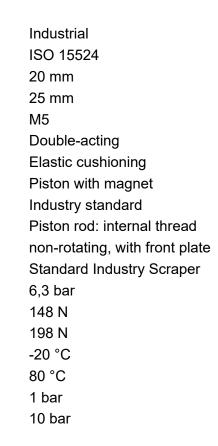
- · Ideal for simple assembly and clamping movements, tight installation space, and short strokes
- Mount on moving machine parts possible thanks to their low weight
- Intelligent connection concept
- · Available in piston diameters from 12 mm to 100 mm
- · Available as piston rod, single or doubleacting 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 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



1



Series SSI 2024-08-09

R480637944 Impact energy	0.08 J
Weight 0 mm stroke	0.101 kg
Weight +10 mm stroke	0.021 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	Nitrile butadiene rubber
Seal material	Nitrile butadiene rubber
Material, front cover	Brass
Cylinder tube	Aluminum
End cover	Aluminum
Front plate	Aluminum
Guide rod	Stainless Steel
Part No.	R480637944

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.

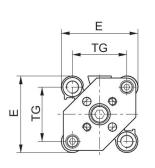
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).

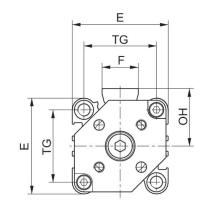


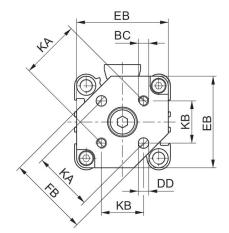
R480637944 Dimensions

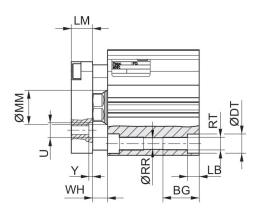
Ø32-Ø63

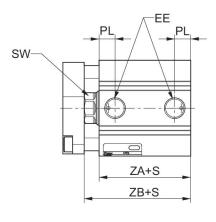


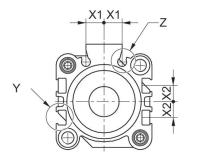


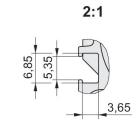












Υ





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



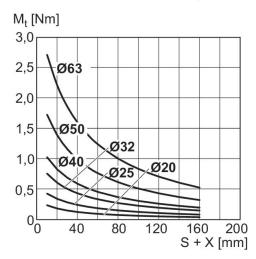
Series SSI 2024-08-09

R480637944

	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

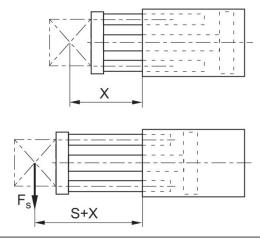


X = distance between force application point and cylinder cover

M = max. permissible torque

S = stroke

Maximum admissible lateral force dynamic

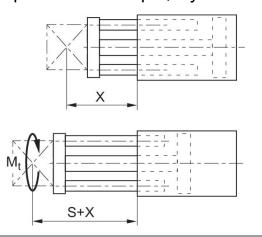


X = distance between force application point and cylinder cover FS = lateral force S = stroke



R480637944

Max. permissible torque, Dynamic



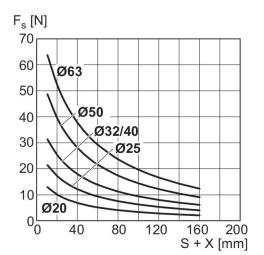
X = distance between force application point and cylinder cover

M = max. permissible torque

S = stroke

Maximum admissible lateral force

dynamic



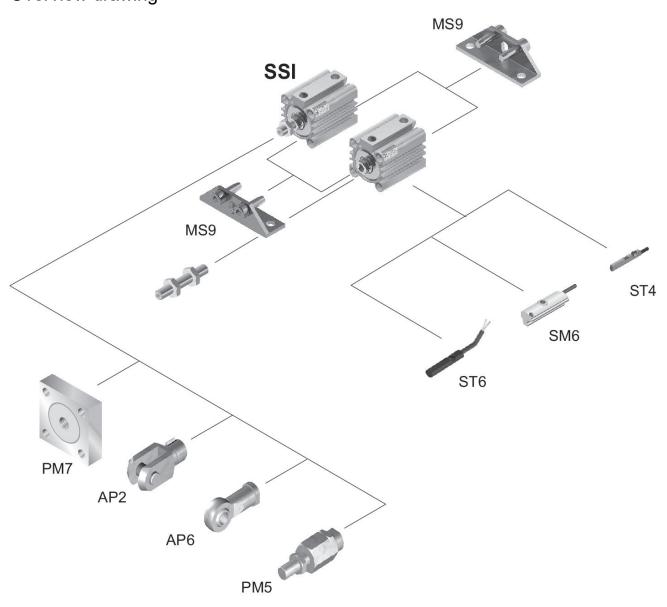
 ${\sf X}$ = distance between force application point and cylinder cover ${\sf FS}$ = lateral force

S = stroke

Series SSI 2024-08-09

Series SSI 2024-08-09

R480637944 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.

