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Short-stroke cylinder, Series SSI, Double-acting, with magnetic piston, non-rotating R480637972

Series SSI 2024-08-09

- 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

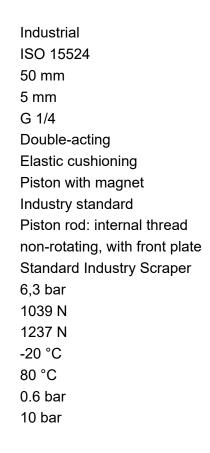
Technical data

Industry

- 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.







Standards Piston Ø Stroke Ports Functional principle Cushioning Magnetic piston **Environmental requirements** Piston rod thread - type Piston rod Scraper Pressure for determining piston forces Retracting piston force Extracting piston force Min. ambient temperature Max. ambient temperature Min. working pressure Max. working pressure



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R480637972 Impact energy	0.32 J
Weight 0 mm stroke	0.547 kg
Weight +10 mm stroke	0.07 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.	R480637972

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.

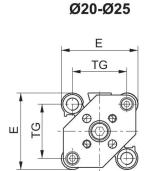
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).

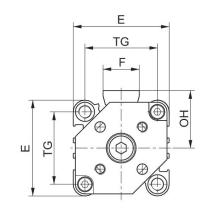


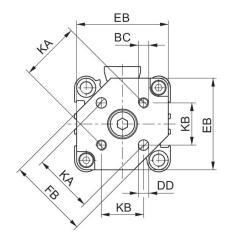
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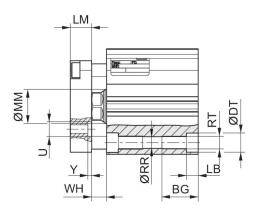
R480637972 Dimensions

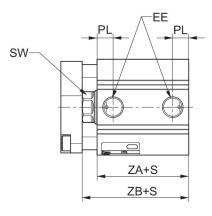
Ø32-Ø63

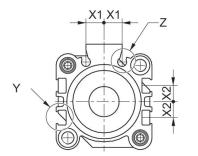


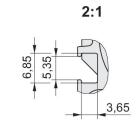












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S = stroke

Piston Ø	BC	BG	ØDD H13	ØDT	E	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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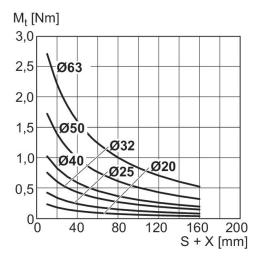
Series SSI 2024-08-09

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Piston Ø	KA	KB	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

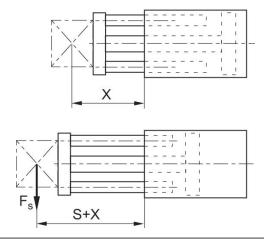


X = distance between force application point and cylinder cover

M = max. permissible torque

S = stroke

Maximum admissible lateral force dynamic



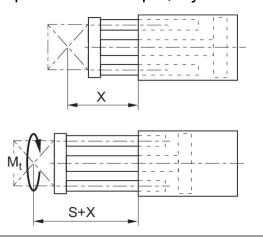
X = distance between force application point and cylinder cover FS = lateral force S = stroke



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Max. permissible torque, Dynamic



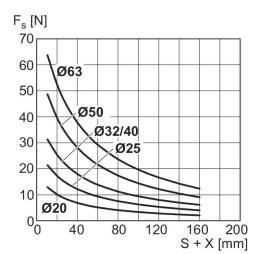
X = distance between force application point and cylinder cover

M = max. permissible torque

S = stroke

Maximum admissible lateral force

dynamic



 ${\sf X}$ = distance between force application point and cylinder cover ${\sf FS}$ = lateral force

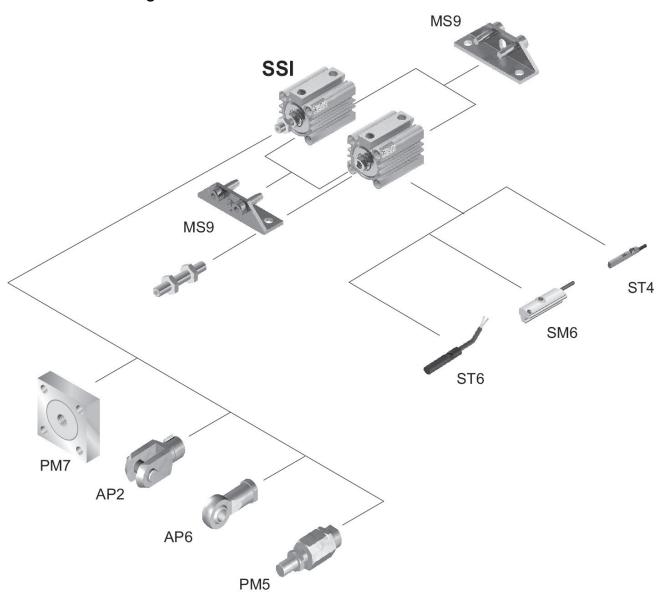
S = stroke

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R480637972 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.

