



PNEUMAX



PROCESS AUTOMATION AND FLUID CONTROL

INTEGRATED COMPONENTS AND SYSTEMS



Pneumax Group

Innovation, Competence and Technology

Founded in 1976, Pneumax S.p.A. is today one of the leading international manufacturers of components and systems for automation. It is at the forefront of a Group comprised of **26 companies**, with **over 850 employees worldwide**. Continuous investments in research and development have allowed Pneumax to broaden its offer of standard products and integrated mechatronic solutions, also often completely customised, by combining pneumatic technology, electric actuation and fluid control. The use of the most evolved production technologies guarantees maximum flexibility and quality certified according to the international standards of the various sectors.

The aim to offer increasingly specialised services and applicative competences has led to the creation of **3 dedicated Business Units**, respectively dedicated to:

**Industrial
Automation**

Automotive

**Process
Automation**

Through a network comprised of branches and exclusive distributors, Pneumax operates in over 50 countries around the world, to support its customers throughout every stage of the supply process.

3 TECHNOLOGIES

PNEUMATIC TECHNOLOGY



ELECTRIC ACTUATION



FLUID CONTROL



PROCESS AUTOMATION AND FLUID CONTROL

The Process Automation Business Unit **designs and implements suitable solutions**, aimed to the process-related sectors that require dedicated materials, such as stainless steel, or specific performance, such as operating pressure in the Oil & Gas industry.

Nowadays Pneumax comprehensive portfolio includes a **wide-ranging components** in terms of dimension, performances and materials of construction, engineered and designed in compliance with specific applications that are related, for instance, to gas treating systems (both sweet and aggressive), oil refining and other chemical and petrochemical products.



Application sectors

- Petrochemical
- Oil & Gas
- Power generation
- Water treatment





STANDARD COMPONENTS AND CUSTOMISED SOLUTIONS

- Plug & Play Manifold
- Full control systems
- Special Processing



**VALVES, SOLENOID VALVES
AND ACCESSORIES**



**AIR SERVICE UNITS
AND BOOSTER**



**COMPONENTS FOR
FLUID CONTROL**

Pneumax products are designed in compliance with international standards and implemented through certified processes that use the latest technologies for production processes and testing and prototyping operations, **guaranteeing maximum efficiency.**

The ability to also provide customised solutions, with high performance and long-term reliability, even in particularly extreme operating conditions, makes Pneumax a real added-value strategic partner.

Materials

- Stainless Steel
- Aluminium

Certifications



Machinery Directive
2014/34/UE



CU - TR 012



UL / CSA
factory mutual
approval



China
Compulsory
Certificate



Suitable up to
SIL 3



International
certification for
explosive atmospheres

VALVES, SOLENOID VALVES AND ACCESSORIES

Solutions for system
and pneumatic circuit control



The Pneumax range of valves and solenoid valves includes **316L stainless steel components of the Steel Line series** and aluminium solutions.

All products are made to guarantee maximum reliability of both the initial set-up and retrofitting stages, in all applications where excellent resistance to corrosion due to chemical and/or environmental aggression is required. In fact, these products are perfectly suitable for working with gaseous fluids, even those having an aggressive nature and at extreme temperatures.

Product families

- Spool type valves and solenoid valves
- Namur valves and solenoid valves
- Flow Regulators
- Quick exhaust valves
- Check valves
- Poppet valves

AIR TREATMENT

Units for compressed air treatment and regulation



Thanks to the **Airplus, 1700 Steel Line and Flow Plus Series**, Pneumax can provide all elements for the treatment of compressed air in stainless steel or aluminium, which can be used in a wide range of temperatures and pressures. Filter regulators, filters and volume boosters are manufactured according to the highest quality standards.

Product families

• Aluminium FR Modular Airplus

- $-40^{\circ}\text{C} < T < +80^{\circ}\text{C}$ (depending on the type of seal selected)
- Filtration up to $50\text{ }\mu\text{m}$
- Adjustment 0-12 bar
- Available in 3 sizes with flow rate up to 8000 NI/min
- Connections from $\frac{1}{4}$ " to 1" Gas and NPT

• FR 1700 Steel Line in stainless steel

- AISI 316L stainless steel components compliant with NACE MR0175 / ISO 15156/1
- $-60^{\circ}\text{C} < T < +150^{\circ}\text{C}$ (depending on the type of seal selected)
- P_{max} 60 bar
- Filtration up to $50\text{ }\mu\text{m}$
- Available in 3 sizes with flow rate up to 10000 NI/min

• Filter and Volume Booster Flowplus Series

- $-60^{\circ}\text{C} < T < +150^{\circ}\text{C}$ (depending on the type of seal selected)
- Filtration up to $50\text{ }\mu\text{m}$
- Adjustment 0-12 bar
- Available in 3 sizes with flow rate up to 8000 NI/min
- Connections from $\frac{1}{4}$ " to 1" Gas and NPT

FLUID CONTROL

Components and systems for liquid and gaseous fluid control



The Pneumax range of components designed for the control and management of liquid and gaseous fluids have been **manufactured considering suitable materials for the valve bodies (brass, stainless steel), internal components (stainless steel)** and seals (FPM, PTFE & EPDM) in order to guarantee maximum reliability even in harsh environments.

Product families

- **Pneumatic angle seat valves**
- **Pad valves**
- **Servo-assisted piston and diaphragm solenoid valves**
- **Direct acting poppet type solenoid valves**

Highlights

- ATEX versions available
- Solutions for low temperatures ($>-40\text{ }^{\circ}\text{C}$) or high temperatures ($<+140\text{ }^{\circ}\text{C}$)
- Wide range of components suitable for use with Oxygen
- cURus[®] certified solenoid coils



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