

# Standard cylinders ADN to ISO 21287

**FESTO**

## Self-adjusting cushioning!

**For maximum productivity in confined spaces.** Compact cylinders ADN are now equipped with the unique pneumatic end position cushioning PPS. It adapts itself to the actuator load and speed, even if these change. This means dramatically reduced set-up times and increased operating throughput.

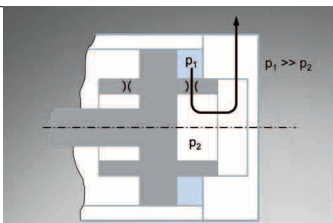
### More options as standard

- Massive range of options; non-standard sizes and designs are also available for an even broader range of applications
- Up to 50% shorter than the standard cylinder ISO 15552 – but with the same stroke and the same robust, bolted-on end cap design
- Well thought out – one type of proximity sensor (SMx-8M) can be inserted on three sides on all sizes
- Very short delivery times and attractively priced
- rates are possible thanks to the excellent running and cushioning characteristics of the PPS pneumatic cushioning.
- Operating reliability: user adjustments are eliminated, making it ideal for OEMs.
- With PPS cushioning adjustments are no longer necessary – perfect when the cylinders are hard to access.
- Higher energy absorption extends the cylinder and machinery life
- Less vibration, reduced impacts, less noise

### ADN + PPS cushioning for maximum cylinder performance

- High speeds and machine cycle

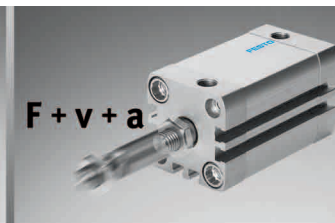
**Innovation plus quality =  
a world champion**



Tight spaces



Same stroke - shorter housing



As powerful as a larger one!

**127.1.PSI →**

Product Short Information

# Standard cylinders ADN/AEN to ISO 21287





Modern drives – Efficiency in the system \*

## ADN/AEN standard cylinders at a glance

### Standard types for fast delivery, modular types for greater flexibility

Defined standard types, which are simply ordered using part numbers, cover the most popular sizes and are available ex-stock at a very favourable price. The ADN modular system offers a comprehensive range with many features to ensure that all requirements can be met. Individual combinations mean a high level of functionality and guarantee the best possible technical solution for almost every application.

Basic cylinder	Type	Description
	ADN PPS	<b>Double-acting cylinder</b> <ul style="list-style-type: none"><li>• Cost-effective standard strokes for standard functions</li><li>• Wide choice of variants within a modular system for individual combinations</li><li>• NEW! With pneumatic end positioning cushioning PPS</li></ul>
	ADNGF-PPS	<b>Guided cylinder</b> <ul style="list-style-type: none"><li>• Guide rods and yoke plate</li><li>• Non-rotating with plain-bearing guide for correctly oriented feeding and for absorbing torques and increased lateral forces.</li><li>• NEW! With pneumatic end positioning cushioning PPS</li><li>• Cost-effective standard strokes for standard functions</li><li>• Wide choice of variants within a modular system for individual combinations</li></ul>

Depending on the basic cylinder, numerous additional functions are available for individual configuration within the modular system.

## The advantages of PPS cushioning

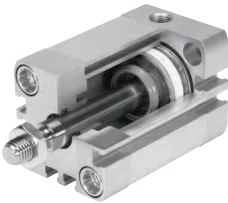
The self-adjusting pneumatic cushioning PPS enables a dynamic yet gentle movement into the cylinder's end position. This is achieved by the unique cushioning piston ports that allow the air to be optimally vented. This makes it entirely unnecessary to set the cushioning manually.

This is an particularly beneficial if the cylinders are hard to access. Also unintentional user adjustment is no longer possible. Instead, the cushioning automatically adjusts itself to the load and speed.

PPS cushioning is also ideal if the transfer of end position shocks and vibrations to the system has to be prevented.

## For high speeds and machine cycles

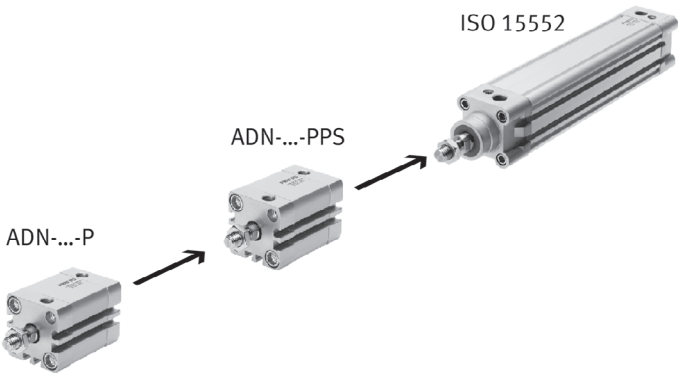
As end position cushioning PPS absorbs more energy, it is possible to use higher velocities and masses.



### PPS cushioning system: without an adjusting screw for cushioning adjustment

Cylinder piston: gentle movement into the end position

Exhaust ports: regulated air discharge  
Patented 3K piston: excellent running characteristics and outstanding cushioning characteristics in the end position



### Makes a big contribution – but stays small

The compact cylinder ADN-PPS combines two advantages: the compact shape of the cylinder with P cushioning and cylinder performance according to ISO 15552.

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\* Tested representatively and certified for the products ADVU, DGPL and DNC.