

# Ø80 - Ø125 - DIN/ISO 15552 - WITH SWIVEL

Type 1728

24/04-19 Vers. 4



## ART. NO.

U080 0000 1728  
U100 0000 1728  
U125 0000 1728



### Standard DIN/ISO 15552 (Ø80-Ø125):

A standard UNIC Stainless Cylinder® to DIN/ISO 15552 (Ø80-Ø125) is equipped with a permanent magnet and adjustable end stroke-cushioning. Standard UNIC Stainless Cylinder® is fitted with nitrile rubber (NBR) / polyurethane (PU) packings and POM piston (Ø125 with aluminium piston).

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

This cylinder can be supplied with FDA-approved piston rod sealing, which is suitable when FDA-compliant products are required.

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.

This cylinder has FDA-approved piston rod sealings and is therefore FDA-compliant.

## 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

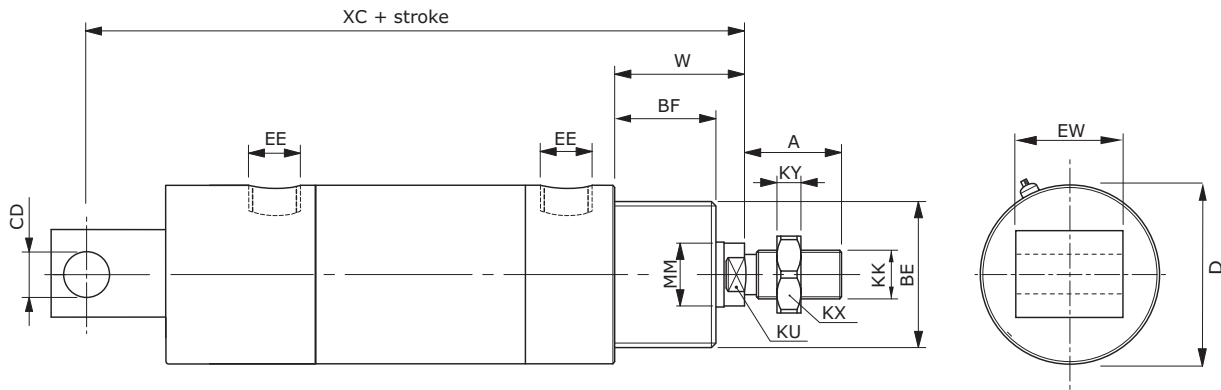
Order sample for heat-resistant and chemical-resistant cylinder, and cylinder with adapter.

Heat-resistant cylinder: U080 0050 1728**H**  
Chemical-resistant cylinder: U080 0050 1728**C**  
Cylinder with adapter: U080 0050 1728**A1** or U080 0050 1728**A2**  
Cylinder based on **DIN/ISO 15552**

\*Please note: Ø80 - Ø125 specially manufactured without adjustable end end stroke-cushioning.

**MEASUREMENT FORM (MM)**

Type 1728



Cyl.Ø	A*	BE	BF*	CD*	D	EE*	EW*	KK*	KU	KX	KY	MM*	W*	XC*
80	40	M55x1,5	35	16	Ø86	G <sup>3</sup> / <sub>8</sub> "	50	M20x1,5	22	30	9	Ø25	46	210
100	40	M55x1,5	38	20	Ø106	G <sup>1</sup> / <sub>2</sub> "	60	M20x1,5	22	30	9	Ø25	51	230
125	54	M60x2,0	50	25	Ø132	G <sup>1</sup> / <sub>2</sub> "	70	M27x2,0	27	41	13,5	Ø32	65	275

\* = DIN/ISO norm. measurements

Cyl.Ø	Wear-parts
80	U1908032
100	U1910032
125	U1912532

**THEORETICAL CYLINDER FORCES**

In NEWTON											
cyl. Ø	Piston Ø	Piston area cm <sup>2</sup>		3 bar		4 bar		5 bar		6 bar	
		●	○	●	○	●	○	●	○	●	○
80	25	50,3	45,3	1328	119	1771	1598	2213	1998	2656	2397
100	25	78,5	73,6	2072	1943	2763	2591	3454	3238	4145	3886
125	32	122,7	114,6	3239	3028	4319	4037	5399	5047	6479	6056

In NEWTON											
cyl. Ø	Piston Ø	Piston area cm <sup>2</sup>		7 bar		8 bar		9 bar		10 bar	
		●	○	●	○	●	○	●	○	●	○
80	25	50,3	45,3	3098	2797	3541	3196	3984	3596	4426	3995
100	25	78,5	73,6	4836	4534	5526	5181	6217	5829	6908	6477
125	32	122,7	114,6	7558	7066	8638	8075	9718	9084	10798	10094

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