

INSIDE THE AIR TREATMENT

api-pneumatic.com



Proudly made in **Italy**



PNEUMATIC EFFICIENCY

In the industrial automation, compressed **air quality** is the real driving force behind productivity of every manufacturing sector.

Protecting pneumatic components, eliminating unexpected downtime and optimizing energy consumption are the targets that every company must hit to remain competitive.

Filtration grade from **5 µm** to **0,003 µm** protect against



Dirt
clogs orifices
wears out surfaces



Water
remove lubricant
oxidizes components



Oil
changes friction
pollutes environment

Purified air extends the operating life of your applications, eliminating solid particles, water, and oil contamination.



Starting, regulation, exhaust
control speed, repeatability
movement along all cycle



Impact on
consumption, costs,
and system safety

Properly managed air ensures precise control, performance, consumption, operational costs and safety.



Modern and compact design



3 sizes available



Easy and fast mounting



Aluminium body



Full range of regulation and filtration units

MAIN FEATURES

Specifications and benefits of our modular units for the best compressed air quality.

AIR TREATMENT MODULAR UNITS SERIES B

The **A.P.I. Series B** is the new full range of **air treatment modular units** representing the ultimate answer to guarantee maximum quality and reliability in the industrial automation systems.



The essential full treatment

Three air preparation functions in a modular group managing filtration, pressure control and lubrication.



Filters

Four progressive filtration steps: 5 - 0,3 - 0,01 - 0,003 µm for high air purity. Manual or automatic drain.



Downstream control

Safe system allows air feeding / cutoff and exhaust of downstream pressure.



Pressure control

Ensure constant flow controlling, precision and repeatability.



Safe start

Gradual pressure build-up prevents shocks.

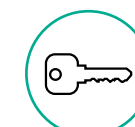


HIGH FLOW

size 2 (1/4") → 1500 NI/min

size 3 (3/8") → 2500 NI/min

size 4 (1/2") → 5000 NI/min



KEY PRODUCTS

- ➔ **Solution** for most applications
- ➔ Excellent **value** for money
- ➔ **Easy** and intuitive choice
- ➔ Wide **availability**
- ➔ **Fast** delivery



AIR TREATMENT MODULAR UNITS SERIES B

SHUT-OFF VALVES

Manual actuation

- Push&turn knob, safe and practical
- Lockable for avoid unwanted activations



Electrical actuation

- With manual override
- Safe and fast circuit shut-off

LUBRICATORS

● Oil regulation screw

Precise lubricant flow adjustment

- Inspections sight glass
360° view of oil dripping flow

- Refill during use
Oil filling does not require air interruption



"T" TYPE PORTING BLOCK

● Intermediate vent

Flexible distribution module for additional air outlets

- Secondary line management
Ideal for supplying external utilities or auxiliary circuits

- Compact design
Optimized reduced dimensions



PRESSURE-SWITCHEHS

● Compact design

Built-in to reduce overall dimensions

- Circuits
PNP or NPN, with M8 connector



KNOBS

● Ergonomics

Easy grip for precise and accurate adjustment

- Click&Lock system
Pressure lock to prevent unwanted adjustments

- Viewer ring
Red safety band to check the unlocked status



PRESSURE-GAUGES

- Built-in design
integrated for reduced overall dimensions

- Double view scale
Fast and precise analogic reading



DRAIN EXHAUSTS

- Manual
- Automatics



FILTERS AND FILTER-REGULATORS

- Maintenance
Quick and easy cartridge replacement
- Condensate drain
Manual or automatic option
- Quality and control
Ensures purified air and stable pressure



5 µm

OIL MIST SEPARATORS

- High efficiency
Remove oil aerosols and submicron solid particles
- Double cartridge option
0.3 µm and 0.01 µm filtration grades
- Condense drain
Manual or automatic option



0,3 µm

0,01 µm

ACTIVE CARBON FILTERS

- Maximum purity
Ultra-fine filtration
- Complete elimination of residues
Absolute treatment for applications that require highly pure air
- Condense drain
Manual or automatic option



0,003 µm

CUPS

- Double layer
Polycarbonate shell for greater protection
- 360° visibility
Instant monitoring of condense/lubricant from any position
- Easy maintenance
Quick disassembly and assembly without tools



SOFT-START VALVES

- Electric actuation
With bistable manual override
- Soft start
Allows a controlled pressurization of the circuit
- System safety
Prevents "water hammer" effects



HIGH FLOW

- Enlarged orifices
Maximized flow
- Performance
High performances to increase the efficiency of the entire system
- Optimized design
Improved structure to avoid pressure drops along the line





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