FLS – Flanged, long, standard height
R1853 ... 2.

Dynamic characteristics
Travel speed: v_{max} = 4 m/s
Acceleration: a_{max} = 150 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	SS[1]	AS
25	R1853 2	2		3	2	1	9	2X	–	–
			3		2	1	9	2X	–	–
35	R1853 3	2		3	2	1	9	2X	24	2A
			3		2	1	9	2X	24	2A
45	R1853 4	2		3	2	1	9	2X	24	2A
			3		2	1	9	2X	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) In Preparation

Technical data

Size	Mass (kg)	Load ratings[2] (N)		Torsional moment load capacity[2)] (Nm)		Longitudinal moment load capacity[2)] (Nm)	
	m	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

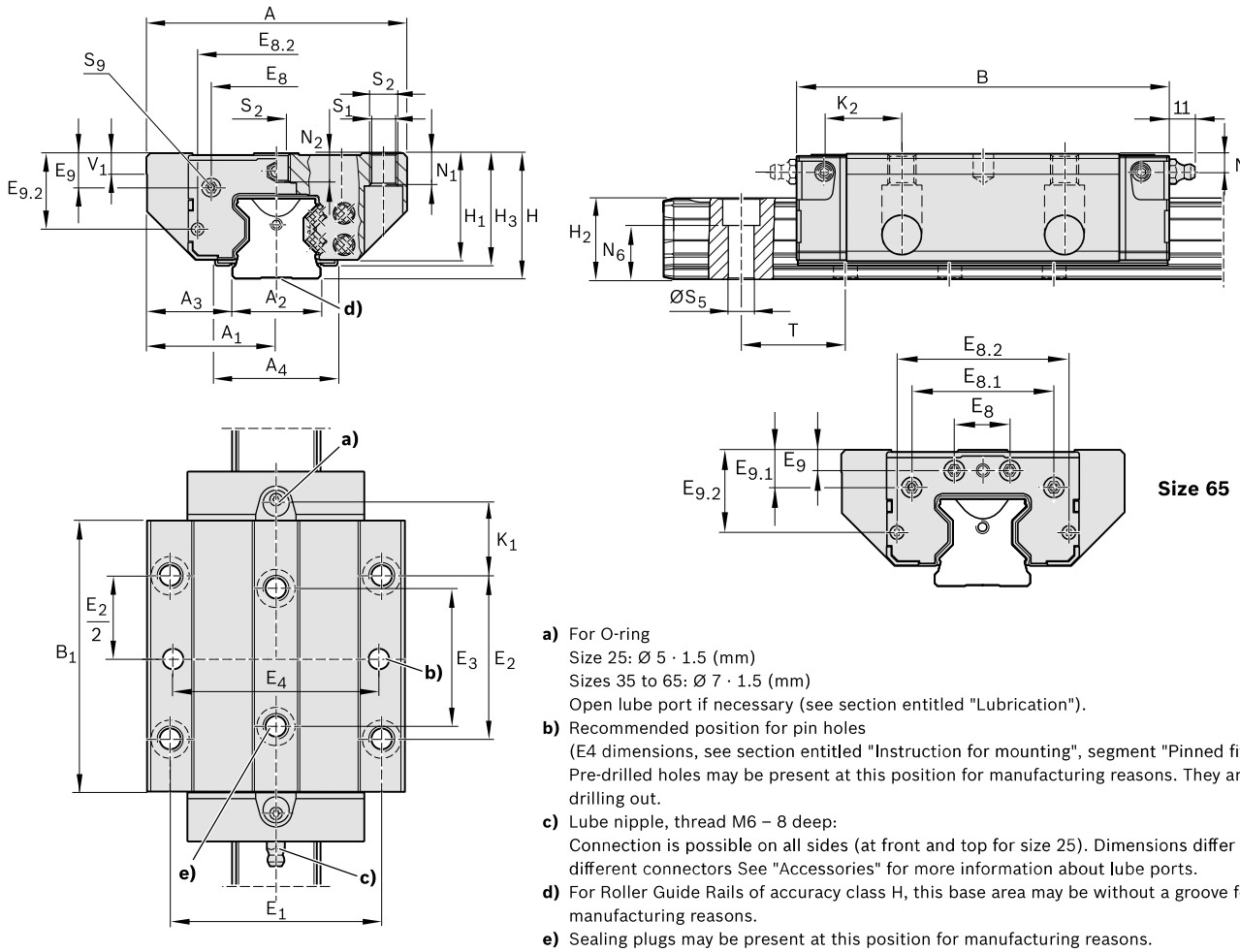
2) Determination of the dynamic load capacities and load moments is based on a stroke travel of 100,000 m according to DIN ISO 14728-1. However, often only 50,000 m is actually stipulated. For comparison: Multiply values C, M_t and M_L from the table by 1.23.

Order example
Options:
- Roller Runner Blocks 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
SS = Standard seal
AS = Longitudinal seal



a) For O-ring
Size 25: Ø 5 · 1.5 (mm)
Sizes 35 to 65: Ø 7 · 1.5 (mm)
Open lube port if necessary (see section entitled "Lubrication").

b) Recommended position for pin holes
(E4 dimensions, see section entitled "Instruction for mounting", segment "Pinned fitting").
Pre-drilled holes may be present at this position for manufacturing reasons. They are suitable for drilling out.

c) Lube nipple, thread M6 – 8 deep:
Connection is possible on all sides (at front and top for size 25). Dimensions differ among different connectors See "Accessories" for more information about lube ports.

d) For Roller Guide Rails of accuracy class H, this base area may be without a groove for manufacturing reasons.

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

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	$N_6^{\pm 0.5}$	Ø S_1	S_2	S_5	S_9 [5)]	T [6)]	V_1
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
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

1) Dimension A_4 = Width of the additional longitudinal seal
2) Dimension H_2 with cover strip
3) Dimension H_2 without cover strip
4) Dimension H_3 = Total Roller Runner Block including the additional longitudinal seal
5) Thread for connecting parts
6) T = Rail separation of the Roller Guide Rail