

Clamping module EV

FESTO



Type code

001	Series	
EV	Clamping module, single-acting	
002	Clamping area	
12	Ø12	
16	Ø16	
20	Ø20	
25	Ø25	
32	Ø32	
40	Ø40	
50	Ø50	
63	Ø63	
1030	10x30 mm	
1540	15x40 mm	
1563	15x63 mm	
2075	20x75 mm	
20120	20x120 mm	
20180	20x180 mm	

003	Stroke [mm]	
3	3	
4	4	
5	5	

Datasheet

General technical data - clamping module, cuboid shape

Clamping area	10x30	15x40	15x63	20x75	20x120	20x180
Pneumatic connection	M3	M5				
Type of mounting	With through-hole					
Mounting position	Any					

General technical data - Clamping module, round

Clamping area	Ø 12	Ø 16	Ø 20	Ø 25	Ø 32	Ø 40	Ø 50	Ø 63
Pneumatic connection	M3							
Type of mounting	With through-hole							
Mounting position	Any							

Operating conditions - Clamping module, cuboid shape

Clamping area	10x30	15x40	15x63	20x75	20x120	20x180
Operating medium	Compressed air as per ISO 8573-1:2010 [7:-]					
Operating pressure	≤87 psi	29 ... 87 psi				
Operating pressure	≤0.6 MPa	0.2 ... 0.6 MPa				
Operating pressure	≤6 bar	2 ... 6 bar				
Ambient temperature	-20 ... 40°C					

Operating conditions - Clamping module, round

Clamping area	Ø 12	Ø 16	Ø 20	Ø 25	Ø 32	Ø 40	Ø 50	Ø 63
Operating medium	Compressed air as per ISO 8573-1:2010 [7:-]							
Operating pressure	≤0.6 MPa							
Operating pressure	≤6 bar							
Operating pressure	≤87 psi							
Ambient temperature	-10 ... 40°C							

Weights - Clamping module, cuboid shape

Clamping area	10x30	15x40	15x63	20x75	20x120	20x180
Product weight	20 g	45 g	65 g	130 g	190 g	270 g

Weights - Clamping module, round

Clamping area	Ø 12	Ø 16	Ø 20	Ø 25	Ø 32	Ø 40	Ø 50	Ø 63
Product weight	11 g	15 g	19 g	24 g	34 g	52 g	68 g	100 g

Materials

Housing material	Die-cast aluminum					
Diaphragm material	TPE-U(PU)					
LABS (PWIS) conformity	VDMA24364-B1/B2-L					

Forces - clamping module, cuboid shape

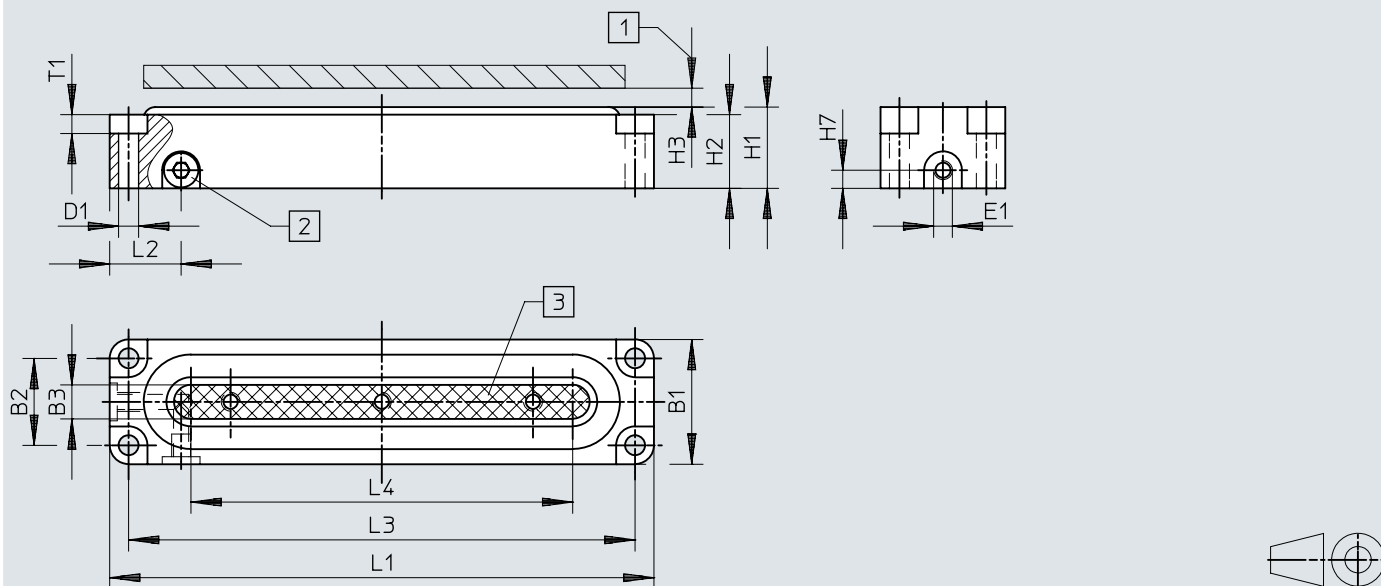
Clamping area	10x30	15x40	15x63	20x75	20x120	20x180
Tension force at 0.6 MPa (6 bar, 87 psi), 1 mm stroke	95	195	350	660	1,100	1,690
Tension force at 0.6 MPa (6 bar, 87 psi), max. stroke	80	165	290	600	1,000	1,480

Forces - clamping module, round

Clamping area	Ø 12	Ø 16	Ø 20	Ø 25	Ø 32	Ø 40	Ø 50	Ø 63
Tension force at 0.6 MPa (6 bar, 87 psi), 1 mm stroke	55	102	162	226	376	680	1,090	1,660
Tension force at 0.6 MPa (6 bar, 87 psi), max. stroke	56	125	187	271	456	675	1,075	1,640

Dimensions

Dimensions – Clamping module, cuboid shape

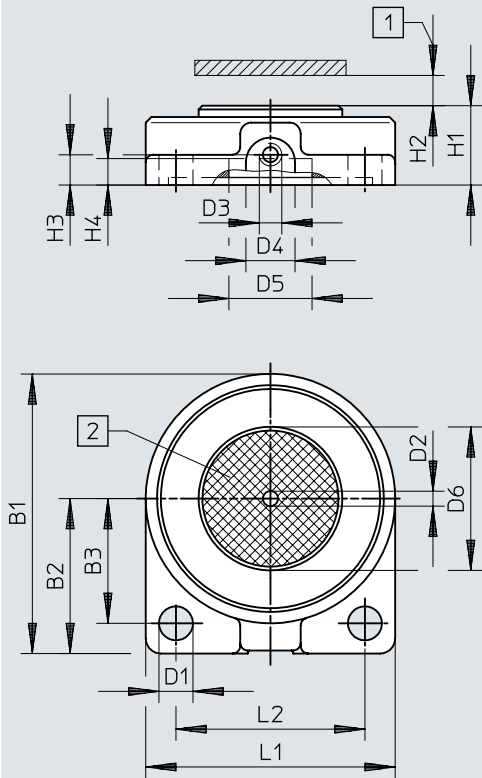
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- [1] maximum permissible stroke against a stop
 [2] Choice of supply port connection by repositioning sealing plug
 [3] Clamping area

	B1	B2	B3	D1 Ø	E1	H1	H2	H3	H7	L1	L2	L3	L4	T1
EV-10/30-3	17	9	3	3,3	M3	14,5 _{+0,3}	12,5	3	3	45	13,5	37	16	4,6
EV-15/40-4	23	15,5	4,9	4,3	M5	18 _{±0,54}	16	4	4,8	55	13	47	25	3
EV-15/63-4										80	13	72	50	3
EV-20/75-5	33	23	9,5	5,3	M5	21,5 _{±0,57}	19,5	5	4,8	98	18,9	88	55	5,2
EV-20/120-5										144	18,9	134	103	5,2
EV-20/180-5										204	18,9	194	161	5,2

Dimensions

Dimensions – Clamping module, round

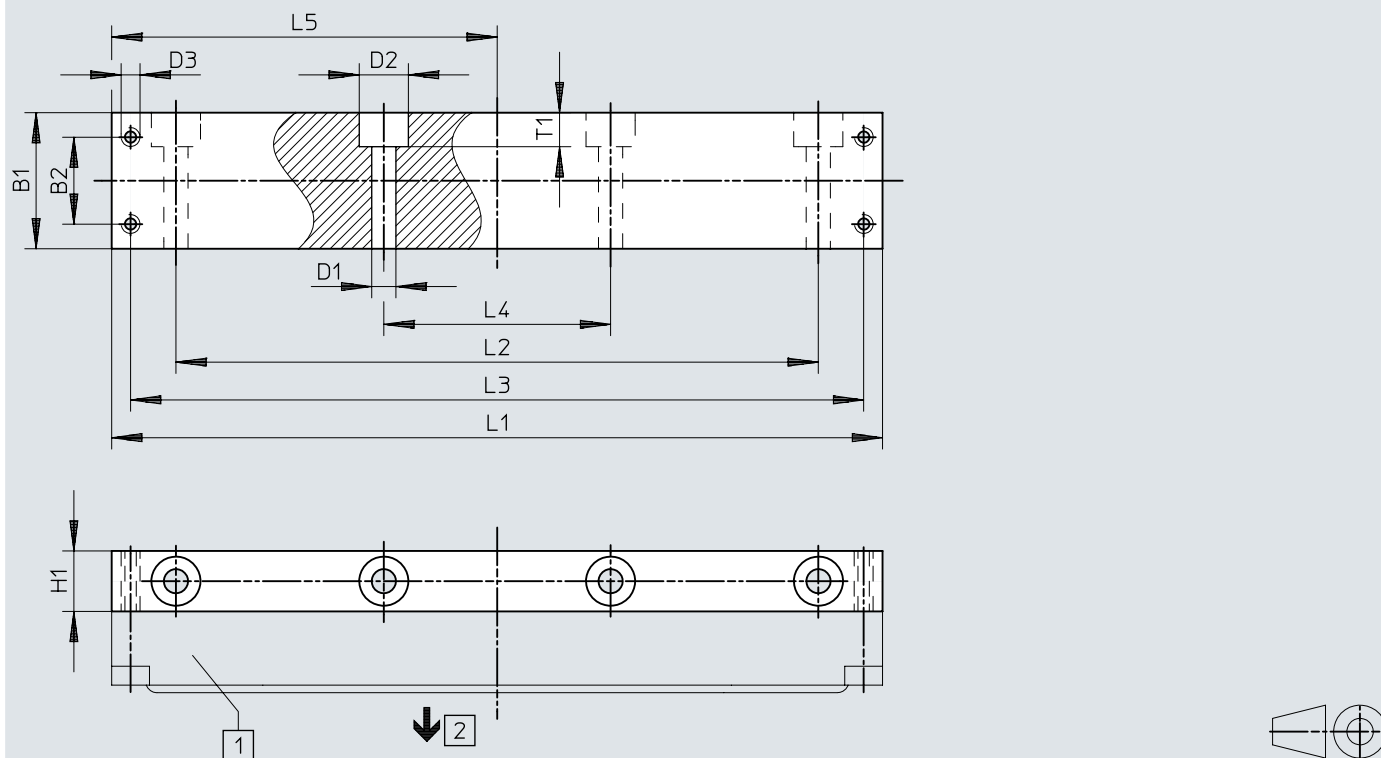
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- [1] maximum permissible stroke against a stop
 [2] Clamping area

	B1	B2	B3	D1 Ø	D2 Ø	D3	D4 Ø	D5 Ø	H1	H2	H3	H4	L1	L2
EV-12-3	29	16,5	13	3,5	2	M3	6,5	3	10,5	3	4	3,5	25	18
EV-16-4	33	18,5	15	3,5	2	M3	6,5	7	10,5	4	4	3,5	29	22
EV-20-4	37	20,5	16,5	4,5	2	M3	6,5	11	10,5	4	4	3,5	33	25
EV-25-4	42	23	18,5	5,5	2	M3	6,5	16	10,5	4	4	3,5	38	28
EV-32-5	49	26,5	21	5,5	2	M3	6,5	23	10,5	5	4	3,5	45	34
EV-40-5	57	30,5	25	5,5	2	M3	6,5	31	10,5	5	4	2,5	53	42
EV-50-5	67	35,5	29	5,5	2	M3	6,5	41	10,5	5	4	2,5	63	49
EV-63-5	80	42	34	5,5	2	M3	6,5	54	10,5	5	4	2,5	76	60

Dimensions

Dimensions – Foot mounting HBEV

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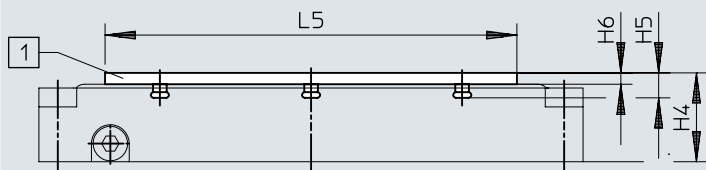
[1] Clamping module EV

[2] Clamping direction

	B1	B2	D1 ø	D2 ø	D3	H1	L1	L2	L3	L4	L5	T1
HBEV-10/30	20	9	4,5	8	M3	10	45	23	37	–	22,5	4,6
HBEV-15/40	25	15,5	5,4	11	M4	15	55	29	47	–	27,5	7
HBEV-15/63							80	50	72	–	40	7
HBEV-20/75	36	23	6,4	13	M5	16	98	64	88	–	49	9
HBEV-20/120							144	110	134	–	72	9
HBEV-20/180							204	170	194	60	102	9

Dimensions

Dimensions – Pressure plate EV-...-DP for clamping module, cuboid shape

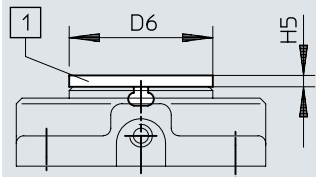
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[1] The pressure plate can be snap-fitted onto the diaphragm of the clamping module.

	H4	H5	H6	L5
EV-10/30-DP	17	5	2,5	19
EV-15/40-DP	20,5	5,6	2,5	29
EV-15/63-DP				54
EV-20/75-DP	24,5	6,6	3	63
EV-20/120-DP				109
EV-20/180-DP				169

Dimensions

Dimensions – Pressure plate EV-...-DP for clamping module, round Download CAD data www.festo.com



[1] The pressure plate can be snap-fitted into the diaphragm of the clamping module by using gentle pressure together with a twisting movement.

	D6 Ø	H5
EV-12-DP	11	1,6
EV-16-DP	15	1,6
EV-20-DP	19	1,6
EV-25-DP	24	1,6
EV-32-DP	31	1,6
EV-40-DP	39	1,6
EV-50-DP	49	1,6
EV-63-DP	62	1,6

Ordering data

Ordering data – clamping module, cuboid shape

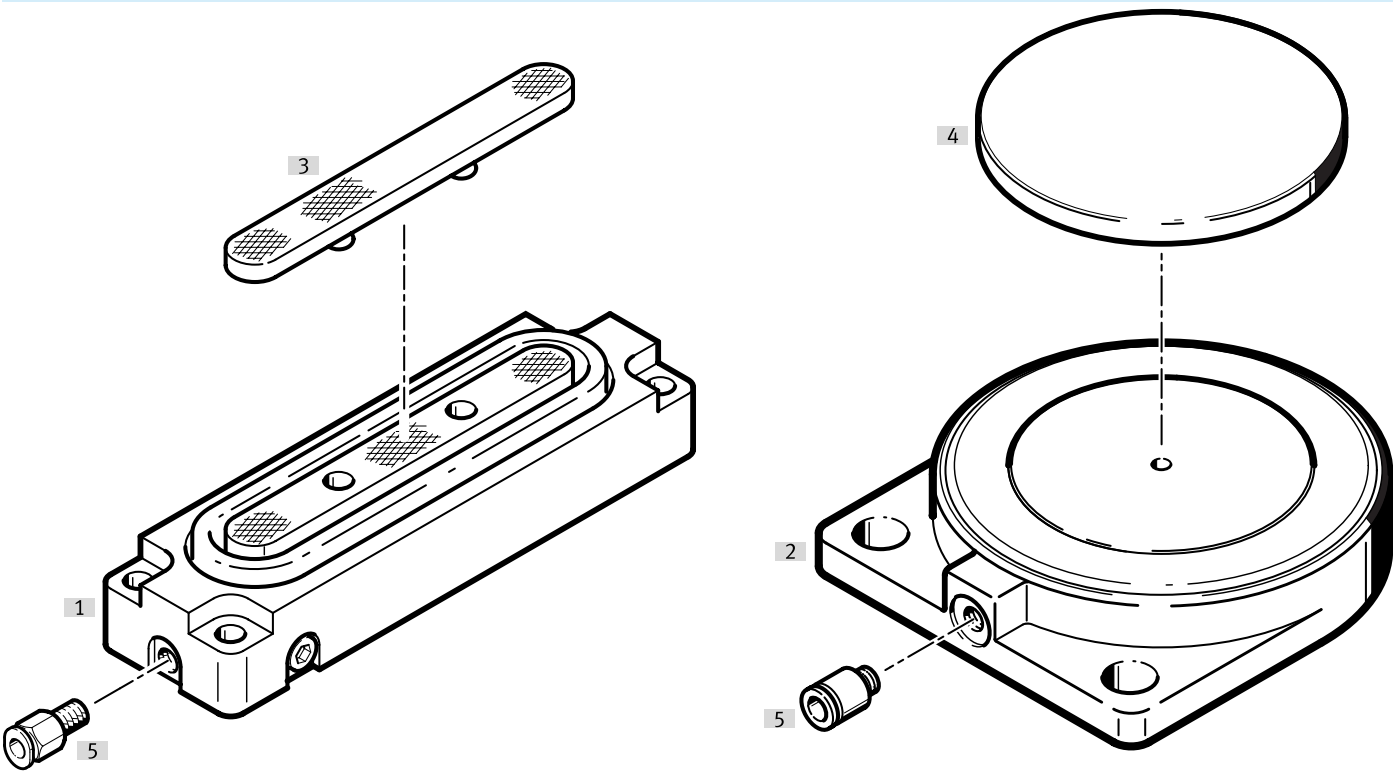
	Clamping area	Stroke [mm]	Part no.	Type
	10x30	3 mm	151993	EV-10/30-3
	15x40	4 mm	13289	EV-15/40-4
	15x63		13290	EV-15/63-4
	20x75	5 mm	13291	EV-20/75-5
	20x120		13292	EV-20/120-5
	20x180		13293	EV-20/180-5

Ordering data – clamping module, round

	Clamping area	Stroke [mm]	Part no.	Type
	Ø 12	3 mm	150681	EV-12-3
	Ø 16	4 mm	150682	EV-16-4
	Ø 20		150683	EV-20-4
	Ø 25		150684	EV-25-4
	Ø 32	5 mm	150685	EV-32-5
	Ø 40		184857	EV-40-5
	Ø 50		184858	EV-50-5
	Ø 63		184859	EV-63-5

Peripherals overview

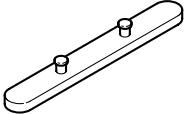
Peripherals overview



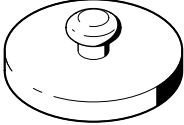
Accessories			→ Page/Internet
Type/order code	Description		
[1]	Clamping module, cuboid shape	Cuboid shape clamping module	ev
[2]	Clamping module, round	Round clamping module	ev
[3]	Pressure plate cuboid shaped EV-...-DP	Protects the membrane from external damage	11
[4]	Pressure plate round EV-...-DP	Protects the membrane from external damage	11
[5]	Push-in fitting QS	For connecting compressed air tubing with standard O.D.	qs

Accessories

Pressure plate EV-....-DP for clamping module, cuboid shape

	Size	Part no.	Type
	10x30	151994	EV-10/30-DP
	15x40	13783	EV-15/40-DP
	15x63	13784	EV-15/63-DP
	20x120	13786	EV-20/120-DP
	20x180	13787	EV-20/180-DP
	20x75	13785	EV-20/75-DP

Pressure plate EV-....-DP for clamping module, round

	Size	Part no.	Type
	12	150690	EV-12-DP
	16	150691	EV-16-DP
	20	150692	EV-20-DP
	25	150693	EV-25-DP
	32	150694	EV-32-DP
	40	184860	EV-40-DP
	50	184861	EV-50-DP
	63	184862	EV-63-DP