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FNN - Flange, normal, low profile R1693 ... 1.



Dynamic characteristics

Travel speed: $v_{max} = 3 \text{ m/s}$ Acceleration: $a_{max} = 250 \text{ m/s}^2$ (If $F_{comb} > 2.8 \cdot F_{pr}$: $a_{max} = 50 \text{ m/s}^2$)

Note on lubrication

▶ Not 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 without ball chain			
		CO	C1	N	н	SS	LS		
20	R1693 8	9	1	4	3	10	11		
25 ¹⁾	R1693 2	9	1	4	3	10	11		
e.g.	R1693 8		1		3	10			

¹⁾ BSHP ball runner block

Order example

Options:

- ► FNN ball runner block
- ▶ Size 20
- ► Preload class C1
- ► Accuracy class H
- With standard seal, without ball chain

Part number:

R1693 813 10

Preload classes

C0 = Without preload (clearance) C1 = Moderate preload

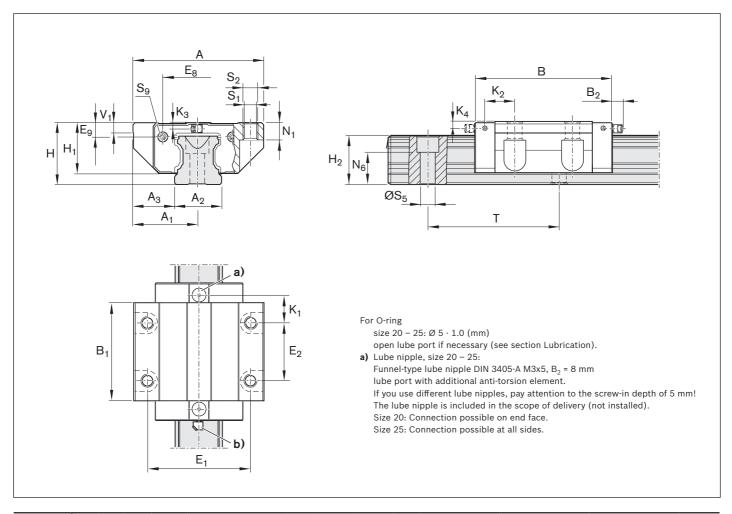
Seals

SS = standard seal LS = low-friction seal

Kev

Gray digits

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



Size	Dimensions (mm)																	
	Α	A_1	$\mathbf{A_2}$	A_3	B ^{+0.5}	B_1	E ₁	$\mathbf{E_2}$	E ₈	E ₉	Н	H ₁	$H_{2}^{1)}$	$H_{2}^{2)}$	K_1	K_2	K ₃	K_4
20	59 2	29.5	20	19.5	72.5	49.6	49	32	30.5	5.6	28	23.0	20.75	20.55	13.0	-	3.6	
25	73 3	36.5	23	25.0	81.0	57.8	60	35	38.3	8.5	33	26.5	24.45	24.25	16.6	17.0	4.1	4.1

Size	Dimen	sions (m	nm)						Weight	Load capac	ities³) (N)	Load moments ³⁾ (Nm)				
									(kg)							
										→	<u>†</u> }]←					
	N ₁	N ₆ ±0.5	S ₁	S ₂	S ₅	S ₉	Т	V_1	m	С	C _o	M _t	M _{to}	M _L	M _{LO}	
20	7.7	13.2	5.3	M6	6.0	M3x5	60	6.0	0.40	14 500	24 400	190	310	100	165	
25	9.3	15.2	6.7	M8	7.0	M3x5	60	7.5	0.60	28 600	35 900	410	510	290	360	

- 1) Dimension H_2 with cover strip
- 2) Dimension H₂ without cover strip
- 23) 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.