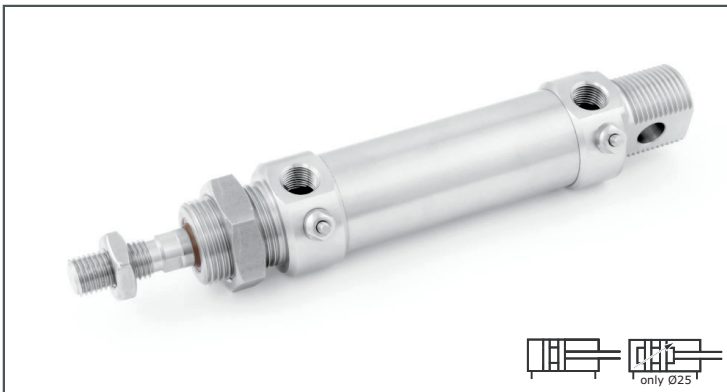


Ø12 - Ø25 - DIN/ISO 6432 - THREAD AND SWIVEL

Type 0102/0508

12/02-19 Vers. 2



ART. NO.

Without cushioning:	With cushioning:
U012 0000 0102	
U016 0000 0102	
U020 0000 0102	
U025 0000 0102	U025 0000 0508



Standard DIN/ISO 6432 cylinder (Ø12-Ø25):

A standard UNIC Stainless Cylinder® to DIN/ISO 6432 (Ø12-Ø25) is equipped with a permanent magnet and end stroke-cushioning. The Ø25 cylinder is also available with adjustable end stroke-cushioning. Standard UNIC Stainless Cylinder® is fitted with nitrile rubber (NBR) / polyurethane (PU) packings and POM piston.

This cylinder can be supplied in an ATEX version for installation in potentially explosive areas.

Max pressure: 10 bar
Temperature: -20°C to +80°C
Standard stroke: 10-500 mm.

MATERIAL

Piston rod, fittings: AISI 304 / (WST. 1.4301).
Cylinder pipe and end caps: AISI 304 / (WST. 1.4301).

ASSEMBLY

All cylinders are assembled by thread and are therefore serviceable.

CHEMICAL RESISTANCE

When ordering a cylinder with high resistance to chemicals, add the letter "C" to the end of the product number.

ADAPTER

It may be advantageous to fit an extra front adapter if the cylinder is used in an aggressive environment that leaves deposits on the piston rod. The adapter is, therefore, fitted with a highly chemical-resistant and hard scraper made of PTFE. When ordering a cylinder with adapter, add the letter "A1 or A2" to the end of the product number.

HEAT-RESISTANT +150°C

A heat-resistant UNIC Stainless Cylinder® can run in ambient temperatures up to +150°C. When ordering a heat-resistant cylinder, add the letter "H" to the end of the product number.

ATEX

When ordering an ATEX cylinder, add the letters "Ex" to the end of the product number.

ORDER SAMPLE

Order sample for heat-resistant and chemical-resistant cylinder, and cylinder with adapter.

Heat-resistant cylinder: U025 0030 0102**H**
Chemical-resistant cylinder: U025 0030 0102**C**
Cylinder with adapter: U025 0030 0102**A1** or U025 0030 0102**A2**
Cylinder based on **DIN/ISO 6432**

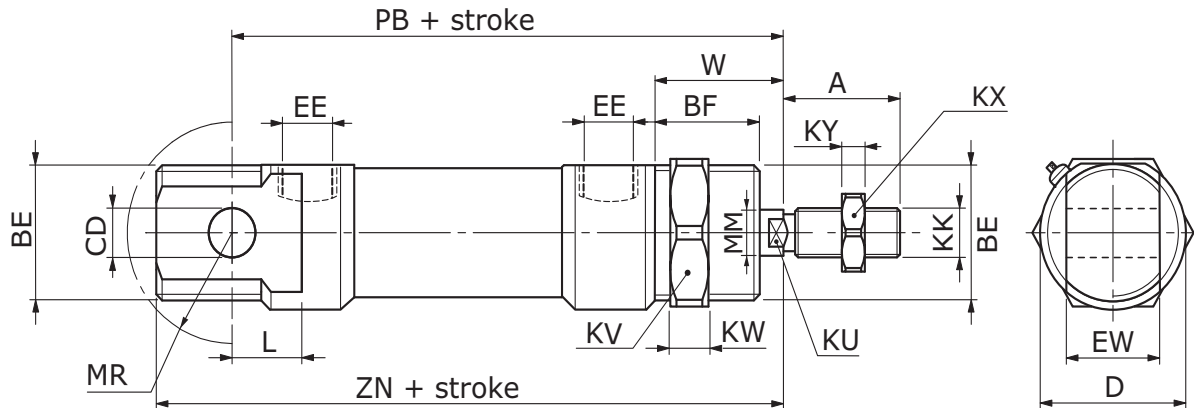
Cylinders diameter: Ø12 – Ø25 With permanent magnet and end stroke-cushioning.

*Please note: **Only** Ø25 is equipped with adjustable end stroke-cushioning.

However, Ø16 and Ø20 specially manufactured with adjustable end end stroke-cushioning.

MEASUREMENT FORM (MM)

Type 0102/0508



Cyl.Ø	A*	BE*	BF*	CD*	D	EE*	EW*	KK*	KU	KV	KW	KX	KY	L	MM*	MR*	PB*	W*	ZN*
12	15	M16x1,5	15	Ø6	20	M5	12	M6	5	24	7	10	5	9	Ø6	12	75,0	21	86
16	16	M16x1,5	16	Ø6	20	M5	12	M6	5	24	7	10	5	9	Ø6	12	82,0	22	92
20	20	M22x1,5	18	Ø8	27	G½"	16	M8	6	27	7	13	4	12	Ø8	18	95,0	24	108
25	22	M22x1,5	21	Ø8	30	G½"	16	M10x1,25	8	27	7	17	5	12	Ø10	16	104,7	28,5	116,7

* = DIN/ISO norm. measurements

Cyl.Ø	Wear-parts
12	U1901231
16	U1901631
20	U1902031
25	U1902531

THEORETICAL CYLINDER FORCES

In NEWTON											
cyl. Ø	Piston Rod Ø	Piston area cm ²		3 bar		4 bar		5 bar		6 bar	
		●	○	●	○	●	○	●	○	●	○
12	6	1,1	0,8	29	22	39	30	48	37	58	45
16	6	2,0	1,7	53	46	70	61	88	76	106	91
20	8	3,1	2,6	82	69	109	92	136	114	164	137
25	10	4,9	4,1	129	108	172	144	216	180	259	216

In NEWTON											
cyl. Ø	Piston Rod Ø	Piston area cm ²		7 bar		8 bar		9 bar		10 bar	
		●	○	●	○	●	○	●	○	●	○
12	6	1,1	0,8	68	52	77	60	87	67	97	75
16	6	2,0	1,7	123	107	141	122	158	137	176	152
20	8	3,1	2,6	191	160	218	183	246	206	273	229
25	10	4,9	4,1	302	253	345	289	388	325	421	361

- = cylinder in Plus direction
- = cylinder in Minus direction