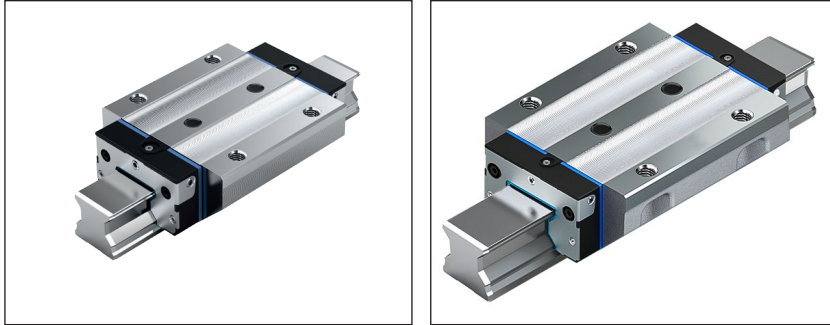


FLS – flanged, **long**, standard height – R1853 ... 2.



Dynamic characteristics

Travel speed: $v_{max} = 4 \text{ m/s}$

Acceleration: $a_{max} = 150 \text{ m/s}^2$

Recommended combination based on preload and accuracy class

- ▶ For preload C2: H and P (preferably)
- ▶ For preload C3: P and SP

Material numbers

Size	Roller runner block with size	Preload class		Accuracy class				Seals			
		C2	C3	H	P	SP	UP	DS	LS	SS	AS ¹⁾
25	R1853 2	2		3	2	1	9	2X	–	–	–
			3		2	1	9	2X	–	–	–
35	R1853 3	2		3	2	1	9	2X	25	24	2A
			3		2	1	9	2X	25	24	2A
45	R1853 4	2		3	2	1	9	2X	25	24	2A
			3		2	1	9	2X	25	24	2A
55	R1853 5	2		3	2	1	9	2X	–	–	2A
			3		2	1	9	2X	–	–	2A
65	R1853 6	2		3	2	1	9	2X	–	–	–
			3		2	1	9	2X	–	–	–

1) With integrated DS seal

Technical data

Size	Mass (kg)	Load capacities ²⁾ (N)		Torsional moment load capacity ²⁾ (Nm)		Longitudinal moment load capacity ²⁾ (Nm)	
		C	C ₀	M _t	M _{t0}	M _L	M _{L0}
25	0.93	33300	76400	432	990	420	970
35	2.70	74900	155400	1490	3080	1220	2530
45	5.15	132300	276400	3270	6830	2690	5630
55	7.15	174000	374900	5100	10990	4420	9520
65	14.18	295900	606300	10510	21540	8870	18180

2) Determination of the dynamic load capacities and load moments is based on a travel of 100,000 m according to DIN ISO 14728-1. Often only 50,000 m are actually stipulated. For comparison: Multiply values C, M_t and M_L from the table by 1.23.

Ordering example

Options:

- ▶ Roller runner block FLS
- ▶ Size 35
- ▶ Preload class C2
- ▶ Accuracy class H
- ▶ With double-lip seal 2X

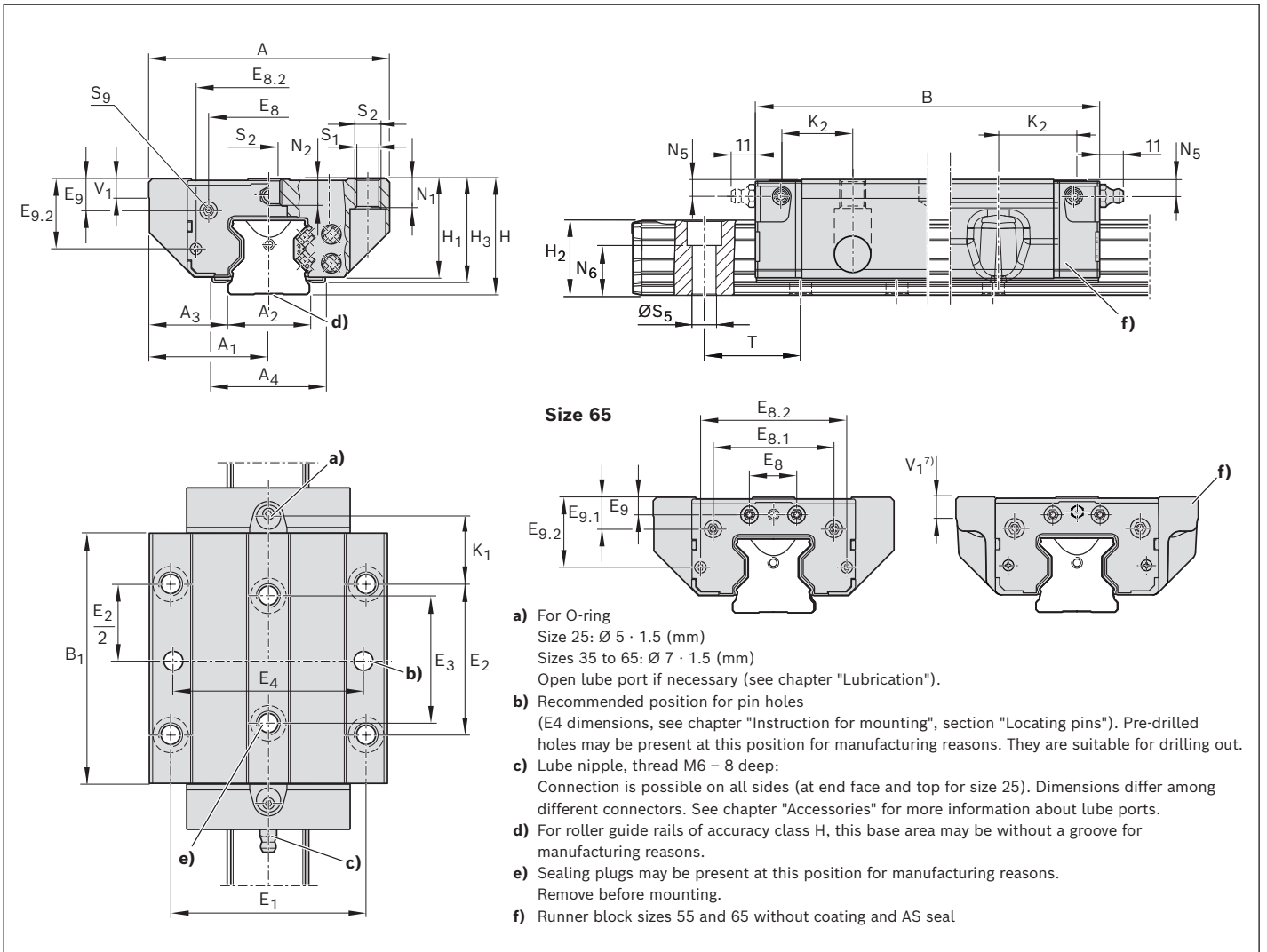
Material number: R1853 323 2X

Preload classes

- C2 = Average preload
- C3 = High preload
- C1, C4, C5 upon request

Seals

- DS = Double-lip seal
- LS = Low-friction seal
- SS = Standard seal
- AS = Longitudinal seal



Dimensions (mm)

Size	A	A ₁	A ₂	A ₃	A ₄ ¹⁾	B	B ₁	E ₁	E ₂	E ₃	E ₄	E ₈	E _{8.1}	E _{8.2}	E ₉	E _{9.1}	E _{9.2}
25	70	35	23	23.5	-	115.00	81.5	57	45	40	55	33.4	-	40.2	8.30	-	21.40
35	100	50	34	33.0	47.0	142.00	103.6	82	62	52	80	50.3	-	60.5	13.10	-	29.10
45	120	60	45	37.5	55.6	179.50	134.0	100	80	60	98	62.9	-	72.0	16.70	-	36.50
55	140	70	53	43.5	63.3	209.65	162.1	116	95	70	114	74.2	-	81.6	18.85	-	40.75
65	170	85	63	53.5	-	255.30	194.0	142	110	82	140	35.0	93.00	106.0	9.30	26.00	55.00

Size	H	H ₁	H ₂ ²⁾	H ₂ ³⁾	H ₃ ⁴⁾	K ₁	K ₂	N ₁	N ₂	N ₅	N ₆ ^{±0.5}	Ø S ₁	S ₂	S ₅	S ₉ ⁵⁾	T ⁶⁾	V ₁	V ₁ ⁷⁾
25	36	30	23.60	23.40	-	23.05	-	9	7.3	5.5	14.3	6.7	M8	7	M3-6.5 deep	30.0	7.5	-
35	48	41	31.10	30.80	43	27.55	29.40	12	11.0	7.0	19.4	8.5	M10	9	M3-6.0 deep	40.0	8.0	-
45	60	51	39.10	38.80	53	33.70	36.60	15	13.5	8.0	22.4	10.4	M12	14	M4-9.0 deep	52.5	10.0	-
55	70	58	47.85	47.55	60	41.25	44.40	18	13.7	9.0	28.7	12.4	M14	16	M5-8.0 deep	60.0	12.0	12.6 _{+/-1.2} ⁷⁾
65	90	76	58.15	57.85	-	54.00	57.00	23	21.5	9.3	36.5	14.6	M16	18	M4-8.0 deep	75.0	15.0	15.6 _{+/-1.2} ⁷⁾

- 1) Dimension A₄ = Width of the additional longitudinal seal
- 2) Dimension H₂ with cover strip
- 3) Dimension H₂ without cover strip
- 4) Dimension H₃ = Total roller runner block including the additional longitudinal seal
- 5) Thread for connecting parts
- 6) Dimension T = Rail separation of the roller guide rail
- 7) Dimensions for runner block sizes 55 and 65 without coating and AS seal