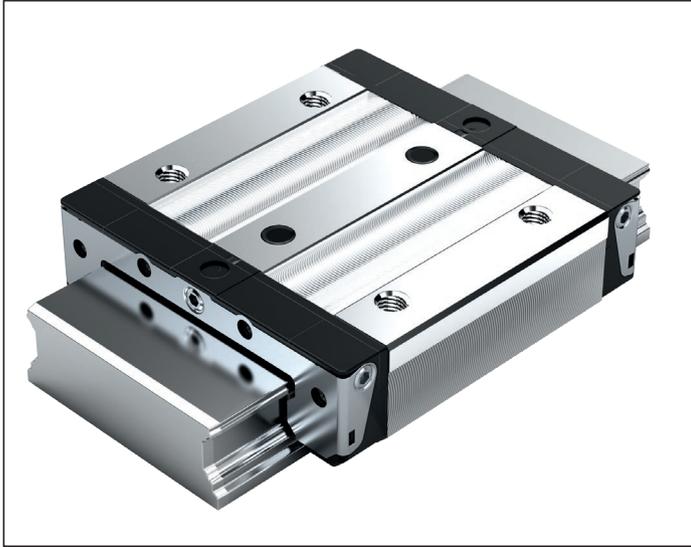


## CNS – compact, normal, standard height



### Ball runner block made of steel R1672 ... 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

#### Further ball runner blocks CNS

- ▶ Corrosion-resistant ball runner blocks see below

#### Order example

Options:

- ▶ Ball runner blocks CNS
- ▶ Sizes 25/70
- ▶ Preload class C1
- ▶ Accuracy class H
- ▶ With standard seal, without ball chain

Material number:

R1672 213 20

#### Options and material numbers

Size	Ball runner blocks with size	Preload class		Accuracy class			Seals on ball runner blocks			
		C0	C1	N	H	P	without ball chain		with ball chain	
							SS	DS	SS	DS
20/40 <sup>1)</sup>	R1672 5	9		4	3	–	20	–	22	–
			1	4	3	–	20	2Z	22	2Y
25/70	R1672 2	9		4	3	–	20	–	22	–
			1	4	3	–	20	2Z	22	2Y
E.g.:	R1672 2		1		3		20			

### Ball runner block

Resist CR<sup>2)</sup>

R1672 ... 7.

#### Order example

Options:

- ▶ Ball runner blocks CNS
- ▶ Sizes 25/70
- ▶ Preload class C0
- ▶ Accuracy class H
- ▶ With standard seal, without ball chain

Material number:

R1672 293 70

#### Options and material numbers

Size	Ball runner blocks with size	Preload class	Accuracy class	Seals on ball runner blocks			
				without ball chain		with ball chain	
			H	SS	DS	SS	DS
20/40 <sup>1)</sup>	R1672 5	9	3	70	7Z	72	7Y
25/70	R1672 2	9	3	70	7Z	72	7Y
E.g.:	R1672 2	9	3	70			

1) Caution: Ball runner blocks, not combinable with ball guide rail R167.8.. ...!

#### Preload classes

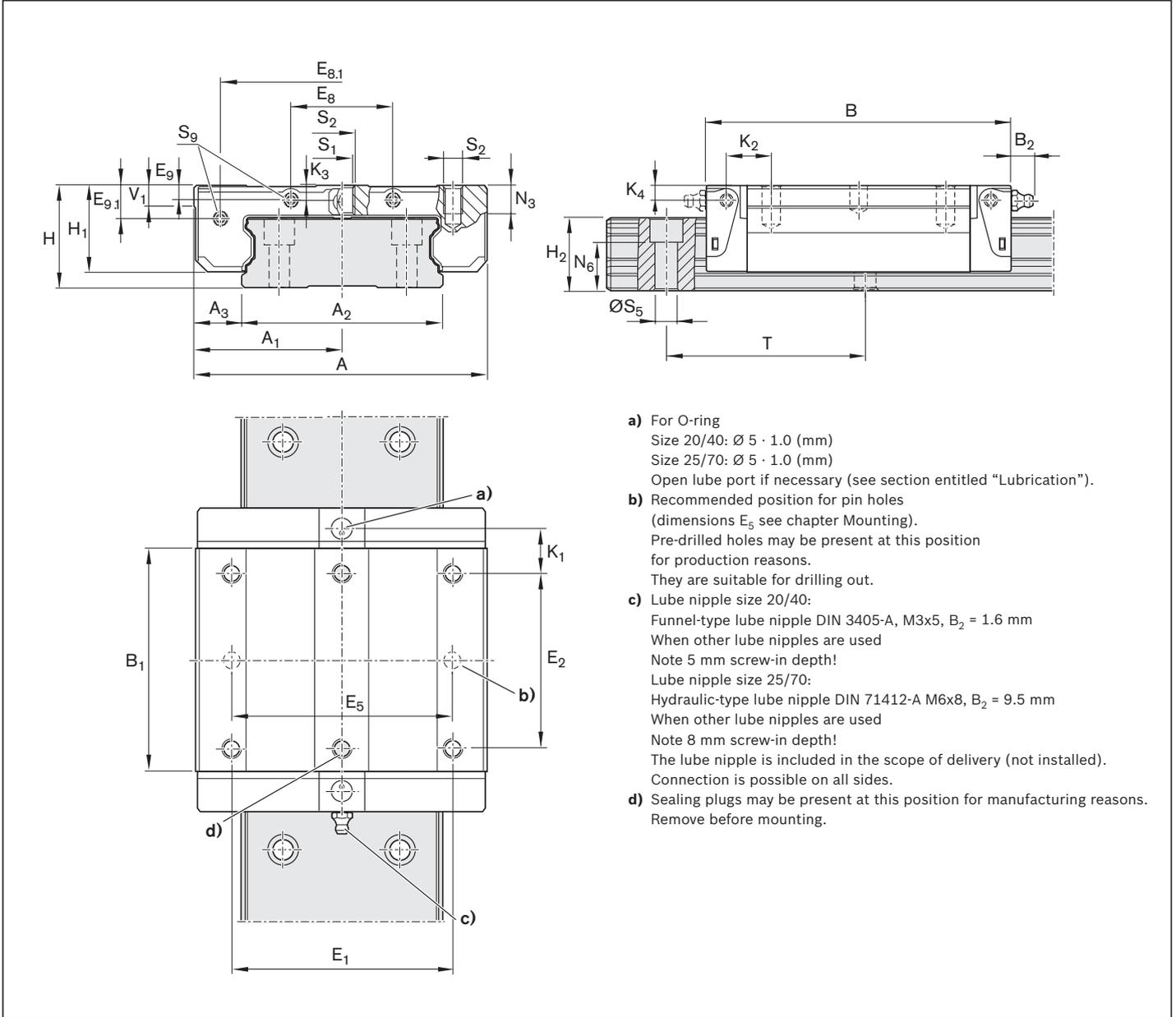
C0 = Without preload (clearance)  
C1 = Moderate preload

#### Seals

SS = Standard seal  
DS = Double-lip seal

#### Key

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



- a) For O-ring  
 Size 20/40: Ø 5 · 1.0 (mm)  
 Size 25/70: Ø 5 · 1.0 (mm)  
 Open lube port if necessary (see section entitled "Lubrication").
- b) Recommended position for pin holes  
 (dimensions E<sub>5</sub> see chapter Mounting).  
 Pre-drilled holes may be present at this position for production reasons.  
 They are suitable for drilling out.
- c) Lube nipple size 20/40:  
 Funnel-type lube nipple DIN 3405-A, M3x5, B<sub>2</sub> = 1.6 mm  
 When other lube nipples are used  
 Note 5 mm screw-in depth!  
 Lube nipple size 25/70:  
 Hydraulic-type lube nipple DIN 71412-A M6x8, B<sub>2</sub> = 9.5 mm  
 When other lube nipples are used  
 Note 8 mm screw-in depth!  
 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 <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	B	B <sub>1</sub>	E <sub>1</sub>	E <sub>2</sub>	E <sub>8</sub>	E <sub>8.1</sub>	E <sub>9</sub>	E <sub>9.1</sub>	H	H <sub>1</sub>	H <sub>2</sub>	K <sub>1</sub>	K <sub>2</sub>	K <sub>3</sub>	K <sub>4</sub>
20/40	62	31	42	10.0	73.0	51.3	46	32	18	53.4	3.4	8.1	27	22.50	18.30	14.6	15.00	3.5	3.5
25/70	100	50	69	15.5	104.7	76.5	76	50	35	83.5	4.9	11.3	35	29.75	23.55	19.4	20.45	5.2	5.2

Size	Dimensions (mm)									Mass (kg)	Load capacities <sup>1)</sup> (N)		Load moments <sup>1)</sup> (Nm)			
	N <sub>3</sub>	N <sub>6</sub> <sup>±0.5</sup>	S <sub>1</sub>	S <sub>2</sub>	S <sub>5</sub>	S <sub>9</sub>	T	V <sub>1</sub>	C		C <sub>0</sub>	M <sub>t</sub>	M <sub>t0</sub>	M <sub>L</sub>	M <sub>L0</sub>	
20/40	6	12.5	5.3	M6	4.4	M2.5x1.5 <sup>+3</sup>	60	6.0	0.3	14900	20600	340	470	140	190	
25/70	8	14.4	6.7	M8	7.0	M3x2 <sup>+4.5</sup>	80	7.5	1.0	36200	50200	1 350	1870	490	680	

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 14  
 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**, **M<sub>t</sub>** and **M<sub>L</sub>** by 1.26 according to the table.