



## 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.

## Table of contents

<b>1. General technical data</b>	<b>3</b>
<hr/>	
<b>2. Approvals and conformities</b>	<b>3</b>
2.1. General notes .....	3
2.2. Conformity .....	3
2.3. Standards .....	3
<hr/>	
<b>3. Materials</b>	<b>3</b>
3.1. Bürkert resistApp .....	3
<hr/>	
<b>4. Dimensions</b>	<b>4</b>
<hr/>	
<b>5. Performance specifications</b>	<b>5</b>
5.1. Force chart .....	5
<hr/>	
<b>6. Ordering information</b>	<b>5</b>
6.1. Bürkert eShop .....	5
6.2. Bürkert product filter .....	5
6.3. Ordering chart .....	5
Ordering information .....	5
Ordering chart with magnetic piston and with fixed end of stroke cushioning .....	6
Ordering chart with magnetic piston, with fixed end of stroke cushioning .....	7

DTS 1000268346 EN Version: D Status: RL (released | freigegeben | validé) printed: 18.12.2024

## 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 <sup>1)</sup>	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

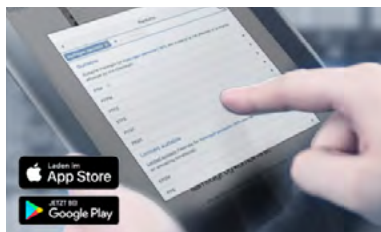
In accordance with the Declaration of Conformity, the product is compliant with the EU Directives.

### 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

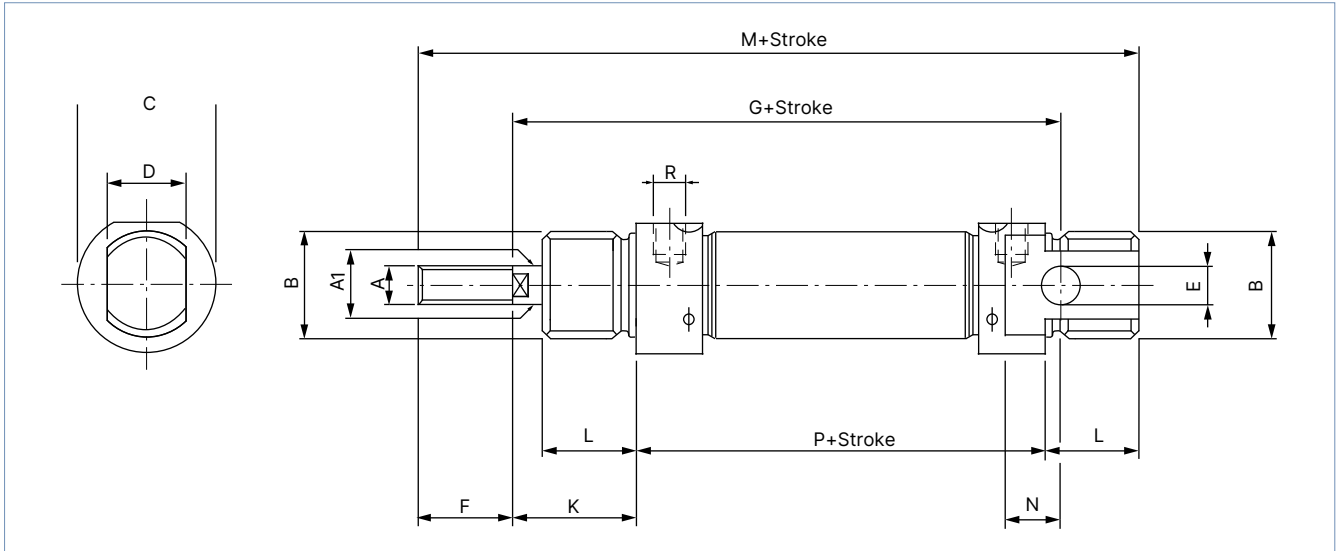
You want to ensure the reliability and durability of the materials in your individual application case? Verify your combination of media and materials on our website or in our resistApp.

[Start chemical resistance check](#)

## 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 1/8
25	M10 × 1.25	10	M22 × 1.5	30	16	8	22	104	28	22	140	12	68	G 1/8

DTS 1000268346 EN Version: D Status: RL (released | freigegeben | validé) printed: 18.12.2024

## 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 [mm]	Double-acting cylinder	
	Extension force [N]	Retraction force [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** ▶.

**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 
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 
25	10	780615 
	25	780616 
	50	780617 
	80	780618 
	100	780619 
	125	780620 
	160	780621 
200	780622 	

DTS 1000268346 EN Version: D Status: RL (released | freigegeben | valide) printed: 18.12.2024

**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

<b>Piston diameter [mm]</b>	<b>Stroke [mm]</b>	<b>Article no. Double-acting</b>
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 

DTS 1000268346 EN Version: D Status: RL (released | freigegeben | valide) printed: 18.12.2024