



- Gentle stopping without impact vibrations or noise
- Simple activation via valve terminal
- Single-acting or double-acting

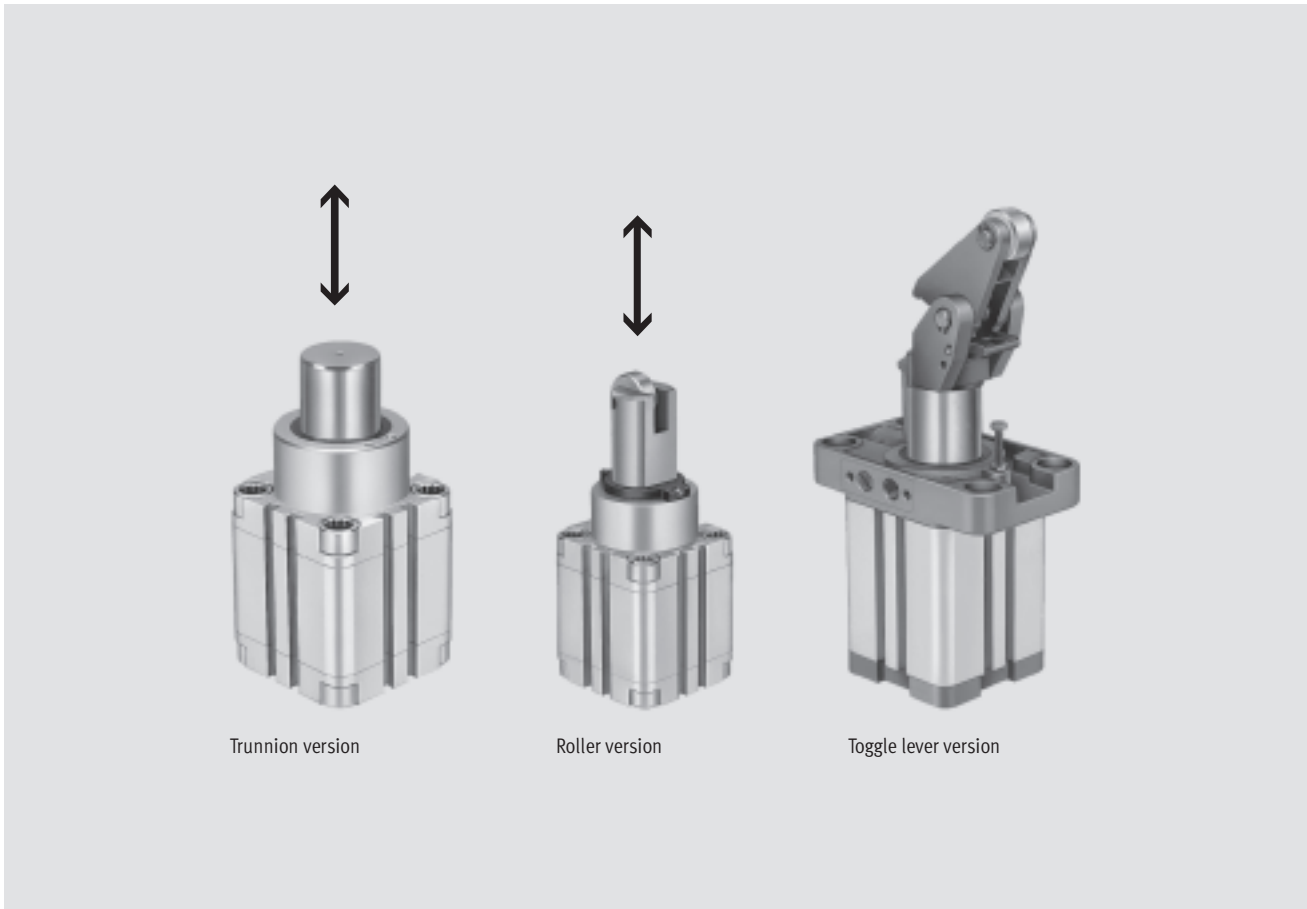
Stopper cylinders STA/STAF

Features

FESTO

Special-function drives
Stopper cylinders

5.2



Trunnion version

Roller version

Toggle lever version

Brief description

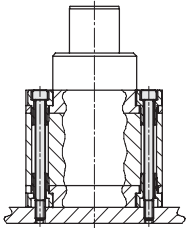
- Single-acting or double-acting
- Variants
 - Trunnion
 - Roller
 - Toggle lever
- Solenoid valves mounted directly to flange plate
- Fast and simple set-up of conveyor lines
- Workpiece carriers, pallets and packages weighing up to 300 kg can be safely stopped
- Gentle stopping without impact vibrations or noise with toggle lever version
- Simple activation via valve terminal (e.g. in combination with other cylinders at an assembly station)
- Flanged solenoid valve on individual stopper cylinders permits fast actuation even over long distances
- Space saving sensing with integrated proximity sensors

Stopper cylinders STA/STAF

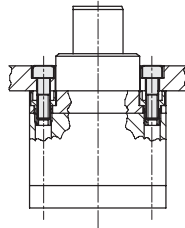
Features

Mounting options

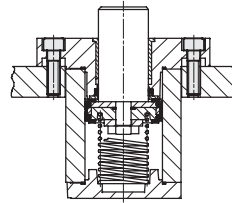
Through-hole mounting



Direct mounting

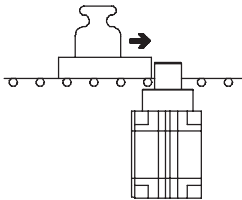


Flange mounting

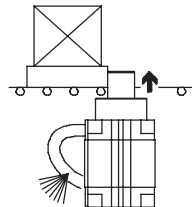


Application options and versions

For large masses



Safety

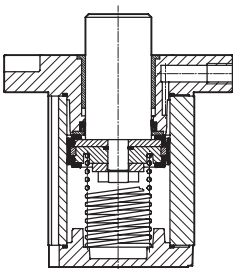


by means of piston rod spring return
in the event of pressure failure

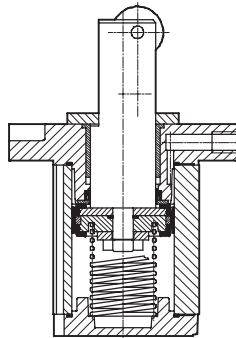
Highly effective, low noise level

Toggle lever version with integrated
shock absorber facilitates precise and
gentle stopping of the workpiece
carrier

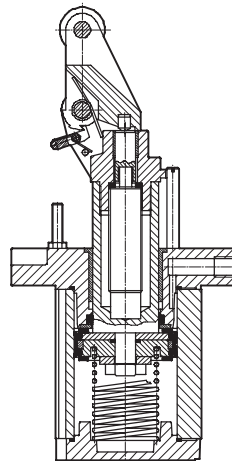
Trunnion version



Roller version



Toggle lever version



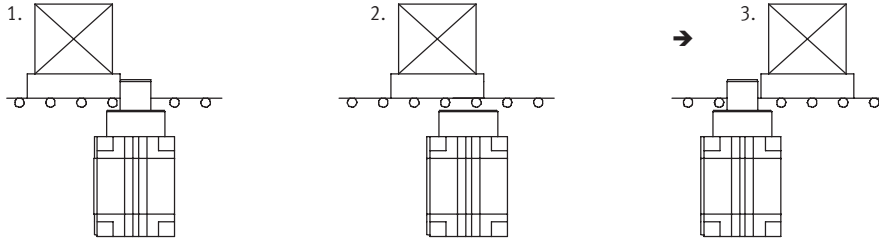
Stopper cylinders STA/STAF

Features

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Trunnion version

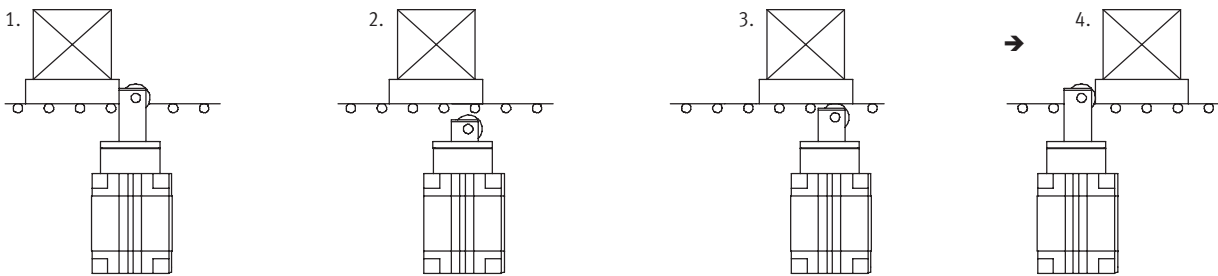
Technical data → 1 / 5.2-12



1. Sudden braking of the workpiece carrier via the piston rod.
2. The workpiece carrier is released by activating the cylinder. The control system must hold the piston down until the workpiece carrier has passed the stopper cylinder.
3. The piston rod then advances by means of spring force or compressed air. The next workpiece carrier can then be stopped.

Roller version

Technical data → 1 / 5.2-16



1. Sudden braking of the workpiece carrier via the piston rod.
2. The workpiece carrier is released by activating the cylinder.
3. The piston rod then advances by means of spring force or compressed air until the roller makes contact with the workpiece carrier. The workpiece carrier continues to move forward.
4. After the workpiece carrier has passed, the piston rod advances to the end position. The next workpiece carrier can then be stopped.

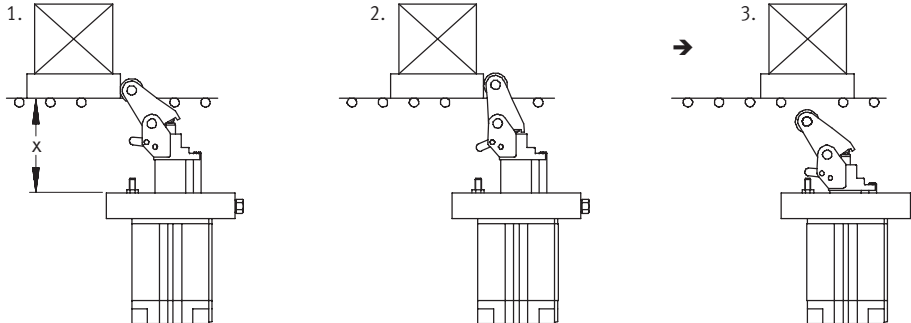
Stopper cylinders STA/STAF

Features

FESTO

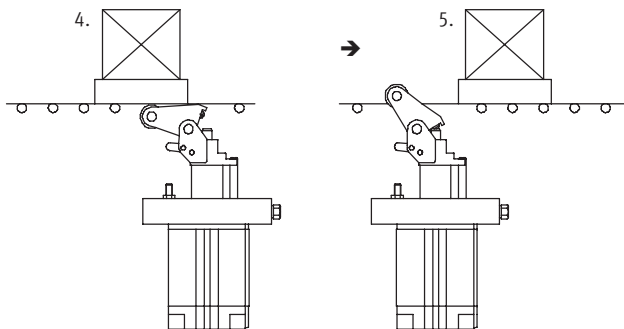
Toggle lever version

Technical data → 1 / 5.2-20

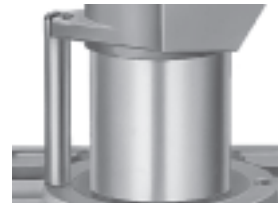


X = STAF-32:	62.8 ... 63.4 mm
STAF-50:	96.5 ... 99.5 mm
STAF-80:	163 ... 166 mm

1. Gentle stopping of heavy loads via a hydraulic shock absorber in the piston rod.
2. The toggle lever is latched into the retracted end position so that the workpiece carrier cannot be pushed back by the shock absorber.
3. The workpiece carrier is released by means of compressed air, and the toggle lever is released simultaneously.



4. The piston is extended by means of spring force or compressed air. The toggle lever tips back which prevents the workpiece carrier from being lifted.
5. The toggle lever is raised by means of spring force and stops the next workpiece carrier.



Protection against rotation:
The guide rod always aligns the toggle lever precisely to the approaching workpiece carrier.



Integrated shock absorber: Absorbs impact energy and stops the workpiece carrier gently, and with low noise levels. The impact energy can be adjusted using the regulating screw in the toggle lever.



Detenting roller lever: The workpiece carrier cannot be pushed back by the shock absorber.



Locking mechanism for disabling the stopper function: The workpiece carrier is able to pass the holding point without activating the cylinder.

Note
Trunnion or roller type stopper cylinders can be mounted in any position. Stopper cylinders with toggle lever must be mounted in the vertical, upright position.

Stopper cylinders STA/STAF

Features




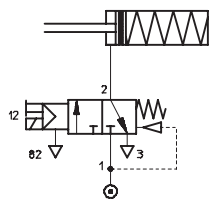
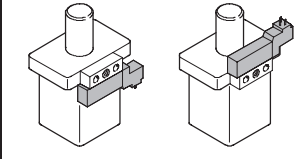
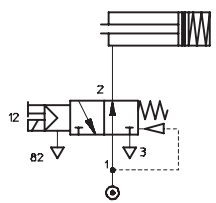
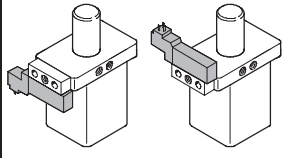
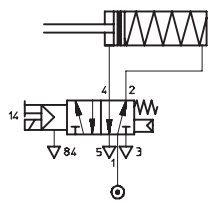
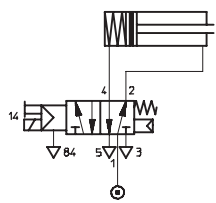
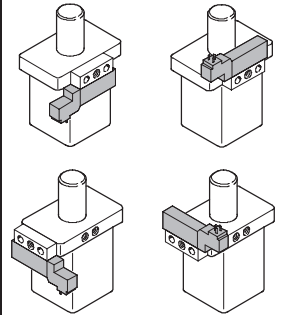
Mounting options for solenoid valves and valve functions

An MEH, MEBH, MOEH or MOEBH solenoid valve can be mounted on the stopper cylinder for quick, direct actuation of the cylinder. This type of

actuation is only possible for stopper cylinders with flange mounting. The valve must be mounted on the flange


plate via a ZVA valve sub-base. The position of the piston rod when the solenoid valve is in the normal

position depends upon the valve type and the position of the valve on the cylinder.

Application	Piston rod initial position	Required solenoid valve	Type of mounting for the solenoid valve with sub-base ZVA
	Single-acting		
		Normally extended 173 125 MEH-3/2-5,0-B 172 999 MEBH-3/2-5,0-B	
		Normally retracted 173 429 MOEH-3/2-5,0-B 173 002 MOEBH-3/2-5,0-B	
	Double-acting		
	Normally extended 173 128 MEH-5/2-5,0-B 173 005 MEBH-5/2-5,0-B		
	Normally retracted 173 128 MEH-5/2-5,0-B 173 005 MEBH-5/2-5,0-B		

Special-function drives
Stopper cylinders

5.2

 Note
 Cylinders are always supplied single-acting with spring. If a double-acting stopper cylinder is required, the filter nipple in the exhaust port must be removed. The exhaust port is then used as a supply port.
 Solenoid valves MEH, MEBH → Volume 2

Stopper cylinders STA/STAF

Features

Selection aid

Complete the following three steps for quick and accurate selection of a suitable stopper cylinder:

1. If gentle cushioning is required in your application in order to avoid vibration and shifting of the workpiece, and to reduce noise, use a stopper cylinder with toggle lever (graph 2).
2. Check to see whether or not the stopper cylinder covers the desired working range (see graph 1 and selection example).
3. Check to see whether or not the installation dimensions for the selected cylinder fulfil your requirements.

Example

A workpiece carrier with workpiece (material-dependent frictional value $\mu = 0.1$) and a total weight of 200 kg moving at a speed of 17.5 m/min is to be stopped gently. The intersection of the vertical line in graph toggle lever version STAF-80 \rightarrow 1 / 5.2-8 (impact

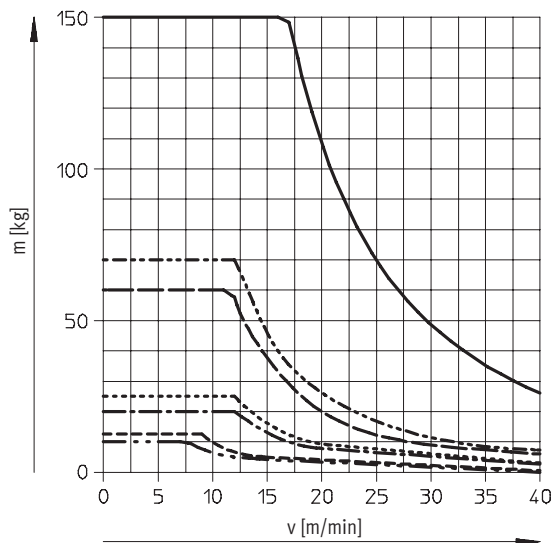
mass) and the horizontal line (impact velocity) is within the working range of the stopper cylinder (with toggle lever) STAF-80-40-P-A-K, i.e. this stopper cylinder fulfils the requirement and can be utilised.

The maximum permissible kinetic impact energy on the piston rod of stopper cylinders must not be exceeded. Mechanical failure of the cylinder may otherwise result. The values in the graph presuppose the

use of a flexible buffer on the workpiece carrier with a deformation capacity of 1 mm for trunnion and roller type stopper cylinders.

Impact velocity v as a function of the impact mass m

Trunnion or roller version



- STAF-80-30-P-A-R
- STAF-80-40-P-A-R
- - - STA...-50-30-P-A
- - - STA...-50-30-P-A-R
- - - STA...-32-20-P-A
- - - STA...-32-20-P-A-R
- - - STA-20-15-P-A
- - - STA-20-15-P-A-R

Stopper cylinders STA/STAF

Features



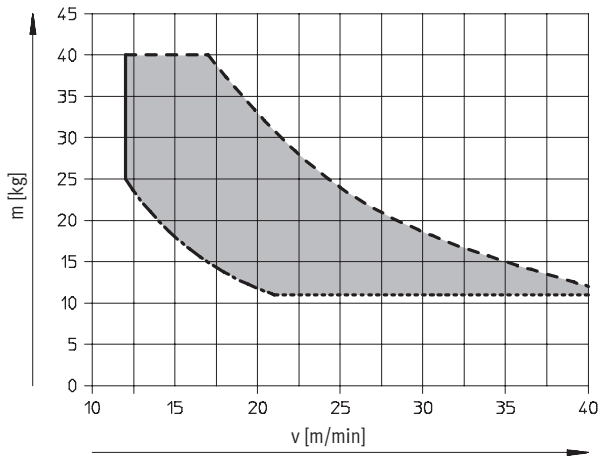
Special-function drives
Stopper cylinders

5.2

Impact velocity v as a function of the impact mass m

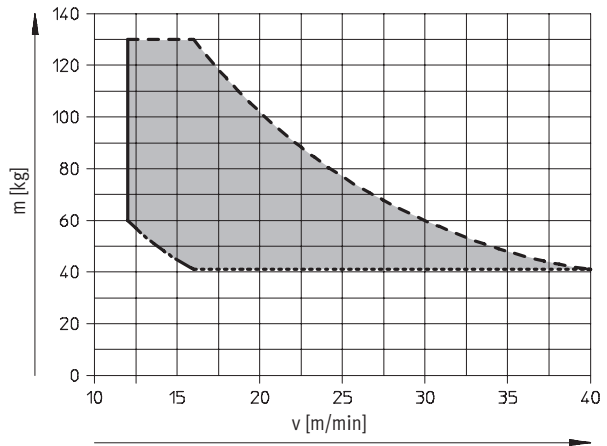
Toggle lever version

STAF-32 with a frictional value of $\mu = 0.1$



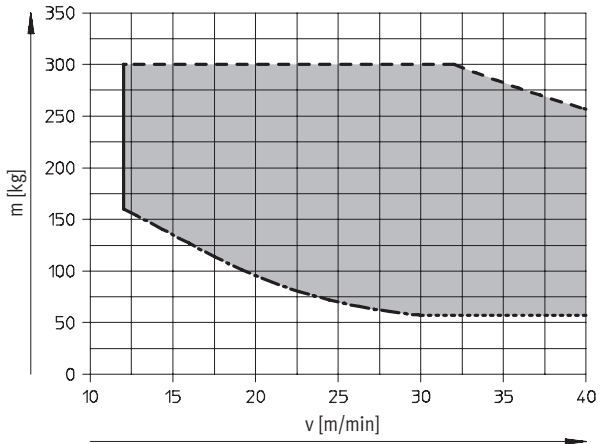
Toggle lever version

STAF-50 with a frictional value of $\mu = 0.1$



Toggle lever version

STAF-80 with a frictional value of $\mu = 0.1$



- Operational range
- Max. utilisation
- Recommended minimum utilisation¹⁾
- Required mass²⁾

- 1) For optimal shock absorber operation.
- 2) Required mass for the toggle lever to be fully depressed to the end position with this frictional value.

Note

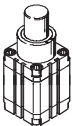
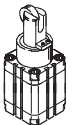
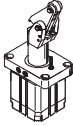
The required mass for the full depression of the lever is dependent on the frictional mating between conveyor belt and transported material, other frictional values available on

request. The cushioning time increases in the partial load range. Energy values are valid for room temperature $T = 20$ °C.

Stopper cylinders STA/STAF

Product range overview



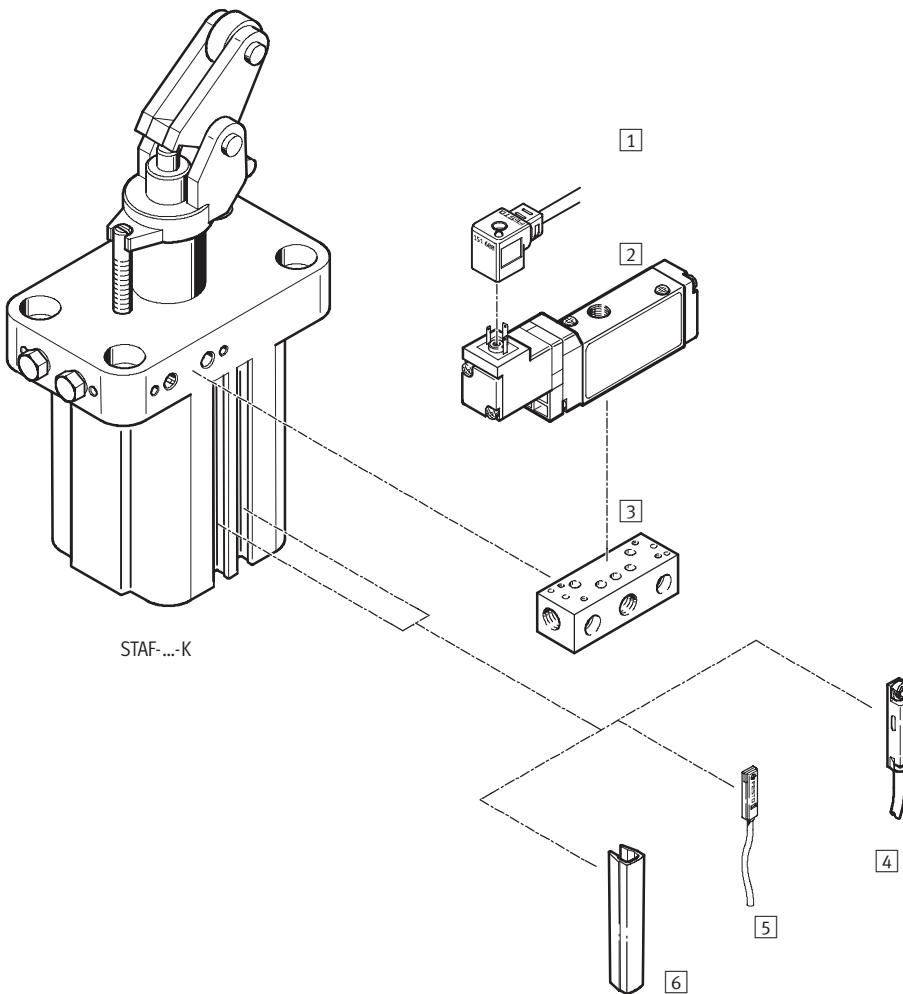
Function	Design	Type	Piston \varnothing [mm]	Stroke [mm]	Type of mounting		Cushioning P	Position sensing A	→ Page	
					Direct	With flange				
Single or double- acting	Basic version									
		Trunnion version	20	15	■	-	■	■	1 / 5.2-12	
			32	20	■	■	■	■		
			50	30	■	■	■	■		
		Roller version	20	15	■	-	■	■	1 / 5.2-16	
			32	20	■	■	■	■		
			50	30	■	■	■	■		
			80	30, 40	-	■	■	■		
		Toggle lever version	32	20	-	■	■	■	1 / 5.2-20	
			50	30	-	■	■	■		
			80	40	-	■	■	■		

Special-function drives
Stopper cylinders

5.2

Stopper cylinders STA/STAF

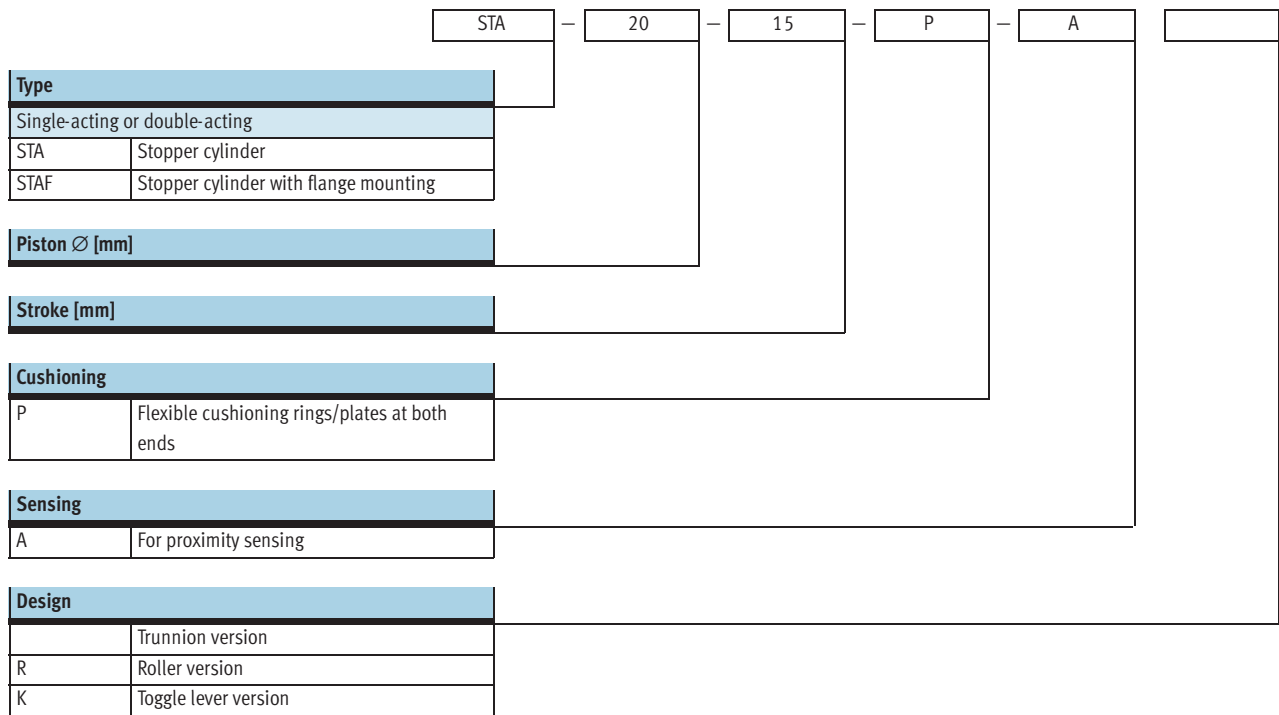
Peripherals overview



Accessories		
	Brief description	→ Page
1	Cable with socket KMEB	Volume 2
2	3/2-way valve MEBH	Volume 2
3	Sub-base ZVA	1 / 5.2-23
4	Proximity sensors SME/SMT-8M	1 / 5.2-25
5	Proximity sensors SME/SMT-8	1 / 5.2-25
6	Slot cover ABP	1 / 5.2-25

Stopper cylinders STA/STAF

Type codes



Stopper cylinders STA/STAF, trunnion

Technical data



Function



- Note

Contact with liquids must be avoided during use.



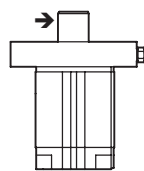
- - Diameter
20 ... 50 mm
- - Stroke length
15 ... 30 mm
- - www.festo.com/en/Spare_parts_service

General technical data				
Piston Ø		20	32	50
Pneumatic connection	STA	M5	G $\frac{1}{8}$	G $\frac{1}{8}$
	STAF	-	M5	G $\frac{1}{8}$
Stroke	[mm]	15	20	30
Piston rod Ø	[mm]	12	20	32
Operating pressure	[bar]	10		
Operating medium	Filtered compressed air, lubricated or unlubricated			
Design	Piston cylinder with spring return			
Cushioning	Flexible cushioning rings/plates at both ends			
Position sensing	For proximity sensing			
Type of mounting	Via through-holes			
	Using female threads			
Mounting position	Any			
Mode of operation	Single-acting or double-acting			
Protection against torsion	None			
Ambient temperature ¹⁾	[°C]	+5 ... +60		

1) Note operating range of proximity sensors
 Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Forces [N]				
Piston Ø		20	32	50
Impact force		260	1,000	2,900
Spring force		13 ... 18	20 ... 42	47 ... 64

Impact force is the basis for the calculation of permissible impact energy. Depending upon the type of load to be stopped, it is advisable to use a flexible buffer to cushion the impact, reduce noise levels and to optimise impact energy.



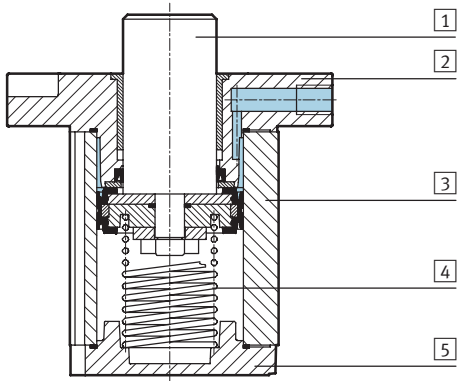
→ = Direction of impact force

Stopper cylinders STA/STAF, trunnion

Technical data

Materials

Sectional view



Stopper cylinder

1	Piston rod	Stainless steel
2	Flange	Die-cast aluminium
3	Cylinder barrel	Anodised aluminium
4	Springs	Spring steel
5	Plug cap	Anodised aluminium
-	Seals	Polyurethane
-	Note on material	Free of copper, PTFE and silicone

Stopper cylinders STA/STAF, trunnion

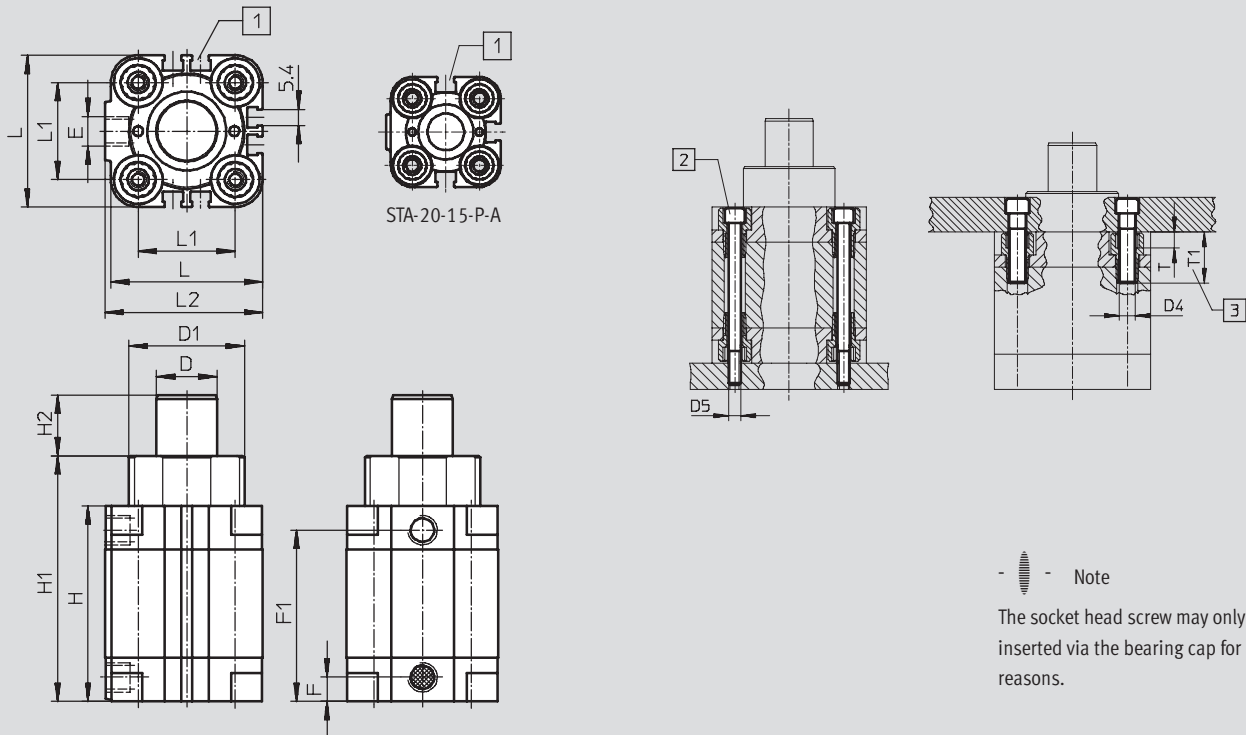
Technical data



Dimensions

Download CAD data → www.festo.com/en/engineering

Direct mounting



1 Sensor slot for proximity sensor SME/SMT-8

2 Socket head screw to DIN 912, screwed through

3 Recommended minimum screw-in depth

Note
The socket head screw may only be inserted via the bearing cap for design reasons.

∅	Stroke	D	D1	D4	D5	E	F	F1	H	H1	H2	L	L1	L2	T	T1
[mm]	[mm]	∅	∅													
20	15	12	26	M5	M4	M5	8	45	53	64.5	15	36	22	37.5	4	18
32	20	20	38	M6	M5	G ³ / ₈	8	56.5	64.5	80.5	20	50	32	52	5	20
50	30	32	53	M8	M6	G ³ / ₈	8	67.5	75.5	99.5	30	68	50	71	6	20

Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

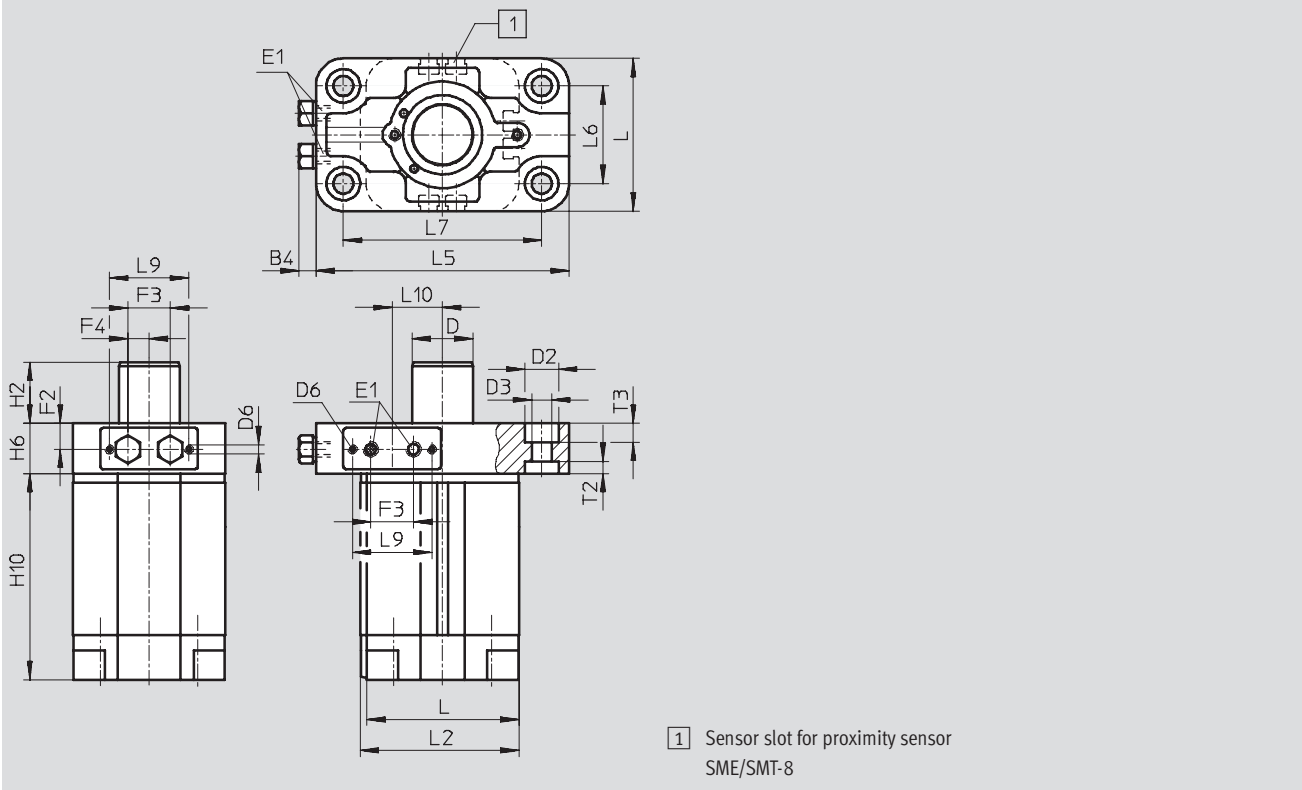
Stopper cylinders STA/STAF, trunnion

Technical data



Dimensions Download CAD data → www.festo.com/en/engineering

Flange mounting



Ø	Stroke	B4	D	D2	D3	D6	E1	F2	F3	F4	H2
[mm]	[mm]		Ø	Ø	Ø						
32	20	4.5	20	11	6.6	M3	M5	8.5	14	7	20
50	30	4.5	32	15	9	M4	G $\frac{1}{8}$	9	17	8	30

Ø	Stroke	H6	H10	L	L2	L5	L6	L7	L9	L10	T2	T2
[mm]	[mm]											
32	20	16.5	67.5	50	52	83	32	65	26	16.5	4	6.2
50	30	18	85	68	71	111	45	90	36	7	5	5

Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Ordering data					
Piston Ø [mm]	Stroke [mm]	Direct mounting		Flange mounting	
		Part No.	Type	Part No.	Type
20	15	164 887	STA-20-15-P-A	-	-
32	20	164 888	STA-32-20-P-A	164 890	STAF-32-20-P-A
50	30	164 889	STA-50-30-P-A	164 891	STAF-50-30-P-A

Stopper cylinders STA/STAF, roller

Technical data






Function




Note

Contact with liquids must be avoided during use.



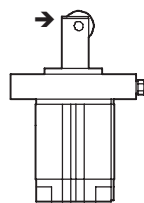
-  Diameter
20 ... 80 mm
-  Stroke length
15 ... 40 mm
-  www.festo.com/en/Spare_parts_service

General technical data					
Piston Ø		20	32	50	80
Pneumatic connection	STA	M5	G $\frac{1}{8}$	G $\frac{1}{8}$	-
	STAF	-	M5	G $\frac{1}{8}$	G $\frac{1}{8}$
Stroke	[mm]	15	20	30	30/40
Piston rod Ø	[mm]	12	20	32	50
Operating pressure	[bar]	10			
Operating medium	Filtered compressed air, lubricated or unlubricated				
Design	Piston cylinder with spring return				
Cushioning	Flexible cushioning rings/plates at both ends				
Position sensing	For proximity sensing				
Type of mounting	Via through-holes				
	Using female threads				
Mounting position	Any				
Mode of operation	Single-acting or double-acting				
Protection against torsion	Flat-sided piston rod				
Ambient temperature ¹⁾	[°C]	+5 ... +60			

1) Note operating range of proximity sensors
 -  Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Forces [N]					
Piston Ø		20	32	50	80
Stroke		15	20	30	30 40
Impact force		170	830	2,300	14,600 13,300
Spring force		13 ... 18	20 ... 42	47 ... 64	79 ... 115 101 ... 170

Impact force is the basis for the calculation of permissible impact energy. Depending upon the type of load to be stopped, it is advisable to use a flexible buffer to cushion the impact, reduce noise levels and to optimise impact energy.



→ = Direction of impact force

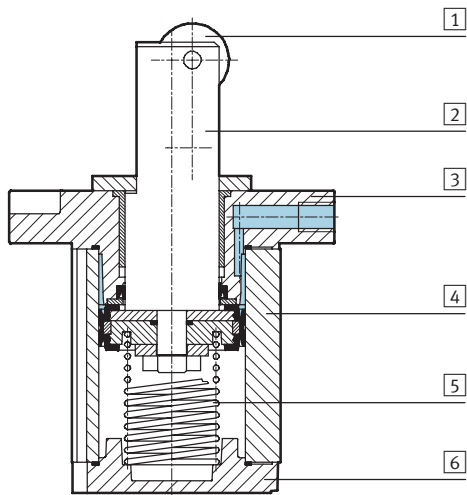
Stopper cylinders STA/STAF, roller

Technical data

FESTO

Materials

Sectional view



Stopper cylinder

1	Roller	Polymer
2	Piston rod	Stainless steel
3	Flange	Die-cast aluminium
4	Cylinder barrel	Anodised aluminium
5	Springs	Spring steel
6	Plug cap	Anodised aluminium
-	Seals	Polyurethane
-	Note on material	Free of copper, PTFE and silicone

Stopper cylinders STA/STAF, roller

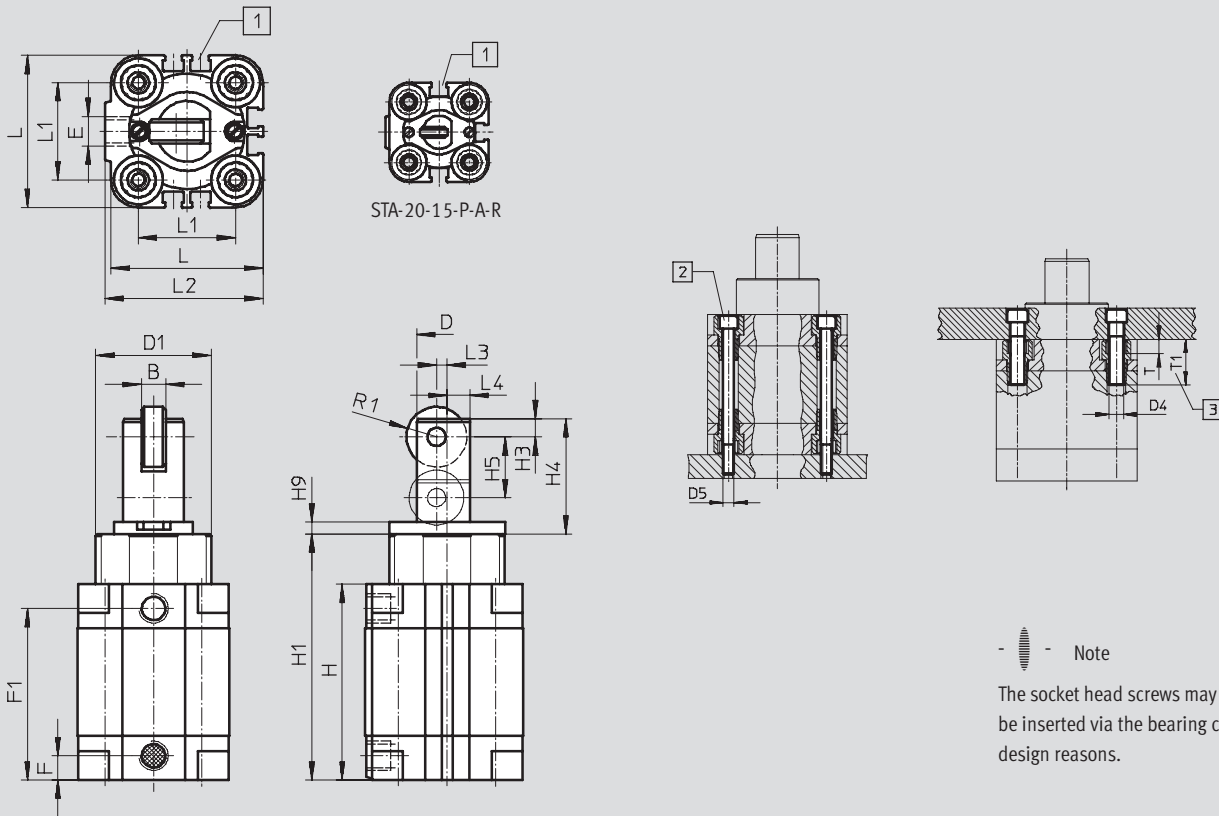
Technical data



Dimensions

Download CAD data → www.festo.com/en/engineering

Direct mounting



1 Sensor slot for proximity sensor SME/SMT-8

2 Socket head screw to DIN 912, screwed through

3 Recommended minimum screw-in depth

∅	Stroke	B	D	D1	D4	D5	E	F	F1	H	H1	H3
[mm]	[mm]		∅	∅								
20	15	4	12	26	M5	M4	M5	8	45	53	64.5	3
32	20	8	20	38	M6	M5	G $\frac{1}{8}$	8	56.5	64.5	80.5	6
50	30	10	32	53	M8	M6	G $\frac{1}{8}$	8	67.5	75.5	99.5	6

∅	Stroke	H4	H5	H9	L	L1	L2	L3	L4	R1	T	T1
[mm]	[mm]											
20	15	24	15	4	36	22	37.5	2	4.5	5	4	18
32	20	38	20	4	50	32	52	3.5	7.5	9	5	20
50	30	50.5	30	5	68	50	71	7	12	12.5	6	20

– Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Stopper cylinders STA/STAF, roller

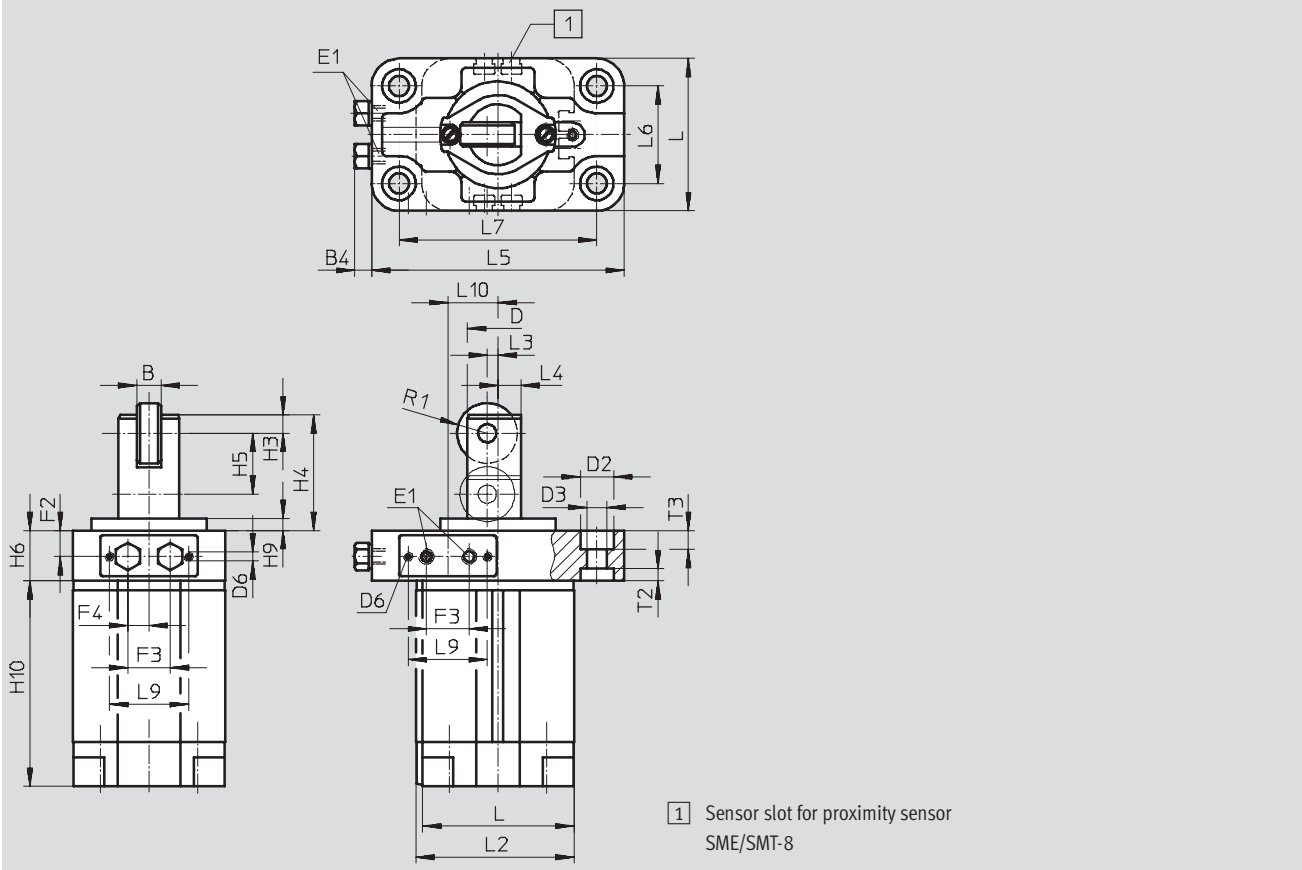
Technical data



Dimensions

Download CAD data → www.festo.com/en/engineering

Flange mounting



∅ [mm]	Stroke [mm]	B	B4	D ∅	D2 ∅	D3 ∅	D6	E1	F2	F3	F4	H3	H4	H5	H6
32	20	8	4.5	20	11	6.6	M3	M5	8.5	14	7	6	38	20	16.5
50	30	10	4.5	32	15	9	M4	G $\frac{1}{8}$	9	17	8	6	50.5	30	18
80	30	18	4.5	50	18	11	M4	G $\frac{1}{8}$	11	17	4.5	10	63	30	22
	73												40		

∅ [mm]	Stroke [mm]	H9	H10	L	L2	L3	L4	L5	L6	L7	L9	L10	R1	T2	T3
32	20	4	67.5	50	52	3.5	7.5	83	32	65	26	16.5	9	4	6.2
50	30	5	85	68	71	7	12	111	45	90	36	7	12.5	5	5
80	30	8	119	107	111	11	18	160	63	135	36	18.5	18	6	6
	129														

– † – Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Piston ∅ [mm]		Stroke [mm]	Direct mounting		Flange mounting	
			Part No.	Type	Part No.	Type
20	15		164 883	STA-20-15-P-A-R	–	–
32	20		164 884	STA-32-20-P-A-R	164 892	STAF-32-20-P-A-R
50	30		164 885	STA-50-30-P-A-R	164 893	STAF-50-30-P-A-R
80	30		–	–	164 886	STAF-80-30-P-A-R
80	40		–	–	164 894	STAF-80-40-P-A-R

Stopper cylinders STA/STAF, toggle lever

Technical data






Function



Note

Contact with liquids must be avoided during use.



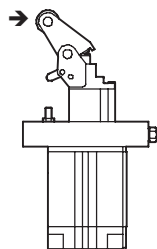
-  Diameter
32 ... 80 mm
-  Stroke length
20 ... 40 mm
-  www.festo.com/en/Spare_parts_service

General technical data			
Piston \varnothing	32	50	80
Pneumatic connection	M5	G $\frac{1}{8}$	G $\frac{1}{8}$
Stroke [mm]	20	30	40
Piston rod \varnothing [mm]	20	32	50
Operating pressure [bar]	10		
Operating medium	Filtered compressed air, lubricated or unlubricated		
Design	Piston cylinder with spring return		
Cushioning	Flexible cushioning rings/plates at both ends		
Position sensing	For proximity sensing		
Type of mounting	Via through-holes		
Mounting position	Vertical, upright		
Mode of operation	Single-acting or double-acting		
Protection against torsion	Guide rod		
Ambient temperature ¹⁾ [°C]	+5 ... +60		

1) Note operating range of proximity sensors
 -  Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Forces [N]			
Piston \varnothing	32	50	80
Impact force	480	1,200	6,400
Spring force	20 ... 42	47 ... 64	101 ... 170

Impact force is the basis for the calculation of permissible impact energy. Depending upon the type of load to be stopped, it is advisable to use a flexible buffer to cushion the impact, reduce noise levels and to optimise impact energy.



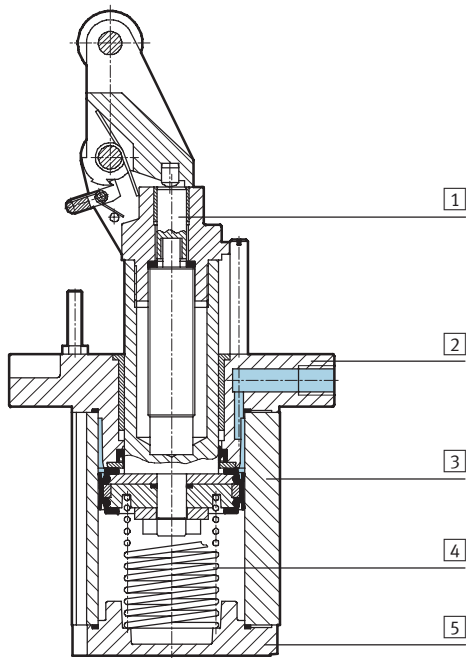
→ = Direction of impact force

Stopper cylinders STA/STAF, toggle lever

Technical data

Materials

Sectional view



Stopper cylinder	
1	Piston rod Stainless steel
2	Flange Die-cast aluminium
3	Cylinder barrel Anodised aluminium
4	Springs Spring steel
5	Plug cap Anodised aluminium
-	Seals Polyurethane
-	Note on material Free of copper, PTFE and silicone

Stopper cylinders STA/STAF, toggle lever

Technical data



Special-function drives
Stopper cylinders

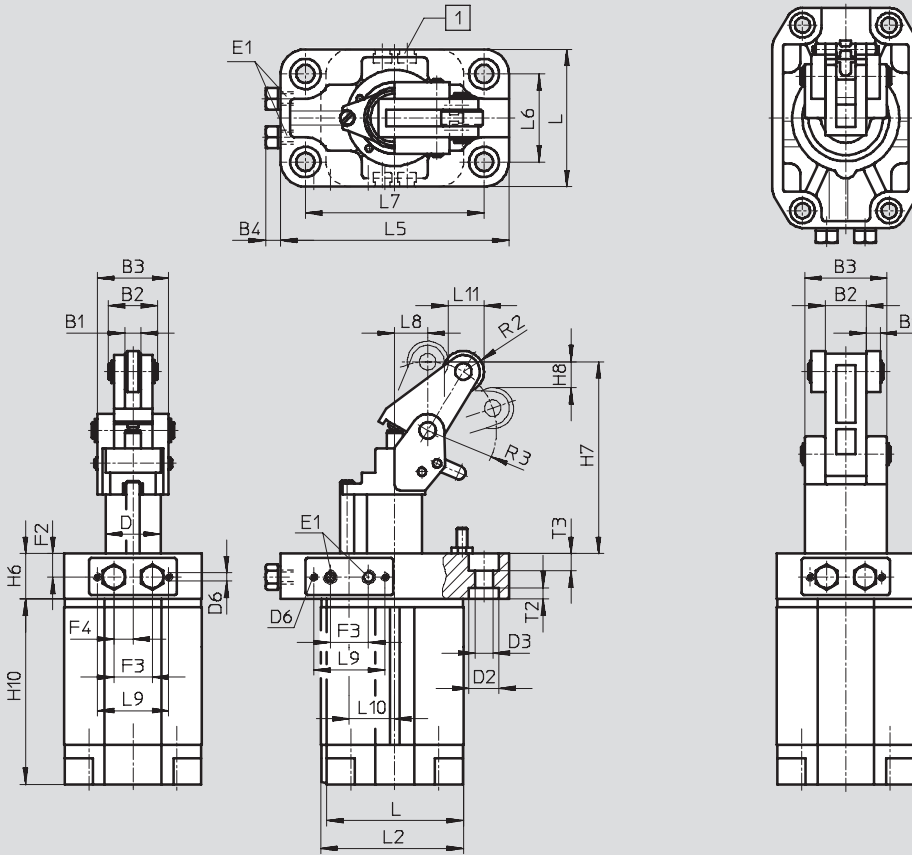
5.2

Dimensions

Download CAD data → www.festo.com/en/engineering

Flange mounting

STAF-80-40-P-A-K:
Toggle lever with double roller



1 Sensor slot for proximity sensor
SME/SMT-8

∅	Stroke	B1	B2	B3	B4	D	D2	D3	D6	E1	F2	F3	F4	H6	H7	H8
[mm]	[mm]					∅	∅	∅								
32	20	6	18	26	4.5	20	11	6.6	M3	M5	8.5	14	7	16.5	70	9.5
50	30	10	27	38	4.5	32	15	9	M4	G ¹ / ₈	9	17	8	18	106	12
80	40	10	30	60	4.5	50	18	11	M4	G ¹ / ₈	11	17	4.5	22	182.5	23

∅	Stroke	H10	L	L2	L5	L6	L7	L8	L9	L10	L11	R2	R3	T2	T3
[mm]	[mm]														
32	20	67.5	50	52	83	32	65	12	26	16.5	13	7.5	25	4	6.2
50	30	85	68	71	111	45	90	21	36	7	17	11	39	5	5
80	40	129	107	111	160	63	135	30	36	18.5	34	16	60	6	6

– † – Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Ordering data

Piston ∅ [mm]	Stroke [mm]	Direct mounting		Flange mounting	
		Part No.	Type	Part No.	Type
32	20	–	–	164 880	STAF-32-20-P-A-K
50	30	–	–	164 881	STAF-50-30-P-A-K
80	40	–	–	164 895	STAF-80-40-P-A-K

Stopper cylinders STA/STAF

Accessories



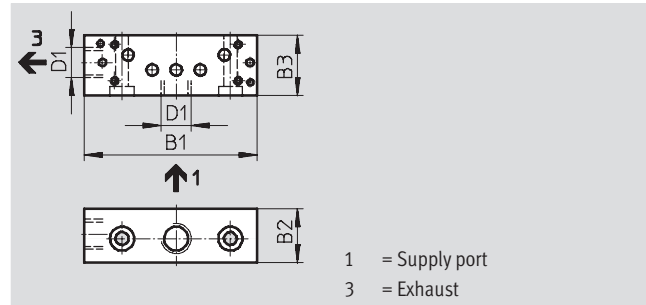
Sub-base ZVA

for stopper cylinder with flange

Material:

Wrought aluminium alloy

Free of copper, PTFE and silicone



Dimensions and ordering data								
For \varnothing	B1	B2	B3	D1	CRC ¹⁾	Weight	Part No.	Type
[mm]						[g]		
32	56	18	20	G $\frac{1}{8}$	2	50	164 896	ZVA-1
50/80	57.5	18	20	G $\frac{1}{8}$	2	52	164 897	ZVA-2

1) Corrosion resistance class 2 according to Festo standard 940 070

Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a surrounding industrial atmosphere or media such as cooling or lubricating agents.

Stopper cylinders STA/STAF

Accessories



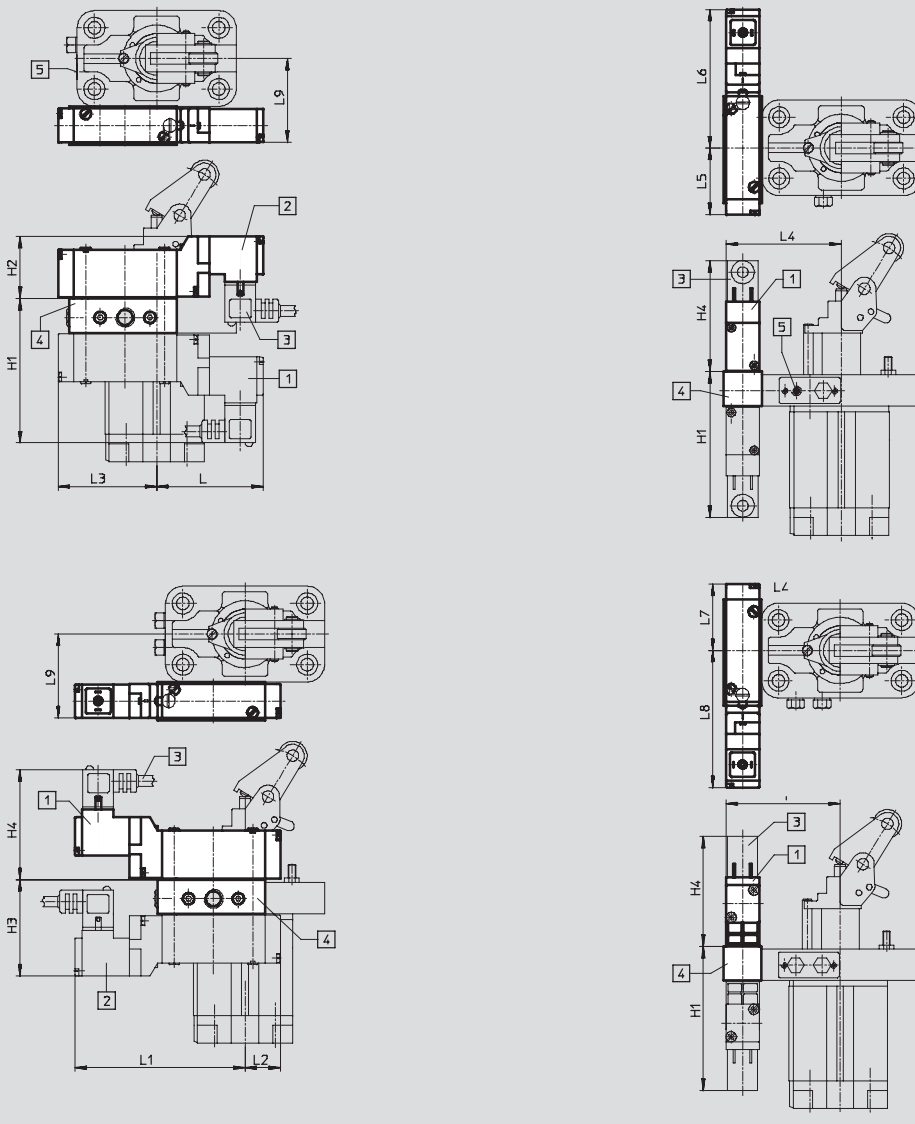
Special-function drives
Stopper cylinders

5.2

Dimensions

Download CAD data → www.festo.com/en/engineering

Mounting dimensions for solenoid valves with sub-base ZVA on stopper cylinders



- 1 Solenoid can be repositioned by 180°
- 2 Solenoid rotated 180° (not as supplied)
- 3 Plug socket KME
- 4 Sub-base
- 5 Filter nipple with 3/2-way valves, sealing plug with 5/2-way valves

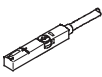

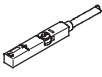
For Ø [mm]	L	L1	L2	L3	L4	L5	L6
32	55.5	88.5	18.5	51.5	59	35	72
50	65	79	28	42	73	36	71
80	48.5	95.5	11.5	58.5	98	39	68

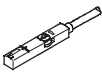


For Ø [mm]	L7	L8	L9	H1	H2	H3	H4
32	35	72	42	74.5	33.5	48.5	59.5
50	34	73	52	77	31	31	57
80	31	76	71	79	29	53	56



Stopper cylinders STA/STAF


Accessories

FESTO

Ordering data – Proximity sensors for T-slot, magneto-resistive					Technical data → www.festo.com/catalogue/sm	
	Type of mounting	Switch output	Electrical connection	Cable length [m]	Part No.	Type
N/O contact						
	Insertable in the slot from above, flush with cylinder profile	PNP	Cable, 3-wire	2.5	543 867	SMT-8M-PS-24V-K-2,5-OE
			Plug M8x1, 3-pin	0.3	543 866	SMT-8M-PS-24V-K-0,3-M8D
			Plug M12x1, 3-pin	0.3	543 869	SMT-8M-PS-24V-K-0,3-M12
		NPN	Cable, 3-wire	2.5	543 870	SMT-8M-NS-24V-K-2,5-OE
Plug M8x1, 3-pin	0.3		543 871	SMT-8M-NS-24V-K-0,3-M8D		
	Insertable in the slot lengthwise, flush with the cylinder profile	PNP	Cable, 3-wire	2.5	175 436	SMT-8-PS-K-LED-24-B
			Plug M8x1, 3-pin	0.3	175 484	SMT-8-PS-S-LED-24-B
N/C contact						
	Insertable in the slot from above, flush with cylinder profile	PNP	Cable, 3-wire	7.5	543 873	SMT-8M-PO-24V-K7,5-OE

Ordering data – Proximity sensors for T-slot, magnetic reed					Technical data → www.festo.com/catalogue/sm		
	Type of mounting	Switch output	Electrical connection	Cable length [m]	Part No.	Type	
N/O contact							
	Insertable in the slot from above, flush with cylinder profile	Contacting	Cable, 3-wire	2.5	543 862	SME-8M-DS-24V-K-2,5-OE	
				5.0	543 863	SME-8M-DS-24V-K-5,0-OE	
			Plug M8x1, 3-pin	Cable, 3-wire	2.5	543 872	SME-8M-ZS-24V-K-2,5-OE
				0.3	543 861	SME-8M-DS-24V-K-0,3-M8D	
	Insertable in the slot lengthwise, flush with the cylinder profile	Contacting	Cable, 3-wire	2.5	150 855	SME-8-K-LED-24	
			Plug M8x1, 3-pin	0.3	150 857	SME-8-S-LED-24	
N/C contact							
	Insertable in the slot lengthwise, flush with the cylinder profile	Contacting	Cable, 3-wire	7.5	160 251	SME-8-O-K-LED-24	

Ordering data – Connecting cables				Technical data → www.festo.com/catalogue/nebu	
	Electrical connection, left	Electrical connection, right	Cable length [m]	Part No.	Type
	Straight socket, M8x1, 3-pin	Cable, open end, 3-wire	2.5	541 333	NEBU-M8G3-K-2.5-LE3
			5	541 334	NEBU-M8G3-K-5-LE3
	Angled socket, M8x1, 3-pin	Cable, open end, 3-wire	2.5	541 338	NEBU-M8W3-K-2.5-LE3
			5	541 341	NEBU-M8W3-K-5-LE3

Ordering data – Slot cover for T-slot				Part No.	Type
	Mounting	Length [m]			
	Insertable from above	2x 0.5		151 680	ABP-5-S