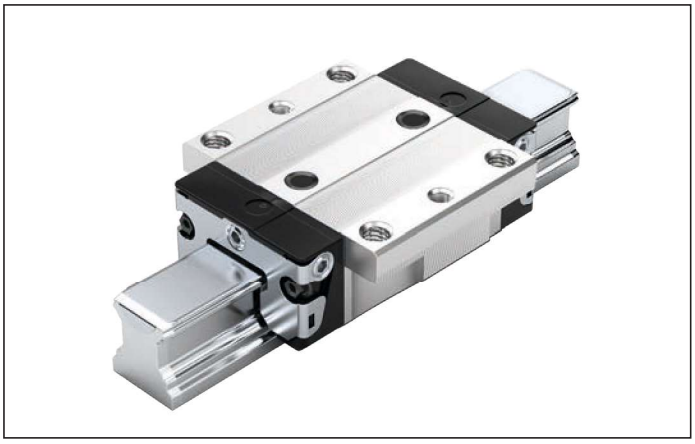
FNS – flanged, normal, standard height, R1631 ... 2.



R1631 ... 2.

Dynamic characteristics

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

Acceleration: a_{max} = 500 m/s²

(If $F_{comb} > 2.8 \cdot F_{pr}$: a_{max} = 50 m/s²)

Note on lubrication

- Pre-lubricated

Note

Can be used on all SNS ball guide rails.

Options/material numbers/technical data

Size	Ball runner blocks with size	Preload class		Accuracy class		Seals on ball runner blocks			
						without ball chain		with ball chain	
		C0	C1	N	H	SS	LS	SS	LS
15	R1631 1	9	1	4	3	20	21	22	23
20	R1631 8	9	1	4	3	20	21	22	23
25	R1631 2	9	1	4	3	20	21	22	23
30	R1631 7	9	1	4	3	20	21	22	23
35	R1631 3	9	1	4	3	20	21	22	23
E.g.:	R1631 7		1		3	20			

Size	Load capacities[1] (N)	Permissible load (N)	Load moments[1] (Nm)			
	C	F_{max}	M_t	$M_{t\,max}$	M_L	$M_{L\,max}$
15	9860	3000	95	29	68	16
20	23400	7200	300	92	200	50
25	28600	8800	410	125	290	70
30	36500	12200	630	210	440	110
35	51800	16200	1110	345	720	170

1) Load ratings and load moments for ball runner block **without** ball chain.
Load ratings and load moments for ball runner block **with** ball chain ☞ 13
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. Often only 50,000 m are actually stipulated. For comparison: Multiply the values **C**, $\mathbf{M}_t$ and $\mathbf{M}_L$ by 1.26 according to the table.

Order example

Options:

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

Material number:

R1631 713 20

Preload classes

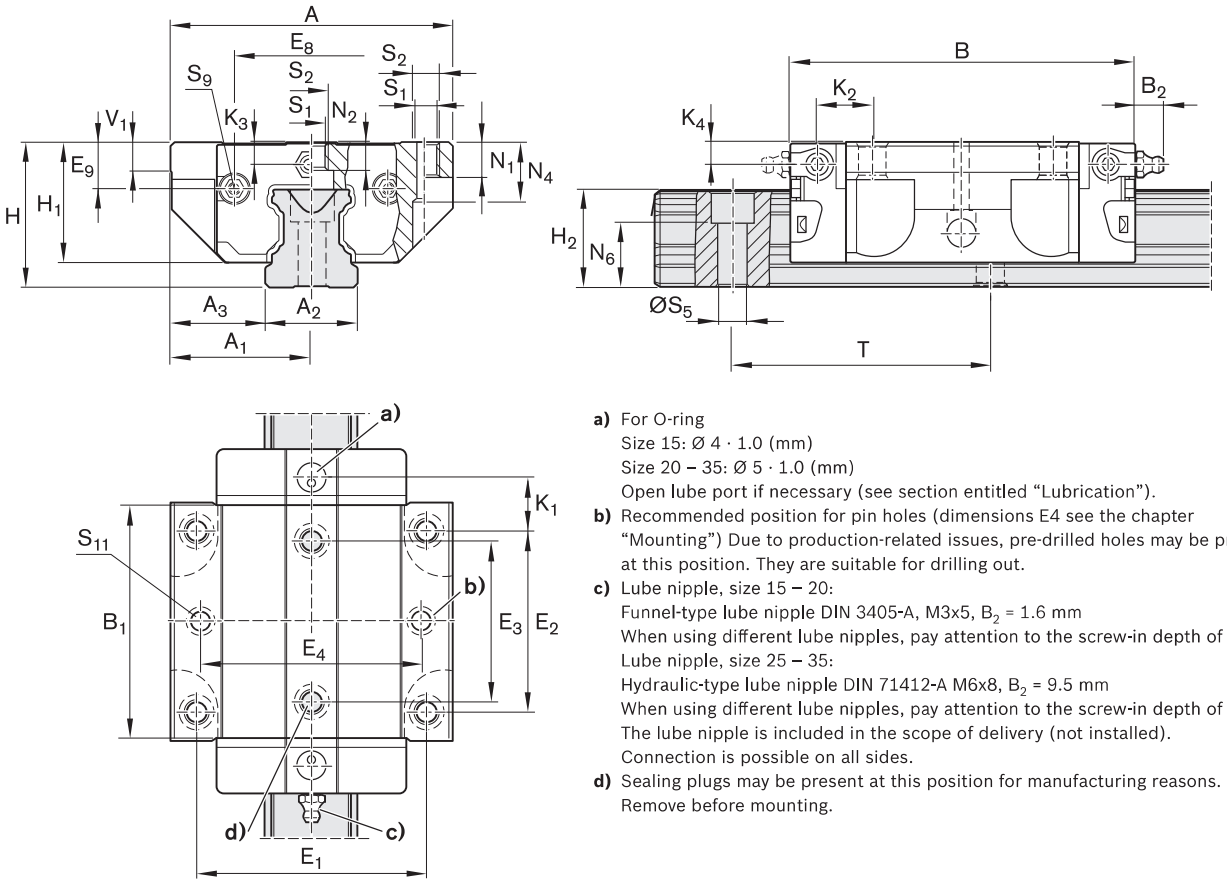
C0 = Without preload (clearance)
C1 = Moderate preload

Seals

SS = Standard seal
LS = Low-friction seal

Key

gray numbers
= No preferred variant / combination
(partially longer delivery times)



a) 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 entitled “Lubrication”).

b) Recommended position for pin holes (dimensions E4 see the chapter “Mounting”) Due to production-related issues, pre-drilled holes may be present at this position. They are suitable for drilling out.

c) Lube nipple, size 15 – 20:
Funnel-type lube nipple DIN 3405-A, M3x5, B_2 = 1.6 mm
When using 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, B_2 = 9.5 mm
When using 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 is possible on all sides.

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

Size	**Dimensions** (mm)																		
	A	**A_1**	**A_2**	**A_3**	**$B^{+0.5}$**	**B_1**	**E_1**	**E_2**	**E_3**	**E_8**	**E_9**	**H**	**H_1**	**H_2 1)**	**H_2 2)**	**K_1**	**K_2**	**K_3**	**K_4**
15	47	23.5	15	16.0	58.2	39.2	38	30	26	24.55	6.70	24	19.90	16.30	16.20	8.00	9.6	3.20	3.20
20	63	31.5	20	21.5	75.0	49.6	53	40	35	32.50	7.30	30	25.35	20.75	20.55	11.80	11.8	3.35	3.35
25	70	35.0	23	23.5	86.2	57.8	57	45	40	38.30	11.50	36	29.90	24.45	24.25	12.45	13.6	5.50	5.50
30	90	45.0	28	31.0	97.7	67.4	72	52	44	48.40	14.60	42	35.35	28.55	28.35	14.00	15.7	6.05	6.05
35	100	50.0	34	33.0	110.5	77.0	82	62	52	58.00	17.35	48	40.40	32.15	31.85	14.50	16.0	6.90	6.90

Size	**Dimensions** (mm)											**Mass**
	N_1	**N_2**	**N_4**	**$N_6^{\pm 0.5}$**	**S_1**	**S_2**	**S_5**	**S_9**	**S_{11}**	**T**	**V_1**	(kg)
15	5.2	4.40	10.3	10.3	4.3	M5	4.5	M2.5x3.5	3.7	60	5.0	0.10
20	7.7	5.20	13.5	13.2	5.3	M6	6.0	M3x5	4.7	60	6.0	0.24
25	9.3	7.00	17.8	15.2	6.7	M8	7.0	M3x5	5.7	60	7.5	0.30
30	11.0	7.90	20.5	17.0	8.5	M10	9.0	M3x5	7.7	80	7.0	0.55
35	12.0	10.15	24.0	20.5	8.5	M10	9.0	M3x5	7.7	80	8.0	0.75

1) Dimension H_2 with cover strip
2) Dimension H_2 without cover strip