

AVENTICS Series CCL-IS Standard cylinders (ISO 15552)

The AVENTICS Series CCL-IS (ISO 15552) cylinder in clean design is produced specifically for packaging applications in the food industry. It is characterized by practical sensor mountings and its clean design combines efficient, simple cleaning with low maintenance cycles.

- Easy to clean anodized surfaces
- Scrapers and lubricants (NSF-H1) are approved for food applications
- Hygienic protective caps for unused mounting holes
- Available in eight sizes covering piston diameters from 25 mm to 125 mm
- Selection from elastic or pneumatic cushioning possible
- Option to configure the air connections for supply and exhaust on rear cover, which increases flexibility when designing the system's tubing concept



Technical data

Industry	Industrial
Standards	ISO 15552
Type	with front lube unit for constant lubrication of the piston rod
Piston Ø	32 mm
Stroke	500 mm
Ports	G 1/8
Functional principle	Double-acting
Cushioning	Pneumatic adjustable cushioning
Magnetic piston	Piston with magnet
Environmental requirements	Industry standard suitable for use in food processing High corrosion
Piston rod thread - type	External thread
Piston rod thread	M10x1,25
Piston rod	single
Cylinder special features	Front Lube Unit
Scraper	Front Lube Unit
Pressure for determining piston forces	6,3 bar
Retracting piston force	435 N

Extracting piston force	507 N
Min. ambient temperature	-20 °C
Max. ambient temperature	80 °C
Min. working pressure	1.5 bar
Max. working pressure	10 bar
Cushioning length	16.5 mm
Cushioning energy	4.8 J
Weight 0 mm stroke	0.66 kg
Weight +10 mm stroke	0.036 kg
Stroke max.	1600 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/m ³
Max. oil content of compressed air	5 mg/m ³

Material

Piston rod	Stainless Steel
Scraper material	Polyester
Material tie-rod	Stainless Steel
Material, front cover	Aluminum
Cylinder tube	Aluminum
End cover	Aluminum
Part No.	R481609721

Technical information

Further options can be generated in the Internet configurator.

The following operating instructions can be found in the Media Center: R412019487

To maximize service life of the lube unit, refill the grease manually at recommended intervals.

Normal ambient conditions: 2x/year

Weekly cleaning of cylinder/system: 1x/month

Daily cleaning of cylinder/system: 1x/week

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

Dimensions

Standard cylinders ISO 15552, series CCL-IS

R481609721

Series CCL-
IS

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Piston Ø	B3	Ø DU	LU	L2	SW3	WH
32	6	27.5	29.25	16.25	24	26 ±1.4
40	20	34	31.25	18.25	30	30 ±1.4
50	20	38.5	38	25	36	37 ±1.4
63	20	38.5	38	25	36	37 ±1.8
80	21	44	46	33	41	46 ±1.8
100	21	44	49	36	41	51 ±1.8
125	23	57	58	45	50	65 ± 2.2

Overview drawing



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.

Possible lube nipple positions



3 positions offset by 120° each.