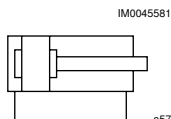


Piston rod cylinders ▶ Mini cylinder

Mini cylinder, Series ICM

- ▶ 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
Working pressure min./max.	2 bar / 10 bar
Ambient temperature min./max.	-20 °C / +70 °C
Medium temperature min./max.	-20 °C / +70 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m ³
Pressure for determining piston forces	6,3 bar

Materials:	
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
Lubricant	ISO 21469 (NSF-H1)

Technical Remarks

- 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, see chapter „Technical information“.
- Nut MR3 included in supply

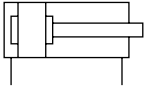
Piston Ø		[mm]	8	10	12	16	20
Retracting piston force		[N]	24	42	53	109	166
Extracting piston force		[N]	32	49	71	127	198
Weight	0 mm stroke	[kg]	0.025	0.035	0.048	0.054	0.08
	+10 mm stroke	[kg]	0.003	0.004	0.005	0.005	0.01
Stroke max.		[mm]	80	80	100	200	400

Piston Ø		[mm]	25	32			
Retracting piston force		[N]	260	435			
Extracting piston force		[N]	309	506			
Weight	0 mm stroke	[kg]	0.1	0.26			
	+10 mm stroke	[kg]	0.014	0.022			
Stroke max.		[mm]	400	400			

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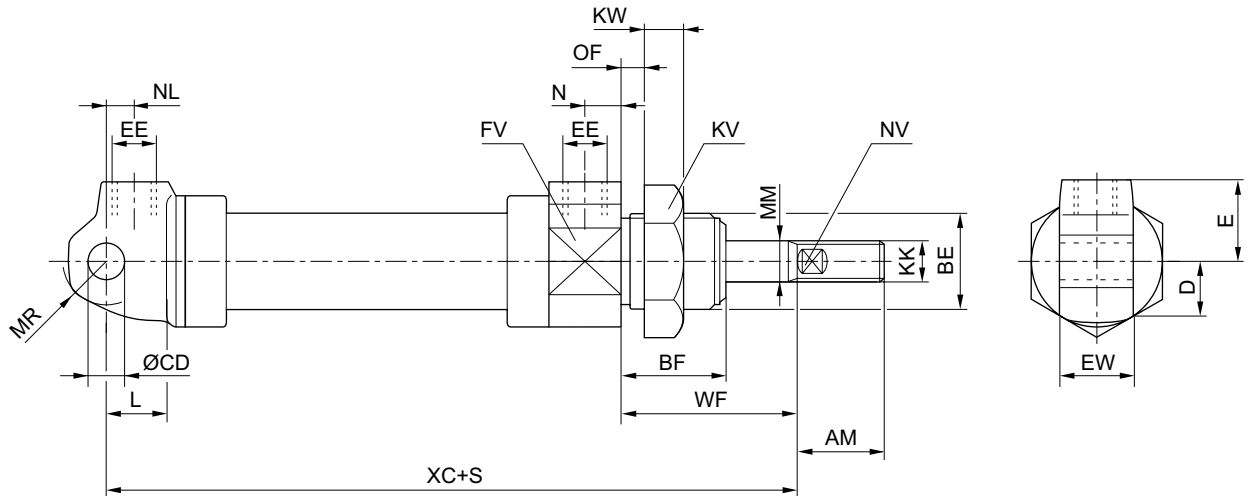
	Piston Ø Piston rod thread Ports	8	10	12	16	20	
		M4 M5	M4 M5	M6 M5	M6 M5	M8 G 1/8	
	Stroke 12	1320801000	1321001000	1321201000	1321601000	1322001000	
	15	-	-	-	R404056204	R402001534	
	20	-	-	-	R402001217	R402001222	
	25	1320802000	1321002000	1321202000	1321602000	1322002000	
	30	-	-	-	R404050535	R404050958	
	35	-	-	-	R402001399	R402001018	
	40	-	R412019436	-	R404051299	R404051300	
	50	1320805000	1321005000	1321205000	1321605000	1322005000	
	60	-	-	R404069622	R404050901	R402001220	
	70	-	-	-	R404052041	-	
	80	1320808000	1321008000	1321208000	1321608000	1322008000	
	100	-	-	1321210000	1321610000	1322010000	
	125	-	-	-	R404052590	1322012000	
	160	-	-	-	-	1322016000	
	200	-	-	-	R404050903	R402001221	
	250	-	-	-	-	-	
	300	-	-	-	-	R404008665	
	320	-	-	-	-	-	
	400	-	-	-	-	-	
		Piston Ø Piston rod thread Ports	25 M10x1,25 G 1/8	32 M10x1,25 G 1/8			
	Stroke 12	1322501000	R404059486				
	15	R404052262	R402001401				
	20	R404062718	R404051563				
	25	1322502000	1323202000				
30	R404050434	R404052299					
35	R404009112	R402001229					
40	R404050929	R404062567					
50	1322505000	1323205000					
60	R402001223	R404051858					
70	R404055008	-					
80	1322508000	1323208000					
100	1322510000	1323210000					
125	1322512000	1323212000					
160	1322516000	1323216000					
200	R402001225	1323220000					
250	R404050418	R402001226					
300	R404058499	R404009040					
320	R404008358	R404058773					
400	R404050620	-					

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Dimensions



D132_005

S = stroke

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

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

1) Max.