R480644586

- Ideal for simple assembly and clamping movements, tight installation space, and short strokes
- Mount on moving machine parts possible thanks to their low weight
- Intelligent connection concept
- Available in piston diameters from 12 mm to 100 mm
- Available as piston rod, single or doubleacting cylinders, with a hollow piston rod, as a non-rotating version with a front plate, or an especially short version without a magnet

AVENTICS Series SSI Short-stroke cylinders (ISO 15524)

The AVENTICS Series SSI are short stroke cylinders in accordance with the latest ISO standard 15524. The cylinders are compact and up to 30% lighter than comparable cylinders thanks to weight optimized profiles. In addition, they provide a high degree of flexibility in sensor assembly and extremely effective elastic cushioning.





Technical data

 Industry
 Industrial

 Standards
 ISO 15524

 Piston Ø
 40 mm

 Stroke
 100 mm

 Ports
 G 1/8

Functional principle Double-acting
Cushioning Elastic cushioning
Magnetic piston Piston with magnet
Environmental requirements Industry standard

Piston rod thread - type

Piston rod: internal thread
non-rotating, with front plate
Scraper

Standard Industry Scraper

Pressure for determining piston forces 6,3 bar
Retracting piston force 665 N
Extracting piston force 792 N
Min. ambient temperature -20 °C
Max. ambient temperature 80 °C
Min. working pressure 0.6 bar
Max. working pressure 10 bar

Series SSI 2024-08-09

Impact energy	0.24 J
Weight 0 mm stroke	0.334 kg
Weight +10 mm stroke	0.045 kg
Stroke max.	150 mm
Medium	Compressed air
Min. medium temperature	-20 °C
Max. medium temperature	80 °C
Max. particle size	50 μm
Min. oil content of compressed air	0 mg/m³
Max. oil content of compressed air	5 mg/m³

Material

Piston rod Stainless Steel Scraper material Polyurethane Seal material Polyurethane Material, front cover Aluminum Cylinder tube Aluminum End cover Aluminum Front plate Aluminum Guide rod Stainless Steel Part No. R480644586

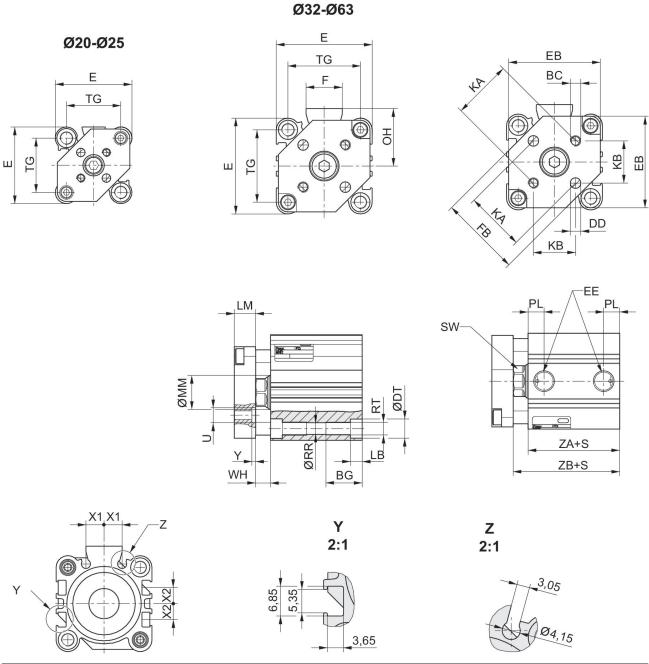
Technical information

The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

The oil content of compressed air must remain constant during the life cycle.

Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).

R480644586 Dimensions



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Piston Ø	ВС	BG	ØDD H13	ØDT	Е	EB	EE	F	FB
20	M4	16	4	9	36	34	M5	-	26
25	M5	16	5	9	40	38	M5	-	30
32	M5	16	5	9	45	43	G 1/8	17	38
40	M5	16	5	9	52	50	G 1/8	17	46
50	M6	20	6	11	64	62	G 1/4	21	58
63	M6	25	6	14	77	74	G 1/4	21	69

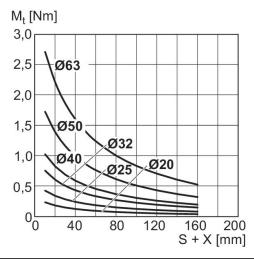
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Piston Ø	KA	КВ	LB max.	LM	ØMM f8	ОН	PL	ØRR	RT
20	17 ±0,1	12 ±0,1	5,5	8	10	-	5,5	5,55	M6
25	22 ±0,1	15,6 ±0,1	5,5	8	12	-	5,5	5,55	M6
32	28 ±0,2	19,8 ±0,2	5,5	10	16	27	7,5	5,55	M6
40	33 ±0,2	23,3 ±0,2	5,5	10	16	31	7,5	5,55	M6
50	42 ±0,2	29,7 ±0,2	8	12	20	39	10,5	7,4	M8
63	50 ±0,2	35,4 ±0,2	10,5	12	20	45,5	10,5	9,3	M10

Piston Ø	SW	TG	WH	X1	X2	ZA±0,2	ZB±2
20	8	25,5 ±0,3	4,5 ±1,5	5,7	4,3	29,5	34
25	10	28 ±0,3	5 ±1,5	6	5	32,5	37,5
32	13	34 ±0,3	7 ±2	8,5	7,5	33	40
40	13	40 ±0,3	7 ±2	10,8	11	39,5	46,5
50	17	50 ±0,5	8 ±2	14	13	40,5	48,5
63	17	60 ±0,5	8 ±2	17	17	46	54

Max. permissible torque, Dynamic



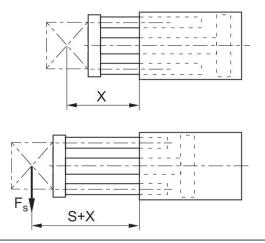
X = distance between force application point and cylinder cover

M = max. permissible torque

S = stroke

AVENTICS

Maximum admissible lateral force dynamic



X = distance between force application point and cylinder cover

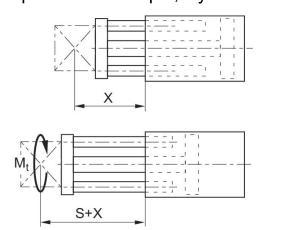
FS = lateral force

S = stroke

Series SSI 2024-08-09

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Max. permissible torque, Dynamic

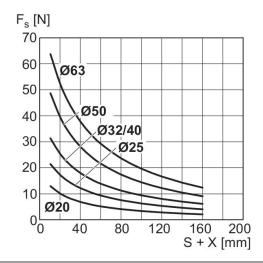


X = distance between force application point and cylinder cover

M = max. permissible torque

S = stroke

Maximum admissible lateral force dynamic



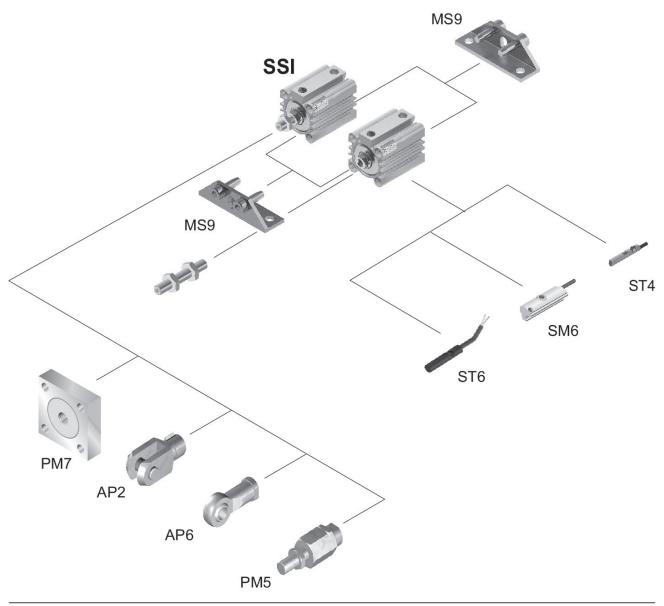
X = distance between force application point and cylinder cover

FS = lateral force

S = stroke

Series SSI 2024-08-09

R480644586 Overview drawing



Use our Internet configurator to order variants with an external thread.

NOTE: This overview drawing is only for orientation to indicate where the various accessory parts can be fastened to the cylinder. The illustration has been simplified for this purpose. It is thus not possible to derive the dimensions from this overview.