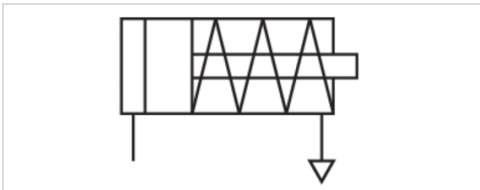


Mini cylinder, Series MNI

- ISO 6432
- Ø 10-25 mm
- Ports M5 G 1/8
- Single-acting, retracted without pressure
- Cushioning elastic
- with integrated rear eye
- Piston rod External thread



Standards	ISO 6432
Compressed air connection	Internal thread
Working pressure min./max.	2 ... 10 bar
Ambient temperature min./max.	-25 ... 80 °C
Medium temperature min./max.	-25 ... 80 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m ³
Pressure for determining piston forces	6.3 bar
Weight	See table below



Technical data

	10 mm	12 mm	16 mm	20 mm	25 mm
Piston Ø	10 mm	12 mm	16 mm	20 mm	25 mm
Piston rod thread	M4	M6	M6	M8	M10x1,25
Ports	M5	M5	M5	G 1/8	G 1/8
Piston rod Ø	4 mm	6 mm	6 mm	8 mm	10 mm
Cylinder outer thread	M12x1,25	M16x1,5	M16x1,5	M22x1,5	M22x1,5
Stroke 10	0822430201	0822431201	0822432201	0822433201	0822434201
25	0822430202	0822431202	0822432202	0822433202	0822434202
40	0822430203	0822431209	0822432204	0822433204	0822434207
50	-	0822431203	0822432203	0822433203	0822434203

Technical data

	10 mm	12 mm	16 mm	20 mm
Piston Ø	10 mm	12 mm	16 mm	20 mm
Extracting piston force	41 N	60,2 N	102,2 N	174,6 N
Spring force min. - max.	5,2 ... 8,4 N	6,7 ... 11 N	14,2 ... 24,4 N	12,8 ... 23,4 N
Impact energy	0,04 J	0,07 J	0,14 J	0,23 J
Weight 0 mm stroke	0,03 kg	0,06 kg	0,075 kg	0,14 kg
Weight +10 mm stroke	0,005 kg	0,006 kg	0,007 kg	0,016 kg

Piston Ø	10 mm	12 mm	16 mm	20 mm
Stroke max.	40 mm	50 mm	50 mm	50 mm

Piston Ø	25 mm
Extracting piston force	279,6 N
Spring force min. - max.	19,2 ... 29,4 N
Impact energy	0,35 J
Weight 0 mm stroke	0,23 kg
Weight +10 mm stroke	0,024 kg
Stroke max.	50 mm

Technical information

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

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

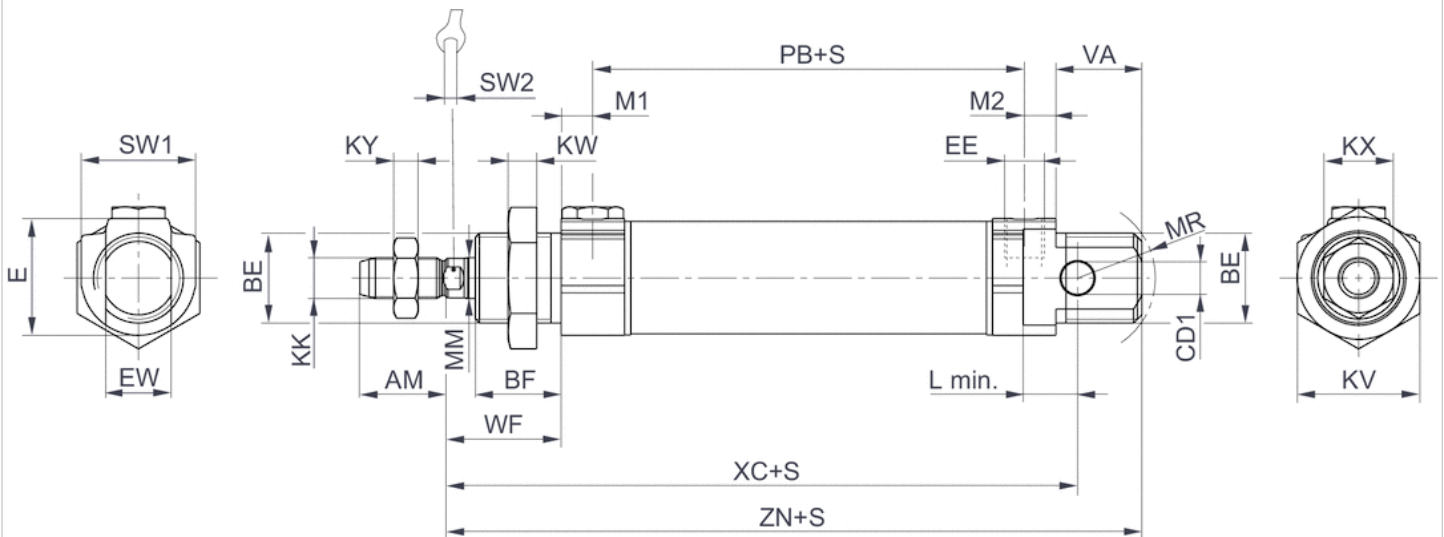
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Material	
Cylinder tube	Stainless steel
Piston rod	Stainless steel
Piston	Brass, Aluminum
Front cover	Aluminum, anodized
End cover	Aluminum, anodized
Seal	Acrylonitrile butadiene rubber Polyurethane
Nut for cylinder mounting	Steel, galvanized
Nut for piston rod	Steel, galvanized
Scraper	Polyurethane

Dimensions

Dimensions



S = stroke
X = vent screw

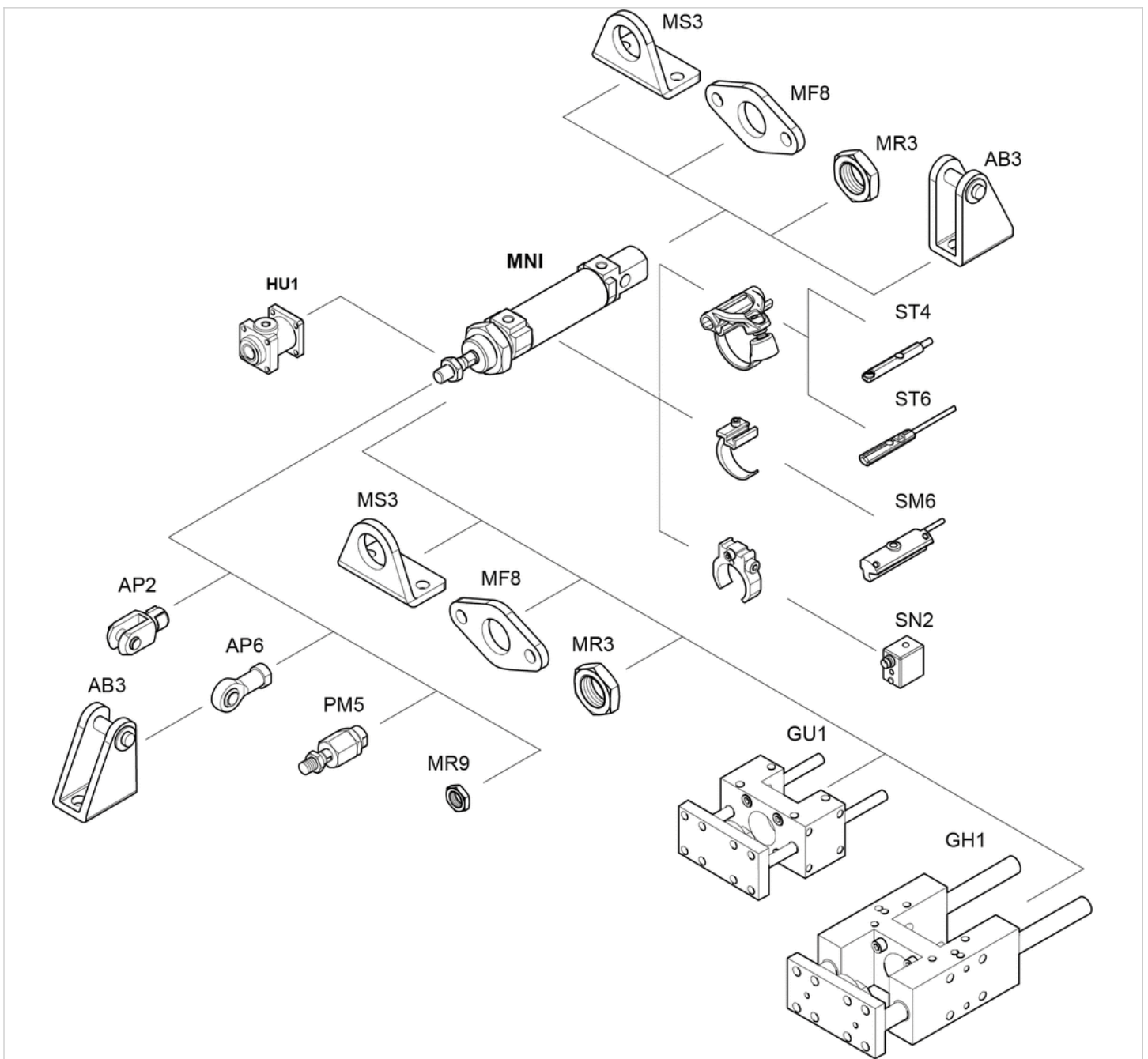
Dimensions

Piston Ø	AM-2	BE	BF	CD1 H9	E	EE t = depth of thread	EW d13	KK	KV	KW
10 mm	12	M12x1,25	11	4	14	M5 t=5	8	M4	17	5.5
12 mm	16	M16x1,5	16	6	19	M5 t=5	12	M6	22	6
16 mm	16	M16x1,5	16	6	19	M5 t=5	12	M6	22	6
20 mm	20	M22x1,5	18	8	28	G1/8 t=8	16	M8	30	7
25 mm	22	M22x1,5	21	8	28	G1/8 t=8	16	M10x1,25	30	7

Piston Ø	KX	KY	L min	MM f8	M1/M2	MR	PB ±1	VA	WF ±1,4	XC ±1	ZN ± 1,4	SW 1	SW 2
10 mm	7	2.2	6	4	4.8	12	37	11	16	64	73.5	13	3
12 mm	10	3.2	8	6	4.8	16	41	16	22	75	88.5	19	5
16 mm	10	3.2	8	6	4.8	16	47	17	22	82	95.5	19	5
20 mm	13	4	12	8	7	18	51	19	24	95	109.5	28	6
25 mm	17	6	12	10	7	19	55	21	28	104	119.5	28	8

Accessories overview

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.

Efficient pneumatic solutions, our program: cylinders and drives, valves and valve systems, air supply management



Visit us: [Emerson.com/Aventics](https://www.emerson.com/Aventics)

Your local contact: [Emerson.com/contactus](https://www.emerson.com/contactus)



[Emerson.com](https://www.emerson.com)



[Facebook.com/EmersonAutomationSolutions](https://www.facebook.com/EmersonAutomationSolutions)



[LinkedIn.com/company/Emerson-Automation-Solutions](https://www.linkedin.com/company/Emerson-Automation-Solutions)



[Twitter.com/EMR_Automation](https://twitter.com/EMR_Automation)

An example configuration is depicted on the title page. The delivered product may thus vary from that in the illustration. Subject to change. This Document, as well as the data, specifications and other information set forth in it, are the exclusive property of AVENTICS GmbH. It may not be reproduced or given to third parties without its consent. Only use the AVENTICS products shown in industrial applications. Read the product documentation completely and carefully before using the product. Observe the applicable regulations and laws of the respective country. When integrating the product into applications, note the system manufacturer's specifications for safe use of the product. The data specified only serve to describe the product. No statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgement and verification. It must be remembered that the products are subject to a natural process of wear and aging.

The Emerson logo is a trademark and service mark of Emerson Electric Co. Brand logotype are registered trademarks of one of the Emerson family of companies. All other marks are the property of their respective owners. © 2020 Emerson Electric Co. All rights reserved.
2020-12



CONSIDER IT SOLVED™