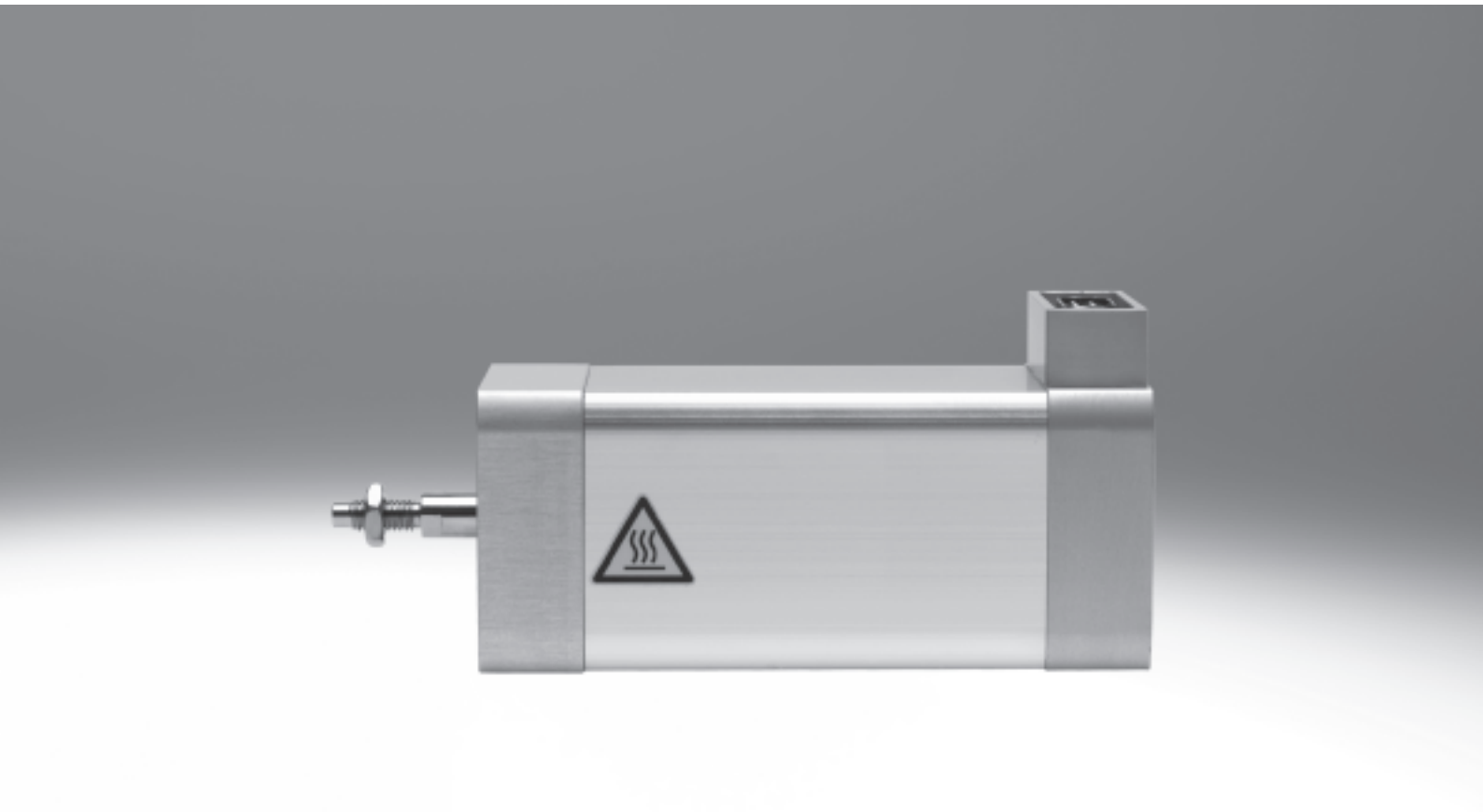
Short-stroke cylinders ADNE-LAS, with linear motor

FESTO



New

Short-stroke cylinders ADNE-LAS, with linear motor

Key features

At a glance

Properties

- Electric short-stroke cylinder with integrated linear motor, specifically designed for dynamic movements between two end positions
- A cycle of advancing and retracing motion over 15 mm can be achieved in 64 ms (movement frequency of up to 13.6 Hz)
- Plug & work: connect, switch on, teach-in end positions and then the system is ready to use. There is no need to set servo parameters
- Mechanical interfaces are largely compatible with the pneumatic compact cylinder ADN
- Electronic end-position cushioning, i.e. constant force across the entire stroke with the force only reduced at the end positions as end-position cushioning
- No external magnetic fields

Range of applications

- Dynamic movement with secondary accuracy requirements:
  - Switching deflectors
  - Rejecting good/bad parts from an ongoing production process
  - Blocking movements
  - Checking switches
  - Applying labels

Everything from a single source

Short-stroke cylinder
ADNE-LAS
➔ 3

End-position controller
CMFL
➔ Internet: cmfl

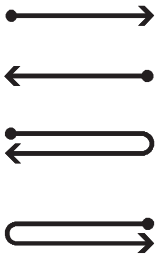
- Short-stroke cylinder ADNE-LAS
- End-position controller CMFL
- Motor cable NEBM
- Power supply cable KPWR
- Pilot line KES

The short-stroke cylinder ADNE-LAS and the end-position controller CMFL form one unit. Only one cable is required between the short-stroke cylinder and end-position controller.

Movement pattern

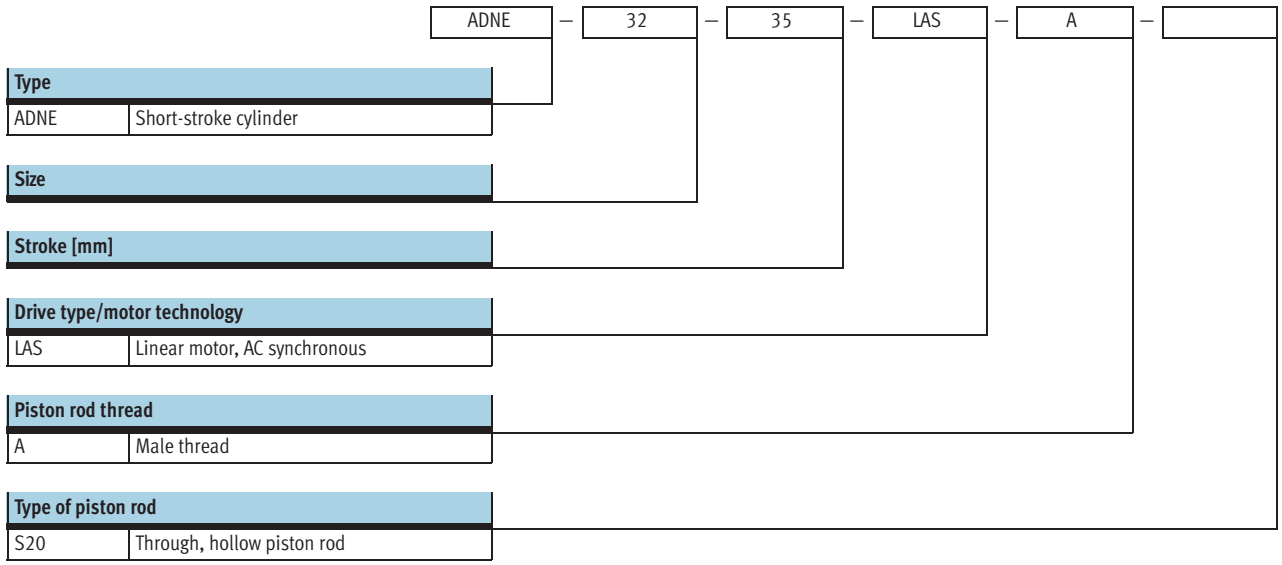
Four movement patterns can be selected via inputs.

1. Advancing
2. Retracting
3. Advancing and then retracting again
4. Retracting and then advancing again



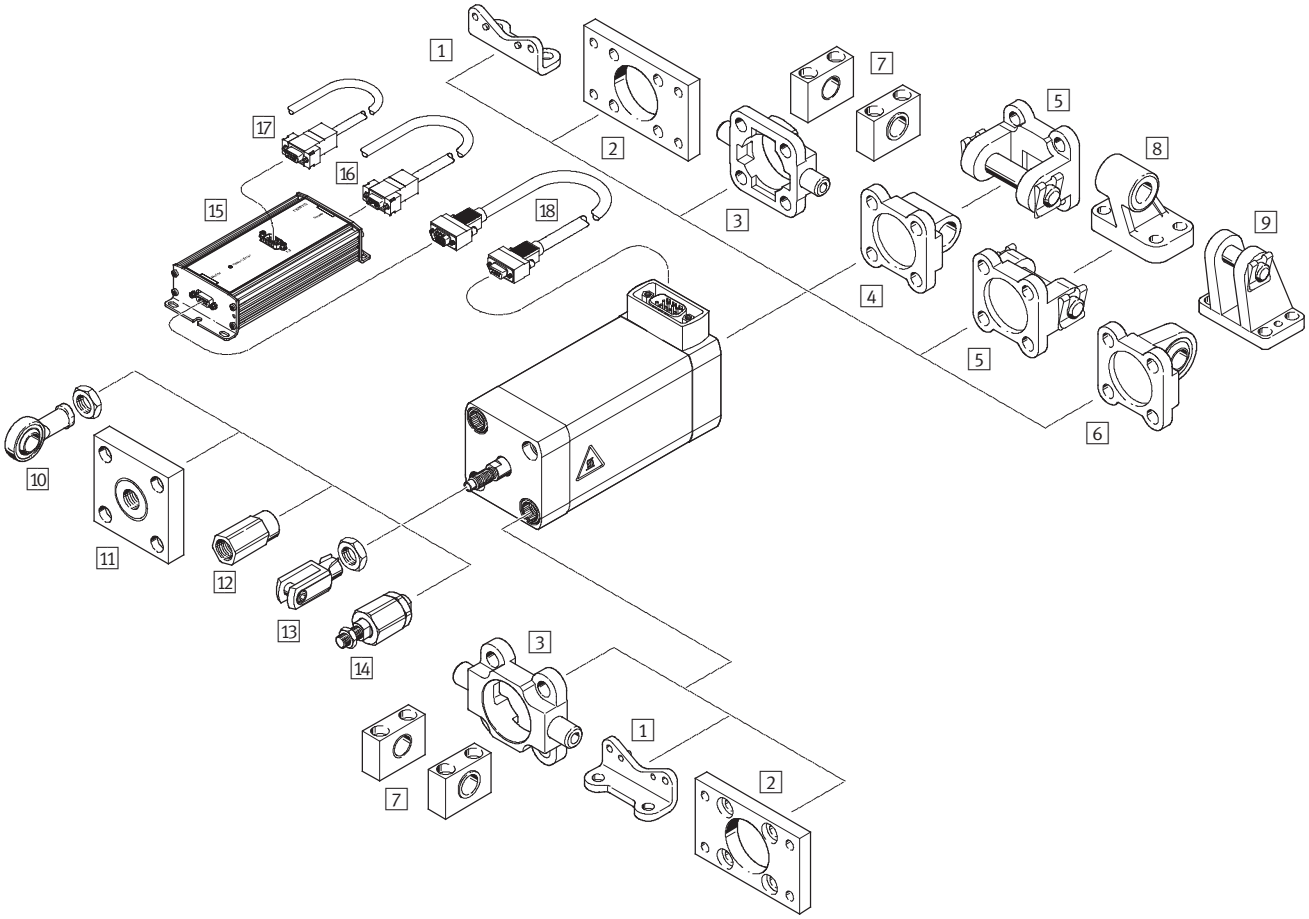
Short-stroke cylinders ADNE-LAS, with linear motor

Type codes



Short-stroke cylinders ADNE-LAS, with linear motor

Peripherals overview



Short-stroke cylinders ADNE-LAS, with linear motor

Peripherals overview

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Mounting attachments and accessories				
	Brief description	Variant		→ Page/Internet
		Basic version	S20	
1 Foot mounting HNA	For bearing or end caps	■	■	15
2 Flange mounting FNC	For bearing or end caps	■	■	15
3 Trunnion flange ZNCF	For bearing or end caps	■	■	17
4 Swivel flange SNCL	For end caps	■	–	16
5 Swivel flange SNCB	For end caps	■	–	16
6 Swivel flange SNCS	For end caps, with spherical bearing	■	–	17
7 Trunnion support LNZG	In combination with trunnion flange ZNCF	■	■	18
8 Clevis foot LNG	In combination with swivel flange SNCB	■	–	18
9 Clevis foot LBG	In combination with swivel flange SNCS	■	–	18
10 Rod eye SGS	With spherical bearing	■	■	18
11 Coupling piece KSZ	Compensates radial misalignments up to ±1 mm	■	■	18
12 Adapter AD	Specially for through, hollow piston rods, for example for connecting vacuum generators	■	■	18
13 Rod clevis SG	–	■	■	18
14 Self-aligning rod coupler FK	Compensates radial and angular misalignments	■	■	18
15 End-position controller CMFL	For parameterising and positioning the short-stroke cylinder	■	■	cmfl
16 Power supply cable KPWR	For connecting the load and logic supply	■	■	cmfl
17 Pilot line KES	For I/O interface to any controller	■	■	cmfl
18 Motor cable NEBM	For connecting the motor and end-position controller	■	■	cmfl

Short-stroke cylinders ADNE-LAS, with linear motor

Technical data

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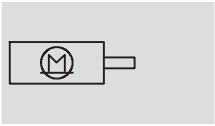
Function



-N- Size
32, 40
-T- Stroke length
15 ... 45 mm

Note

All values are based on a standard temperature of 23 °C.
Dynamic response and accuracy are dependent on the mounting (rigidity) and the derivation of the thermal energy (heat concentration).

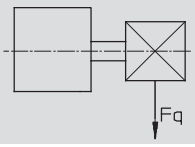
General technical data						
Size			32		40	
Stroke		[mm]	15	35	20	45
Design			Electric linear direct drive			
			Electric cylinder with piston rod			
Based on standard			ISO 21287			
Type of mounting			Via female thread			
			Via accessories			
Mounting position			Horizontal			
Minimum stroke		[mm]	7.5	17.5	10	22.5
Max. effective load		[g]	500			
Max. speed		[m/s]	1.9	1.8	1.5	1.6
Repetition accuracy		[mm]	±0.1			

Mechanical data						
Size			32		40	
Stroke		[mm]	15	35	20	45
Deflection of piston rod[1]	Retracted	[mm]	0.14	0.14	0.15	0.15
	Advanced	[mm]	0.25	0.35	0.25	0.50
At operating voltage of 48 V						
Continuous feed force[2]		[N]	10.5	5.9	14.2	11
Peak feed force		[N]	26	15	51	30
Holding force in the end positions		[N]	3	2	6	4.5
At operating voltage of 24 V						
Continuous feed force[2]		[N]	10.5	5.9	14.2	11
Peak feed force		[N]	13	8	28	16
Holding force in the end positions		[N]	3	2	6	4.5

1) In new condition
2) Measured at a motor temperature of 70 °C

Note

- Due to the maximum effective load of 500 g, the lateral force Fq of max. 5 N must not be exceeded.



- No torques are permissible on the piston rod.

Short-stroke cylinders ADNE-LAS, with linear motor

Technical data

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Electrical data	
Motor type	Linear AC synchronous motor
End-position detection	Internal, non-contacting
Magnetic radiation	None

Operating and environmental conditions		
Ambient temperature	[°C]	0 ... +40
Motor temperature during teach-in procedure	[°C]	+15 ... +50
Max. motor temperature	[°C]	70 (shuts down at 75 °C/in the event of a malfunction over 100 °C)
Standard temperature[1)]	[°C]	23
Temperature monitoring		Shuts down if motor overheats
Storage temperature	[°C]	–20 ... +60
Protection class (mechanical system)		IP40
Protection class (electrical connection)		IP65
Relative air humidity (non-condensing)	[%]	95
CE marking (see declaration of conformity)		To EU EMC Directive
Certification		C-Tick
Corrosion resistance class CRC[2)]		2

1) Unless otherwise stated, all values are based on standard temperature.
2) Corrosion resistance class 2 according to Festo standard 940 070
Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Weight [g]					
Size		32		40	
Stroke	[mm]	15	35	20	45
Product weight		710	940	1,260	1,710
	S20	725	960	1,290	1,750
Moving load		105	130	275	350
	S20	120	150	305	390

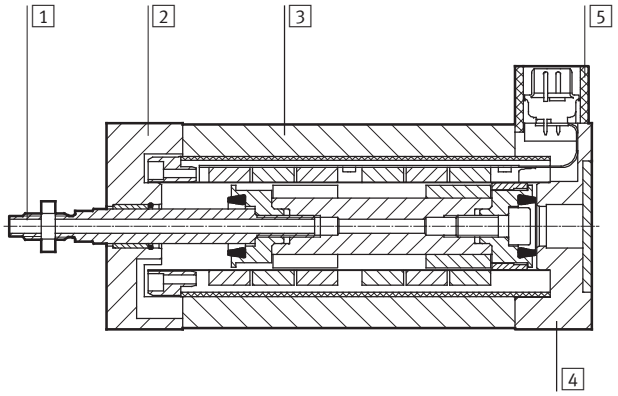
Short-stroke cylinders ADNE-LAS, with linear motor

Technical data

FESTO

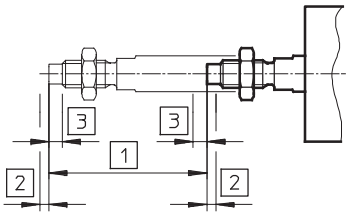
Materials

Sectional view



Short-stroke cylinder	
1 Piston rod	High-alloy stainless steel
2 Bearing cap	Anodised wrought aluminium alloy
3 Housing	Anodised wrought aluminium alloy
4 Connector cap	Anodised wrought aluminium alloy
5 Cover	Anodised wrought aluminium alloy
– Plain bearing	Polyacetal
– Screws, nuts	Steel
Note on materials	Contains PWIS (paint-wetting impairment substances)
	RoHS-compliant

Internal cushioning



1 Working stroke:
The recommended, available operating range

2 Cushioning length:
The distance from the end positions of the working stroke to the mechanical end position

3 Rebound:
How far the drive rebounds depends on the load, the dynamics of the movement and the temperature of the cylinder

Size		32		40	
Stroke	[mm]	15	35	20	45
Working stroke	[mm]	15	35	20	45
Minimum stroke	[mm]	7.5	17.5	10	22.5
Cushioning length	[mm]	0.7	0.7	0.8	0.8
Rebound at 48 V[1)]	[mm]	0.8	0.8	0.5	1.3
Rebound at 24 V[1)]	[mm]	0.3	0.6	0.5	1.3

1) Repeat the teach-in procedure if the rebound is too strong.

Short-stroke cylinders ADNE-LAS, with linear motor

Technical data

FESTO

Max. frequency f as a function of effective load m and voltage U, briefly

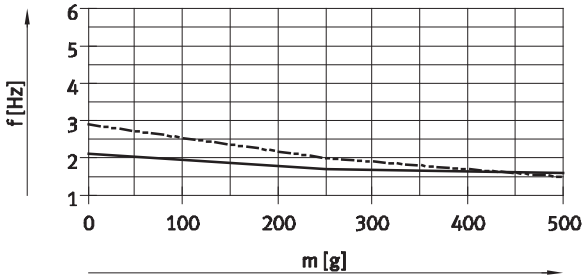
Size			32		40	
Stroke		[mm]	15	35	20	45
At operating voltage of 48 V						
Frequency	Effective load = 0 g	[Hz]	13.6	7.1	11.6	5.1
	Effective load = 250 g	[Hz]	7.2	5.8	8.9	4.9
	Effective load = 500 g	[Hz]	4.7	4.5	7	4.1
At operating voltage of 24 V						
Frequency	Effective load = 0 g	[Hz]	11.1	5.5	8.8	4.2
	Effective load = 250 g	[Hz]	9.1	4.7	7.2	3.9
	Effective load = 500 g	[Hz]	6	3.2	5.4	3

Note

Applies to a motor temperature up to max. 74 °C.

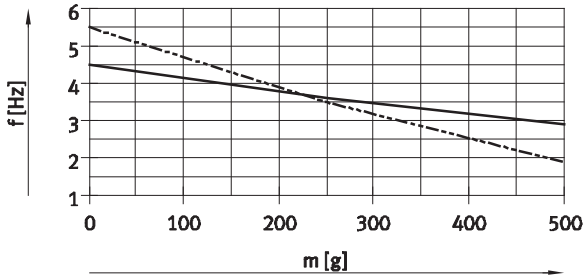
Frequency f as a function of effective load m and voltage U, during continuous operation

At U = 48 V
ADNE-32-15/35



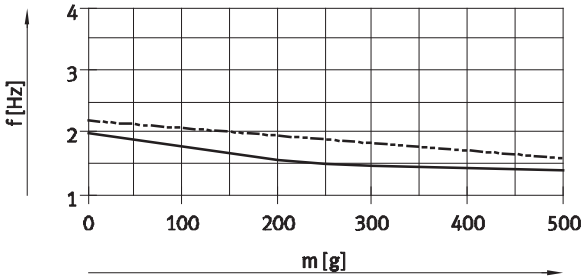
ADNE-32-15
ADNE-32-35

At U = 24 V
ADNE-32-15/35



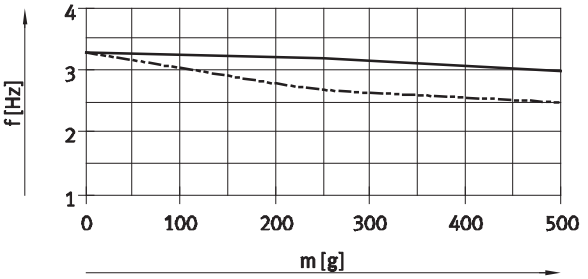
ADNE-32-15
ADNE-32-35

ADNE-40-20/45



ADNE-40-20
ADNE-40-45

ADNE-40-20/45



ADNE-40-20
ADNE-40-45

Short-stroke cylinders ADNE-LAS, with linear motor

Technical data

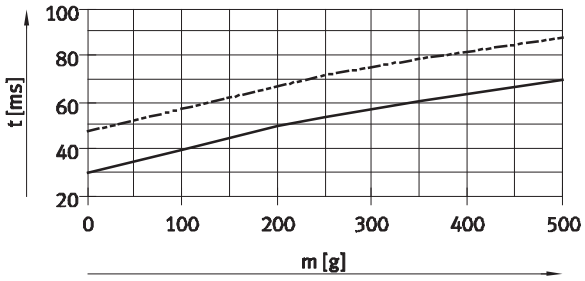
FESTO

Min. positioning time t as a function of voltage U, at an effective load of 0 g

Size		32		40	
Stroke	[mm]	15	35	20	45
At operating voltage of 48 V					
Positioning time	[ms]	30	48	36	75
At operating voltage of 24 V					
Positioning time	[ms]	30	62	44	100

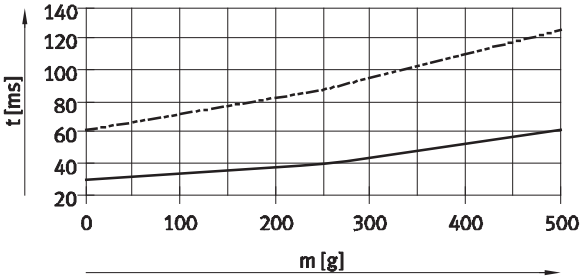
Positioning time t as a function of effective load m and voltage U

At U = 48 V
ADNE-32-15/35



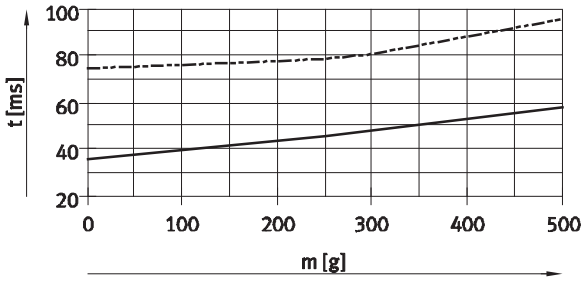
ADNE-32-15
ADNE-32-35

At U = 24 V
ADNE-32-15/35



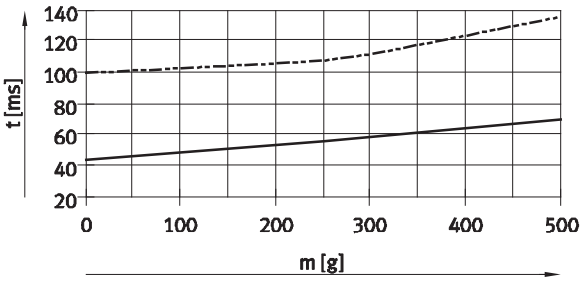
ADNE-32-15
ADNE-32-35

ADNE-40-20/45



ADNE-40-20
ADNE-40-45

ADNE-40-20/45



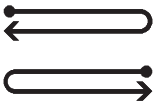
ADNE-40-20
ADNE-40-45

Short-stroke cylinders ADNE-LAS, with linear motor

Technical data

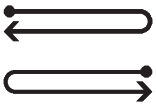
FESTO

Min. positioning time t as a function of voltage U, at an effective load of 0 g

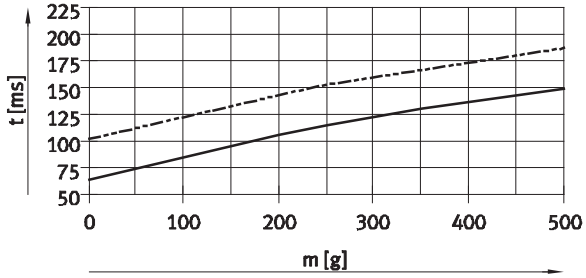


Size		32		40	
Stroke	[mm]	15	35	20	45
At operating voltage of 48 V					
Positioning time	[ms]	64	102	77	160
At operating voltage of 24 V					
Positioning time	[ms]	64	132	94	213

Positioning time t as a function of effective load m and voltage U

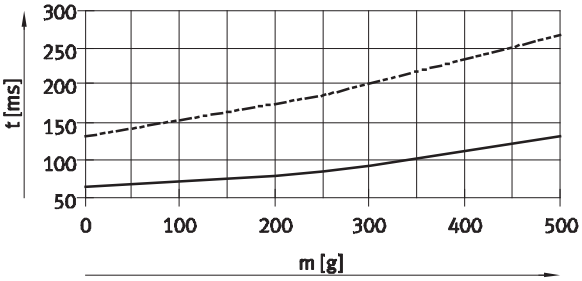


At U = 48 V
ADNE-32-15/35



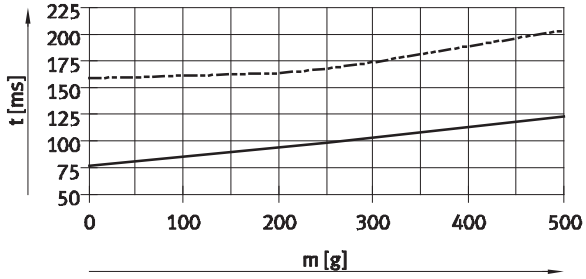
ADNE-32-15
ADNE-32-35

At U = 24 V
ADNE-32-15/35



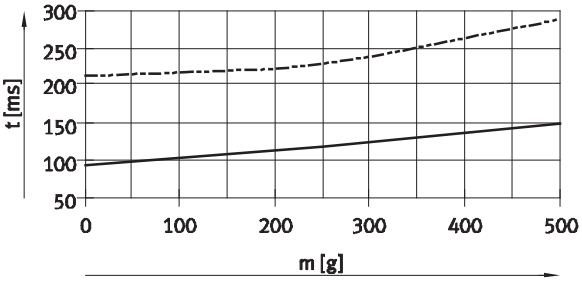
ADNE-32-15
ADNE-32-35

ADNE-40-20/45



ADNE-40-20
ADNE-40-45

ADNE-40-20/45



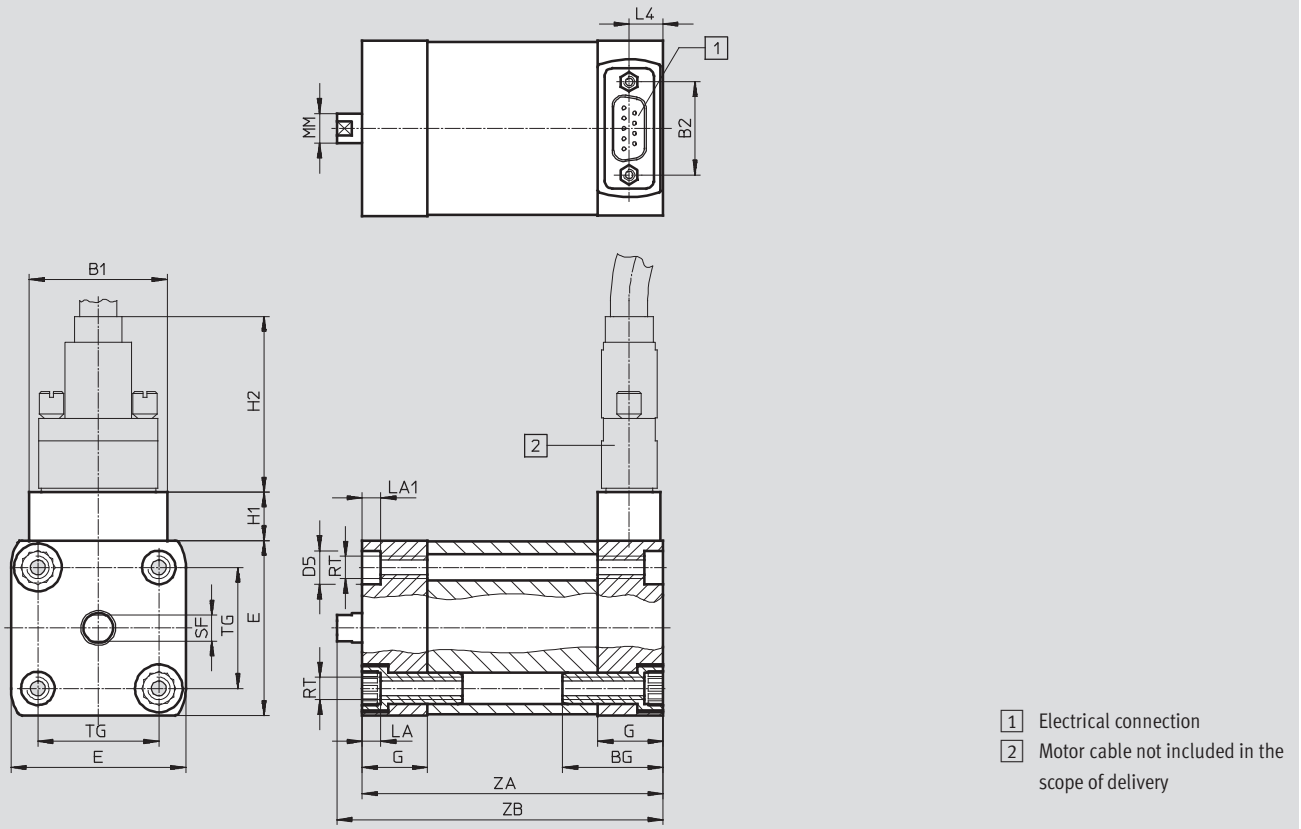
ADNE-40-20
ADNE-40-45

Short-stroke cylinders ADNE-LAS, with linear motor

Technical data

FESTO

Dimensions – Basic version Download CAD Data ➔ **www.festo.com/us/cad**



1 Electrical connection
2 Motor cable not included in the scope of delivery

Size	Stroke [mm]	B1	B2	BG	D5 ∅ F9	E +0.3	G	H1	H2	LA +0.4
32	15	37	25	26	9	47	17.5	13	50	4.6
	35									
40	20					54.5				
	45									

Size	Stroke [mm]	LA1	L4	MM ∅ h9	RT	SF h13	TG ±0.2	ZA +0.4/–0.2	ZB +0.75/–0.35
32	15	5	9.1	8	M6	7	32.5	110.8	117.65
	35							150.8	157.65
40	20			10		9	38	136.5	143.4
	45							186.5	193.4

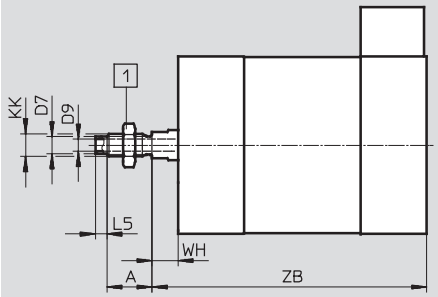
Short-stroke cylinders ADNE-LAS, with linear motor

Technical data

FESTO

Dimensions – Variants Download CAD Data ➔ **www.festo.com/us/cad**

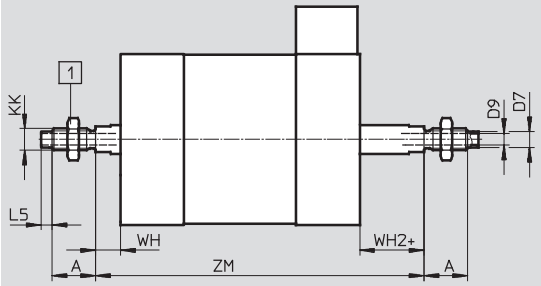
A – Male thread



1 Hex nut DIN 439-B included in the scope of delivery

Size	Stroke [mm]	A −0.5	D7 ∅	D9 ∅	KK	L5	WH +0.75 −0.55	ZB +0.75 −0.35
32	15	12	4.5	3.2	M6	3	6.85	117.65
	35							157.65
40	20	16	6	3.8	M8	2	6.9	143.4
	45							193.4

S20 – Through, hollow piston rod



1 Hex nut DIN 439-B included in the scope of delivery

\+ = plus stroke length

Size	Stroke [mm]	A −0.5	D7 ∅	D9 ∅	KK	L5	WH +0.75 −0.55	WH2 +0.55 −0.75	ZM +0.6 −0.4
32	15	12	4.5	3.2	M6	3	6.85	6.85	140
	35								200
40	20	16	6	3.8	M8	2	6.9	6.9	170.8
	45								245.8

New

Short-stroke cylinders ADNE-LAS, with linear motor

Ordering data – Modular products

FESTO

Ordering table							
Size		32	40	Conditions	Code		Enter code
M	Module No.	**566415**	**566416**				
	Function	Electric short-stroke cylinder, based on ISO 21287			**ADNE**		ADNE
	Size	32	40		**-...**		
	Stroke [mm]	15, 35	20, 45		**-...**		
	Drive type	Linear motor			**-L**		-L
	Motor technology	AC synchronous			**AS**		AS
	Piston rod thread	Male thread			**-A**		A
O	Type of piston rod	Through, hollow piston rod			**-S20**		

Transfer order code

	ADNE	–		–		–	L	AS	–	A	–	

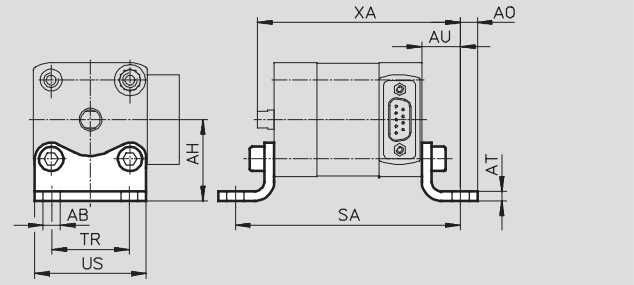
Short-stroke cylinders ADNE-LAS, with linear motor

Accessories

FESTO

Foot mounting HNA

Material:
HNA: Galvanised steel
HNA-...-R3: Steel with protective coating
Free of copper, PTFE and silicone



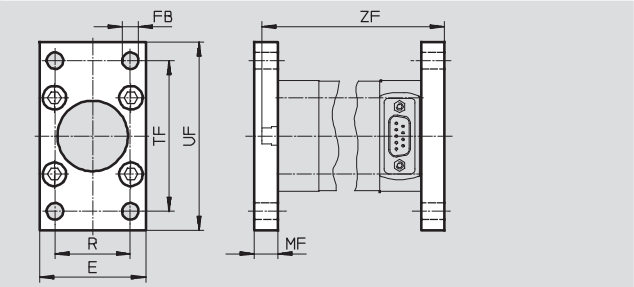
Dimensions and ordering data

For size	Stroke [mm]	AB ∅ H14	AH JS14	AO	AT ±0.5	AU ±0.2	SA	TR ±0.2	US −0.5	XA
32	15	7	33.5	7	4	16	142.8	32	46	133.65
	35						182.8			173.65
40	20	10	38	9	4	18	172.5	36	54	161.4
	45						222.5			211.4

For size	Basic version				High corrosion protection			
	CRC[1]	Weight [g]	Part No.	Type	CRC[1]	Weight [g]	Part No.	Type
32	2	70	**537241**	**HNA-32**	3	70	**537256**	**HNA-32-R3**
40	2	90	**537242**	**HNA-40**	3	90	**537257**	**HNA-40-R3**

Flange mounting FNC

Material:
Galvanised steel
Free of copper, PTFE and silicone



Dimensions and ordering data

For size	Stroke [mm]	E	FB ∅	MF	R	TF	UF ±1	ZF
32	15	45	7	10	32	64	80	127.65
	35							167.65
40	20	54	9	10	36	72	90	153.4
	45							203.4

For size	Basic version				High corrosion protection			
	CRC[1]	Weight [g]	Part No.	Type	CRC[1]	Weight [g]	Part No.	Type
32	1	221	**174376**	**FNC-32**	4	240	**161846**	**CRFNG-32**
40	1	291	**174377**	**FNC-40**	4	300	**161847**	**CRFNG-40**

1) CRC1: Corrosion resistance class to Festo standard 940070
Components with light corrosion exposure. Protection for transport and storage. Components without significant decorative function or surface, e.g. installed out of sight internally or behind covers.
Corrosion resistance class 2 according to Festo standard 940 070
Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.
Corrosion resistance class 3 according to Festo standard 940 070
Components subject to high corrosion stress. External visible parts in direct contact with industrial atmospheres or media such as solvents and cleaning agents, with a predominantly functional requirement for the surface.
Corrosion resistance class 4 according to Festo standard 940 070
Components subject to particularly high corrosion stress. Parts used with aggressive media, e.g. in the food or chemical industry. These applications should be supported with special tests with the media if required.

Short-stroke cylinders ADNE-LAS, with linear motor

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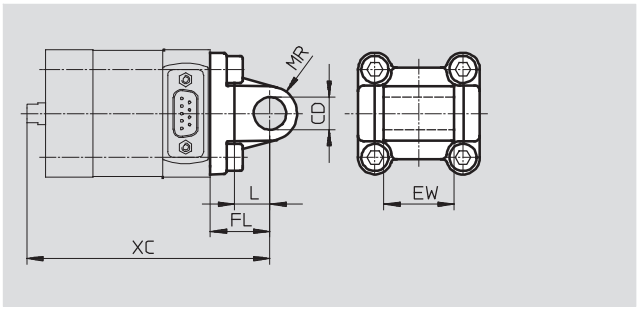
Accessories

Swivel flange SNCL

Material:
SNCL: Die-cast aluminium
Free of copper, PTFE and silicone



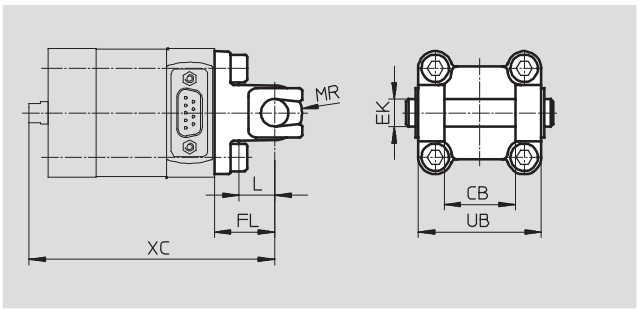
Dimensions and ordering data

For size	Stroke [mm]	CD ∅ H9	EW h12	FL ±0.2	L	MR	XC
32	15	10	26	22	13	10	139.65
	35						179.65
40	20	12	28	25	16	12	168.4
	45						218.4

For size	Basic version			
	CRC[1]	Weight [g]	Part No.	Type
32	2	85	**174404**	**SNCL-32**
40	2	115	**174405**	**SNCL-40**

Swivel flange SNCB/SNCB-...-R3

Material:
SNCB: Die-cast aluminium
SNCB-...-R3: Die-cast aluminium with protective coating, high corrosion protection
Free of copper, PTFE and silicone



Dimensions and ordering data

For size	Stroke [mm]	CB H14	EK ∅ e8	FL ±0.2	L	MR	XC
32	15	26	10	22	13	8.5	139.65
	35						179.65
40	20	28	12	25	16	12	168.4
	45						218.4

For size	Basic version				High corrosion protection			
	CRC[1]	Weight [g]	Part No.	Type	CRC[1]	Weight [g]	Part No.	Type
32	2	100	**174390**	**SNCB-32**	3	100	**176944**	**SNCB-32-R3**
40	2	150	**174391**	**SNCB-40**	3	150	**176945**	**SNCB-40-R3**

1) Corrosion resistance class 2 according to Festo standard 940 070
Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.
Corrosion resistance class 3 according to Festo standard 940 070
Components subject to high corrosion stress. External visible parts in direct contact with industrial atmospheres or media such as solvents and cleaning agents, with a predominantly functional requirement for the surface.

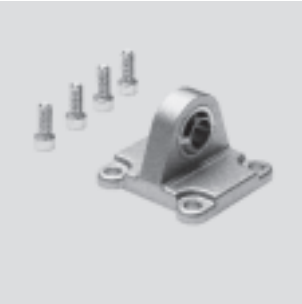
Short-stroke cylinders ADNE-LAS, with linear motor

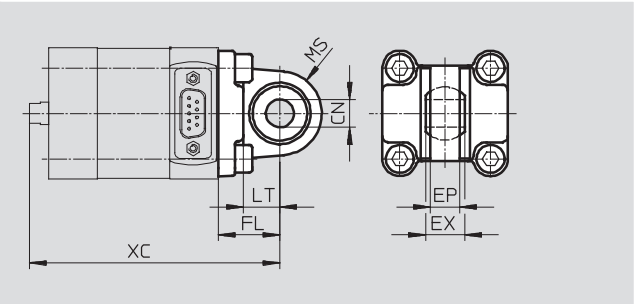
Accessories

FESTO

Swivel flange SNCS

Material:
SNCL: Die-cast aluminium





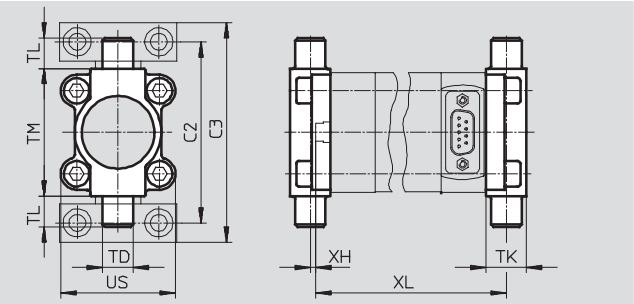
Dimensions and ordering data

For size	Stroke [mm]	CN ∅ H7	EP ±0.2	EX	FL ±0.2	LT	MS	XC
32	15	10	10.5	14	22	13	15	139.65
	35							179.65
40	20	12	12	16	25	16	17	168.4
	45							218.4

For size	Basic version			
	CRC[1]	Weight [g]	Part No.	Type
32	2	85	**174397**	**SNCS-32**
40	2	125	**174398**	**SNCS-40**

Trunnion flange ZNCF/CRZNG

Material:
ZNCF: Stainless steel casting
CRZNG: Electropolished stainless steel casting
Free of copper, PTFE and silicone



Dimensions and ordering data

For size	Stroke [mm]	C2	C3	TD ∅ e9	TK	TL	TM	US	XH	XL
32	15	71	86	12	16	12	50	45	1.15	125.65
	35									165.65
40	20	87	105	16	20	16	63	54	3.1	153.4
	45									203.4

For size	Basic version				High corrosion protection			
	CRC[1]	Weight [g]	Part No.	Type	CRC[1]	Weight [g]	Part No.	Type
32	2	130	**174411**	**ZNCF-32**	4	150	**161852**	**CRZNG-32**
40	2	240	**174412**	**ZNCF-40**	4	260	**161853**	**CRZNG-40**

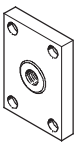
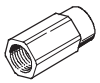
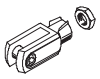
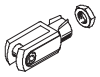
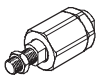
1) Corrosion resistance class 2 according to Festo standard 940 070
Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.
Corrosion resistance class 4 according to Festo standard 940 070
Components subject to particularly high corrosion stress. Parts used with aggressive media, e.g. in the food or chemical industry. These applications should be supported with special tests with the media if required.

Short-stroke cylinders ADNE-LAS, with linear motor

Accessories

FESTO

Ordering data			
Designation	For size	Part No.	Type
Trunnion support LNZG			
	32	32959	LNZG-32
	40	32960	LNZG-40/50
Trunnion support CRLNZG, corrosion-resistant			
	32	161874	CRLNZG-32
	40	161875	CRLNZG-40/50
Clevis foot LNG			
	32	33890	LNG-32
	40	33891	LNG-40
Clevis foot CRLNG, corrosion-resistant			
	32	161840	CRLNG-32
	40	161841	CRLNG-40
Clevis foot LBG			
	32	31761	LBG-32
	40	31762	LBG-40
Rod eye SGS			
	32	9254	SGS-M6
	40	9255	SGS-M8
Rod eye CRSGS, corrosion-resistant			
	32	195580	CRSGS-M6
	40	195581	CRSGS-M8

Ordering data			
Designation	For size	Part No.	Type
Coupling piece KSZ			
	32	36123	KSZ-M6
	40	36124	KSZ-M8
Adapter AD			
	32	157328	AD-M6-M5
		157329	AD-M6-⅛
		157330	AD-M6-¼
	40	157331	AD-M8-⅛
		157332	AD-M8-¼
Rod clevis SG			
	32	3110	SG-M6
	40	3111	SG-M8
Rod clevis CRSG, corrosion-resistant			
	32	13567	CRSG-M6
	40	13568	CRSG-M8
Self-aligning rod coupler FK			
	32	2061	FK-M6
	40	2062	FK-M8

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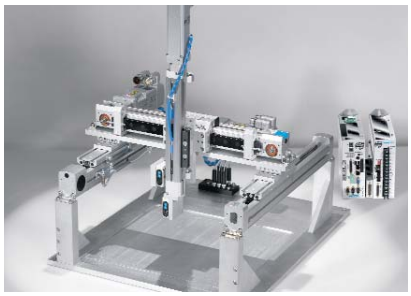

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