

# PNEUMATIC NEWS 2019

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**Made in Italy**



ADVANCED  
PNEUMATIC  
INDUSTRIES

# AIR POWER CONTROL

**A.P.I.** is an Italian company specialised in the manufacturing of **industrial pneumatic components**. Since our **birth in 1987**, we have created a company with **an international printing** and gained an increasingly important role in the market.

**Innovation, design and technology** of our products ensure to customers **not just a product, but a sector's excellence**.

We provide **solutions to specific needs** and offer **customized products tailored to each application sector**.



**+30**  
YEARS EXPERIENCE  
in pneumatics

**+15**  
APPLICATION  
fields

**10%**  
EMPLOYEES R&D  
technical innovation

**5MLN**  
PIECES  
of products each year

**100%**  
CERTIFIED  
manufacturing



# Micro-cylinders ISO 6432

## Suitable for general applications

- Bores from 8 to 25 mm.
- Single and double acting, magnetic or not magnetic
- With or without cushions
- Hard anodized aluminium end caps
- Metallic piston with elastic damper integrated



S.S. AISI 316tube

Product  
Improvement



Replaceable  
PU seal



### OPTIONS:



ATEX compliance



FKM seals



Low temperature  
seals

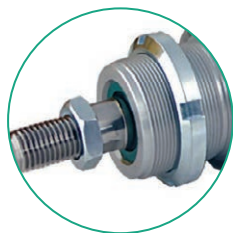
## Round cylinders

An effective alternative for your applications

Rod and tube in  
Stainless Steel



- Bores from 32 to 63 mm.
- Heads and tube connected by rolling
- Single or double acting, magnetic or not magnetic
- With or without cushions




PU seals  
standard



Already  
Available!

### OPTIONS:

  
Low temperature  
seals

  
FKM seals

  
ATEX compliance

# Stainless Steel Round cylinders

Suitable for Food and Chemical applications

- Bores from 32 to 63 mm.
- Heads and tube connected by rolling
- Double acting, magnetic or not magnetic
- With or without cushions



S.S. AISI 304



Already  
Available!



PU seals  
standard



OPTIONS:



ATEX compliance



FKM seals

# Stainless Steel Round cylinders

Clean design for food applications



NSF

S.S. AISI 316L



- Bores from 32 to 63 mm.
- Double acting, magnetic, with adjustable cushions
- Demountable nose for easy rod seal replacement
  - Replaceable seals including cushion o-rings
- ISO 15552 with mountings



Special  
PU seals



Already  
Available!

OPTIONS:



Low temperature  
seals



FKM seals



ATEX compliance

# Cylinders ISO 15552

## Clean design

- Bores from 32 to 125 mm.
- Full metal parts
- PU seals as standard
- Replaceable seals including cushion o-rings
- Standard magnetic aluminium piston



Flat heads

Already  
Available!



**BMA** type profile  
barrel with "T" and "C" grooves



**BMT** type profile  
round tube tie rods

### OPTIONS:



ATEX compliance



FKM seals



Low temperature  
seals



## Compact cylinders ISO 21287

New look, improved performances

Full metal parts



- Bores from 20 to 125 mm.
- Barrel with grooves for magnetic switches
- Single or double acting, magnetic
- Anti-rotating types available



PU seals  
standard



Die-cast aluminium  
heads

Product  
Improvement

OPTIONS:



FKM seals



ATEX compliance

# Stainless Steel compact cylinders ISO 21287

Suitable for Food and Chemical applications

- Bores from 25 to 100 mm.
- Double acting, magnetic
- One or more magnetic switches applicables
- Anti-rotating types available



S.S. AISI 316L



Already  
Available!

## OPTIONS:



ATEX compliance



FKM seals



Low temperature  
seals



PU seals  
standard



Mirror polished  
surfaces

# Magnetic switches ASH

For high temperatures

Aluminium body

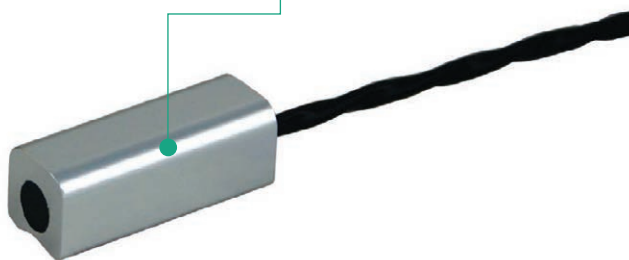


- $-10^{\circ}\text{C} \div + 140^{\circ}\text{C}$  temperature range
- Reed circuit, 2 poles
- Flying cable 5 mt. long

Range  
**Extension**



Brackets series **AS**  
for mounting on **ISO 15552**  
and **CNOMO** cylinders



# Rotary actuators

Range enriched, improved performances

- Bores from 32 to 400 mm.
- Single or Double Acting
- With rack and pinion
- 1/8" G and 1/4" G air inlet
- Connections conforming to ISO 5211 (DIN 3337) and NAMUR



Hard anodized body

Product  
Improvement

## OPTIONS:



ATEX compliance



FKM seals



Low temperature  
seals



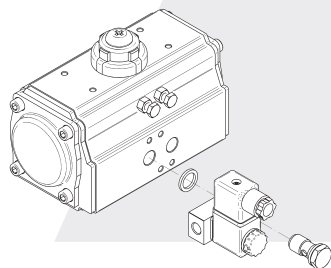
VSO series  
with **brass** ball valve



VSI series  
with **stainless steel** ball valve

## Solenoid valves 22 mm.

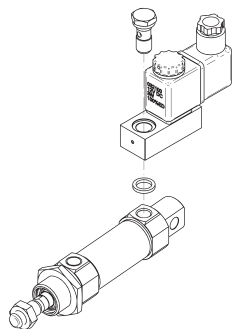
Small dimensions, great versatility



Direct mounting  
to the application



- 1/8" or 1/4" connections available
- 3/2 normally closed function
  - Directly operated
  - 1/8" air inlet
- Bistable manual override



Already  
**Available!**

**OPTIONS:**



Low temperature  
seals



ATEX compliance

# Aluminium solenoid valves

Suitable for ATEX zone

- 1/4", electrically operated
- Spring Return and Solenoid/Solenoid versions
- 3/2, 5/2 and 5/3 functions available
- Die-cast painted aluminium body
- Standard ATEX compliance



NAMUR interface

Range  
Extension

## OPTIONS:



Low temperature  
seals

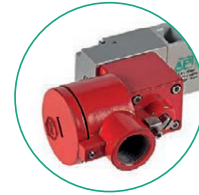
Ex ia



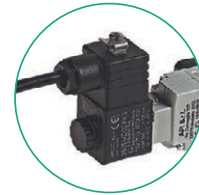
Ex nA



Ex dm



Ex db



Ex mb

# Stainless Steel solenoid valves

## Suitable for ATEX zone

**Ex** nA



**Ex** dm



**Ex** db



**Ex** mb



**S.S. AISI 316L**



**Ex** ia



- 1/4", electrically operated
- Spring Return and Solenoid/Solenoid versions
- 3/2, 5/2 and 5/3 functions available
- IN-LINE or NAMUR interface available
- Standard ATEX compliance

**Range  
Extension**

**OPTIONS:**



Low temperature  
seals

# Stainless Steel air-line equipment

## Suitable for Food and Chemical applications

- 1/4", 1/2" and 1"
- Working pressure up to 60 bar
- Standard NACE compliance
- Supplied complete with stainless steel pressure-gauge and bracket

Range  
Extension

### OPTIONS:



ATEX compliance



Low temperature  
seals



S.S. AISI 316L



FRRX



RX



LX



FX



## Mountings for cylinders

### ISO mountings range enriched

- From Ø 12 to 320 mm.
- Aluminium mountings for ISO 15552 cylinders and ISO 21287 compact cylinders
  - Steel mountings for ISO 15552 cylinders and ISO 21287 compact cylinders
- Stainless steel mountings for ISO 15552 cylinders and ISO 21287 compact cylinders
  - Complete with screws or screws and pin



Range  
**Extension**

**OPTIONS:**



Aluminium



Steel



Stainless Steel

# MANY FIELDS ONE TARGET ONLY



food  
and beverage



automation



plastics



depuration



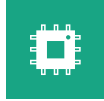
packaging



glass



medical



electronic  
components



wood



energy  
production



ceramics



textile



graphics



chemical



cleaning





**QUALITY**



**INNOVATION**



**DESIGN**



**TECHNOLOGY**



**SYNERGY**



**SIMPLIFICATION**





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