



ORDERING CODE

DFM	☐	☐	☐	☐	☐	☐
↑	↑	↑	↑	↑	↑	↑
Model	Bore size	Standard stroke	Buffer form	Piston sensing	Guide	

Guide rod cylinder	P: Elastic cushions at both ends	-: Without A: With sensing side	GF: Plain bearing guide KF: Recirculating ball bearing guide
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Remark:
Pls feel free to contact with us if have any customized request.

DATE SHEET

Maximum Effective Load Force[N]		19...28		24...72		35...110		84...123		112...188		109...180		168...257		168...257		220...352		332...568									
Load Torque[Nm]		0.38...0.65 0.55...1.68 1.01...3 2.85...4.2 4.25...7.3 4.80...7.90 9.30...14.15 10.50...15.90 17.10...27.20 25.70...53.40																											
Material		Housing,section: Anodized aluminium Connection plate: Galvanised steel Piston rod,guide rod: High-quality alloy steel Seal: Nitrile rubber																											
Operating Pressure[bar]		2...10								1.5...10								1...10								0.5...10			
Temperature °C		GF		-20...+80																									
		KF		-5...+60																									

OVERALL DIMENSION&STRUCTURE

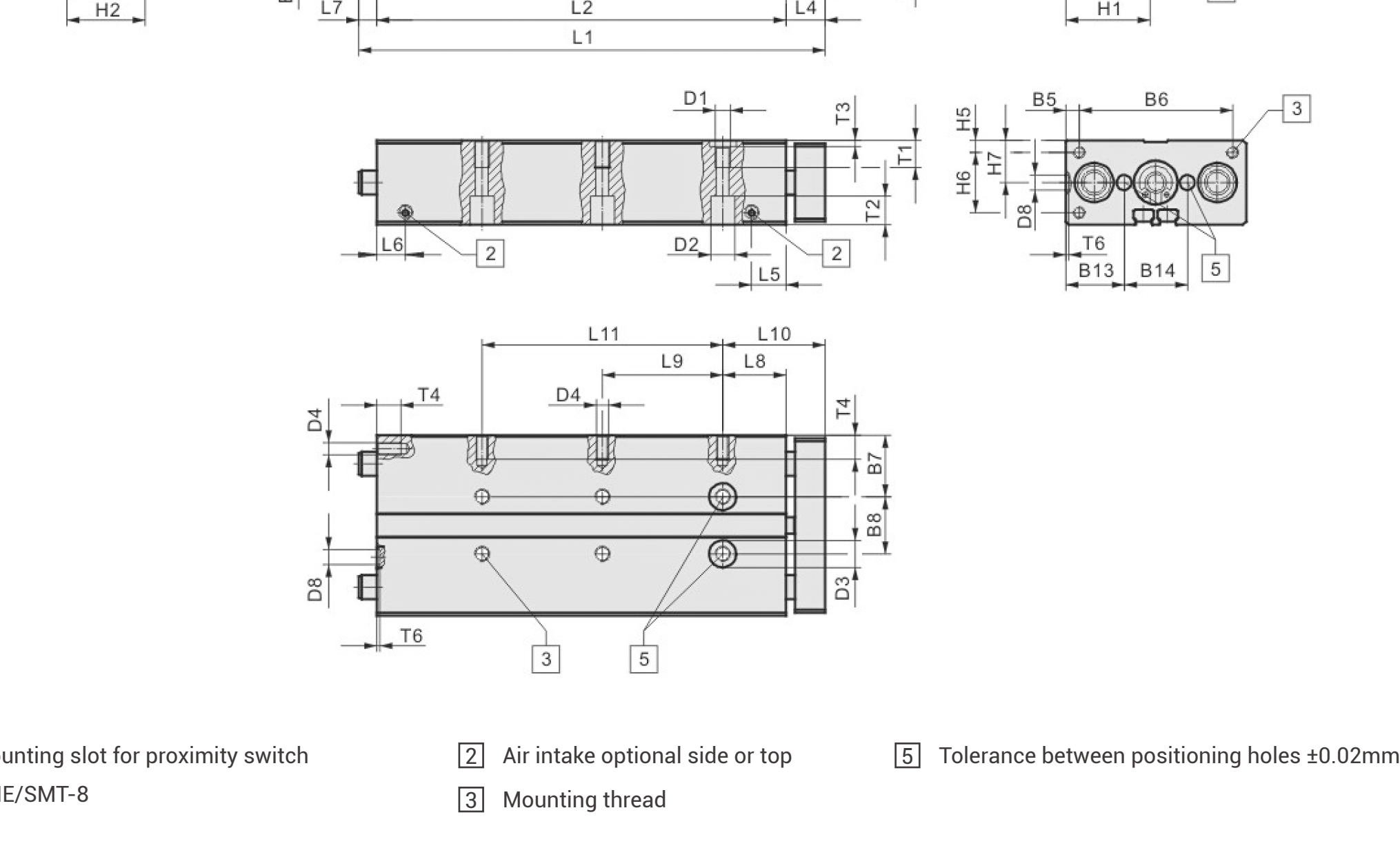
Φ12...16mm

The drawing shows a side view of a pneumatic cylinder. Key dimensions and components are labeled:

- Dimensions:**
 - H_6 : Total height of the cylinder body.
 - H_5 : Height of the mounting bracket.
 - L_9 : Distance from the mounting bracket to the first internal seal.
 - L_8 : Distance between the two internal seals.
 - L_{12} : Distance from the mounting bracket to the second internal seal.
 - L_{13} : Total length of the cylinder body.
 - L_6 : Distance from the mounting bracket to the first internal seal (also labeled as L_9).
 - L_7 : Distance between the two internal seals (also labeled as L_8).
 - L_5 : Distance from the mounting bracket to the second internal seal (also labeled as L_{12}).
 - H_9 : Height of the mounting bracket.
 - H_8 : Height of the mounting bracket.
 - H_{10} : Height of the mounting bracket.
 - H_3 : Height of the mounting bracket.
 - EE : Height of the mounting bracket.
- Components:**
 - 3**: Piston rod.
 - 5**: Piston seal.

OVERALLDIMENSION&STRUCTURE

Φ12...16mm



- 1 Mounting slot for proximity switch
SME/SMT-8
- 2 Air intake optional side or top
Mounting thread
- 5 Tolerance between positioning holes ±0.02mm

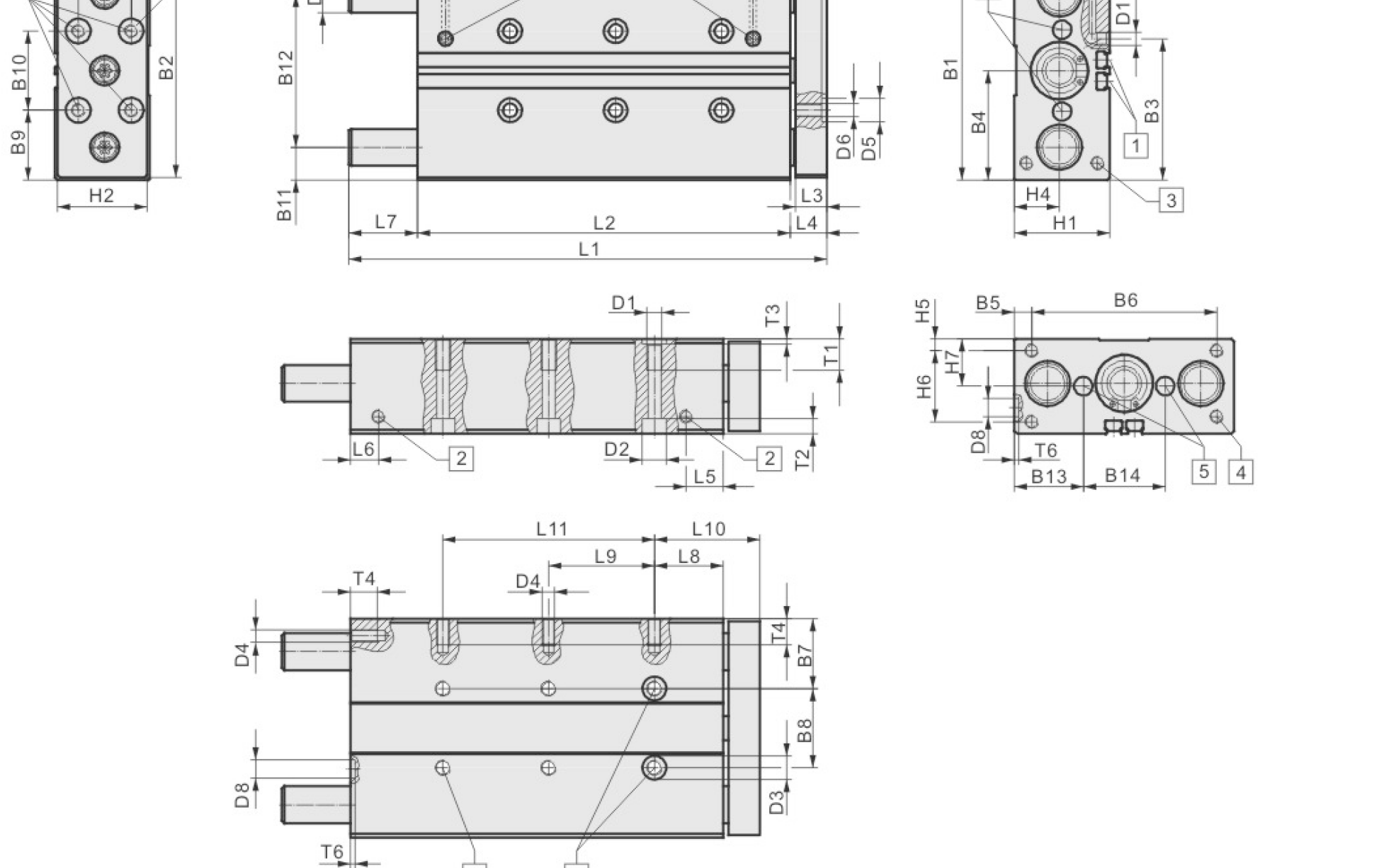
Φ(mm)	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13	B14	B15	B16	B17	B18	D1	D2Φ
12	60	58	42.4	30	4.5	51	20.5	19	20	20	9.5	41	19.5	21	8.5	41	25	2.5	M5	8
16	67	65	45.9	33.5	4.5	58	22	23	23.5	20	10.5	46	21.3	24.4	-	-	28	4	M5	7.5

Φ(mm)	D3 Φ H7	D4	D5 Φ H7	D6	D7 Φ GF KF	D8 Φ H7	D9	D10	EE	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10
12	9	M4	5	M4	10h8 8h6	5	M4	M5	M5	28	26	24	14	4	20	14	4	20	10
16	9	M5	5	M5	12h8 10h7	5	-	M5	M5	32	30	26.5	16	4	24	16	7.4	20	10

Φ(mm)	Stroke	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10
12	10	59	46	10	13	11.4	9.5	-	21	-	34
	20	69	56					-		-	
	25	74	61					-		20	
	30	79	66					6		20	
	40	95	76					6		20	
	50	105	86					6		40	
	80	135	116					6		40	
16	100	155	136	10	12	11.9	10.6	-	22	-	34
	10	60	48					-		-	
	20	70	58					-		20	
	25	75	63					-		20	
	30	80	68					17		20	
	40	107	78					17		40	
	50	117	88					17		40	
	80	147	118					17		40	
	100	167	138					17		40	

Φ(mm)	Stroke	L1	L2	L3	T1	T2	T3	T4	T5	T6	T7
12	10	-	11.4	5	9	9.4	2.1	8	1.2	1	8
	20	-									
	25	-									
	30	-									
	40	-									
	50	-									
	80	80									
16	100	80	11.9	-	9	4.6	2.1	10	1.2	1	-
	10	-									
	20	-									
	25	-									
	30	-									
	40	-									
	50	-									
	80	-									
	100	80									

Φ20...25mm



- 1 Mounting slot for proximity switch
SME/SMT-8
- 2 Air intake optional side or top
Mounting thread
- 4 Mounting thread(not applicable to Φ20)
- 5 Tolerance between positioning holes ±0.02mm

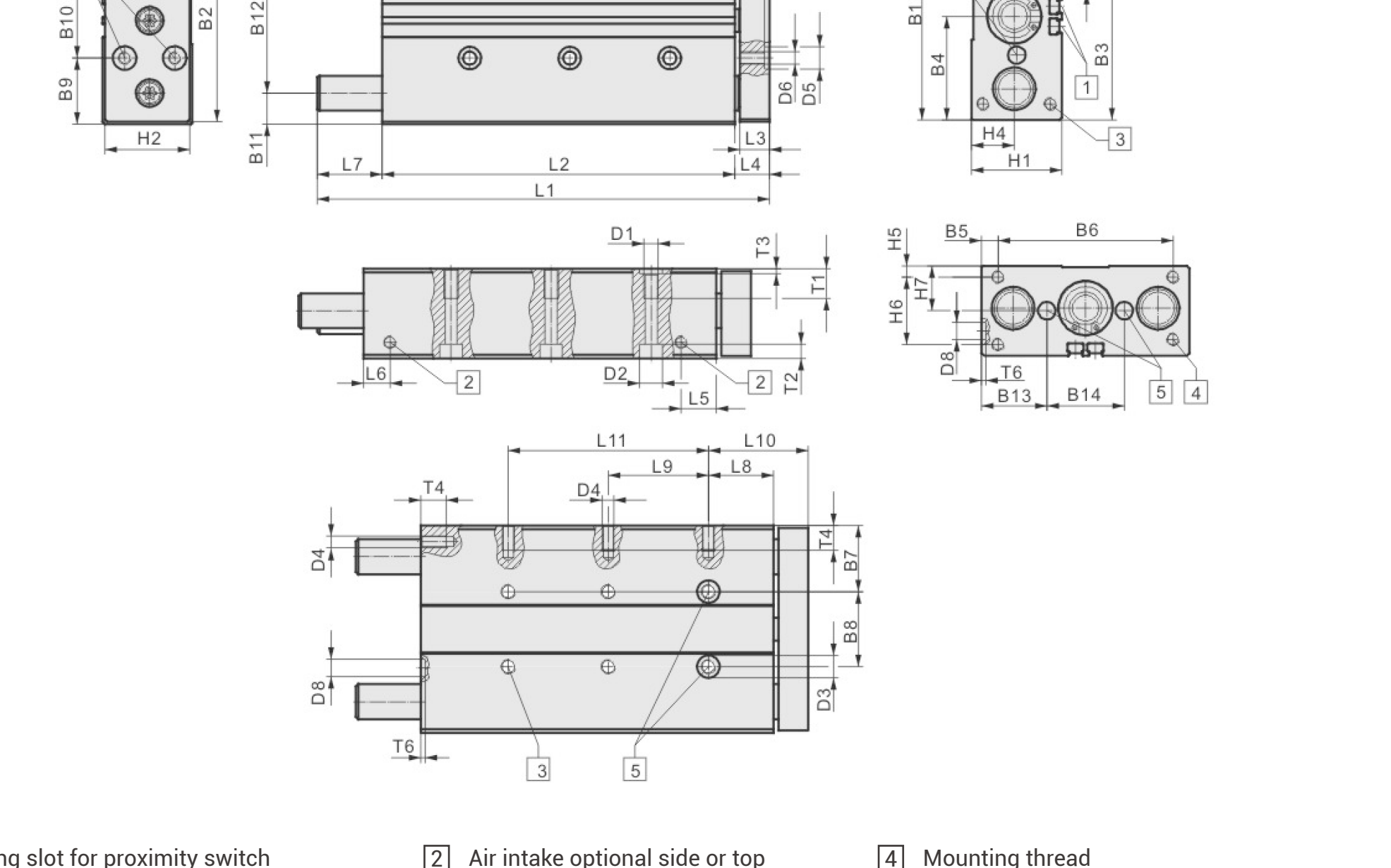
Φ(mm)	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13	B14	D1	D2Φ	D3 Φ H7	D4
20	83	81	53.6	41.5	6.5	70	26.5	30	26.5	30	12.5	58	26	31	M6	9	9	M5
25	95	93	70	47.5	15.5	64	30	35	27.5	40	13.5	68	29	37	M6	9	9	M6

Φ(mm)	D5 Φ H7	D6	D7Φ		D8 Φ H7	EE	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10
20	9	M5	14h8	12h7	7	M5	36	34	29.5	17	4.5	27	18	7	20	10
25	9	M6	16h8	14h7	7	G1/8	44	42	34.8	19	4.5	35	22	12	20	10

Φ(mm)	Stroke	L1	L2	L3	L4	L5	L6	L7	L8	L9
20	20	75	61	12	14	14	10.5	-	26	-
	25	80	66					-		20
	30	85	71					-		20
	40	121	81					26		20
	50	131	91					26		40
	80	161	121					26		40
	100	181	141					26		40
25	20	93	65.6	12	14	17.5	9.5	13.4	26	-
	25	98	70.6					13.4		20
	30	103	75.6					13.4		20
	40	123	85.6					23.4		20
	50	133	95.6					23.4		40
	80	163	125.6					23.4		40
	100	183	145.6					23.4		40

Φ(mm)	Stroke	L10	L11	L12	T1	T2	T3	T4	T5	T6
20	20	40	-	14	12	5.7	2.1	10	2.1	1.6
	25		-							
	30		-							
	40		-							
	50		-							
	80		-							
	100		80							
25	20	40	-	15	14	5.7	2.1	12	2.1	1.6
	25		-							
	30		-							
	40		-							
	50		-							
	80		-							
	100		80							

Φ32...63mm



- 1 Mounting slot for proximity switch
SME/SMT-8
- 2 Air intake optional side or top
Mounting thread
- 4 Mounting thread
- 5 Tolerance between positioning holes ±0.02mm

Notice
For guide rod cylinders DFM-25...100 with a stroke of 40mm and longer, the guide rod protrudes out of the basic cylinder when the ubit is retracted to the end position. If the guide rod cylinder is mounted on its end face (one side against the end cap), the end face should have a groove for the guide rod to pass through.

Φ(mm)	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13	B14	D1	D2Φ	D3 Φ H7
32	110	108	81	55	20	70	33.5	43	35	40	16	78	32.5	45	M8	11	12
40	120	118	94	60	15	90	34.5	51	35	50	16	88	32.5	55	M8	11	12
50	148	146	116.5	74	19	110	42	64	44	60	19	110	40	68	M8	11	12
63	162	160	139	81	9	144	41	80	41	80	18.5	125	39.5	83	M10	15	12

				G	RF												
32	M6	9	M6	20h8	16h7	9	G1/8	49	47	38.5	22	6	37	24.5	8.5	30	15
40	M8	9	M6	20h8	16h7	9	G1/8	54	52	40.5	24	6	42	27	10	30	15
50	M8	12	M8	25h8	20h7	12	G1/4	64	62	50.5	29.5	7	50	32	12	40	20