



At a glance

Plug and work with the Simplified Motion Series



The simplicity of pneumatics is now combined for the first time with the advantages of electric automation thanks to the Simplified Motion Series.

These integrated drives are the perfect solution for all users who are looking for an electric alternative for very simple movement and positioning tasks between two mechanical end positions, but don't want the commissioning process for traditional electric drive systems that can often be quite complex.

The integrated electronics in the drive are at the heart of the Simplified Motion Series.

Integrated

Easy

For commissioning, simply set all relevant parameters directly on the drive:

- Speed and force
- Reference end position and cushioning
- Manual operation

Standardised

Electrical connection via M12 plug design

speed and force control

- Power (4-pin): power supply for the motor
- Logic (8-pin): control signal, sensor signal and power for the integrated electronics

Connected

There is no need for any software since operation is simply based on the "plug

and work" principle. Digital I/O (DIO) and IO-Link[®] are always automatically in-

cluded – a product with two types of control as standard.

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Use of extended functions possible via IO-Link[®]:

- Remote configuration of motion parameters
- Copy and backup function for transferring parameters
- Read function for extended process parameters
- Freely definable intermediate position
- · Firmware update

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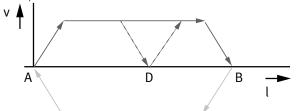
Extended motion profile for simplified press-fitting and clamping functions: with

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The functions of the Simplified Motion Series

Basic profile for movement between two end positions: with speed control



- These drives are designed for simple movements between two end positions.
- Proximity switches are required in order to implement any intermediate positions.

• With the intermediate position that can be freely configured via IO-Link[®], movements can be stopped at any point between the end positions, without the need for proximity switches or external stops

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At a glance · Without external servo drive: all the necessary electronic components are combined in the integrated drive - Two control options integrated as standard: digital I/O and IO-Link $^{\circledast}$ • Complete solution for simple movements between mechanical end positions • Simplified commissioning: all parameters can be manually set directly on the drive · No special expertise required for commissioning · End-position feedback similar to that of a conventional proximity switch is integrated as standard · Very high-quality ball screw with low internal friction · Ideal for precise and fast movement in sorting, distribution or clamping applications The products in the Simplified Motion Series Electric cylinder unit with parallel Electric cylinder unit Electric cylinder unit EPCE EPCS motor mounting EPCS Mini slide unit Mini slide unit with parallel motor Spindle axis unit Spindle axis unit with parallel motor EGSS-BS-KF mounting ELGS-BS-KF mounting EGSS-BS-KF ELGS-BS-KF Toothed belt axis unit Toothed belt axis unit Rotary drive unit ELGS-TB-KF ELGE ERMS Modular and flexible with motor, motor mounting kit and servo drive This product is also available as a modular mechanical system as electric cylinder EPCC-BS: When it comes down to flexibility and adaptability, the compact dimensions and different combinations are ideal for making



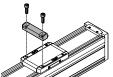
optimal use of the installation space.

- Compact: optimum ratio of installation space to working space
- Unique: "one-size-down" mounting system
- · Modular: individual combinations with motor, motor mounting kit and servo drive
- Flexible: wide range of mounting options for optimum machine integration

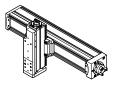
Combination matrix between axis ELGC-TB/ELGS-TB, ELGC-BS/ELGS-BS, mini slide EGSC-BS/EGSS-BS, electric cylinder EPCC-BS/EPCS-BS and guide axis ELFC Mounting options with profile mounting and with angle kit

		Assembly axis ELGC-BS/-TB; ELFC; EGSC-BS; EPCC-BS; ELGS-BS/-TB; EGSS-BS, EPCS-BS					
	Size	25	32	45	60		
Base axis	32	•	-	-	-		
ELGC-BS/-TB; ELFC;	45	-		-	-		
ELGS-BS/-TB	60	-	-		-		
	80	-	-	-			

With profile mounting EAHF-L2-...-P-D...



• Mounting option: base axis with one-size-down assembly axis

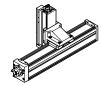




With angle kit EHAA-D-L2-...-AP



 Mounting option: base axis rotated through 90° with one-size-down assembly axis





Combination matrix between axis ELGC/ELGS-TB, ELGC/ELGS-BS, mini slides EGSC/EGSS-BS, electric cylinder EPCC/EPCS-BS and guide axis ELFC Mounting options with adapter kit or direct fastening

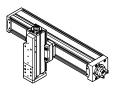
				BS/-TB; ELF		;EPCC-BS;
	Size	25	32	45	60	80
Base axis	32			-	-	-
ELGC-BS/-TB; ELFC;	45	-			-	-
ELGS-BS/-TB	60	-	-			-
	80	-	-	-	-	

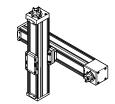
	Assembly axis EGSC-BS; EGSS-BS				
	Size	25	32	45	60
Base axis	25		-	-	-
EGSC-BS;	32	-		-	-
EGSS-BS	45	-	-		-
	60	-	-	-	

With adapter kit EHAA-D-L2

- Mounting option: base axis with the same size assembly axis
- Mounting option: base axis with height compensation for one-size-down assembly axis
- When motors are mounted using parallel kits, this may lead to interfering contours. In this case, the adapter plate is required for height compensation







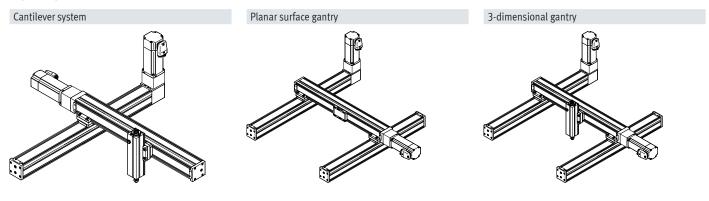
With direct mounting

• Mounting option: base axis with the same size assembly axis



Typical handling systems

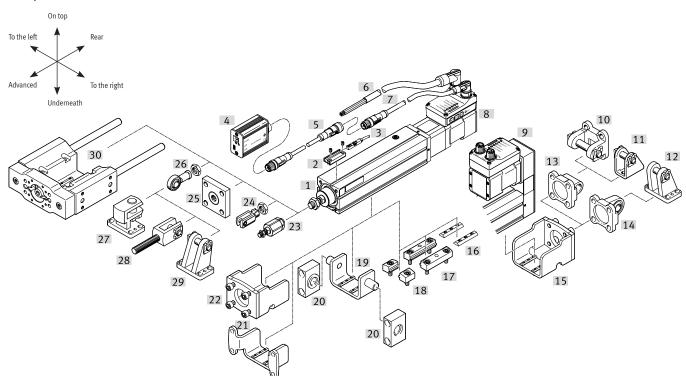
The axes ELGC can be combined into very space-saving handling systems that are suitable for assembly systems, test and inspection systems, small parts handling, the electronics industry and desktop applications where compact dimensions are essential. Combining the very compact linear axes ELGC, mini slides EGSC and electric cyl-inder EPCC offers an optimum ratio of installation space to working space. These feature a common system approach and platform architecture and the connections are largely adapterless.

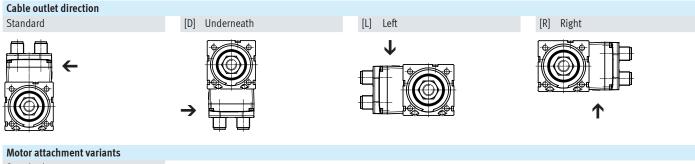


Type codes

001	Series	006	Position sensing	
EPCS	Electric cylinder	A	For proximity sensor	
002	Drive system	007	Motor type	
BS	Ball screw drive	ST	Stepper motor ST	
003	Size	008	Controller	
32	32	M	Integrated	
45	45			
60	60	009	Control panel	
		H1	Integrated	
004	Stroke	010	Bus protocol/activation	
25	25			
50	50	PLK	PNP and IO-Link® NPN and IO-Link®	
75 100	75 100	NLK	NPN and IO-LINK®	
100	125	011	End-position sensing	
125	150	AA	With integrated end-position sensing	
175	175		with megrated end-position sensing	
200	200	012	Cable outlet direction	
250	250		Standard	
300	300	D	Underneath	
350	350	L	Left	
400	400	R	Right	
500	500			
		013	Electrical accessories	
005	Spindle pitch		None	
3P	3 mm	L1	Adapter for operation as IO-Link® device	
5P	5 mm			
8P	8 mm	014	Operating instructions	
10P	10 mm		With operating instructions	
12P	12 mm	DN	Without operating instructions	

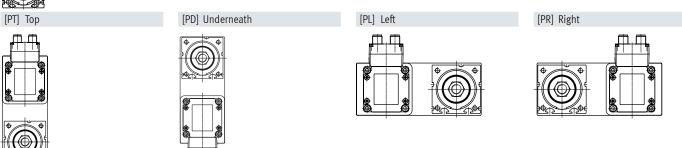
Peripherals overview



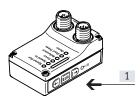


Standard





Control elements



[1] Pushbutton actuators for parameterisation and control

Type/order code Description → Page/Internet [1] Electric cylinder unit Electric drive 8 EPCS-BS [2] Sensor bracket¹⁾ For mounting the proximity switches on the axis. The proximity switches can only be mounted using the 40 EAPM-L2 sensor bracket [3] Proximity switch¹⁾ Magnetic proximity switches, for T-slot 40 SMT-8M IO-Link master USB [4] For straightforward use of the electric cylinder unit with IO-Link® 41 CDSU-1 [5] Adapter · Connection between the motor and the IO-Link master 41 NEFC-M12G8 • Only recommended for use with IO-Link® port class A master [6] Supply cable For connecting load and logic supply 41 NEBL-T12 Connecting cable [7] For connection to a controller 41 NEBC-M12 [8] Axial kit For axial motor mounting (included in the scope of delivery) 8 [9] Parallel kit For parallel motor mounting (included in the scope of delivery) 8 [10] Swivel flange With parallel motor mounting, for spherical bearing 37 SNCB [11] With parallel motor mounting, for spherical bearing Clevis foot 38 I BN [12] Clevis foot With parallel motor mounting, for spherical bearing 38 LBG/LBG-...-R3 [13] Swivel flange With parallel motor mounting 36 SNCL [14] Swivel flange With parallel motor mounting 35 SNCS/CRSNCS/SNCS-...-R3 [15] Adapter kit • For mounting the swivel flange and trunnion flange on the front 33 EAHA-P2 · Can only be mounted on the rear in conjunction with parallel kit EAMM-U [16] Slot nut For mounting the electric cylinder 38 ABAN Profile mounting • For mounting the axis on the side of the profile [17] 31 EAHF-L2-P · The profile mounting can be attached to the mounting surface using the drilled hole in the centre Profile mounting [18] For mounting the axis on the side of the profile 30 EAHF-L2-P-S For cylinders with trunnion flange mounting [19] Trunnion support 34 LNZG [20] Swivel mounting Position freely selectable along the cylinder length 34 EAHS-P2 [21] Flange mounting · For mounting the electric cylinder via the profile 32 EAHH-P2 · Position freely selectable along the cylinder length Adapter kit · For mounting the swivel flange and trunnion flange on the front 33 [22] EAHA-P2 · Can only be mounted on the rear in conjunction with parallel kit EAMM-U Self-aligning rod coupler To compensate for radial and angular deviations [23] 38 FK/CRFK [24] Rod clevis Permits a swivelling movement of the cylinder in one plane 38 SG/CRSG [25] Coupling piece To compensate for radial deviations 38 KSG [26] Rod eye With spherical bearing 38 SGS/CRSGS [27] For rod eye SGS Right angle clevis foot 38 LQG [28] Rod clevis For swivel mounting of the cylinder 38 SGA [29] Clevis foot With parallel motor mounting, for spherical bearing 38 LBG/LBG-...-R3 For protecting electric cylinders against rotation at high torque loads [30] Guide unit 39

1) Proximity switches are optional and only required in order to sense any intermediate positions.

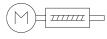
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Datasheet



- Ø Size 32 ... 60 - J - Stroke length
 - 25 ... 500 mm



General technical data

Size		32	45	60			
Design		Electric cylinder with ball screw	Electric cylinder with ball screw				
Motor type		Stepper motor					
Protection against rotation/guide		With plain-bearing guide					
Mounting position		Any					
Piston rod thread		M8	M10x1.25	M12x1.25			
Piston rod end		Male thread	-	· · · · · · · · · · · · · · · · · · ·			
Working stroke	[mm]	25, 50, 75, 100, 125, 150,	25, 50, 75, 100, 125, 150,	25, 50, 75, 100, 125, 150,			
		175,200	175, 200, 250, 300	175, 200, 250, 300, 350, 400, 500			
Stroke reserve	[mm]	0					
Max. angle of rotation of the piston rod	[°]	≤ ±1					
Additional functions		Built-in end-position sensing					
		User interface					
Display		LED					
Homing		Positive fixed stop block					
		Negative fixed stop block					
Type of mounting		Via female thread					
		Via accessories					
Max. cable length							
Inputs/outputs	[m]	15					
IO-Link [®] operation	[m]	20					

Mechanical data

Size		32		45		60	
Spindle design		3P	8P	3P	10P	5P	12P
	[mm/roy]	3					12
Spindle pitch	[mm/rev]	-	8	3	10	5	
Spindle diameter	[mm]	8	8	10	10	12	12
Max. payload							
Horizontal	[kg]	24	24	60	40	120	56
Vertical	[kg]	12	9	23	13	46	18
Max. feed force F _x	[N]	150	150	450	250	900	375
Max. radial force ¹⁾	[N]	75	75	180	180	230	230
Repetition accuracy	[mm]	±0.02	·			·	·
Reversing backlash ²⁾	[mm]	≤ 0.1					
Position sensing		Via proximity s	witch				
		Via IO-Link®					
With axial motor mounting							
Max. speed ³⁾	[m/s]	0.079	0.21	0.074	0.23	0.09	0.22
Speed "Speed Press" ⁴⁾	[m/s]	0.01	÷			·	·
Max. acceleration ⁴⁾	[m/s ²]	1.5	5	1.5	5	1.5	5
With parallel motor mounting			÷			·	·
Max. speed ³⁾	[m/s]	0.75	0.2	0.07	0.22	0.09	0.21
Speed "Speed Press" ⁴⁾	[m/s]	0.01	÷	•	·	· ·	·
Max. acceleration ⁴⁾	[m/s ²]	0.5	1.5	0.5	1.5	0.5	1.5

1) At the drive shaft

2) When new

3) Adjustable in increments of 10%

4) Unchangeable parameter

Datasheet

Electrical data					
Size		32	45	60	
Motor					,
Nominal voltage DC	[V]	24 (±15%)			
Nominal current	[A]	3	3	5.3	
Max. current consumption (load)	[A]	3	3	5.3	
Max. current consumption (logic)	[mA]	300	·	·	
Encoder					
Rotor position sensor		Absolute encoder, single to	ırn		-
Rotor position sensor measuring princi	ple	Magnetic			
Rotor position sensor resolution	[Bit]	16			
Interfaces					
Size		32	45	60	
Parameterisation interface					-
IO-Link [®]		Yes			
User interface		Yes			
Digital inputs					
Number		2			
Switching logic		PNP			
		NPN			
Characteristics		Not galvanically isolated			
		Configurable			
Specification		Based on IEC 61131-2, typ	e 1		-
Operating range	[V]	24			
Digital outputs		·			
Number		2			
Switching logic		PNP			-
		NPN			
Rotor position sensor		Absolute encoder, single tu	ırn		
Characteristics		Not galvanically isolated			
		Configurable			
Max. current	[mA]	100			

Datasheet

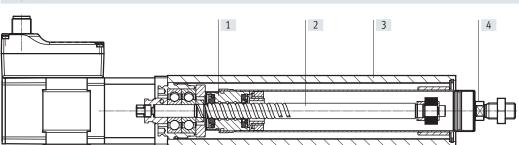
Technical data – IO-Link® 32 45 60 Size SIO mode support Yes Communication mode COM3 (230.4 kBd) Connection technology Plug Port class А Number of ports 1 Process data length OUT [byte] 2 1 (Move in) Process data content OUT [bit] [bit] 1 (Move out) [bit] 1 (Move Intermediate) [bit] 1 (Quit Error) Process data length IN [byte] 2 1 (State Device) Process data content IN [bit] [bit] 1 (State Move) [bit] 1 (State in) [bit] 1 (State out) 1 (State Intermediate) [bit] Service data content IN [bit] 32 (Force) [bit] 32 (Position) 32 (Speed) [bit] Minimum cycle time [ms] 1 [kilobyte] 0.5 Data memory required Protocol version Device V 1.1 Operating and environmental conditions 32 45 60 Size Insulation class В [°C] 0 ... +50 Ambient temperature Storage temperature [°C] -20 ... +60 Above an ambient temperature of 30°C, the power must be reduced by 2% per K Note on ambient temperature Switch-off in the event of over-temperature Temperature monitoring Integrated precise CMOS temperature sensor with analogue output Relative humidity [%] 0 ... 90 (non-condensing) Protection class Ш IP40 Degree of protection [%] Duty cycle 100 CE marking To EU EMC Directive for EMCS-ST → festo.com/sp To EU RoHS Directive UKCA marking (see declaration of conformity) To UK EMC regulations KC marking KC EMC Certification RCM Transport application test with severity level 1 to FN 942017-4 and EN 61800-2 and EN 61800-5-1 Vibration resistant Shock test with severity level 1 to FN 942017-5 and EN 61800-2 Shock resistance Lifetime lubrication Maintenance interval Waight

Weight				
Size		32	45	60
With axial motor mounting				
Basic weight with 0 mm stroke	[g]	818	1185	2294
Additional weight per 10 mm stroke	[g]	24	41	69
Moving mass with 0 mm stroke	[g]	98	179	305
Additional moving mass per 10 mm stroke	[g]	3.3	4.9	6.5
With parallel motor mounting				
Basic weight with 0 mm stroke	[g]	982	1308	2558
Additional weight per 10 mm stroke	[g]	24	41	69
Moving mass with 0 mm stroke	[g]	98	179	305
Additional moving mass per 10 mm stroke	[g]	3.3	4.9	6.5

Datasheet

Materials





Electric cylinder

[1]	Spindle nut	Steel		
[2]	Spindle	Roller bearing steel		
[3]	Housing	Smooth-anodised wrought aluminium alloy		
[4]	Piston rod	High-alloy stainless steel		
	Note on materials	RoHS-compliant		
	LABS (PWIS) conformity	VDMA24364 zone III		

Pin allocation

Power supply

Plug

M12x1, 4-pin, T-coded to EN 61076-2-111



Logic interface

Plug

M12x1, 8-pin, A-coded to EN 61076-2-101



Pin	Function	
1	Power voltage supply (24 V DC)	
2	Reference potential, power voltage supply (GND)	
3	Reserved, do not connect	
4	Functional earth (FE)	
	·	

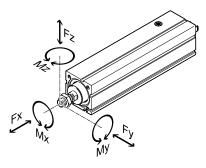
When used with digital I/O

Pin	Function
1	Logic voltage supply (24 V DC)
2	Digital output 1 (State "In")
3	Digital output 2 (State "Out")
4	Reference potential, logic voltage supply (GND)
5	Digital input 1 (Move "In")
6	Digital input 2 (Move "Out")
7	Reserved, do not connect
8	Reference potential, logic voltage supply (GND)

When used wi	When used with IO-Link®			
Pin	Function			
1	L+ IO-Link [®] power supply (24 V DC)			
2	Reserved, do not connect			
3	C/Q communication with the IO-Link master			
4	L – Reference potential, IO-Link [®] power supply (0 V)			
5	Reserved, do not connect			
6	Reserved, do not connect			
7	Reserved, do not connect			
8	L – Reference potential, IO-Link [®] power supply (0 V)			

Datasheet

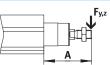
Maximum permissible loads on the piston rod



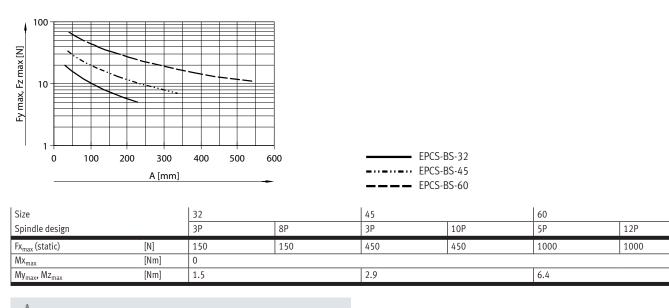
If there are two or more forces and torques simultaneously acting on the piston rod, the following equations must be satisfied: $F_1/M_1 = dynamic value$ $F_2/M_2 = maximum value$

$$\begin{split} f_{\nu} &= \frac{\left|F_{y1}\right|}{F_{y2}} + \frac{\left|F_{z1}\right|}{F_{z2}} + \frac{\left|M_{y1}\right|}{M_{y2}} + \frac{\left|M_{z1}\right|}{M_{z2}} \leq 1 \\ \left|Fx\right| &\leq Fx_{max} \end{split}$$

$$|Mx| \leq Mx_{max}$$



Maximum permissible lateral forces $\mathrm{Fy}_{\mathrm{max}}$ and $\mathrm{Fz}_{\mathrm{max}}$ on the piston rod as a function of projection A



- 📲 - Note

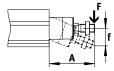
Engineering software

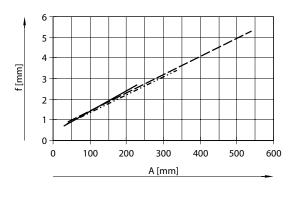
Electric Motion Sizing

 \rightarrow www.festo.com/x/electric-motion-sizing

Datasheet

Piston rod deflection f_2 as a function of projection A and lateral force ${\sf F}$





EPCS-BS-32 ($F_2 = 3.5 \text{ N}$) EPCS-BS-45 ($F_2 = 4.0 \text{ N}$)

---- EPCS-BS-60 ($F_2 = 8.0 \text{ N}$)

 $f_1 = \frac{F_1}{F_2} \cdot f_2$

- f_1 = Piston rod deflection caused by lateral force [mm]
- F₁ = Lateral force [N]
- F₂ = Standardised lateral force [N] (constant force from graph)
- $\begin{array}{ll} f_2 & = \mbox{Piston rod deflection caused by lateral force [N]} \\ & (\mbox{reading from graph}) \end{array}$

Example: Electric cylinder EPCS-32-50-8P with a lateral force of 7 N $F_1 = 7 \text{ N}$ and $F_{standard} = 3.5 \text{ N}$

Value read from graph for EPCS-32 and projection = 50 mm $\rm f_2$ = 1 mm

Calculation of deflection caused by lateral force:

$$f_1 = \frac{F_1}{F_2} \cdot f_2 = \frac{3N}{1.5N} \cdot 1 \, mm = 2 \, mm$$

Datasheet

Calculating the mean feed force F_{xm} with the electric cylinder EPCS

The peak feed force value must not exceed the maximum feed force within a movement cycle. The peak value is generally achieved in vertical operation during the acceleration phase of the upwards stroke. If the maximum feed force is exceeded, this can increase wear and thus shorten the service life of the ball screw. The maximum speed must likewise not be exceeded:

Calculating the mean feed force F_{xm} (to DIN 69051-4)

During operation, the continuous feed force may be briefly exceeded up to the maximum feed force. The continuous feed force must, however, be adhered to when averaged over a movement cycle:

 $F_{xm} \leq F_{xcontinuous}$

 $F_x \leq F_{xmax}$

 $V_x \le V_{xmax}$

and

Fxmax

Fxm

Fxз

q3

$$F_{xm} = \sqrt[3]{\sum F_x^3 \cdot \frac{v_x}{v_{xm}} \cdot \frac{q}{100}} =$$

$$F_{xm} = \sqrt[3]{F_{x1}^3 \cdot \frac{v_{x1}}{v_{xm}} \cdot \frac{q_1}{100} + F_{x2}^3 \cdot \frac{v_{x2}}{v_{xm}} \cdot \frac{q_2}{100} + F_{x3}^3 \cdot \frac{v_{x3}}{v_{xm}} \cdot \frac{q_3}{100}} + \cdots$$



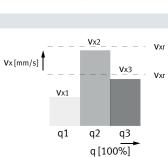
$$v_{xm} = \sum v_x \cdot \frac{q}{100} = v_{x1} \cdot \frac{q_1}{100} + v_{x2} \cdot \frac{q_2}{100} + v_{x3} \cdot \frac{q_3}{100} + \cdots$$

- F_x Feed force
- Mean feed force F_{xm}
- Max. feed force F_{xmax}.
- F_{xcontinuous} Continuous feed force
- q Time

Feed speed V_x

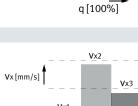
Mean feed speed V_{xm}

Max. Feed speed V_{xmax}.



Fx2

q2



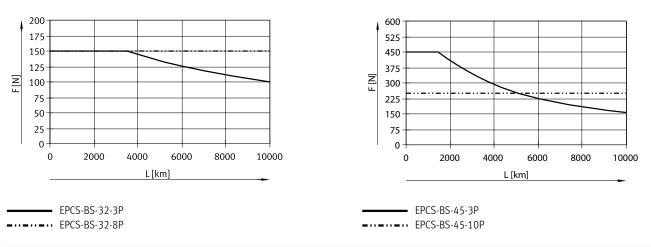
Fx1

q1

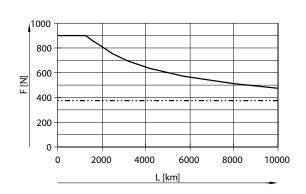
Fx[N]

Datasheet

Mean feed force F_{xm} as a function of running performance L, with an operating coefficient f_B of 1.0 at room temperature Size 32 Size 45



Size 60



EPCS-BS-60-5P EPCS-BS-60-12P

 $L_1 = \frac{L}{f_B^3}$

L Actual service life L Target service life (→ graphs)

 $f_B \quad \text{Operating coefficient} \quad$

Service life taking into account the operating coefficient

Load ¹⁾	Operating coefficient f _B	Sample application
None	1.0 1.2	Measuring machine
Light	1.2 1.4	Handling, robot technology
Medium	1.4 1.6	Press-in operations
High	1.6 2.0	Construction, agriculture

1) This refers to stress caused by impact, temperature, contamination, shock and vibrations that affect the cylinder or piston rod.

- 🖡 - Note

The specifications for running performance are based on experimentally determined and theoretically calculated data (at room temperature). The running performance that can be achieved in practice can deviate considerably from the specified curves under different parameters.

Datasheet

Sizing example

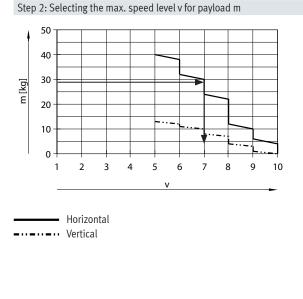
Application data:Payload: 25 kg

- Mounting position: horizontal
- Motor mounting position: axial
- Stroke: 150 mm
- Max. permissible positioning time: 2 s (one direction)

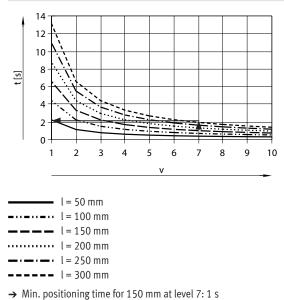
Step 1: Selecting the smallest possible size from the table \rightarrow page 10

Mechanical data							
Size		32		45		60	
Spindle design		3P	8P	3P	10P	5P	12P
Max. payload							
Horizontal	[kg]	24	24	60	40	120	56
Vertical	[kg]	12	9	23	13	46	18

→ Smallest possible size: EPCS-BS-45-10P



Step 3: Reading off the min. positioning time t for stroke l



 \rightarrow Max. speed level for the payload: level 7

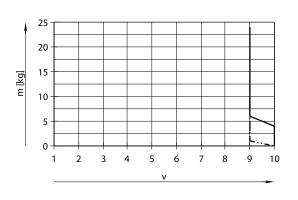
Result

The application can be implemented using EPCS-BS-45-150-10P. A minimum positioning time (one direction) of 1 s is achieved. Longer positioning times can be selected at any time using a lower speed level.

Datasheet

Mass m as a function of speed level v With axial kit

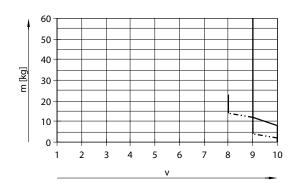




Horizontal

----- Vertical

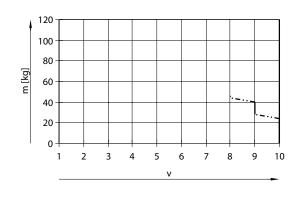
EPCS-BS-45-3P



Horizontal

------ Vertical

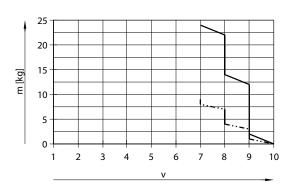
EPCS-BS-60-5P



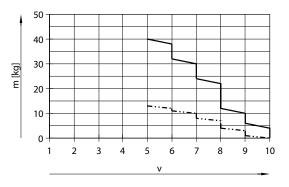
Horizontal

- Join Provide the maximum values. The lower speed levels can be set at any time.

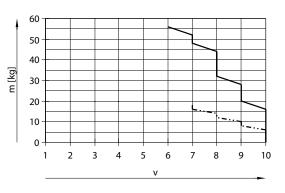
EPCS-BS-32-8P



EPCS-BS-45-10P



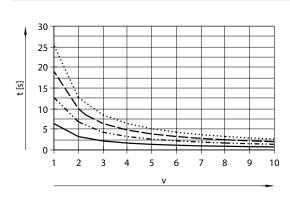
EPCS-BS-60-12P



NEW

Datasheet

Positioning time t as a function of speed level v and stroke l With axial kit EPCS-BS-32-3P

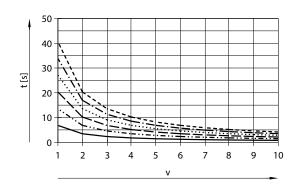


10 8 t [s] 6 4 2 0 -5 8 9 10 2 3 4 6 7 1 v

	l = 50 mm
	l = 100 mm
	l = 150 mm
•••••	l = 200 mm

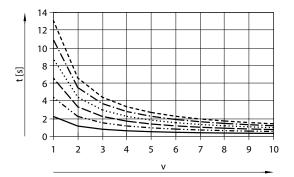
EPCS-BS-45-3P

l = 50 mm l = 100 mm l = 150 mm l = 200 mm



 l = 50 mm
 l = 100 mm
 l = 150 mm
 l = 200 mm
 l = 250 mm
 l = 300 mm

EPCS-BS-45-10P



 l = 50 mm
 l = 100 mm
 l = 150 mm
 l = 200 mm
 l = 250 mm
 l = 300 mm

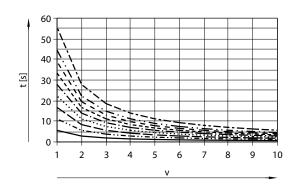
EPCS-BS-32-8P

12

Datasheet

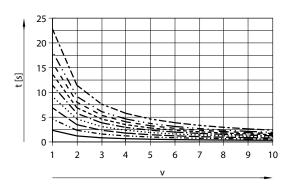
Positioning time t as a function of speed level v and stroke l With axial kit

EPCS-BS-60-5P



	l = 50 mm
	l = 100 mm
	l = 150 mm
	l = 200 mm
	l = 250 mm
	l = 300 mm
	l = 350 mm
<u> </u>	l = 400 mm
	l = 500 mm

EPCS-BS-60-12P

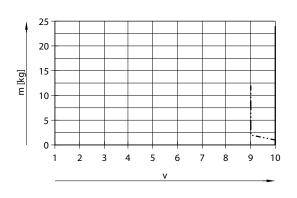


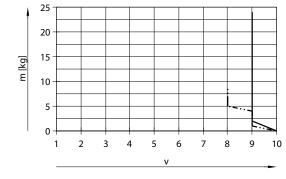
	l = 50 mm
	l = 100 mm
	l = 150 mm
	l = 200 mm
	l = 250 mm
	l = 300 mm
	l = 350 mm
— · · —	l = 400 mm
	l = 500 mm

NEW

Datasheet

Mass m as a function of speed level v With parallel kit EPCS-BS-32-3P

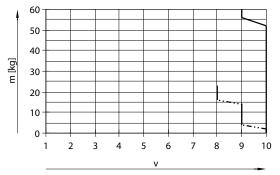




----- Vertical

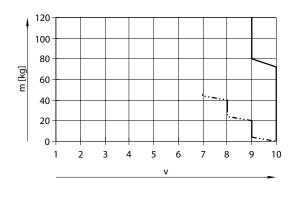
Horizontal

EPCS-BS-45-3P



Horizontal

EPCS-BS-60-5P



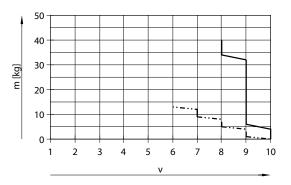
Horizontal

- 闄 - Note

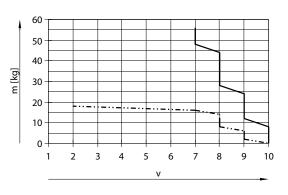
The lines represent the maximum values. The lower speed levels can be set at any time.

EPCS-BS-45-10P

EPCS-BS-32-8P



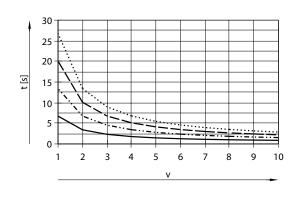
EPCS-BS-60-12P



Datasheet

Positioning time t as a function of speed level v and stroke l With parallel kit

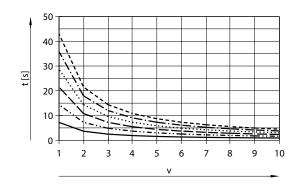
EPCS-BS-32-3P



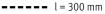
l = 50 mm l = 100 mm l = 150 mm

..... l = 200 mm

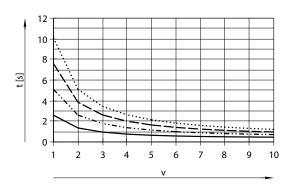
EPCS-BS-45-3P



 l = 50 mm
 l = 100 mm
 l = 150 mm
 l = 200 mm
 l = 250 mm

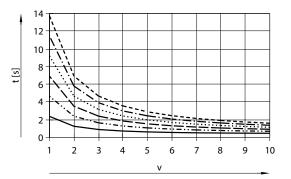


EPCS-BS-32-8P



 l = 50 mm
 l = 100 mm
 l = 150 mm
 l = 200 mm

EPCS-BS-45-10P

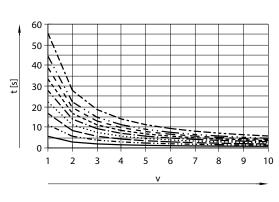


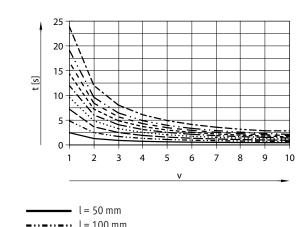
 l = 50 mm
 l = 100 mm
 l = 150 mm
 l = 200 mm
 l = 250 mm
 l = 300 mm

NEW

Datasheet

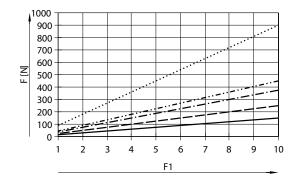
Positioning time t as a function of speed level v and stroke l With parallel kit EPCS-BS-60-5P





 l = 50 mm
 l = 100 mm
 l = 150 mm
 l = 200 mm
 l = 250 mm
 l = 300 mm
 l = 350 mm
 l = 400 mm
 l = 500 mm

Feed force F as a function of force level F1

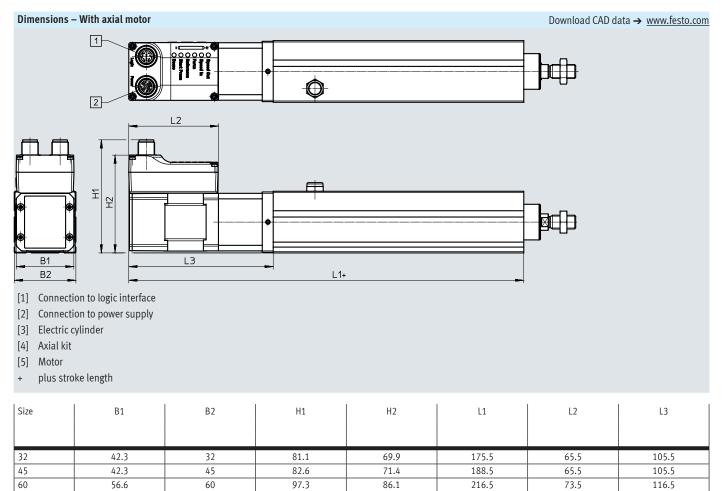


	l = 100 mm
	l = 150 mm
•••••	l = 200 mm
	l = 250 mm
	l = 300 mm
	l = 350 mm
<u> </u>	l = 400 mm
	l = 500 mm

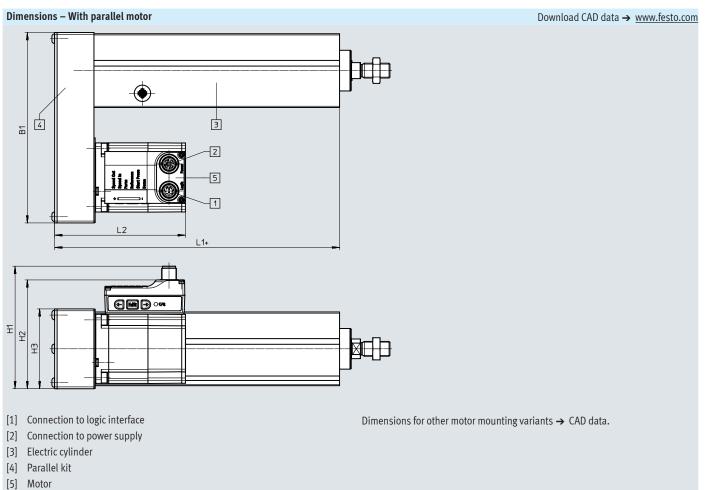
EPCS-BS-60-12P

	EPCS-BS-32-3P/-8P
	EPCS-BS-45-3P
	EPCS-BS-45-10P
	EPCS-BS-60-5P
— · — · — ·	EPCS-BS-60-12P

Datasheet



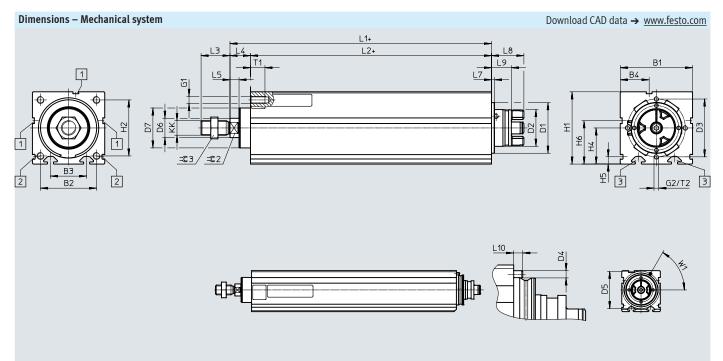
Datasheet



+ plus stroke length

Size	B1	H1	H2	НЗ	L1	L2
32	111	83	72	45	94	90.7
45	111	83	72	45	107	90.7
60	155	100	90	65	132	107.7

Datasheet



[1] For sensor bracket

- 🗍 - Note

either way.

[2] For profile mounting[3] For slot nut mounting

For a spanner flat = C 2 can be aligned

[3] For slot nut mountin+ plus stroke length

Size	B1	B2	B3	B4	B5	D1 Ø	D2 Ø	D3 Ø	D4 Ø
	±0.15					Ø	Ø	Ø	Ø
32	32	24	16	8.1	25.5	25	15.5	-	2
45	45	32.5	24	16.5	35	32	16.3	-	3
60	60	46.5	30	24	48.5	42	31.4	48	-
Size	D5	D6	D7	G1	G2	H1	H2	H4	Н5
	ø	ø	ø						-
						±0.15			
32	31	10	21.3	M4	-	34	24	-	4.9
45	41	12	26.5	M5	-	45	32.5	-	6.1
60	-	16	33.6	M6	M4	60	46.5	30	6.1
Size	H6	КК	L1	L2	L3	L4	L5	L6	L7
	+0.15								
32	26	M8	82.9	70	16	12.9	5.2	24.2	6
45	28.5	M10x1.25	99.9	83	20	16.9	5.7	30.5	6
60	36	M12x1.25	116	100	24	16	7.5	39.5	2.5
Size	L8	L9	L10	T1	. 1	T2	W1	=@2	-©3
								02	
32	19.9	14.5	2.5	8		-	60°	9	13
45	19.9	14.5	3	10)	-	60°	10	16
60	26.9	16.5	-	12	2	10	-	13	18

Datasheet

Ordering data

EPCS-BS-32						
Stroke	Part no.	Туре		Stroke	Part no.	Туре
[mm]				[mm]		
Spindle pitch	Spindle pitch 3 mm/rev				8 mm/rev	
50	8118267	EPCS-BS-32-50-3P-A-ST-M-H1-PLK-AA	1	50	8118271	EPCS-BS-32-50-8P-A-ST-M-H1-PLK-AA
100	8118268	EPCS-BS-32-100-3P-A-ST-M-H1-PLK-AA		100	8118272	EPCS-BS-32-100-8P-A-ST-M-H1-PLK-AA
150	8118269	EPCS-BS-32-150-3P-A-ST-M-H1-PLK-AA]	150	8118273	EPCS-BS-32-150-8P-A-ST-M-H1-PLK-AA
200	8118270	EPCS-BS-32-200-3P-A-ST-M-H1-PLK-AA		200	8118274	EPCS-BS-32-200-8P-A-ST-M-H1-PLK-AA

EPCS-BS-45

EPCS-BS-45						
Stroke	Part no.	Туре		Stroke	Part no.	Туре
[mm]				[mm]		
Spindle pitch	3 mm/rev]	Spindle pitch	10 mm/rev	
50	8118275	EPCS-BS-45-50-3P-A-ST-M-H1-PLK-AA		50	8118281	EPCS-BS-45-50-10P-A-ST-M-H1-PLK-AA
100	8118276	EPCS-BS-45-100-3P-A-ST-M-H1-PLK-AA		100	8118282	EPCS-BS-45-100-10P-A-ST-M-H1-PLK-AA
150	8118277	EPCS-BS-45-150-3P-A-ST-M-H1-PLK-AA		150	8118283	EPCS-BS-45-150-10P-A-ST-M-H1-PLK-AA
200	8118278	EPCS-BS-45-200-3P-A-ST-M-H1-PLK-AA		200	8118284	EPCS-BS-45-200-10P-A-ST-M-H1-PLK-AA
250	8118279	EPCS-BS-45-250-3P-A-ST-M-H1-PLK-AA		250	8118285	EPCS-BS-45-250-10P-A-ST-M-H1-PLK-AA
300	8118280	EPCS-BS-45-300-3P-A-ST-M-H1-PLK-AA		300	8118286	EPCS-BS-45-300-10P-A-ST-M-H1-PLK-AA

EPCS-BS-60						
Stroke	Part no.	Туре		Stroke	Part no.	Туре
[mm]				[mm]		
Spindle pitch	5 mm/rev		1 [Spindle pitch	12 mm/rev	
50	8118287	EPCS-BS-60-50-5P-A-ST-M-H1-PLK-AA		50	8118296	EPCS-BS-60-50-12P-A-ST-M-H1-PLK-AA
100	8118288	EPCS-BS-60-100-5P-A-ST-M-H1-PLK-AA] [100	8118297	EPCS-BS-60-100-12P-A-ST-M-H1-PLK-AA
150	8118289	EPCS-BS-60-150-5P-A-ST-M-H1-PLK-AA] [150	8118298	EPCS-BS-60-150-12P-A-ST-M-H1-PLK-AA
200	8118290	EPCS-BS-60-200-5P-A-ST-M-H1-PLK-AA] [200	8118299	EPCS-BS-60-200-12P-A-ST-M-H1-PLK-AA
250	8118291	EPCS-BS-60-250-5P-A-ST-M-H1-PLK-AA		250	8118300	EPCS-BS-60-250-12P-A-ST-M-H1-PLK-AA
300	8118292	EPCS-BS-60-300-5P-A-ST-M-H1-PLK-AA		300	8118301	EPCS-BS-60-300-12P-A-ST-M-H1-PLK-AA
350	8118293	EPCS-BS-60-350-5P-A-ST-M-H1-PLK-AA		350	8118302	EPCS-BS-60-350-12P-A-ST-M-H1-PLK-AA
400	8118294	EPCS-BS-60-400-5P-A-ST-M-H1-PLK-AA		400	8118303	EPCS-BS-60-400-12P-A-ST-M-H1-PLK-AA
500	8118295	EPCS-BS-60-500-5P-A-ST-M-H1-PLK-AA		500	8118304	EPCS-BS-60-500-12P-A-ST-M-H1-PLK-AA

Ordering data – Modular product system

Ordering table							
Size		32	45	60	Conditions	Code	Enter code
Module no.		8118264	8118265	8118266			
Series		EPCS				EPCS	EPCS
Drive system		Ball screw				-BS	-BS
Size		32	45	60			
Stroke	[mm]	25, 50, 75, 100, 125, 150,	25, 50, 75, 100, 125, 150,	25, 50, 75, 100, 125, 150,			
		175, 200	175, 200, 250, 300	200, 250, 300, 350, 400, 500			
Spindle pitch	[mm]	3	3	-		P	
		-	-	5			
		8	-	-			
		-	10	-			
		-	-	12			
Position sensing		Via proximity switch				-A	-A
Motor type		Stepper motor ST				-ST	-ST
Controller		Built in				-M	-M
Operator panel		Built in				-H1	-H1
Bus protocol/activation		NPN and IO-Link®				-NLK	
		PNP and IO-Link®				-PLK	
End-position detection		With integrated end-position s	ensing			-AA	-AA
Cable outlet direction		Standard			[1]		
		To the left			[2]	-L	
		Underneath			[3]	-D	
		To the right			[4]	-R	
Motor attachment position		Axial (standard)					
		Parallel, left			[5]	-PL	
		Parallel, right			[6]	-PR	
		Parallel, underneath			[7]	-PD	
		Parallel, top			[8]	-PT	
Electrical accessories		None					
		Adapter for operation as IO de	vice			+L1	
Operating instructions		With operating instructions					
		Without operating instructions				DN	

[1] Not with motor mounting position PD

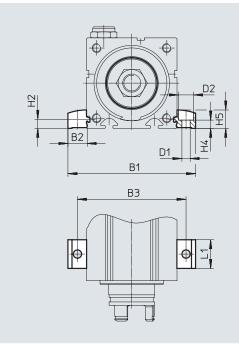
[2] Not with motor mounting position PR

Not with motor mounting position PR
 Not with motor mounting position PT
 Not with motor mounting position PL
 Not in combination with cable outlet direction R
 Not in combination with cable outlet direction L
 Not in combination with cable outlet direction standard
 Not in combination with cable outlet direction D

Accessories

Profile mounting EAHF-L2-...-P-S

Material: Anodised wrought aluminium alloy RoHS-compliant



Dimensions and ordering data

For size	B1	B2	B3	D1	D2	H2
				Ø	ø	
				H13	H13	
32	51.4	9.7	42	4.5	8	4.9
45	70.6	12.8	58	5.5	10	6.1
60	85.6	12.8	73	5.5	10	6.1

For size	H4 ±0.1	H5	L1	Weight [g]	Part no.	Туре
32	4.2	9	19	4	5183153	EAHF-L2-25-P-S
45	5.5	12.2	19	6	5184133	EAHF-L2-45-P-S
60	5.5	12.2	19	6	5184133	EAHF-L2-45-P-S

• For mounting the cylinder on the side of the profile

Accessories

Profile mounting EAHF-L2-...-P

Material: Anodised wrought aluminium alloy RoHS-compliant

- Dimensions and ordering data

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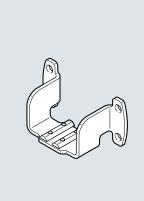
Dimensions and	oracing auto							
For size	B1	B2	B3	D1	D2	D3		H2
				Ø	ø	ø		
				H13	H13			
32	51.4	9.7	42	4.5	8	4		4.9
45	70.6	12.8	58	5.5	10	5		6.1
60	85.6	12.8	73	5.5	10	5		6.1
For size	H4 ±0.1	H5	L1	L2	Weight [g]	Part no.	Туре	
32	4.2	9	53	40	19	4835684	EAHF-L2-2	5-P
45	5.5	12.2	53	40	35	4835728	EAHF-L2-4	5-P
60	5.5	12.2	53	40	35	4835728	EAHF-L2-4	

• For mounting the cylinder on the side of the profile. The profile mounting can be attached to the mounting surface using the drilled hole in the centre

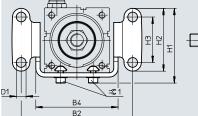
Accessories

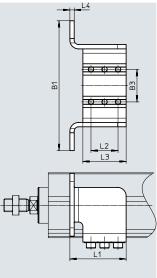
Flange mounting EAHH

Material: Galvanised steel RoHS-compliant



The position is freely selectable along the entire cylinder length L2 (\rightarrow page 27).





Dimensions and	ordering data									
For size	B1	B2	B3	B4	D1 Ø	H1		12	H3	L1
			±0.1							
32	70	58	16	42	5.5	39		31	20	38
45	100	85	24	61	6.6	54.5		48	35	42
60	120	103	30	76	9	69		58	42	52
For size	L2	L3	L4		=G1 CR	2C ¹⁾	Weight	Part no	o. Ty	pe
							[g]			
32	20	30	2.5		2.5 1		80	51261	.57 EA	HH-P2-32
45	20	30	4		2.5 1		185	51266	69 EA	HH-P2-45
60	25	40	4		4 1		320	51270	05 EA	HH-P2-60

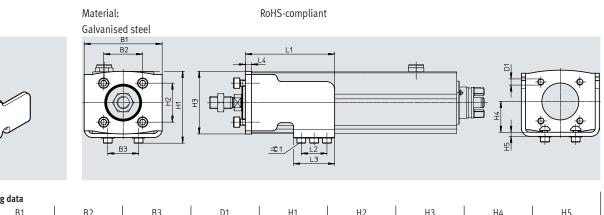
1) Corrosion resistance class CRC 1 to Festo standard FN 940070

Low corrosion stress. Dry internal application or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, or parts that are covered in the application (e.g. drive trunnions).

NEW

Accessories

Adapter kit EAHA



Dimensions and ordering data

Dimensions and	ordering data											
For size	B1	B2	B3	D1	H1		H2		H3	H4		H5
		±0.2	±0.1				±0.2					
32	53	22	16	M5	42		22		37	18		2.5
45	61	32.5	24	M6	54		32.5		49	22.5		4
60	76	38	30	M6	69.	5	38		61	30		4
For size	L1	L2	L3	L4	=©1	CRC ¹⁾		Weight [g]	Part no	o.	Гуре	
32	64	20	30	4	2.5	1		165	51730)20 I	EAHA-P2	-32
			20	(2.5	1		340	51723	153	EAHA-P2	.45
45	68	20	30	6	2.5	1		540	51725	ין ככי		-+J

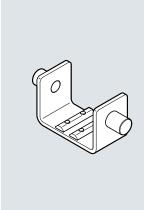
1) Corrosion resistance class CRC 1 to Festo standard FN 940070

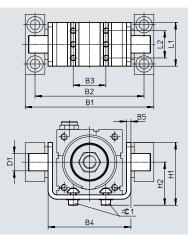
Low corrosion stress. Dry internal application or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, or parts that are covered in the application (e.g. drive trunnions).

Accessories

Swivel mounting EAHS

Material: Galvanised steel RoHS-compliant





The position is freely selectable along the entire cylinder length L2 (\rightarrow page 27).

1

Dimensions and ordering data

Dimensions and	ordering data							
For size	B1	B2	B3		34	B5	D1	H1
							ø	
			±0.1				e9	
32	68	57	16		2	2.5	8	32
45	98	83	24		52	4	12	44.5
60	118	100	30		'6	4	16	57
			·					
For size	H2	L1	L2			Luci e e		1
			LZ	=©1	CRC ¹⁾	Weight	Part no.	Туре
			LZ	-61	CRC ¹⁾	Weight	Part no.	Туре
			LZ	=61	CRC ¹⁾	Weight [g]	Part no.	Туре
32	23.5	30	20	2.5	1		Part no. 5125041	Type EAHS-P2-32
32 45	23.5 29.5				1 1	[g]		

1) Corrosion resistance class CRC 1 to Festo standard FN 940070

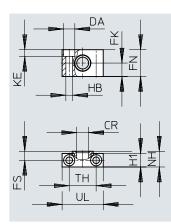
Low corrosion stress. Dry internal application or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, or parts that are covered in the application (e.g. drive trunnions).

Trunnion support LNZG

Material:

Trunnion support: Anodised aluminium Plain bearing: Plastic Free of copper and PTFE RoHS-compliant





Dimensions and ordering data

Dimensions and o	ucring uu														
For size	CR	DA	FK	FN	FS	H1	HB	KE	NH	ТН	UL	CRC ¹⁾	Weight	Part no.	Туре
	Ø	ø	ø				ø								
	D11	H13	±0.1				H13			±0.2			[g]		
32	8	8	10	20	7.5	11	4.5	4.6	13	20	30	2	26	1434912	LNZG-16
										20	50	-	20	1454512	LILO IO
45	12	11	15	30	10.5	15	6.6	6.8	18	32	46	2	83	32959	LNZG-32

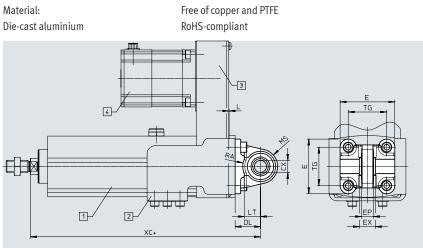
1) Corrosion resistance class CRC 2 to Festo standard FN 940070

Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements that are in direct contact with a normal industrial environment.

Accessories

Swivel flange SNCS







- [1] Electric cylinder unit EPCS
- Adapter kit EAHA [2]
- [3] Motor mounting kit EAMM-U
- [4] Motor
- = plus stroke length +

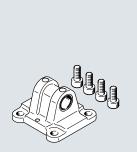
Dimensions and ordering data

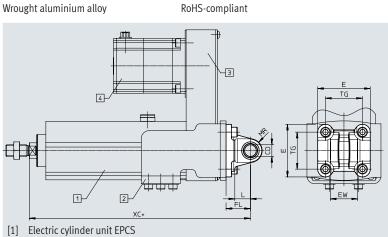
Dimensions and ord	cing uata							
For size	CX	DL	E	L L		EP	EX	LT
		±0.2				±0.2		
45	10+0.13	22	45+0.2/-0.5	; 3		10.5	14	13
60	12+0.15	25	54 _{-0.5}	3		12	16	16
For size	MS	RA	TG	XC	CRC ¹⁾	Weight	Part no.	Туре
						[g]		
45	15	14.5	32.5	154.9	1	86	174397	SNCS-32
60	17	17.5	38	182	1	122	174398	SNCS-40

1) Corrosion resistance class CRC 1 to Festo standard FN 940070

Low corrosion stress. Dry internal application or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, or parts that are covered in the application (e.g. drive trunnions).

Swivel flange SNCL





Free of copper and PTFE

- Electric cylinder unit EPCS
- Adapter kit EAHA [2]
- [3] Motor mounting kit EAMM-U
- Motor [4]

Material:

= plus stroke length

Dimensions and ordering data

CD	E	EW	FL	L	LT
ø					
H10		h12	±0.2		
6	27.5 _{-0.6}	12 _{h12}	16	3	10
8	34.5 _{-0.6}	16 _{h12}	20	3	14
10	45 _{+0.2/-0.5}	26-0.2/-0.6	22	3	13
12	54 _{-0.5}	28_0.2/-0.6	25	3	16
	CD Ø H10 6 8	CD E Ø H10 6 27.5 _{-0.6} 8 34.5 _{-0.6} 10 45 _{+0.2/-0.5}	CD E EW Ø 10 12 6 27.5 _{-0.6} 12 _{h12} 8 34.5 _{-0.6} 16 _{h12} 10 45 _{+0.2/-0.5} 26 _{-0.2/-0.6}	CD E EW FL Ø h12 ±0.2 H10 h12 16 6 27.5-0.6 16 _{h12} 20 8 34.5-0.6 16 _{h12} 20 10 45 _{+0.2/-0.5} 26-0.2/-0.6 22	CD E EW FL L Ø h12 ±0.2 10 3 6 27.5_{-0.6} 12 _{h12} 16 3 8 34.5_{-0.6} 16 _{h12} 20 3 10 45 _{+0.2/-0.5} 26 _{-0.2/-0.6} 22 3

For size	MR	TG	XC	CRC ¹⁾	Weight	Part no.	Туре
					[g]		
25	6	18	115.7	2	21	537791	SNCL-16
32	8	22	133.9	2	38	537792	SNCL-20
45	10	32.5	154.9	1	71	174404	SNCL-32
60	12	38	182	1	95	174405	SNCL-40

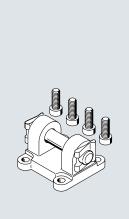
1) Corrosion resistance class CRC 1 to Festo standard FN 940070

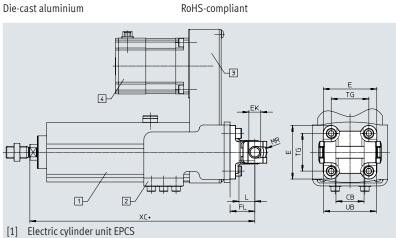
Low corrosion stress. Dry internal application or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, or parts that are covered in the application (e.g. drive trunnions). Corrosion resistance class CRC 2 to Festo standard FN 940070

Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements that are in direct contact with a normal industrial environment.

Accessories

Swivel flange SNCB





Free of copper and PTFE

- [2] Adapter kit EAHA
- [3] Motor mounting kit EAMM-U
- [4] Motor

Material:

+ = plus stroke length

Dimensions and ordering data

Dimensions and	oruering uata							
For size	CB	E	EK	FL		L	LT	MR
			ø					
	H14		H10/e8	±0.2				-0.5
45	26	45+0.2/-0.5	10	22		3	13	8.5
60	28	54 _{-0.5}	12	25		3	16	12
For size	TG	UB		XC	CRC ¹⁾	Weight	Part no.	Туре
		h14				[g]		
45	32.5	45		154.9	1	103	174390	SNCB-32
60	38	52		182	1	155	174391	SNCB-40

1) Corrosion resistance class CRC 1 to Festo standard FN 940070

Low corrosion stress. Dry internal application or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, or parts that are covered in the application (e.g. drive trunnions).

Accessories

Designation	- Mounting comp	Part no.	Туре	Designation	For size	Part no.	Datasheets → Internet: clevis foo Type
Right angle cle				Clevis foot LBG	-		
	45	31768	LQG-32		45	31761	LBG-32
	60	31769	LQG-40		60	31762	LBG-40
Clevis foot LBN							
ta-	32	6059	LBN-2 0/25				
)rdering data	– Piston rod attac	hments				Datashee	ts \rightarrow Internet: piston rod attachme
Designation	For size	Part no.	Туре	Designation	For size	Part no.	Туре
Rod eye SGS				Rod clevis SG			
	32	9255	SGS-M8		32	3111	SG-M8
		02(4	000 11/0 / 00		15	6411	CC 1440-4 05

Rod eye SGS				Rod clevis SG			
	32	9255	SGS-M8		32	3111	SG-M8
a v	45	9261	SGS-M10x1.25		45	6144	SG-M10x1.25
ØD [®]	60	9262	SGS-M12x1.25		60	6145	SG-M12x1.25
f-aligning r	od coupler FK			Rod clevis SGA			
	32	2062	FK-M8		45	32954	SGA-M10x1.2
	45	6140	FK-M10x1.25		60	10767	SGA-M12x1.2
SPP /	60	6141	FK-M12x1.25				
oupling piece	KSG						
	45	32963	KSG-M10x1.25				
$\overline{}$	60	32964	KSG-M12x1.25				
@°[
\checkmark							

Ordering data – I	Push-in fitting for sealing air connection			
	For size	Part no.	Туре	PU ¹⁾
	32	133003	QSM-M5-3-I-R	10
		133004	QSM-M5-4-I-R	
	45	186266	QSM-G1/8-4-I	
		186267	QSM-G1/8-6-I	
	60	186108	QS-G1/4-6-I	
		186110	QS-G1/4-8-I	

1) Packaging unit

Ordering data – S	Slot nut				PU ¹⁾
	For size	Description	Part no.	Туре	
(F)	32,45	For mounting the electric cylinder unit	8169987	ABAN-3-3M3-30-M-P2	2
E ST	60		8169988	ABAN-5-3M5-40-M-P2	
(B)					

1) Packaging unit

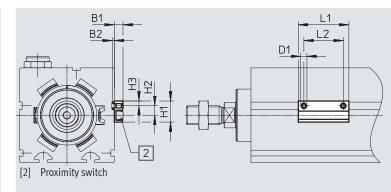
Ordering data – Guide u	nits		Datasheets → Internet: eagf
	Stroke	Part no.	Туре
	[mm]		
\square	For size 32		
	50	8158032	EAGF-P2-KF-32-50
	100	8158029	EAGF-P2-KF-32-100
i i i	150	8158027	EAGF-P2-KF-32-150
	200	8158028	EAGF-P2-KF-32-200
	25, 75, 125, 175	8158030	EAGF-P2-KF-32-
	For size 45		
	50	8158131	EAGF-P2-KF-45-50
	100	8158123	EAGF-P2-KF-45-100
	150	8158125	EAGF-P2-KF-45-150
	200	8158127	EAGF-P2-KF-45-200
	300	8158130	EAGF-P2-KF-45-300
	25, 75, 125, 175, 250	8158133	EAGF-P2-KF-45-
	For size 60	-	
	100	8158138	EAGF-P2-KF-60-100
	150	8158140	EAGF-P2-KF-60-150
	200	8158142	EAGF-P2-KF-60-200
	300	8158031	EAGF-P2-KF-60-300
	25, 50, 75, 125, 175, 250, 350, 400, 500	8158150	EAGF-P2-KF-60-

Sensor bracket EAPM-L2

Material: Anodised wrought aluminium alloy

RoHS-compliant





Dimensions and ordering data

For size	B1	B2	D1	Н	1	H2
32, 45, 60	5.5	1.3	M4	13	.4	6
For size	НЗ	L1		Veight g]	Part no.	Туре
32, 45, 60	3	32	25 4	1	4759852	EAPM-L2-SH

Ordering data -	Ordering data – Proximity switch for T-slot, magneto-resistive Datasheets → Internet: smi						
	Type of mounting	Switching output	Electrical connection	Cable length [m]	Part no.	Туре	
N/O							
	Inserted in the slot from above,	PNP	Cable, 3-core	2.5	574335	SMT-8M-A-PS-24V-E-2.5-0E	
B B B B B	flush with the cylinder profile,		Plug M8x1, 3-pin	0.3	574334	SMT-8M-A-PS-24V-E-0.3-M8D	
	short design	NPN	Cable, 3-core	2.5	574338	SMT-8M-A-NS-24V-E-2.5-OE	
			Plug M8x1, 3-pin	0.3	574339	SMT-8M-A-NS-24V-E-0.3-M8D	
N/C							
	Inserted in the slot from above,	PNP	Cable, 3-core	7.5	574340	SMT-8M-A-PO-24V-E-7.5-OE	
RES P	flush with the cylinder profile,	NPN		2.5	8138000	SMT-8M-A-NO-24V-E-2.5-OE	
L V	short design			7.5	8138001	SMT-8M-A-NO-24V-E-7.5-OE	

Ordering data – Connecting cables

Ordering data –	Datasheets → Internet: nebu				
	Electrical connection, left	Electrical connection, right	Cable length [m]	Part no.	Туре
	Straight socket, M8x1, 3-pin	Cable, open end, 3-core	2.5	541333	NEBU-M8G3-K-2.5-LE3
OT IN			5	541334	NEBU-M8G3-K-5-LE3
	Angled socket, M8x1, 3-pin	Cable, open end, 3-core	2.5	541338	NEBU-M8W3-K-2.5-LE3
			5	541341	NEBU-M8W3-K-5-LE3

Ordering data – IO-Link master USB

Ordering data -	Datasheets → Internet: cdsu			
	Description	Cable length	Part no.	Туре
		[m]		
	 For using the unit with IO-Link[®] An external power supply plug is also required (not included in the scope of delivery) 	0.3	8091509	CDSU-1

Ordering data – Adapter

Ordering data –	Datasheets → Internet: nefc				
	Electrical connection, left	Electrical connection, right	Cable length [m]	Part no.	Туре
STATES.	Straight socket, M12x1, 8-pin	 Straight plug M12x1, 5-pin Only recommended for use with IO-Link[®] port class A master 	0.3	8080777	NEFC-M12G8-0.3-M12G5-LK

Ordering data - Supply cables

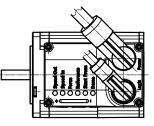
Ordering data –	Ordering data – Supply cables Datasheets → Internet: n						
	Electrical connection, left	Electrical connection, right	Cable length [m]	Part no.	Туре		
	Angled socket, M12x1, 4-pin	Cable, open end, 4-core	2	8080778 NEBL-T12W4-E-2-N-LE4	NEBL-T12W4-E-2-N-LE4		
B al		5 10	5	8080779	NEBL-T12W4-E-5-N-LE4		
			10	8080780	NEBL-T12W4-E-10-N-LE4		
-			15	8080781	NEBL-T12W4-E-15-N-LE4		
	Straight socket, M12x1, 4-pin	Cable, open end, 4-core	2	8080790	NEBL-T12G4-E-2-N-LE4		
or all		5	5	8080791	NEBL-T12G4-E-5-N-LE4		
			10	8080792	NEBL-T12G4-E-10-N-LE4		
			15	8080793	NEBL-T12G4-E-15-N-LE4		

Ordering data – Connecting cables

Ordering data – Connecting cables Datasheets → Internet: nebc						
	Electrical connection, left	Electrical connection, right	Cable length [m]	Part no.	Туре	
	Angled socket, M12x1, 8-pin	Cable, open end, 8-core	2	8094476	NEBC-M12W8-E-2-N-B-LE8	
S al			5	8094478	NEBC-M12W8-E-5-N-B-LE8	
			10	8094481	NEBC-M12W8-E-10-N-B-LE8	
			15	8094479	NEBC-M12W8-E-15-N-B-LE8	
		Straight plug, M12x1, 8-pin	2	8080786	NEBC-M12W8-E-2-N-M12G8	
Car all			5	8080787	NEBC-M12W8-E-5-N-M12G8	
-Tell			10	8080788	NEBC-M12W8-E-10-N-M12G8	
			15	8080789	NEBC-M12W8-E-15-N-M12G8	
	Straight socket, M12x1, 8-pin	Cable, open end, 8-core	2	8094480	NEBC-M12G8-E-2-N-B-LE8	
State 20			5	8094477	NEBC-M12G8-E-5-N-B-LE8	
			10	8094482	NEBC-M12G8-E-10-N-B-LE8	
			15	8094475	NEBC-M12G8-E-15-N-B-LE8	
		Straight plug, M12x1, 8-pin	2	8080782	NEBC-M12G8-E-2-N-M12G8	
and sold			5	8080783	NEBC-M12G8-E-5-N-M12G8	
- MAIL			10	8080784	NEBC-M12G8-E-10-N-M12G8	
			15	8080785	NEBC-M12G8-E-15-N-M12G8	

Note -

The cables are positioned at a 45° angle to the axis.



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