DATA SHEET

Type TZU002

Cylinder according to DIN ISO 15552

- According to DIN 6431 (new ISO 15552)
- Metal variant
- Smooth design
- Screwed together at the inside

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

Type description

The double-acting cylinder features magnetic pistons and adjustable end position damping. The adjusting screws for end position damping are located on the connection side and can be adjusted with an Allen key. The adjusting screws are secured to prevent unscrewing.

DTS 1000268348 EN Version: E Status: RL (released | freigegeben | valide) printed: 14.07.2026

© Christian Bürkert GmbH & Co. KG, Subject to alteration

Visit product website

Table of contents

1. General technical data 3

2. Approvals and conformities 3

2.1. General notes ... 3
2.2. Conformity ... 3
2.3. Standards ... 3

3. Materials 3

3.1. Bürkert resistApp ... 3

4. Dimensions 4

5. Performance specifications 5

5.1. Force chart ... 5
5.2. Permissible side load ... 5

6. Ordering information 6

6.1. Bürkert eShop ... 6
6.2. Bürkert product filter ... 6
6.3. Ordering chart ... 6

DTS 1000268348 EN Version: E Status: RL (released | freigegeben | valide) printed: 14.07.2026

1. General technical data

Note:
Other variants on request

Product properties	
Dimensions	Further information can be found in chapter "4. Dimensions" on page 4.
Material	
Seal	PU/NBR
Piston diameter	Stainless steel
Cylinder head	Painted die-cast aluminium
Cylinder tube	Anodised aluminium profile
Temperature range	- 20...+ 80 °C
Performance data	
Pressure range [1)]	1...10 bar
Stroke	10...2800 mm
Medium data	
Control medium	Filtered oil-free compressed dry air

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

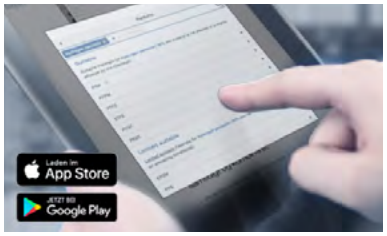
In accordance with the Declaration of Conformity, the product is compliant with the EU Directives.

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

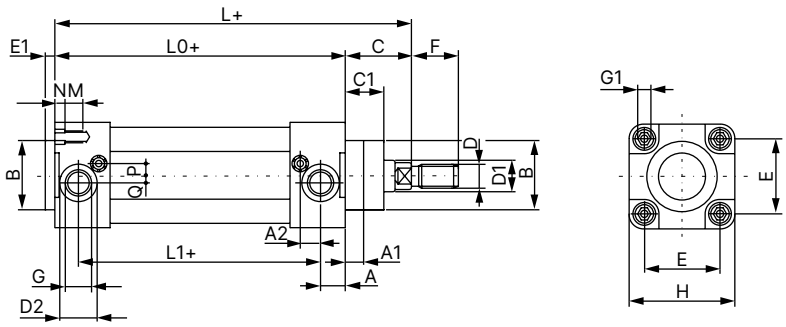
You want to ensure the reliability and durability of the materials in your individual application case? Verify your combination of media and materials on our website or in our resistApp.

Start chemical resistance check

DTS 1000268348 EN Version: E Status: RL (released | freigegeben | valide) printed: 14.07.2026

4. Dimensions

Note:
Dimensions in mm



Dimension	Piston diameter [mm]						
	32	**40**	**50**	**63**	**80**	**100**	**125**
A	10	12	14	16	18	20	25
A1	6.5	8	13	14	12	14	20
A2	10	10	10	10	12	12	10
B	30	35	40	45	45	55	60
C	26	30	37	37	46	51	65
C1	16	20	25	25	33	38	45
D	M10 × 1.25	M12 × 1.25	M16 × 1.5	M16 × 1.5	M20 × 1.5	M20 × 1.5	M27 × 2
D1	12	16	20	20	25	25	32
D2	15	19	19	23	23	27	27
E	32.5	38	46.5	56.5	72	89	110
E1	4	4	4	4	4	4	6
F	22	24	32	32	40	40	54
G	G ⅛	G ¼	G ¼	G ⅜	G ⅜	G ½	G ½
G 1	M6	M6	M8	M8	M10	M10	M12
H	46	54	64.5	75.5	94	111	135
L	120	135	143	158	174	189	225
L0	94	105	106	121	128	138	160
L1	74	81	78	89	92	98	145
M	14.5	14.5	17.5	17.5	21.5	21.5	25.5
N	4.5	4.5	5.5	5.5	5.5	5.5	6.5
P	6	6	6	6	10	10	12
Q	4	4	6	6	7	7	8

DTS 1000268348 EN Version: E Status: RL (released | freigegeben | valide) printed: 14.07.2026

5. Performance specifications

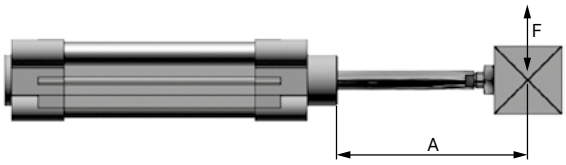
5.1. Force chart

Note:

- The operating pressure is 6 bar.
- The internal friction is considered.

Piston diameter	Double-acting cylinder	
	Extension force	Retraction force
[mm]	[N]	[N]
32	434	373
40	678	570
50	1060	890
63	1682	1513
80	2713	2448
100	4239	3974
125	6623	6189

5.2. Permissible side load



Piston diameter	Distance A [mm]											
[mm]	25	40	50	80	100	125	160	200	250	320	400	500
32	75	55	50	40	34	28	23	20	16	12	9	7
40	175	150	130	105	91	78	62	55	45	35	28	21
50, 63	220	180	170	130	120	105	90	80	65	52	43	33
80, 100	500	450	400	350	310	270	230	205	180	150	125	100
125	810	710	680	590	520	470	420	390	330	270	230	200

DTS 1000268348 EN Version: E Status: RL (released | freigegeben | valide) printed: 14.07.2026

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

Note:

- The delivery of the cylinder includes a piston rod nut.
- Other variants on request

Circuit function	Piston diameter [mm]	Stroke [mm]	Article no. double-acting
Double-acting	32	50	780242
		100	780244
		160	780246
	40	50	780251
		100	780253
		160	780255
	50	50	780260
		100	780262
		160	780264
		200	780265
	63	50	780269
		100	780271
		160	780273
		200	780274
	80	100	780280
		160	780282
		200	780283
	100	100	780289
		160	780291
		200	780292
	125	100	780298
		160	780300

DTS 1000268348 EN Version: E Status: RL (released | freigegeben | valide) printed: 14.07.2026