Cylinder

- According to DIN 6432
- With magnetic piston
- Ø 8...25 mm

Product variants described in the data sheet may differ from the product presentation and description.

Type description

The pneumatic cylinders feature magnetic pistons and are available in the following variants: double-acting with fixed end position damping, double-acting with adjustable end position damping.

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1. General technical data

Product properties	
Dimensions	Further information can be found in chapter "4. Dimensions" on page 4.
Material	
Piston rod	Stainless steel AISI 303/1.4305
Cylinder head	Anodised aluminium
Cylinder tube	Stainless steel AISI 304/1.4301
Seal	PU
Performance data	
Temperature range	-10...+80 °C
Pressure range [1.)]	1...10 bar
Medium data	
Control medium	Filtered oil-free compressed dry air
Environment and installation	
Installation position	Any

1.) Pressure data: overpressure to atmospheric pressure

2. Approvals and conformities

2.1. General notes

- The approvals and conformities listed below must be stated when making enquiries. This is the only way to ensure that the product complies with all required specifications.
- Not all available variants can be supplied with the below mentioned approvals or conformities.

2.2. Conformity

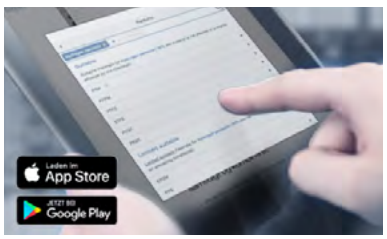
In accordance with the Declaration of Conformity, the product is compliant with the EU Directives.

2.3. Standards

The applied standards which are used to demonstrate compliance with the EU Directives are listed in the EU-Type Examination Certificate and/or the EU Declaration of Conformity.

3. Materials

3.1. Bürkert resistApp



Bürkert resistApp – Chemical resistance chart

You want to ensure the reliability and durability of the materials in your individual application case? Verify your combination of media and materials on our website or in our resistApp.

Start chemical resistance check

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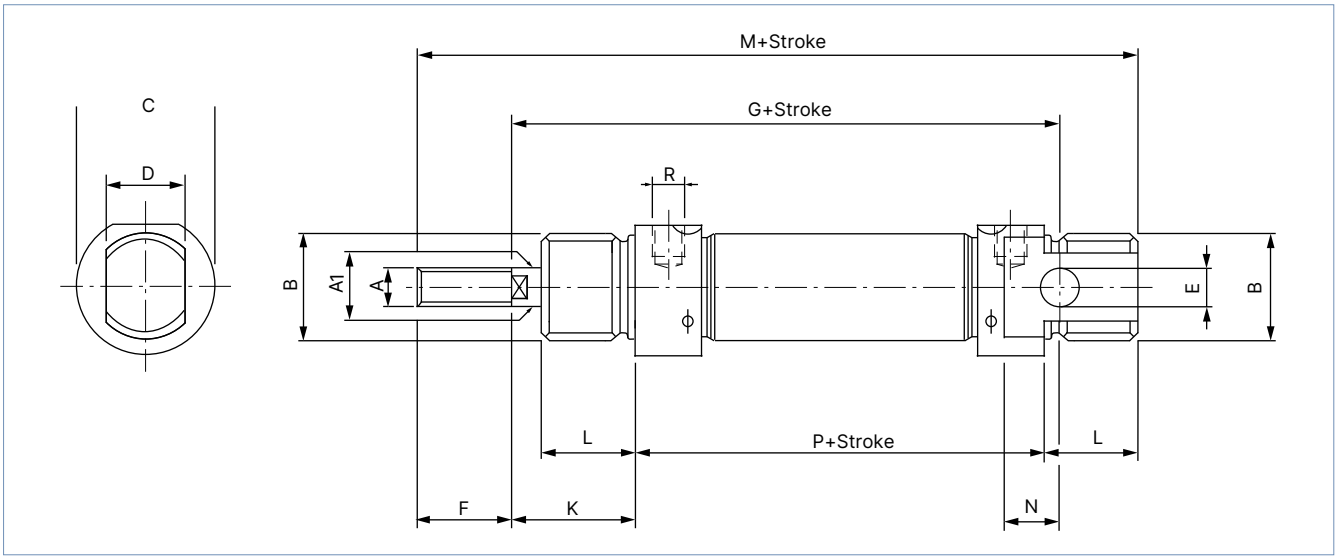
4. Dimensions

Note:

- Dimensions in mm
- According to DIN 6432



Piston diameter	A	A1	B	C	D	E	F	G	K	L	M	N	P	R
8	M4	4	M12 × 1.25	16	8	4	12	64	16	12	86	6	46	M5
10	M4	4	M12 × 1.25	16	8	4	12	64	16	12	86	6	46	M5
12	M6	6	M16 × 1.5	19	12	6	16	75	22	18	104	9	48	M5
16	M6	6	M16 × 1.5	19	12	6	16	82	22	18	109	9	53	M5
20	M8	8	M22 × 1.5	27	16	8	20	95	24	20	131	12	67	G ⅛
25	M10 × 1.25	10	M22 × 1.5	30	16	8	22	104	28	22	140	12	68	G ⅛

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5. Performance specifications

5.1. Force chart

Note:

- The operating pressure is 6 bar.
- The friction inside the cylinder has been taken into account.

Piston diameter	Double-acting cylinder	
	Extension force	Retraction force
[mm]	[N]	[N]
8	27	20
10	42	36
12	61	46
16	109	93
20	170	142
25	265	223

6. Ordering information

6.1. Bürkert eShop

Bürkert eShop – Easy ordering and quick delivery

You want to find your desired Bürkert product or spare part quickly and order directly? Our online shop is available for you 24/7. Sign up and enjoy all the benefits.

Order online now

6.2. Bürkert product filter

Bürkert product filter – Get quickly to the right product

You want to select products comfortably based on your technical requirements?
Use the Bürkert product filter and find suitable articles for your application quickly and easily.

Try out our product filter

6.3. Ordering chart

Ordering information

For fasteners see datasheet **Type TBU001** ▶. This includes:

- head and floor flange fastener
- foot fastener, bearing support with rigid bearing
- joint head, fork head
- hexagon nut according to DIN 439

For inductive limit switches see data sheet **Type TEU005** ▶.

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Ordering chart with magnetic piston and with fixed end of stroke cushioning

Note:

- The delivery includes mounting and piston rod nut.
- Note the ordering information (see chapter "Ordering information" on page 5).
- Other variants on request

Piston diameter [mm]	Stroke [mm]	Article no. Double-acting
8	10	780573
	25	780574
	50	780575
	80	780576
10	10	780581
	25	780582
	50	780583
	80	780584
	100	780585
12	10	780589
	25	780590
	50	780591
	80	780592
	100	780593
	125	780594
	160	780595
	200	780596
16	10	780597
	25	780598
	50	780599
	80	780600
	100	780601
	125	780602
	160	780603
	200	780604
20	10	780606
	25	780563
	50	780607
	80	780608
	100	780609
	125	780610
	160	780611
	200	780612
25	10	780615
	25	780616
	50	780617
	80	780618
	100	780619
	125	780620
	160	780621
	200	780622

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Ordering chart with magnetic piston, with fixed end of stroke cushioning

Note:

- The delivery includes mounting and piston rod nut.
- Note the ordering information (see chapter "Ordering information" on page 5).
- Other variants on request

Piston diameter [mm]	Stroke [mm]	Article no. Double-acting
16	25	782989
	50	782990
	80	782991
	100	782992
	125	782993
	160	782994
	200	782995
20	25	782997
	50	782998
	80	782999
	100	783000
	125	783001
	160	783002
	200	783003
25	25	783006
	50	783007
	80	783008
	100	783009
	125	783010
	160	783011
	200	783012

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