

Short-stroke cylinders ADNE-LAS, with linear motor

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Short-stroke cylinders ADNE-LAS, with linear motor

Key features

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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 

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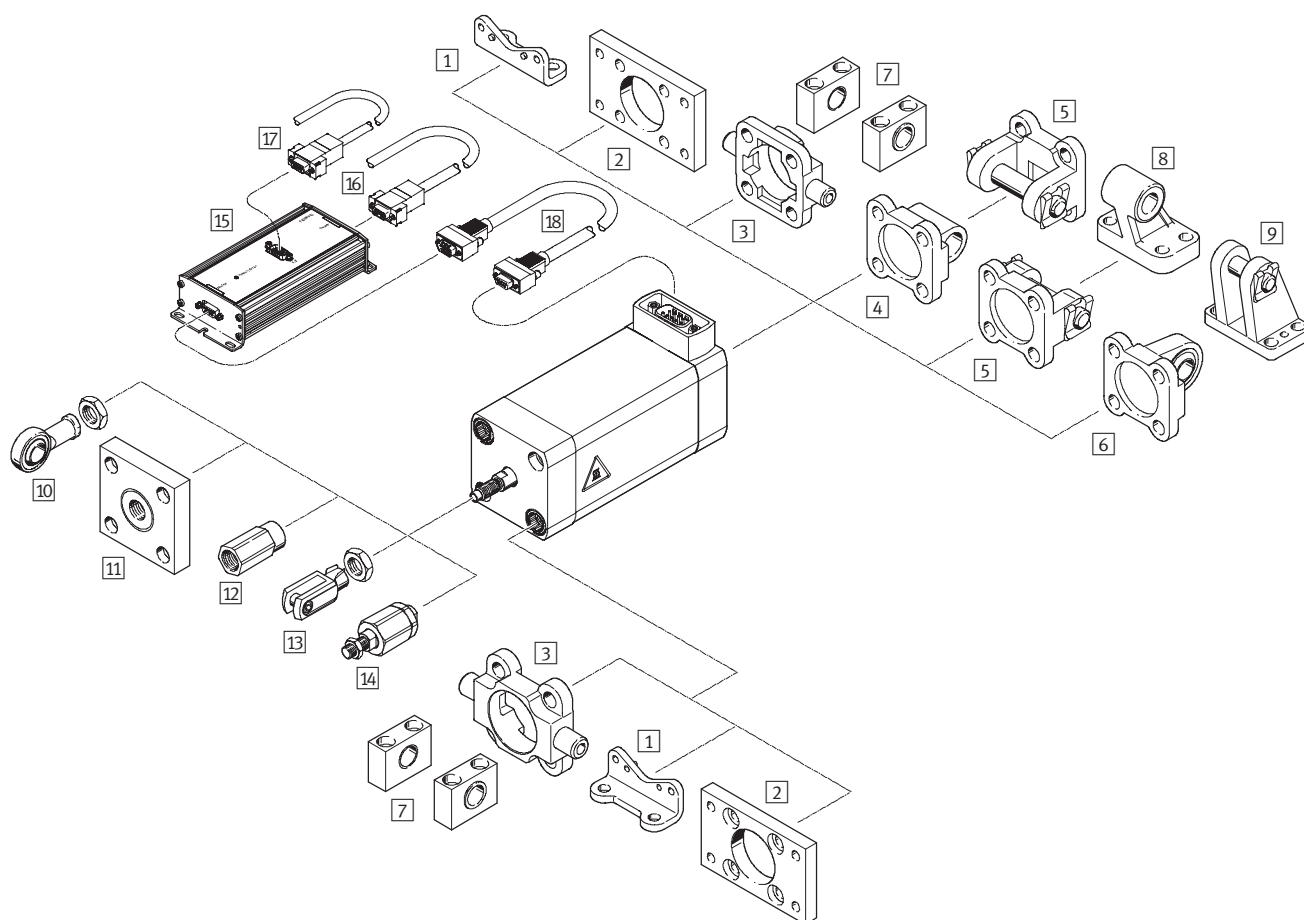
Type codes

		ADNE	–	32	–	35	–	LAS	–	A	–	
Type												
ADNE	Short-stroke cylinder											
Size												
Stroke [mm]												
Drive type/motor technology												
LAS	Linear motor, AC synchronous											
Piston rod thread												
A	Male thread											
Type of piston rod												
S20	Through, hollow piston rod											

Short-stroke cylinders ADNE-LAS, with linear motor

Peripherals overview

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Short-stroke cylinders ADNE-LAS, with linear motor

Peripherals overview

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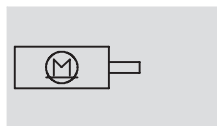
Mounting attachments and accessories				
	Brief description	Variant		→ Page/Internet
		Basic version	S20	
1 Foot mounting HNA	For bearing or end caps	■	■	15
2 Flange mounting FNC	For bearing or end caps	■	■	15
3 Trunnion flange ZNCF	For bearing or end caps	■	■	17
4 Swivel flange SNCL	For end caps	■	–	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



Ø - Size
32, 40

└ - 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			

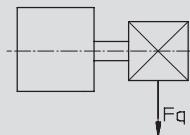
Mechanical data					
Size		32		40	
Stroke	[mm]	15	35	20	45
Deflection of piston rod ¹⁾	Retracted	[mm]	0.14	0.14	0.15
	Advanced	[mm]	0.25	0.35	0.25
At operating voltage of 48 V					
Continuous feed force ²⁾	[N]	10.5	5.9	14.2	11
Peak feed force	[N]	26	15	51	30
Holding force in the end positions	[N]	3	2	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 F_q of max. 5 N must not be exceeded.



- No torques are permissible on the piston rod.

Short-stroke cylinders ADNE-LAS, with linear motor

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Technical data

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	

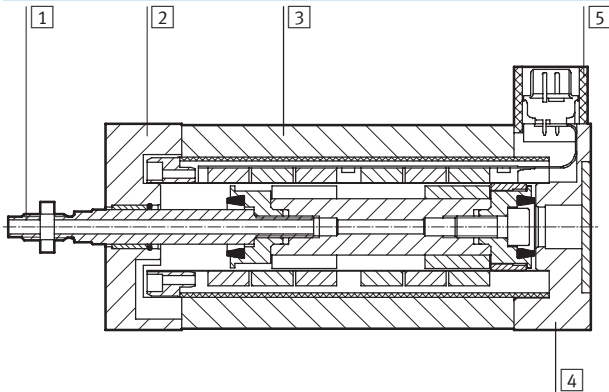
Short-stroke cylinders ADNE-LAS, with linear motor

Technical data

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Materials

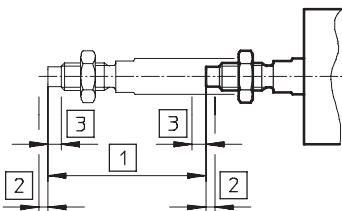
Sectional view



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

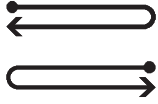
1) Repeat the teach-in procedure if the rebound is too strong.

Short-stroke cylinders ADNE-LAS, with linear motor

Technical data

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

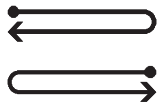


Size			32		40	
Stroke [mm]			15	35	20	45
At operating voltage of 48 V						
Frequency	Effective load = 0 g	[Hz]	13.6	7.1	11.6	5.1
	Effective load = 250 g	[Hz]	7.2	5.8	8.9	4.9
	Effective load = 500 g	[Hz]	4.7	4.5	7	4.1
At operating voltage of 24 V						
Frequency	Effective load = 0 g	[Hz]	11.1	5.5	8.8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

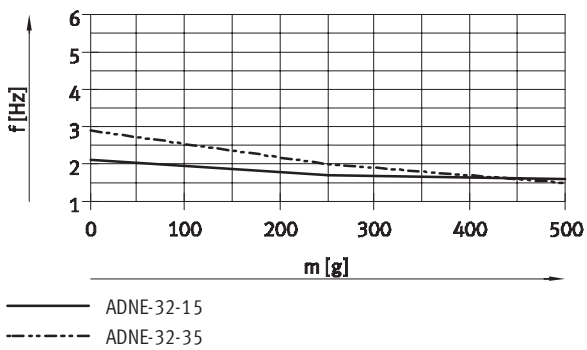
Note

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

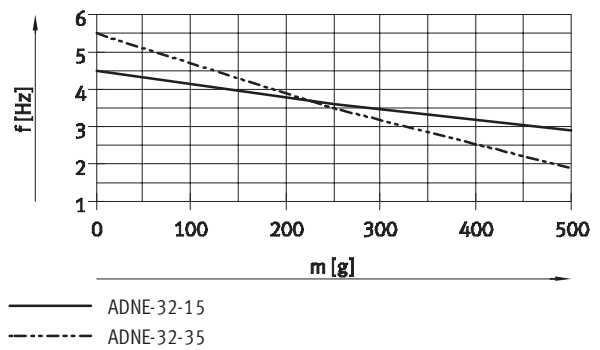
Frequency f as a function of effective load m and voltage U , during continuous operation



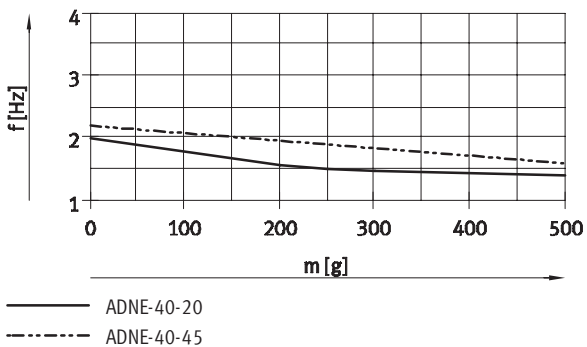
At $U = 48$ V
ADNE-32-15/35



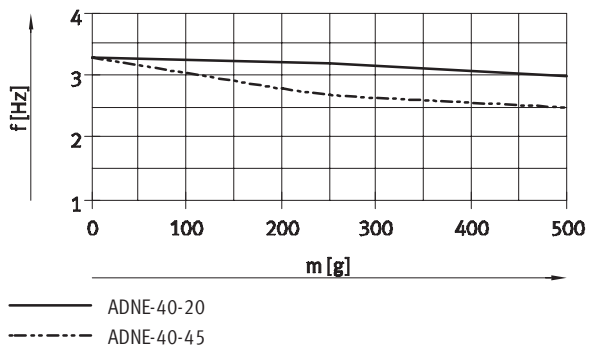
At $U = 24$ V
ADNE-32-15/35



ADNE-40-20/45



ADNE-40-20/45



Short-stroke cylinders ADNE-LAS, with linear motor

Technical data

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

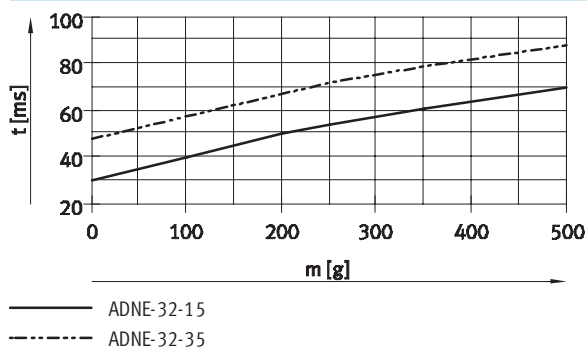


Size		32		40	
Stroke	[mm]	15	35	20	45
At operating voltage of 48 V					
Positioning time	[ms]	30	48	36	75
At operating voltage of 24 V					
Positioning time	[ms]	30	62	44	100

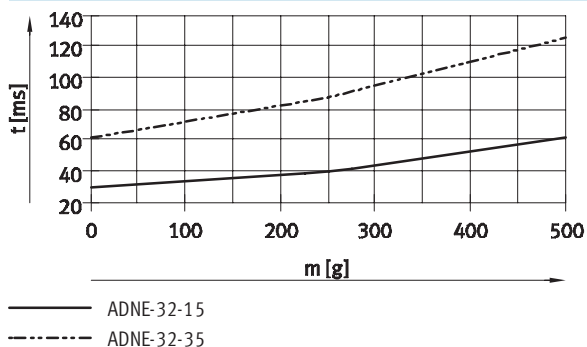
Positioning time t as a function of effective load m and voltage U



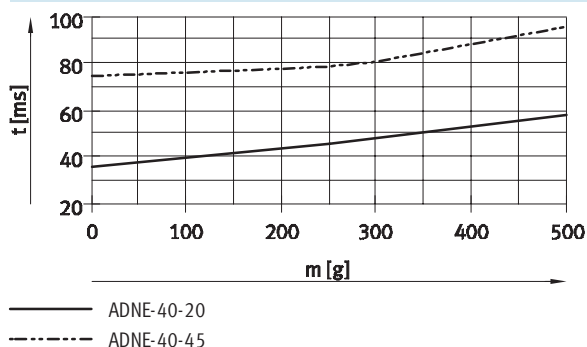
At $U = 48$ V
ADNE-32-15/35



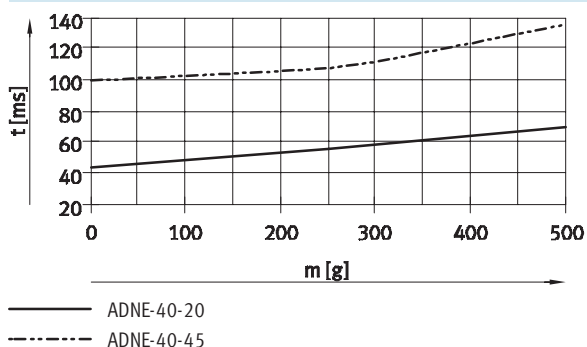
At $U = 24$ V
ADNE-32-15/35



ADNE-40-20/45



ADNE-40-20/45

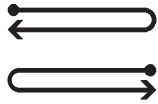


Short-stroke cylinders ADNE-LAS, with linear motor

Technical data

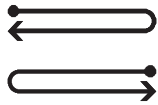
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Min. positioning time t as a function of voltage U , at an effective load of 0 g

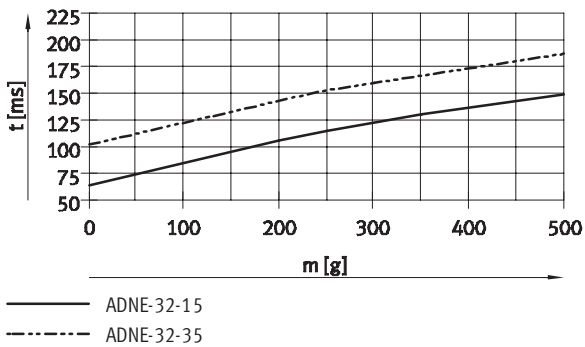


Size		32		40	
Stroke	[mm]	15	35	20	45
At operating voltage of 48 V					
Positioning time	[ms]	64	102	77	160
At operating voltage of 24 V					
Positioning time	[ms]	64	132	94	213

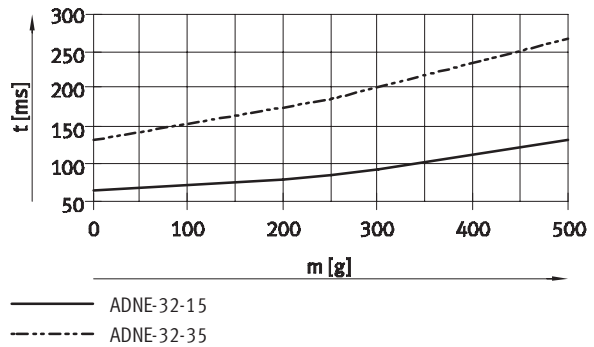
Positioning time t as a function of effective load m and voltage U



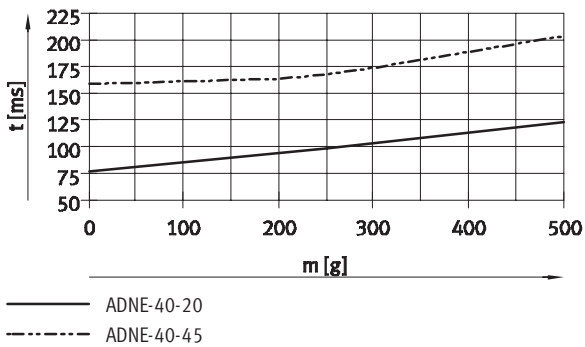
At $U = 48$ V
ADNE-32-15/35



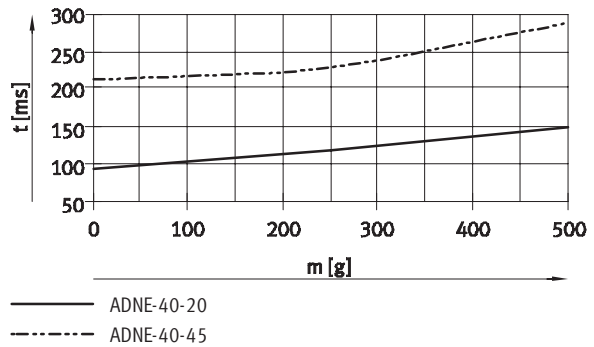
At $U = 24$ V
ADNE-32-15/35



ADNE-40-20/45



ADNE-40-20/45



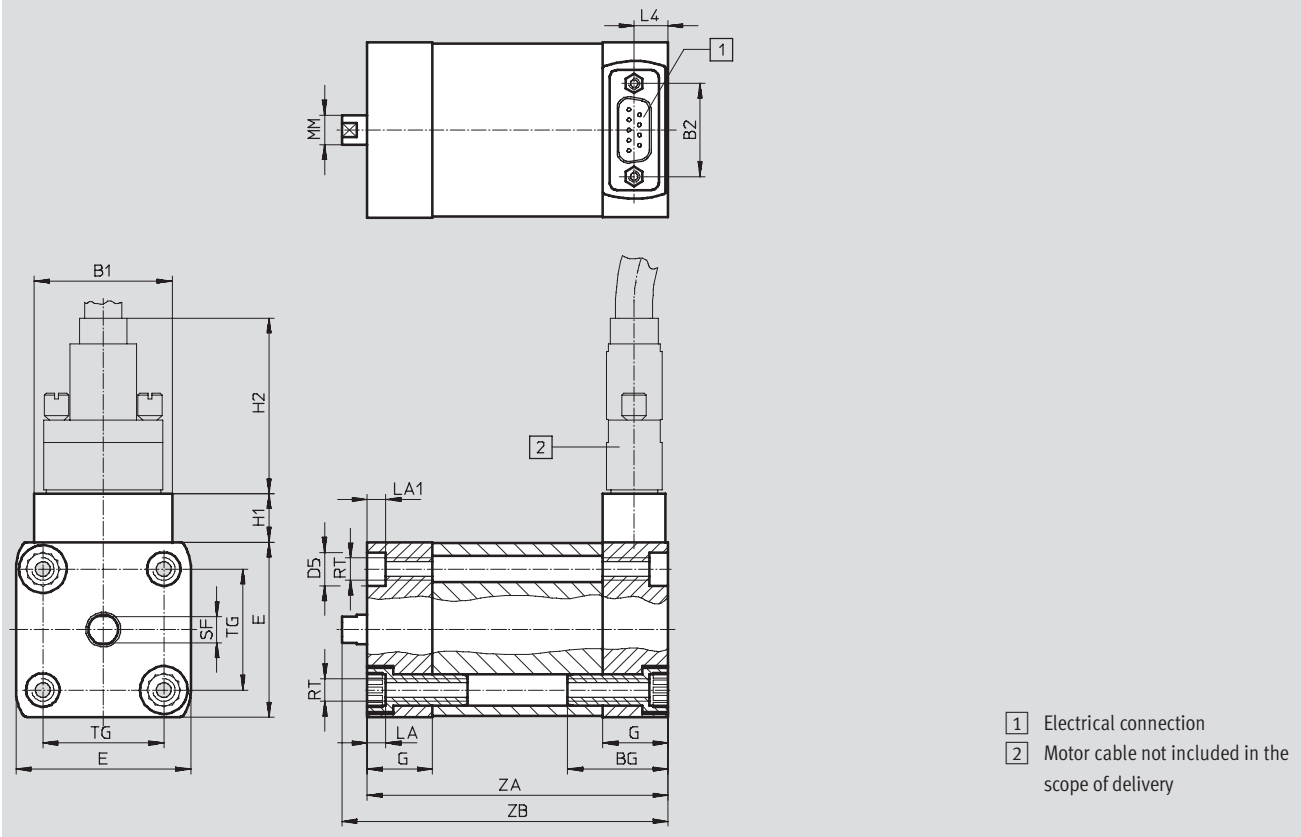
Short-stroke cylinders ADNE-LAS, with linear motor

Technical data

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Dimensions – Basic version

Download CAD Data → www.festo.com/us/cad



Size	Stroke [mm]	B1	B2	BG	D5 Ø 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 Ø 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

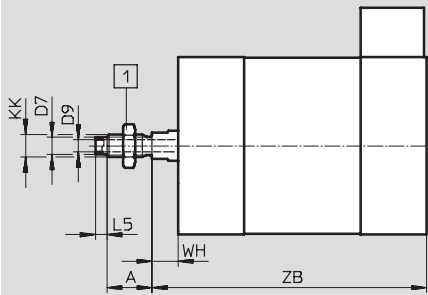
Technical data

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Dimensions – Variants

Download CAD Data → www.festo.com/us/cad

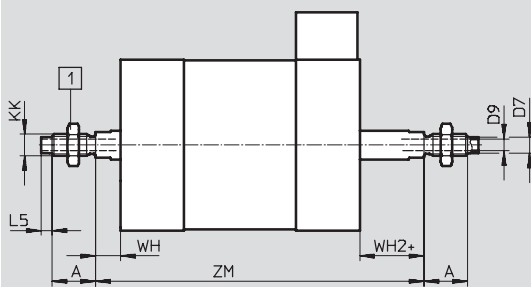
A – Male thread



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

Size	Stroke [mm]	A -0.5	D7 Ø	D9 Ø	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 Ø	D9 Ø	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

Short-stroke cylinders ADNE-LAS, with linear motor

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Ordering data – Modular products

Ordering table					
Size	32	40	Condition s	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	-	
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Short-stroke cylinders ADNE-LAS, with linear motor

Accessories

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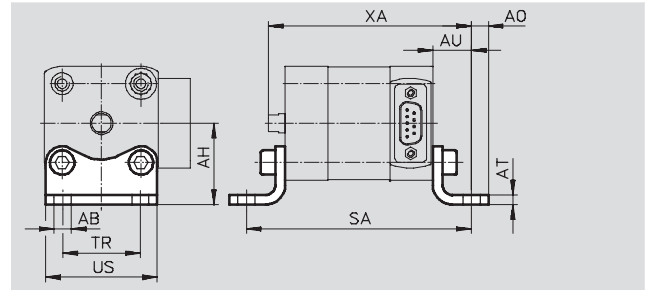
Foot mounting HNA

Material:

HNA: Galvanised steel

HNA-...-R3: Steel with protective coating

Free of copper, PTFE and silicone



Dimensions and ordering data										
For size	Stroke	AB Ø	AH	A0	AT	AU	SA	TR	US	XA
	[mm]	H14	JS14		±0.5	±0.2		±0.2	-0.5	
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

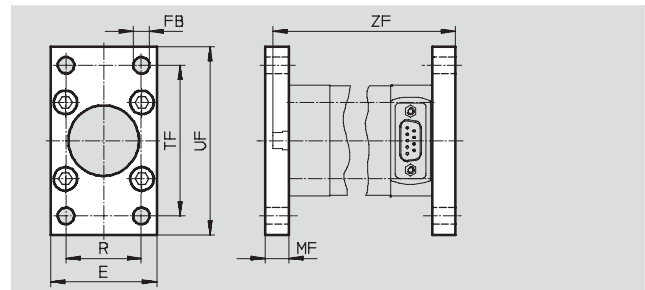
For size	Basic version				High corrosion protection			
	CRC ¹⁾	Weight [g]	Part No.	Type	CRC ¹⁾	Weight [g]	Part No.	Type
32	2	70	537241	HNA-32	3	70	537256	HNA-32-R3
40	2	90	537242	HNA-40	3	90	537257	HNA-40-R3

Flange mounting FNC

Material:

Galvanised steel

Free of copper, PTFE and silicone



Dimensions and ordering data								
For size	Stroke	E	FB Ø	MF	R	TF	UF	ZF
	[mm]						±1	
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	2	240	174376	FNC-32	4	240	161846	CRFNG-32
40	2	280	174377	FNC-40	4	300	161847	CRFNG-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 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

Accessories

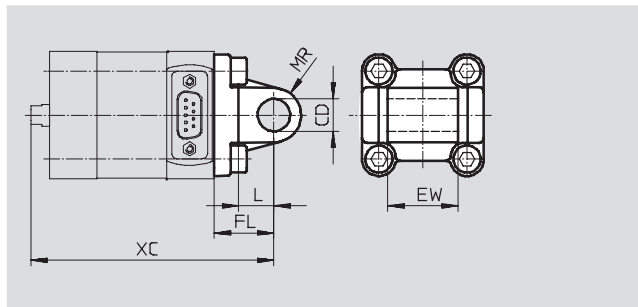
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Swivel flange SNCL

Material:

SNCL: Die-cast aluminium

Free of copper, PTFE and silicone



Dimensions and ordering data							
For size	Stroke	CD	EW	FL	L	MR	XC
	[mm]	Ø H9	h12	±0.2			
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

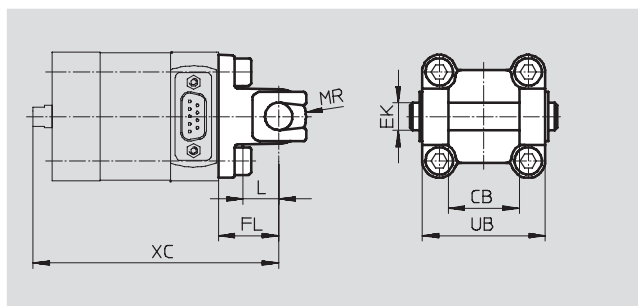
Swivel flange SNCB/SNCB-...-R3

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	CB	EK	FL	L	MR	XC
	[mm]	H14	Ø e8	±0.2			
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

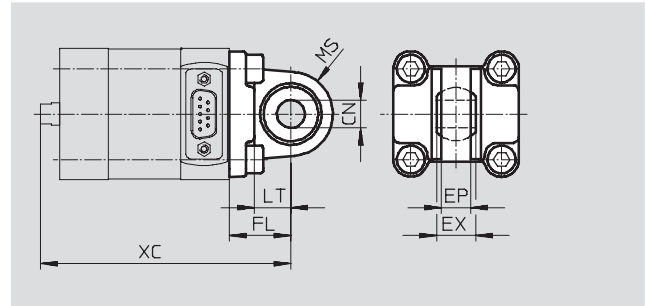
Accessories

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Swivel flange SNCS

Material:

SNCL: Die-cast aluminium



Dimensions and ordering data								
For size	Stroke	CN Ø 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

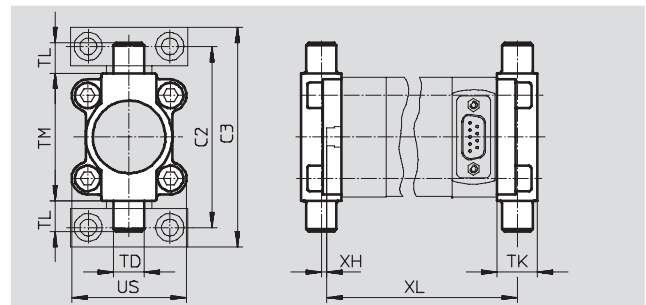
Trunnion flange ZNCF/CRZNG

Material:

ZNCF: Stainless steel casting

CRZNG: Electropolished stainless steel casting

Free of copper, PTFE and silicone



Dimensions and ordering data										
For size	Stroke	C2	C3	TD Ø 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

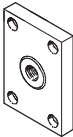
Components subject to particularly high corrosion stress. Parts used with aggressive media, e.g. in the food or chemical industry. These applications should be supported with special tests with the media if required.

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-M6-1/8
		157330	AD-M6-1/4
	40	157331	AD-M8-1/8
		157332	AD-M8-1/4
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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