20	21	2Z	22	23	2Y	–
45	R1623 4	9				4	3	–	–	20	–	–	22	–	–	–
			1			4	3	2	8	20	–	2Z	22	–	2Y	–
				2		–	3	2	8	20	–	2Z	22	–	2Y	–
					3	–	–	–	8	20	–	2Z	22	–	2Y	–
e.g.	R1623 7		1				3			20						

1) With accuracy classes N and H and XP in preload class C1 only.

Order example

Options:

- SLS ball runner blocks
- Size 30
- Preload class C1
- Accuracy class H
- With standard seal, without ball chain

Part number:

R1623 713 20

Preload classes

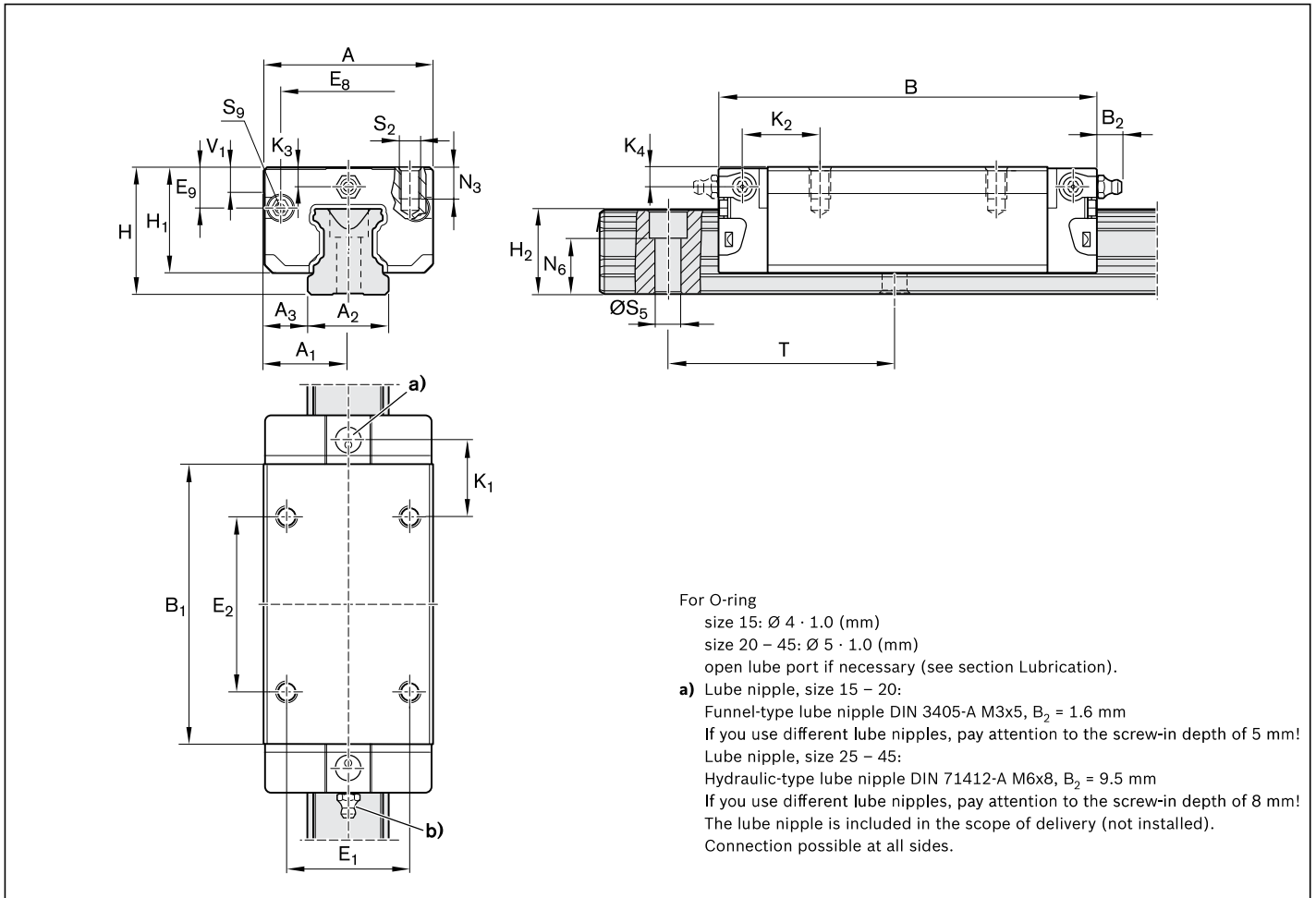
C0 = Without preload (clearance)
 C1 = Moderate preload
 C2 = Average preload
 C3 = High preload

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)

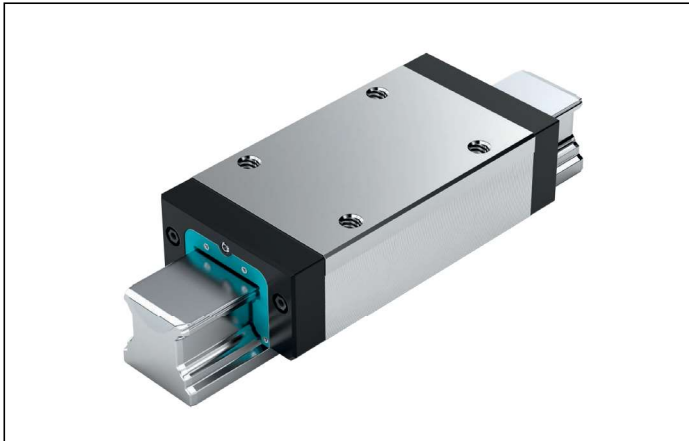


Size	Dimensions (mm)																	
	A	A ₁	A ₂	A ₃	B ^{+0.5}	B ₁	E ₁	E ₂	E ₈	E ₉	H	H ₁	H ₂ ¹⁾	H ₂ ²⁾	K ₁	K ₂	K ₃	K ₄
15	34	17	15	9.5	72.6	53.6	26	26	24.55	6.70	24	19.90	16.30	16.20	17.20	18.80	3.20	3.20
20	44	22	20	12.0	91.0	65.6	32	50	32.50	7.30	30	25.35	20.75	20.55	14.80	14.80	3.35	3.35
25	48	24	23	12.5	107.9	79.5	35	50	38.30	11.50	36	29.90	24.45	24.25	20.80	21.95	5.50	5.50
30	60	30	28	16.0	119.7	89.4	40	60	48.40	14.60	42	35.35	28.55	28.35	21.00	22.70	6.05	6.05
35	70	35	34	18.0	139.0	105.5	50	72	58.00	17.35	48	40.40	32.15	31.85	23.75	25.25	6.90	6.90
45	86	43	45	20.5	174.1	133.5	60	80	69.80	20.90	60	50.30	40.15	39.85	35.50	37.50	8.20	8.20

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	0.20	12 800	18 400	120	180	120	180		
20	7.5	13.2	M5	6.0	M3x5	60	6.0	0.45	29 600	41 800	380	540	340	490		
25	9.0	15.2	M6	7.0	M3x5	60	7.5	0.65	37 300	52 500	530	750	530	740		
30	12.0	17.0	M8	9.0	M3x5	80	7.0	1.10	46 000	66 900	800	1 160	740	1 080		
35	13.0	20.5	M8	9.0	M3x5	80	8.0	1.70	66 700	116 000	1 440	2 500	1 290	2 240		
45	18.0	23.5	M10	14.0	M4x7	105	10.0	3.20	111 000	190 000	3 010	5 120	2 730	4 660		

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.

SLS – slimline long standard height, R1623 ...1.



Dynamic characteristics

Travel speed: $v_{\max} = 3 \text{ m/s}$

Acceleration: $a_{\max} = 250 \text{ m/s}^2$

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

Note on lubrication

- ▶ Not pre-lubricated

Note

Can be used on all ball guide rails SNS.

Options and part numbers

Size	Ball runner block with size	Preload class				Accuracy class			Seal with ball runner blocks without ball chain
		C0	C1	C2	C3	N	H	P	
55	R1623 5	9				4	3	-	10
			1			4	3	2	10
				2		-	3	2	10
					3	-	-	2	10
65	R1623 6	9				4	3	-	10
			1			4	3	2	10
				2		-	3	2	10
					3	-	-	2	10
e.g.	R1623 5		1				3		10

Order example

Options:

- ▶ SLS ball runner blocks
- ▶ Size 55
- ▶ Preload class C1
- ▶ Accuracy class H
- ▶ With standard seal, without ball chain

Part number:

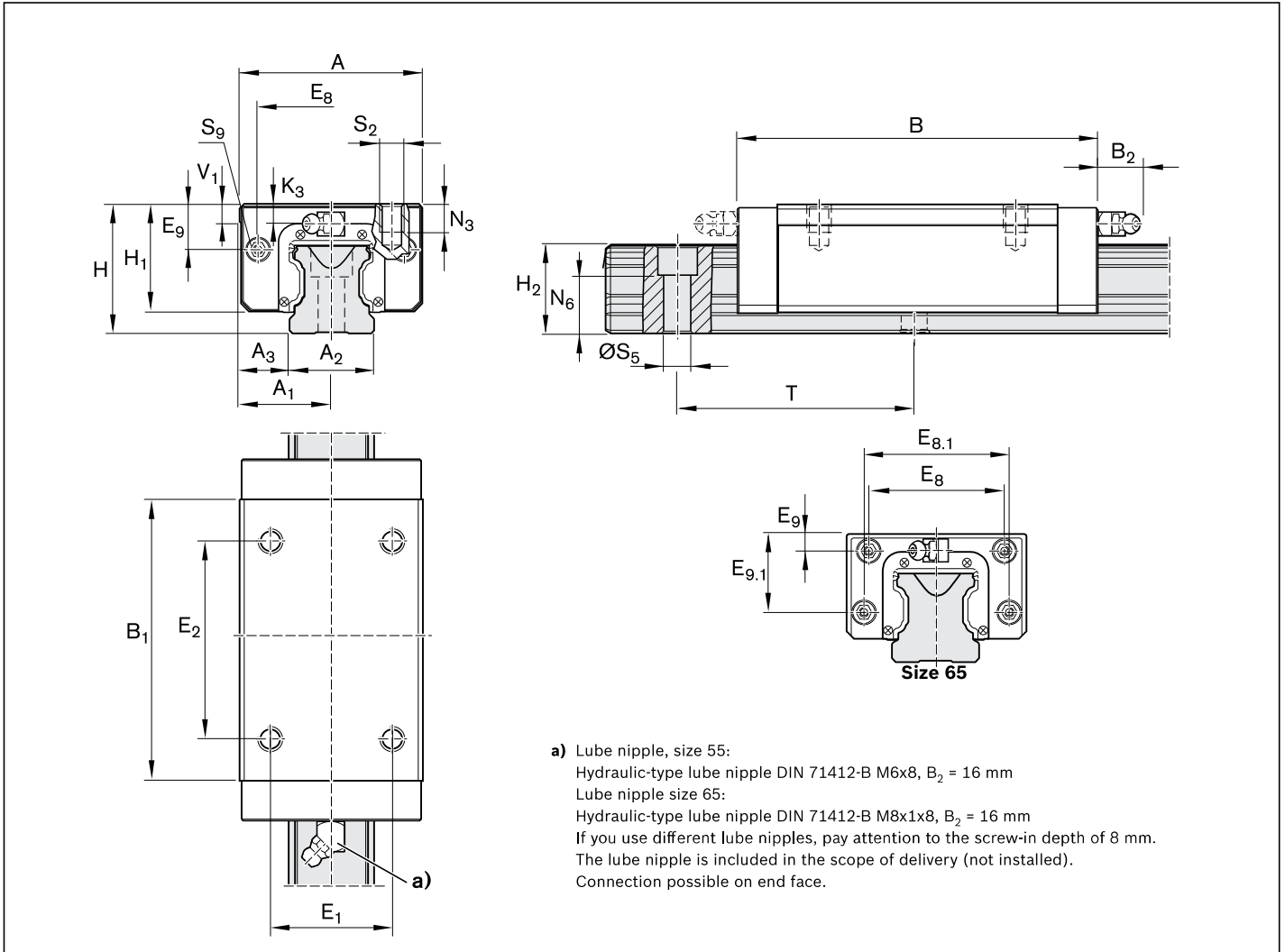
R1623 513 10

Preload classes

C0 = Without preload (clearance)
 C1 = Moderate preload
 C2 = Average preload
 C3 = High preload

Seals

SS = standard seal



Size	Dimensions (mm)														H	H ₁	H ₂ ¹⁾	H ₂ ²⁾
	A	A ₁	A ₂	A ₃	B ^{+0.5}	B ₁	E ₁	E ₂	E ₈	E _{8.1}	E ₉	E _{9.1}						
55	100	50	53	23.5	199	155.5	75	95	80	-	22.3	-	70	57	48.15	47.85		
65	126	63	63	31.5	243	194.6	76	120	76	100	11.0	53.5	90	76	60.15	59.85		

Size	Dimensions (mm)								Weight (kg)	Load capacities ³⁾ (N)		Load moments ³⁾ (Nm)			
	K ₃	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
55	9	19	29.0	M12	16	M5x8	120	12	4.8	139 000	245 000	4 410	7 780	3 960	6 990
65	16	21	38.5	M16	18	M4x7	150	15	9.8	223 000	404 000	8 810	16 000	8 160	14 800

- 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.
 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.