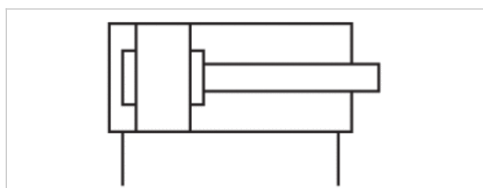


Mini cylinder, Series ICM

- Ø 8-32 mm
- Ports M5 G 1/8
- double-acting
- Cushioning elastic
- corrosion-resistant
- with integrated rear eye
- Piston rod External thread
- suitable for use in food processing



Compressed air connection	Internal thread
Ambient temperature min./max.	-20 ... 70 °C
Medium temperature min./max.	-20 ... 70 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³
Pressure for determining piston forces	6.3 bar

Technical data

Piston Ø Piston rod thread Ports	8 mm M4 M5	10 mm M4 M5	12 mm M6 M5	16 mm M6 M5	20 mm M8 G 1/8	25 mm M10x1,25 G 1/8
Stroke 12	1320801000	1321001000	1321201000	1321601000	1322001000	1322501000
15	-	-	-	R404056204	R402001534	R404052262
20	-	-	-	R402001217	R402001222	R404062718
25	1320802000	1321002000	1321202000	1321602000	1322002000	1322502000
30	-	-	-	R404050535	R404050958	R404050434
35	-	-	-	R402001399	R402001018	R404009112
40	-	R412019436	-	R404051299	R404051300	R404050929
50	1320805000	1321005000	1321205000	1321605000	1322005000	1322505000
60	-	-	R404069622	R404050901	R402001220	R402001223
70	-	-	-	R404052041	-	R404055008
80	1320808000	1321008000	1321208000	1321608000	1322008000	1322508000
100	-	-	1321210000	1321610000	1322010000	1322510000
125	-	-	-	R404052590	1322012000	1322512000
160	-	-	-	-	1322016000	1322516000
200	-	-	-	R404050903	R402001221	R402001225

Piston Ø Piston rod thread Ports	8 mm M4 M5	10 mm M4 M5	12 mm M6 M5	16 mm M6 M5	20 mm M8 G 1/8	25 mm M10x1,25 G 1/8
250	-	-	-	-	-	R404050418
300	-	-	-	-	R404008665	R404058499
320	-	-	-	-	-	R404008358
400	-	-	-	-	-	R404050620

Piston Ø Piston rod thread Ports	32 mm M10x1,25 G 1/8
Stroke 12	R404059486
15	R402001401
20	R404051563
25	1323202000
30	R404052299
35	R402001229
40	R404062567
50	1323205000
60	-
70	-
80	1323208000
100	1323210000
125	1323212000
160	1323216000
200	1323220000
250	R402001226
300	R404009040
320	R404058773
400	-

Technical data

Piston Ø	8 mm	10 mm	12 mm	16 mm
Retracting piston force	24 N	42 N	53 N	109 N
Extracting piston force	32 N	49 N	71 N	127 N
Weight 0 mm stroke	0,025 kg	0,035 kg	0,048 kg	0,054 kg
Weight +10 mm stroke	0,003 kg	0,004 kg	0,005 kg	0,005 kg
Working pressure min./max.	2 ... 10 bar	1,5 ... 10 bar	1,5 ... 10 bar	2 ... 10 bar
Stroke max.	80 mm	80 mm	100 mm	200 mm

Piston Ø	20 mm	25 mm	32 mm
Retracting piston force	166 N	260 N	435 N
Extracting piston force	198 N	309 N	506 N
Weight 0 mm stroke	0,08 kg	0,1 kg	0,26 kg
Weight +10 mm stroke	0,01 kg	0,014 kg	0,022 kg
Working pressure min./max.	2 ... 10 bar	2 ... 10 bar	2 ... 10 bar
Stroke max.	400 mm	400 mm	400 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).

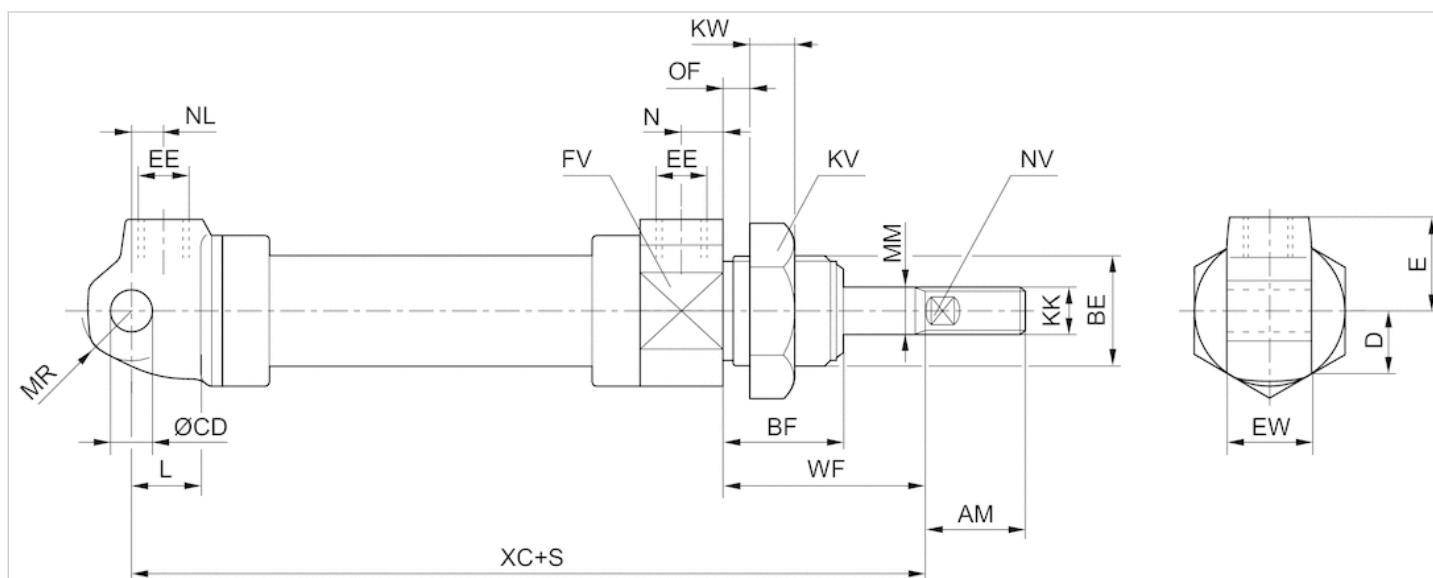
Nut MR3 included in supply

Technical information

Material	
Cylinder tube	Stainless steel
Piston rod	Stainless steel
Front cover	Polyoxymethylene
End cover	Polyoxymethylene
Connection thread	Stainless steel
Seal	Acrylonitrile butadiene rubber
Nut for cylinder mounting	Polyamide
Nut for piston rod	Stainless steel
Scraper	Polyurethane

Dimensions

Dimensions



S = stroke

Dimensions

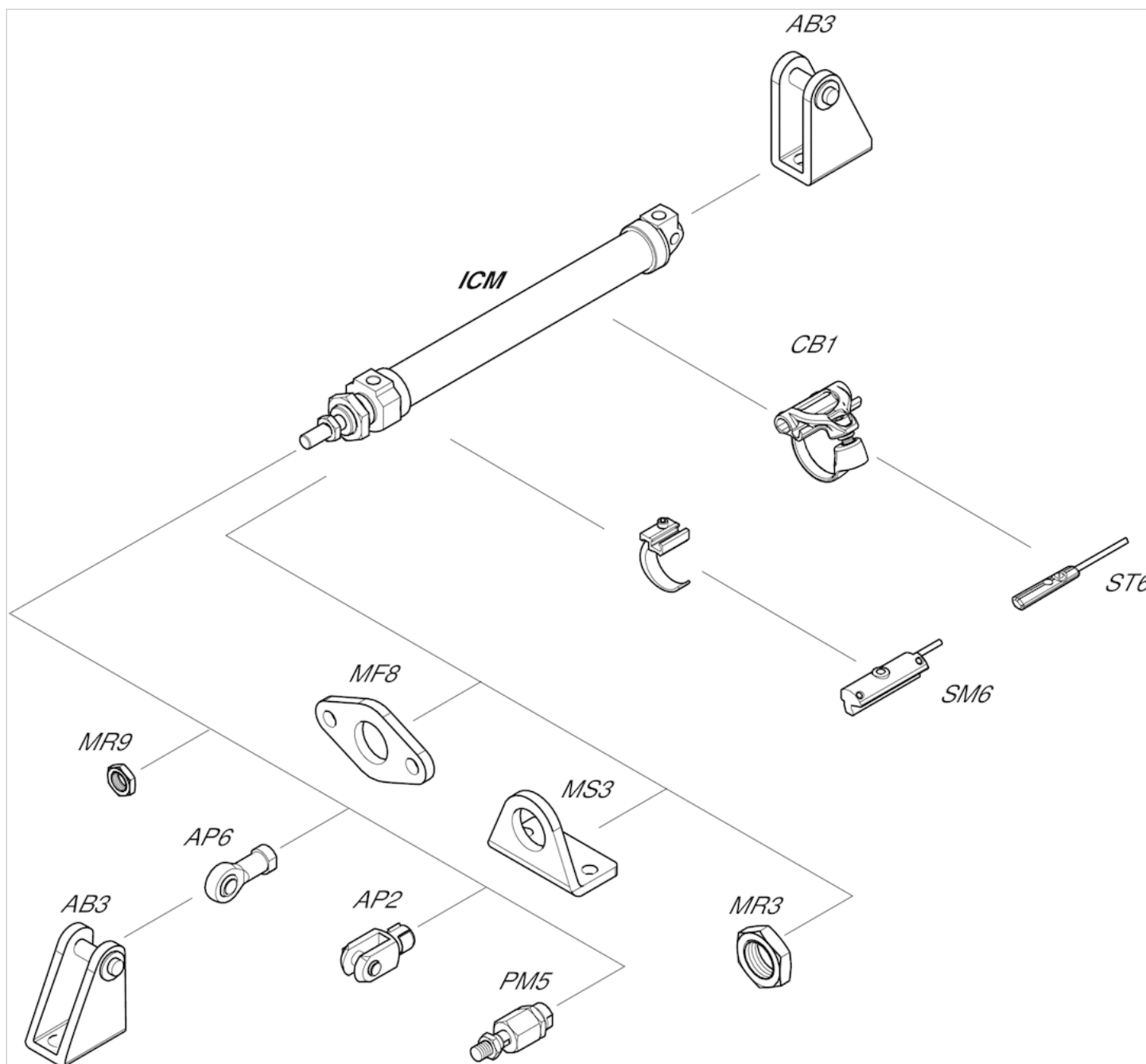
Piston Ø	AM +0/-2	BE	BF	CD H11	D	E	EE	EW d13	FV	KK	KV	KW	L	MM
8 mm	12	M12x1,25	14	4	7.5	12	M5	8	14	M4	17	7	7	4
10 mm	12	M12x1,25	14	4	8	12	M5	8	16	M4	17	7	7	4
12 mm	16	M16x1,5	20	6	10	13.5	M5	12	20	M6	24	7	9	6
16 mm	16	M16x1,5	20	6	12	14	M5	12	24	M6	24	7	9	6
20 mm	20	M22x1,5	22	8	15	18	G1/8	16	30	M8	30	8	12	8
25 mm	27	M22x1,5	22	8	17	18	G1/8	16	34	M10x1,25	30	8	12	10
32 mm	32	M30x1,5	29	10	22.5	24	G1/8	26	46	M10x1,25	41	11	13	12

Piston Ø	MR	N	NL	NV	OF 1)	WF ±1,2	XC ±1
8 mm	5	5	12	3	4.5	16	64
10 mm	5	5	12	3	4.5	16	64
12 mm	7.5	5	7	4	10	22	62
16 mm	7.5	5	6	4	10	22	58
20 mm	10	8	7	6	10	24	73
25 mm	10	8	6.5	8	10	23	72
32 mm	15	10	10.5	11	14	38	98

1) Max.

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.