



- Maximum torsional rigidity for high forces
- Widely-spaced piston rods for high loadcapacity
- Plain bearing or recirculating ball bearing guide

Specified types in accordance with ATEX directive for potentially explosive atmospheres

→ [www.festo.com/en/ex](http://www.festo.com/en/ex)

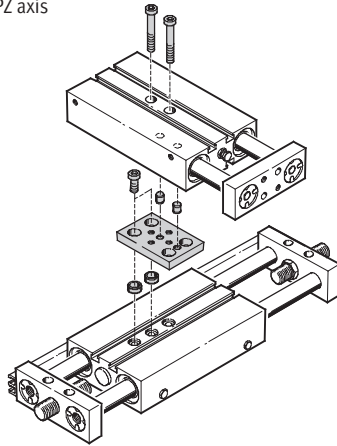
# Slide units SPZ, twin piston

Key features

## Multi-axis and drive combinations

The slide unit SPZ can be combined with different drives. An adapter kit is required for mounting between the two drives.

DPZ-/SPZ axis

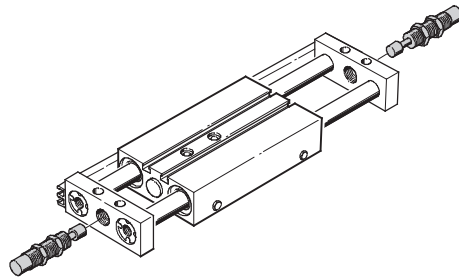


Adapter kits

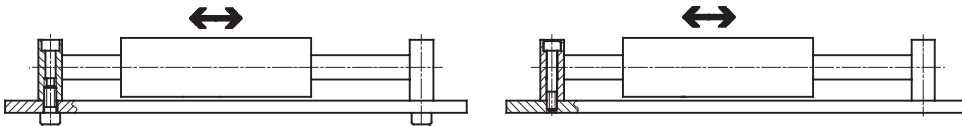
→ [www.festo.com](http://www.festo.com)

## Shock absorbers for slide operation

- From 30 ... 900 mm/s
- In slide operation, shock absorbers provide highly dynamic but gentle operating characteristics




## Slide operation SPZ...



# Slide units SPZ, twin piston

Overview and type codes

Function	Version	Piston Ø [mm]	Stroke [mm]	Position sensing A	Plain bearing guide GF	Recirculating ball bearing guide KF
Double-acting		10	10, 25, 40, 50	■	■	■
		16, 20, 25, 32	10, 25, 40, 50, 80, 100			

SPZ – 16 – 100 – P – A – KF

**Type**

Double-acting	
SPZ	Slide unit

**Piston Ø [mm]**

**Stroke [mm]**

**Cushioning**

P	Flexible cushioning rings/plates at both ends
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**Position sensing**

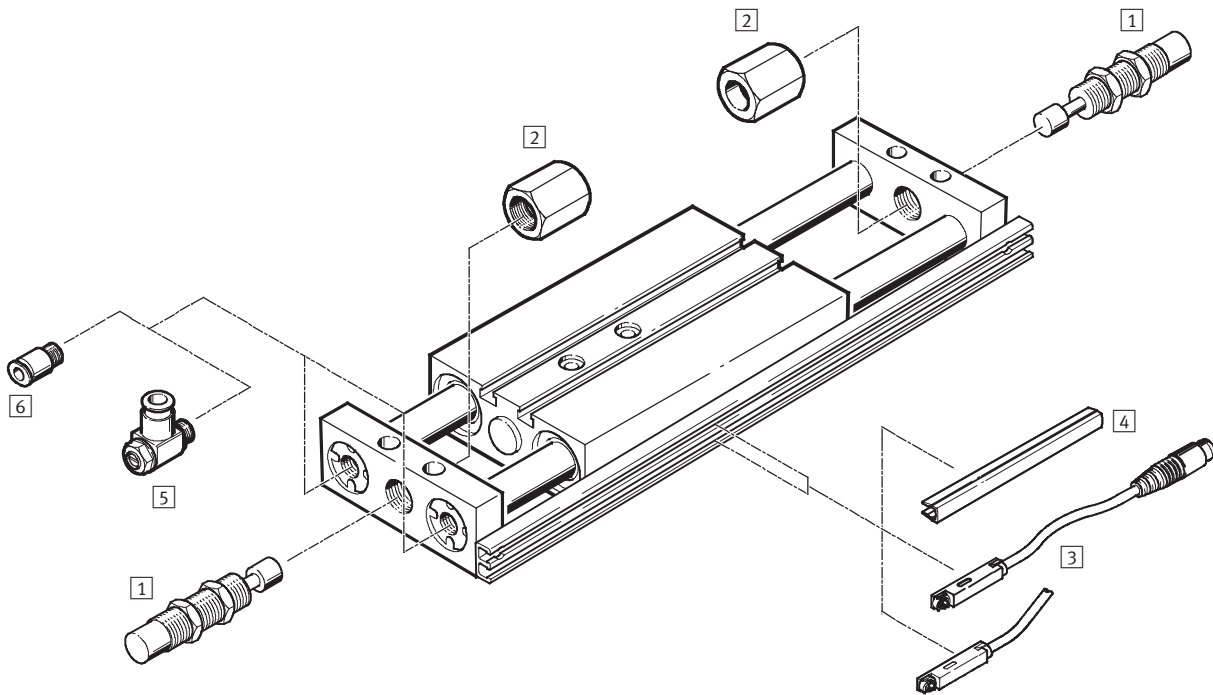
A	For proximity sensor
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**Guide**

	Plain bearing guide
KF	Recirculating ball bearing guide

# Slide units SPZ, twin piston

Peripherals overview

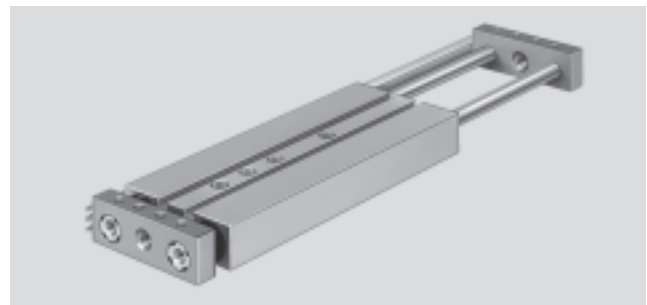
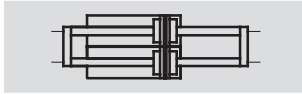


Accessories					
	Brief description	Piston Ø		→ Page/Internet	
		10, 16 mm	20, 25, 32 mm		
1	Shock absorber YSR-C	Hydraulic shock absorber with rapidly increasing cushioning characteristic	■	■	13
2	Stop limiters YSRA	Stroke limiter for shock absorber	■	■	13
3	Proximity sensor SME/SMT-8	Can be integrated in the cylinder profile barrel	Plain bearing guide	Plain bearing guide	14
4	Slot cover ABP-5-S	To protect the sensor cable and keep dirt out of the sensor slots	■	■	14
5	One-way flow control valve GRLA	To regulate speed	■	■	15
6	Push-in fitting QS	For connecting compressed air tubing with standard O.D.	■	■	quick star
-	Centring pin ZBS	4 pieces included in scope of delivery	■	-	15
-	Centring sleeve ZBH	4 pieces included in scope of delivery	-	■	15


# Slide units SPZ, twin piston

Technical data

Function



-  - Diameter  
10 ... 32 mm

-  - Stroke length  
10 ... 100 mm

-  - [www.festo.com/en/](http://www.festo.com/en/)  
Spare\_parts\_service

General technical data					
Piston $\varnothing$	10	16	20	25	32
Pneumatic connection	M5	M5	M5	M5	G1/8
Operating medium	Filtered compressed air, lubricated or unlubricated				
Operating pressure [bar]	2,5 ... 10		1 ... 10		
Constructional design	Slide				
	Parallel piston rods				
Cushioning	Flexible cushioning rings/plates at both ends				
Position sensing	For proximity sensing				
Type of mounting	Via through-holes				
	With female thread				
	With mounting plate				
Mounting position	Any				
Protection against torsion/guide	Parallel piston rods/with plain-bearing guide or ball bearing guide				

Ambient conditions		
Variant	Plain-bearing guide GF	Recirculating ball bearing guide KF
Ambient temperature <sup>1)</sup> [°C]	-20 ... +80	-20 ... +80
Corrosion resistance class CRC <sup>2)</sup>	2	-

1) Note operating range of proximity sensors.

2) 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.

Forces [N]					
Piston $\varnothing$	10	16	20	25	32
Theoretical force at 6 bar, advancing	60	180	282	452	724
Theoretical force at 6 bar, retracting	60	180	282	452	724

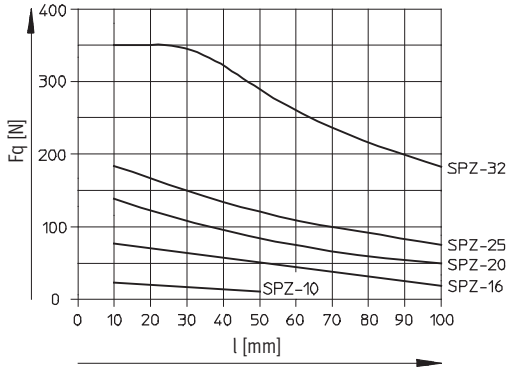
# Slide units SPZ, twin piston

Technical data

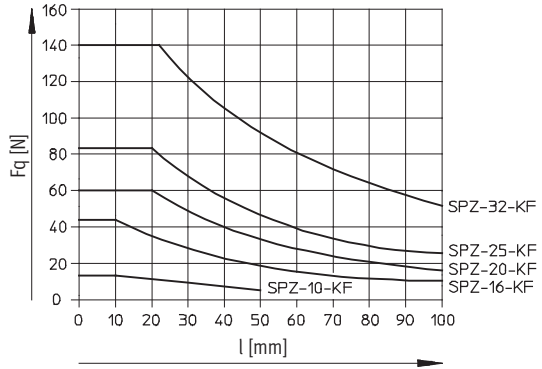
## Permissible lateral force $F_q$ as a function of stroke $l$



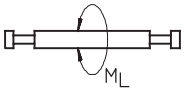
Plain-bearing guide GF



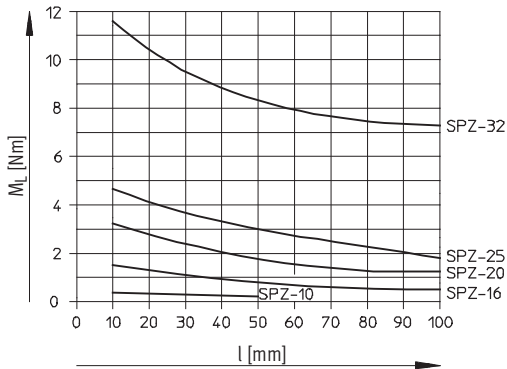
Recirculating ball bearing guide KF



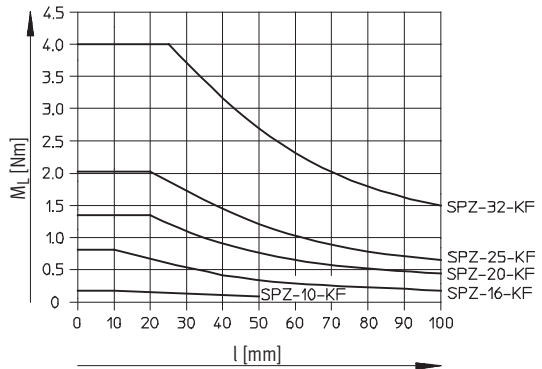
## Permissible torque $M_L$ as a function of stroke $l$



Plain-bearing guide GF



Recirculating ball bearing guide KF

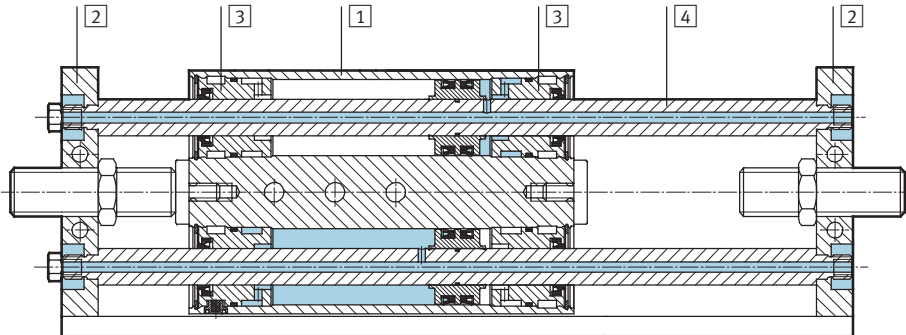


# Slide units SPZ, twin piston

Technical data

## Materials

Sectional view



Variant		Basic version	S6
1	Housing	Wrought aluminium alloy	Wrought aluminium alloy
2	Yoke plate	Tool steel	Tool steel
3	Plug cap	GF	Brass
		KF	Wrought aluminium alloy
4	Piston rod	GF	High-alloy stainless steel
		KF	Tempered steel
-	Seals	Polyurethane, nitrile rubber	Flurocarbon rubber, nitrile rubber

# Slide units SPZ, twin piston

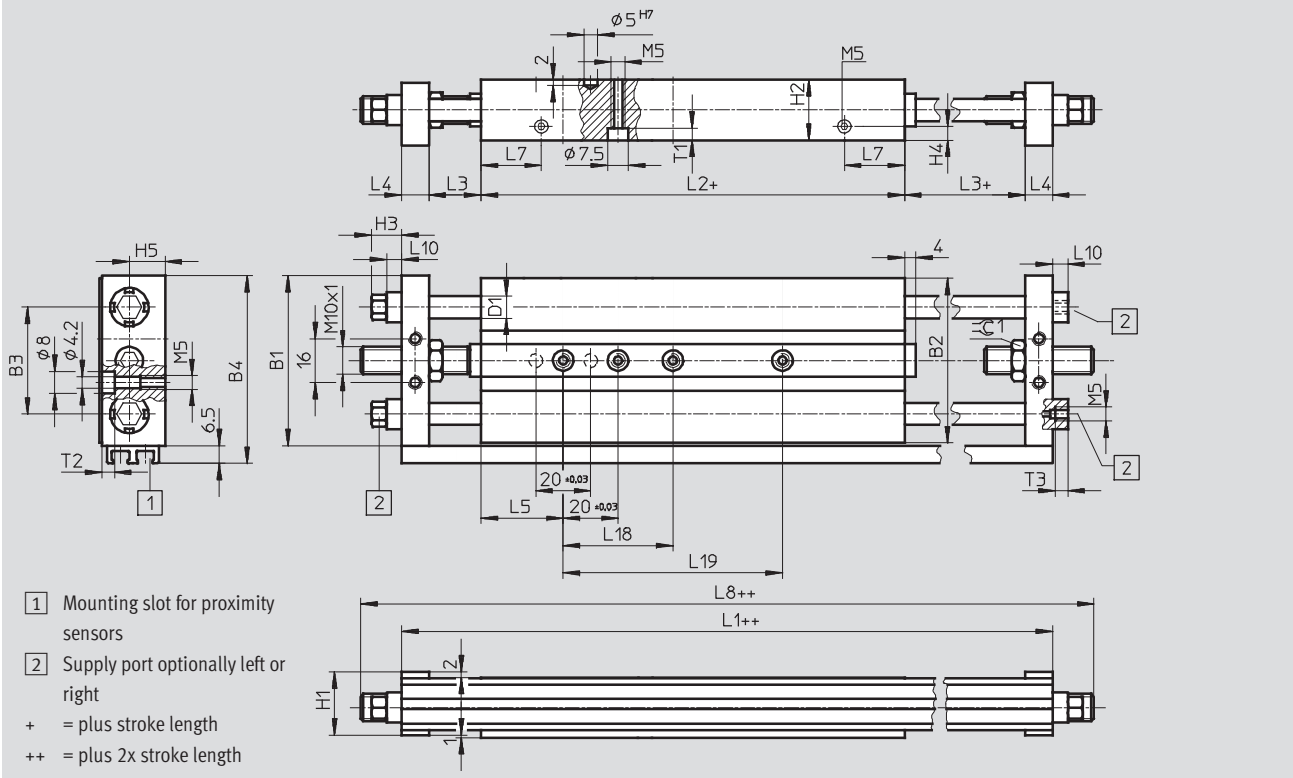
Technical data



## Dimensions

Download CAD Data → [www.festo.com/us/cad](http://www.festo.com/us/cad)

Piston  $\varnothing$  10, 16 mm, plain-bearing guide GF



$\varnothing$	B1	B2	B3	B4	D1	H1	H2	H3	H4	H5	L1
[mm]					$\varnothing$						
10	52	50	33	58.5	6	20	19	10	4.5	11.5	129.6
16	62	60	39	68.5	8	23	22	11	6	13	132.6

$\varnothing$	L2	L3	L4	L5	L7	L8	L10	T1	T2	T3	$\approx$ C1
[mm]											
10	71.6	19	10	30	23.4	159.6	4.5	4.4	3.4	5	13
16	74.6	19	10	30	22	162.6	5.5	4.4	4.6	4.5	13

Stroke	L18	L19
[mm]	$\pm 0.03$	$\pm 0.03$
10	-	-
25	-	-
40	40	-
50	40	-
80	40	80
100	40	80



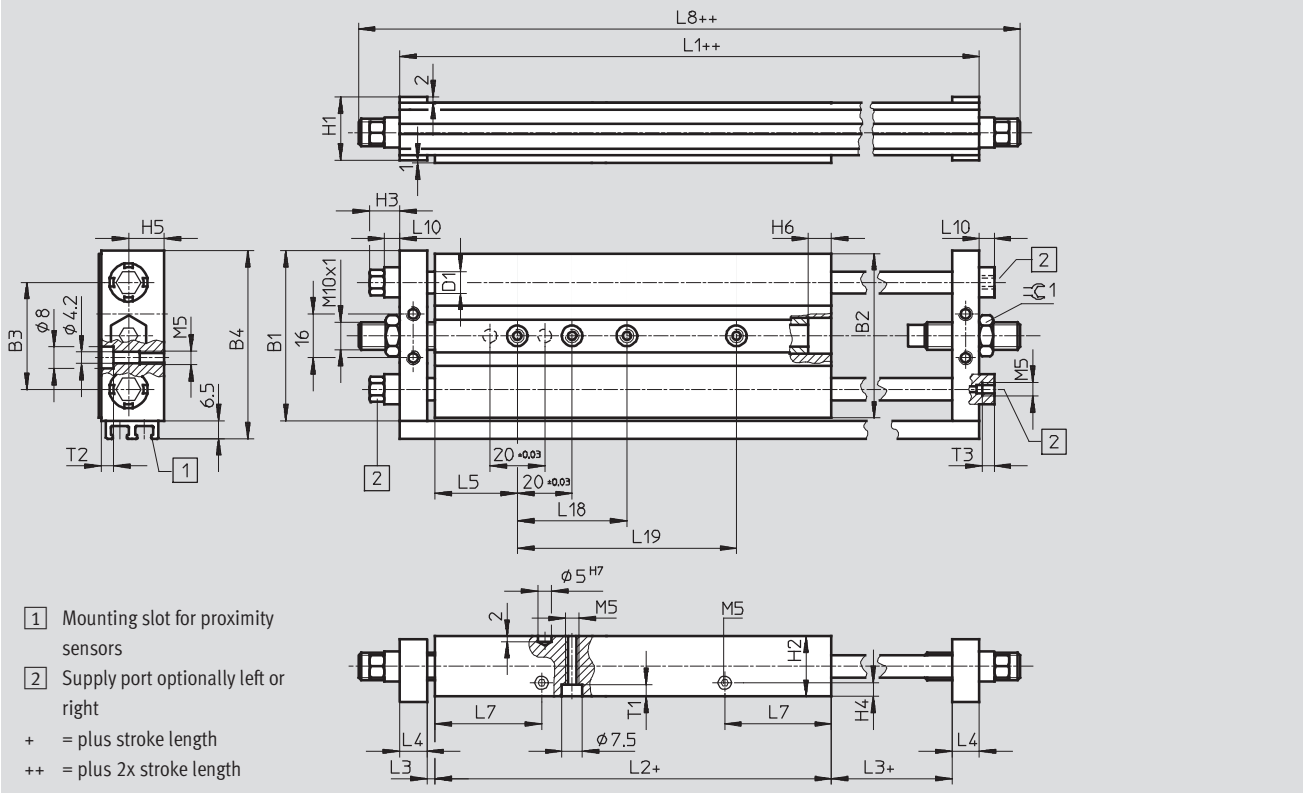
# Slide units SPZ, twin piston

Technical data

## Dimensions

Download CAD Data → [www.festo.com/us/cad](http://www.festo.com/us/cad)

Piston  $\varnothing$  10, 16 mm, recirculating ball bearing guide KF



$\varnothing$	B1	B2	B3	B4	D1 $\varnothing$	H1	H2	H3	H4	H5	H6	L1
[mm]												
10	52	50	33	58.5	6	20	19	10	5	11.5	7.5	129.6
16	62	60	39	68.5	8	23	22	11	5	13	7.5	132.6

$\varnothing$	L2	L3	L4	L5	L7	L8	L10	T1	T2	T3	$\approx C1$
[mm]											
10	107.6	1	10	30	40.7	159.6	4.5	4.4	3.4	5	13
16	106.6	3	10	30	38.9	158.6	5.5	4.4	4.6	4.5	13

Stroke [mm]	L18 $\pm 0.03$	L19 $\pm 0.03$
10	-	-
25	-	-
40	40	-
50	40	-
80	40	80
100	40	80

# Slide units SPZ, twin piston

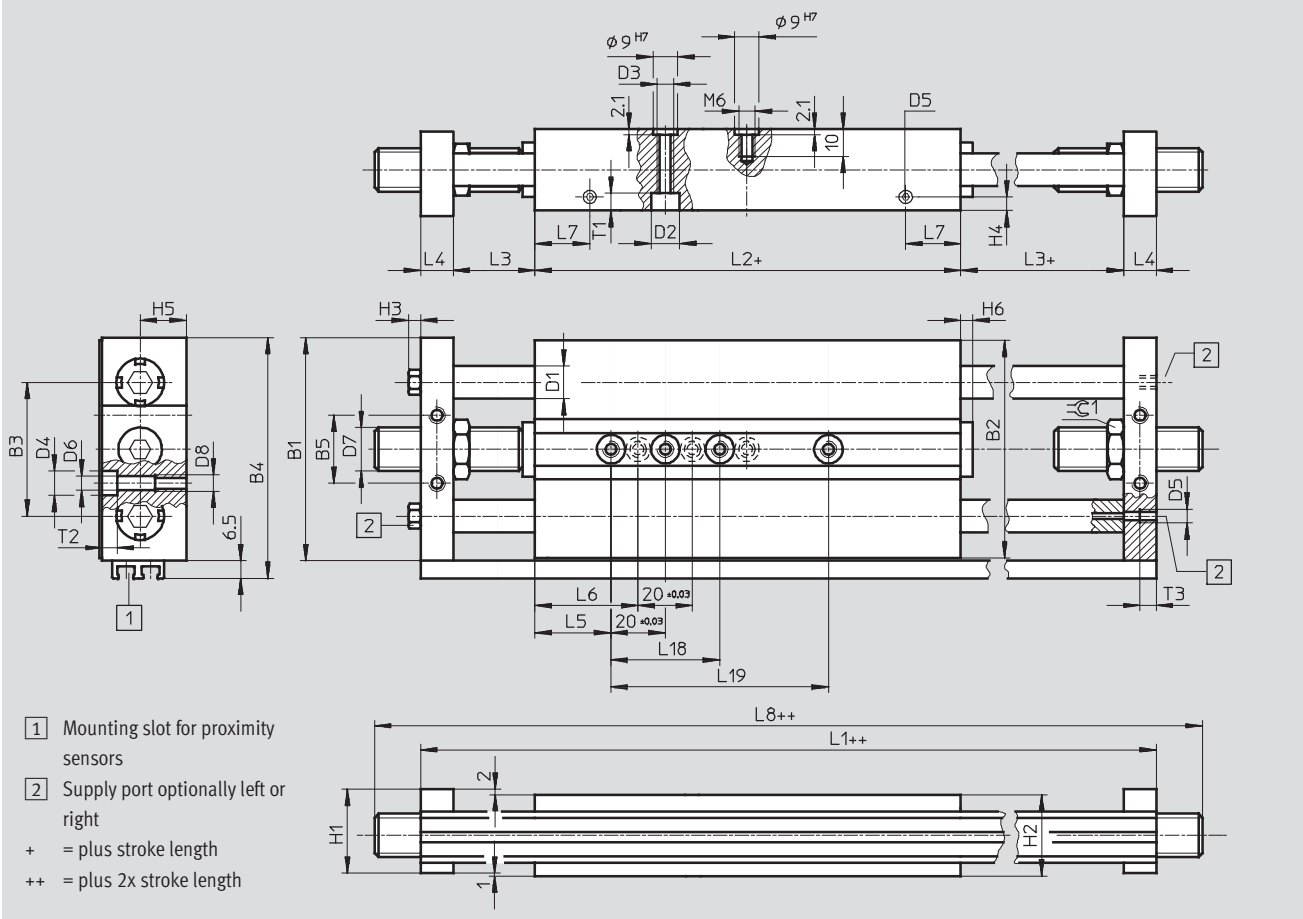
Technical data



## Dimensions

Download CAD Data → [www.festo.com/us/cad](http://www.festo.com/us/cad)

Piston  $\varnothing$  20, 25, 32 mm, plain-bearing guide GF



$\varnothing$	B1	B2	B3	B4	B5	D1	D2	D3	D4	D5	D6	D7	D8	H1	H2	H3
[mm]						$\varnothing$	$\varnothing$	$\varnothing$								
20	74	72	45.6	80.5	23	10	9	M6	9.5	M5	5.2	M12x1	M6	25	24	5
25	82	80	49.2	88.5	25	12	10.5	6.4	9.5	M5	5.2	M16x1	M6	31	30	5
32	100	98	57	106.5	24	16	10.5	6.4	10.5	G $\frac{1}{8}$	6.2	M16x1	M8	39	38	-

$\varnothing$	H4	H5	H6	L1	L2	L3	L4	L5	L6	L7	L8	T1	T2	T3	$\approx C1$
[mm]															
20	7	14	4	146.6	76.6	23	12	30	-	22.8	178.6	5.4	5	6	15
25	10	17	4.5	160.6	76.6	30	12	28	38	20.2	194.6	6.4	5	6	19
32	11.5	21	4.5	170.1	80.1	30	15	35	45	25	204.1	6.4	6.5	10	19

Stroke	L18	L19
[mm]	$\pm 0.03$	$\pm 0.03$
10	-	-
25	-	-
40	40	-
50	40	-
80	40	80
100	40	80

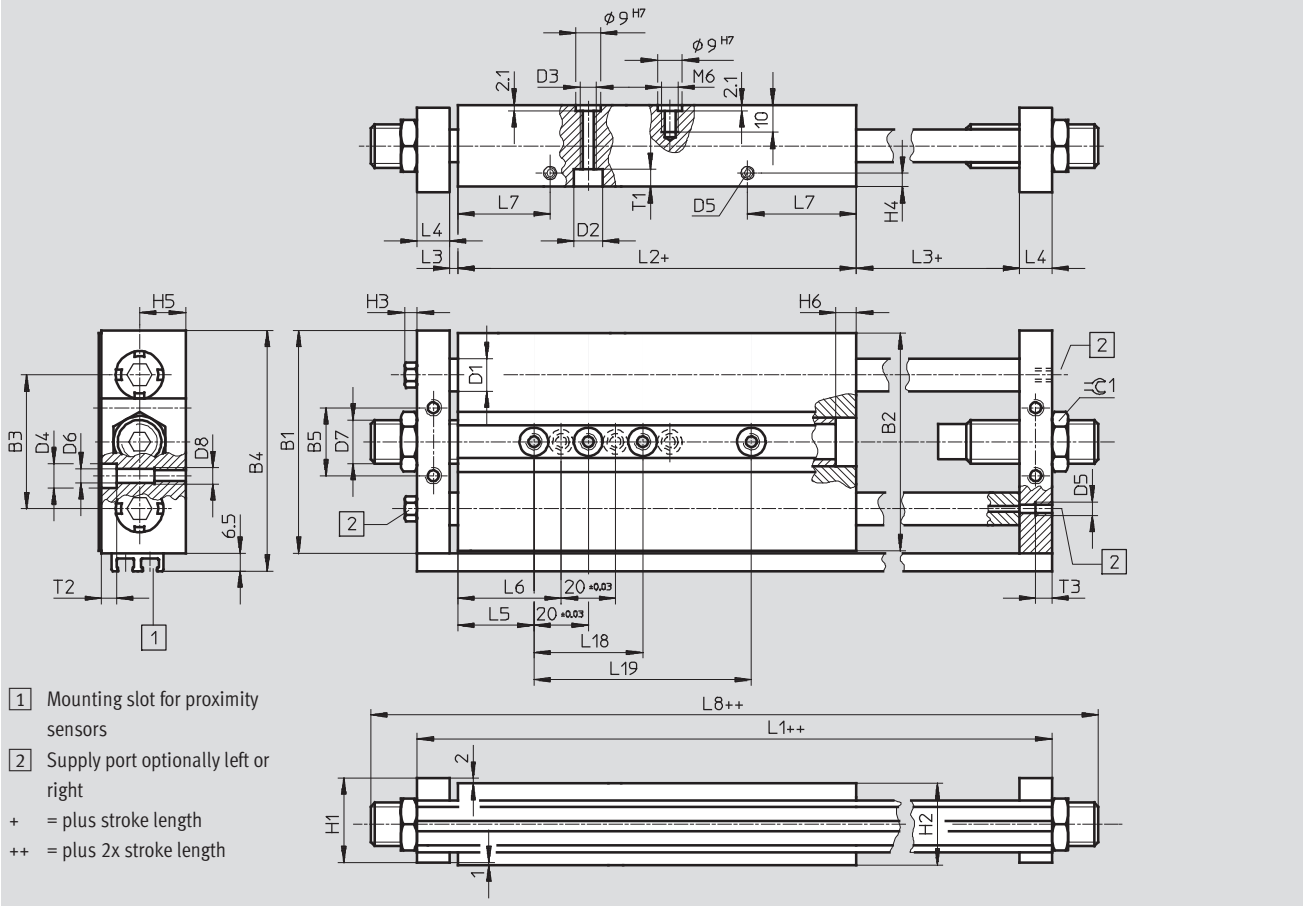
# Slide units SPZ, twin piston

Technical data

## Dimensions

Download CAD Data → [www.festo.com/us/cad](http://www.festo.com/us/cad)

Piston Ø 20, 25, 32 mm, recirculating ball bearing guide KF




Ø	B1	B2	B3	B4	B5	D1	D2	D3	D4	D5	D6	D7	D8	H1	H2	H3
[mm]						Ø	Ø	Ø								
20	74	72	45.6	80.5	23	10	9	M6	9.5	M5	5.2	M12x1	M6	25	24	5
25	82	80	49.2	88.5	25	12	10.5	6.4	9.5	M5	5.2	M16x1	M6	31	30	5
32	100	98	57	106.5	24	16	10.5	6.4	10.5	G1/8	6.2	M16x1	M8	39	38	-

Ø	H4	H5	H6	L1	L2	L3	L4	L5	L6	L7	L8	T1	T2	T3	⊖C1
[mm]															
20	5	14	6.5	146.6	120.6	1	12	30	-	43.4	184.6	5.4	5	6	15
25	5	17	7.5	160.6	130.6	3	12	28	38	40	202.6	6.4	5	6	19
32	7.5	21	7.5	170.1	134.1	3	15	35	45	44.9	206.1	6.4	6.5	10	19

Stroke	L18	L19
[mm]	±0.03	±0.03
10	-	-
25	-	-
40	40	-
50	40	-
80	40	80
100	40	80

# Slide units SPZ, twin piston

Technical data

Ordering data – Basic version						
Type	Piston Ø [mm]	Stroke [mm]	Plain-bearing guide GF		Recirculating ball bearing guide KF	
			Part No.	Type <sup>1)</sup>	Part No.	Type <sup>1)</sup>
	10	10	32 714	SPZ-10-10-P-A	162 166	SPZ-10-10-P-A-KF
		25	32 715	SPZ-10-25-P-A	162 167	SPZ-10-25-P-A-KF
		40	32 716	SPZ-10-40-P-A	162 168	SPZ-10-40-P-A-KF
		50	32 717	SPZ-10-50-P-A	162 169	SPZ-10-50-P-A-KF
	16	10	32 719	SPZ-16-10-P-A	162 171	SPZ-16-10-P-A-KF
		25	32 720	SPZ-16-25-P-A	162 172	SPZ-16-25-P-A-KF
		40	32 721	SPZ-16-40-P-A	162 173	SPZ-16-40-P-A-KF
		50	32 722	SPZ-16-50-P-A	162 174	SPZ-16-50-P-A-KF
		80	32 723	SPZ-16-80-P-A	162 175	SPZ-16-80-P-A-KF
		100	32 724	SPZ-16-100-P-A	162 176	SPZ-16-100-P-A-KF
	20	10	32 726	SPZ-20-10-P-A	162 178	SPZ-20-10-P-A-KF
		25	32 727	SPZ-20-25-P-A	162 179	SPZ-20-25-P-A-KF
		40	32 728	SPZ-20-40-P-A	162 180	SPZ-20-40-P-A-KF
		50	32 729	SPZ-20-50-P-A	162 181	SPZ-20-50-P-A-KF
		80	32 730	SPZ-20-80-P-A	162 182	SPZ-20-80-P-A-KF
		100	32 731	SPZ-20-100-P-A	162 183	SPZ-20-100-P-A-KF
	25	10	32 733	SPZ-25-10-P-A	162 185	SPZ-25-10-P-A-KF
		25	32 734	SPZ-25-25-P-A	162 186	SPZ-25-25-P-A-KF
		40	32 735	SPZ-25-40-P-A	162 187	SPZ-25-40-P-A-KF
		50	32 736	SPZ-25-50-P-A	162 188	SPZ-25-50-P-A-KF
		80	32 737	SPZ-25-80-P-A	162 189	SPZ-25-80-P-A-KF
		100	32 738	SPZ-25-100-P-A	162 190	SPZ-25-100-P-A-KF
	32	10	159 721	SPZ-32-10-P-A	162 192	SPZ-32-10-P-A-KF
		25	159 722	SPZ-32-25-P-A	162 193	SPZ-32-25-P-A-KF
		40	159 723	SPZ-32-40-P-A	162 194	SPZ-32-40-P-A-KF
		50	159 724	SPZ-32-50-P-A	162 195	SPZ-32-50-P-A-KF
		80	159 725	SPZ-32-80-P-A	162 196	SPZ-32-80-P-A-KF
		100	159 726	SPZ-32-100-P-A	162 197	SPZ-32-100-P-A-KF

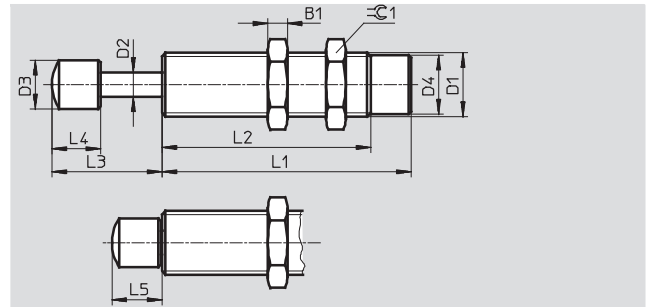
1) 4 centring pins or sleeves are included in the scope of delivery.

# Slide units SPZ, twin piston

Accessories

## Shock absorber YSR-C

Material:  
 YSR-7-5-C, YSR-8-8-C: Nickel-plated brass  
 YSR-12-12-C: Galvanised steel  
 Free of copper, PTFE and silicone

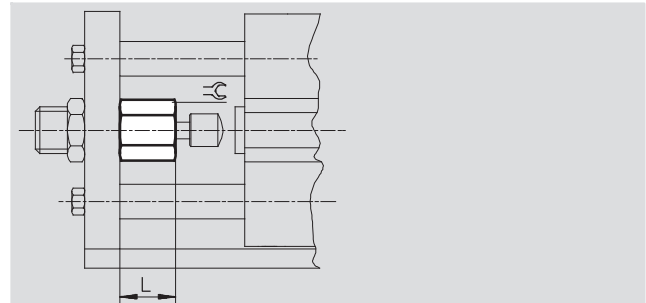


Dimensions and ordering data												Part No.	Type
For $\varnothing$	B1	D1	D2 $\varnothing$	D3 $\varnothing$	D4 $\varnothing$	L1 $\pm 0.1$	L2 $\pm 0.3$	L3 $+0.7/-0.35$	L4 $\pm 0.2$	L5 $+0.55/-0.25$	$\approx$		
[mm]													
10, 16	3.5	M10x1	3	6 $\pm 0.1$	8.6 $\pm 0.05$	34	23	12.3	7	7.3	13	<b>160 272</b>	<b>YSR-7-5-C</b>
20	4	M12x1	4	8 $\pm 0.2$	10.4 $\pm 0.1$	46	33	16.3	8	8.3	15	<b>34 571</b>	<b>YSR-8-8-C</b>
25, 32	5	M16x1	6	12 $\pm 0.2$	14.5 $\pm 0.1$	64	51	24.5	12	12.5	19	<b>34 572</b>	<b>YSR-12-12-C</b>

## Stop limiter YSRA

for use when shock absorbers are fitted  
 (not in the case of recirculating ball bearing guide)

Material:  
 Steel

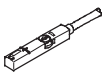

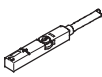


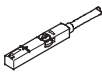


Dimensions and ordering data					
For $\varnothing$	L	$\approx$	For shock absorbers	Weight	Part No. Type
[mm]				[g]	
10, 16	15	13	YSR-7-5-C	12	<b>150 932</b> <b>YSRA-7-C</b>
20	19	15	YSR-8-8-C	28	<b>150 933</b> <b>YSRA-8-C</b>
25, 32	25.5	19	YSR-12-12-C	48	<b>150 934</b> <b>YSRA-12-C</b>



# Slide units SPZ, twin piston

Accessories

**FESTO**

Ordering data – Proximity sensors for T-slot, magneto-resistive						Technical data → Internet: smt
	Type of mounting	Switch output	Electrical connection	Cable length [m]	Part No.	Type
<b>N/O contact</b>						
	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
			Plug M12x1, 3-pin	0.3	543 872	SMT-8M-NS-24V-K-0,3-M12
	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
<b>N/C contact</b>						
	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 → Internet: sme
	Type of mounting	Switch output	Electrical connection	Cable length [m]	Part No.	Type
<b>N/O contact</b>						
	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	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
<b>N/C contact</b>						
	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 → Internet: 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
	Straight socket, M12x1, 5-pin	Cable, open end, 3-wire	2.5	541 363	NEBU-M12G5-K-2.5-LE3
			5	541 364	NEBU-M12G5-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
	Angled socket, M12x1, 5-pin	Cable, open end, 3-wire	2.5	541 367	NEBU-M12W5-K-2.5-LE3
			5	541 370	NEBU-M12W5-K-5-LE3



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

# Slide units SPZ, twin piston

Accessories



Ordering data – One-way flow control valves				Technical data → Internet: grla	
	Connection		Material	Part No.	Type
	Thread	For tubing O.D.			
	M5	3	Metal design	<b>193 137</b>	<b>GRLA-M5-QS-3-D</b>
		4		<b>193 138</b>	<b>GRLA-M5-QS-4-D</b>
		6		<b>193 139</b>	<b>GRLA-M5-QS-6-D</b>
	G $\frac{1}{8}$	3		<b>193 142</b>	<b>GRLA-<math>\frac{1}{8}</math>-QS-3-D</b>
		4		<b>193 143</b>	<b>GRLA-<math>\frac{1}{8}</math>-QS-4-D</b>
		6		<b>193 144</b>	<b>GRLA-<math>\frac{1}{8}</math>-QS-6-D</b>
		8		<b>193 145</b>	<b>GRLA-<math>\frac{1}{8}</math>-QS-8-D</b>

Ordering data – Accessories				Technical data → Internet: zbs	
	For dia. [mm]	Material	Part No.	Type	PE <sup>1)</sup>
Centring pin ZBS					
	10, 16	Stainless steel Free of copper, PTFE and silicone	<b>150 928</b>	<b>ZBS-5</b>	10
Centring sleeve ZBH					
	20, 25, 30	Stainless steel Free of copper, PTFE and silicone	<b>150 927</b>	<b>ZBH-9</b>	10

1) Packaging unit quantity

# Product Range and Company Overview

## A Complete Suite of Automation Services

Our experienced engineers provide complete support at every stage of your development process, including: conceptualization, analysis, engineering, design, assembly, documentation, validation, and production.



**Custom Automation Components**  
Complete custom engineered solutions



**Custom Control Cabinets**  
Comprehensive engineering support and on-site services



**Complete Systems**  
Shipment, stocking and storage services

## The Broadest Range of Automation Components

With a comprehensive line of more than 30,000 automation components, Festo is capable of solving the most complex automation requirements.



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Electromechanical actuators, motors, controllers & drives



**Pneumatics**  
Pneumatic linear and rotary actuators, valves, and air supply



**PLCs and I/O Devices**  
PLC's, operator interfaces, sensors and I/O devices

## Supporting Advanced Automation... As No One Else Can!

Festo is a leading global manufacturer of pneumatic and electromechanical systems, components and controls for industrial automation, with more than 12,000 employees in 56 national headquarters serving more than 180 countries. For more than 80 years, Festo has continuously elevated the state of manufacturing with innovations and optimized motion control solutions that deliver higher performing, more profitable automated manufacturing and processing equipment. Our dedication to the advancement of automation extends beyond technology to the education and development of current and future automation and robotics designers with simulation tools, teaching programs, and on-site services.

## Quality Assurance, ISO 9001 and ISO 14001 Certifications

Festo Corporation is committed to supply all Festo products and services that will meet or exceed our customers' requirements in product quality, delivery, customer service and satisfaction.

To meet this commitment, we strive to ensure a consistent, integrated, and systematic approach to management that will meet or exceed the requirements of the ISO 9001 standard for Quality Management and the ISO 14001 standard for Environmental Management.



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