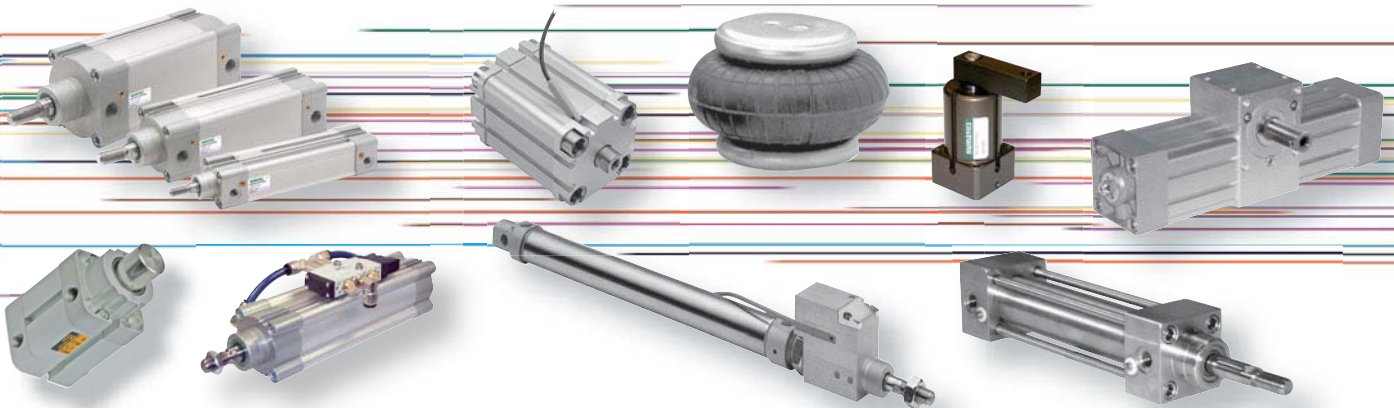


*We're everywhere you need us to be!*

# Cylinders



## ***Pneumatic Cylinders***

***Mini Cylinders • Compact Cylinders***

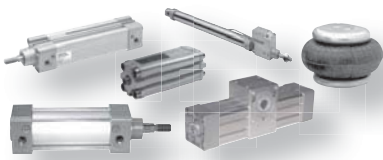
***VDMA ISO 15552 Cylinders • Rotary Actuators***

***Robotic Grippers • Swing Clamp Cylinders***

***Stopper Cylinders • Air Bellows***

***Cylinders to ATEX Directive 94/9/EG***





## Cylinders

### Numatics Pneumatic Cylinders - Quality without Compromise

Numatics has gained a worldwide reputation as a manufacturer of valves.

We are also recognised for our superior quality cylinders.

### What are the Special Features of Numatics VDMA and Compact Cylinders?



**Locking Units** save loads at pressure drops. For Mini Cylinders, too.

**Round Switch Grooves** for flush insertion.

**DU Composite Rod Bearing** for piston rod: low friction and long service life due to PTFE-coating.

**Piston Rod made of Stainless Steel** with rolled thread.

**No Lube added Service** because of life-time lubrication.

Lubricated compressed air not necessary.

### VDMA Cylinders and Rotary Actuators: Special Features



**GeoMetric® VDMA Cylinders** with CombiGroove® for most current sensors.

**Stainless Steel** VDMA Cylinders available.

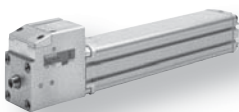
**Steel Thread Adapters** in aluminium barrel enable frequent mounting and dismantling of the end caps.

**Adjustable** Cushioning.

**Adjustable** Bearing of toothed rack (Rotary Actuators)



### Compact Cylinders: Special Features



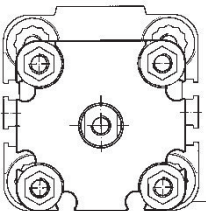
**Locking Units** for Compact Cylinders - unique Numatics design.

Guide rods enable compact cylinders to take increased side forces.

**2 integral Air Tubes** in the cylinder barrel enable air connections to be made

on one cylinder end. Furthermore, multiple and multi-position cylinders can be joined without external air conduits.

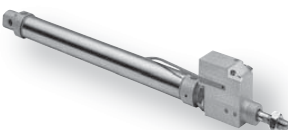
**Dimensionally smaller** in comparison to our competitors.

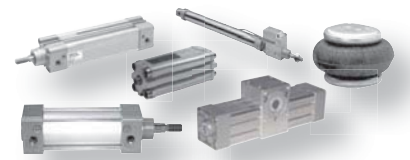


### Mini Cylinders: Special Features

**Locking Units for Mini Cylinders** unique Numatics design.

**Brass Pistons** Numatics standard.

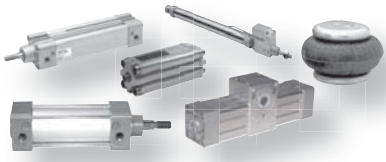




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## Cylinders