AirCom®

# PRESSURE & VOLUME FLOW
# MEASUREMENT & REGULATION
# AIR TREATMENT




PROPORTIONAL PRESSURE REGULATORS
PRESSURE REGULATORS
PRECISION PRESSURE REGULATORS
VOLUME FLOW BOOSTERS
COMPRESSED AIR FILTERS
PRESSURE SWITCHES
PRESSURE TRANSMITTERS
PRESSURE GAUGES
PRESSURE LIMITERS
FILTER PRESSURE REGULATORS
COMPRESSED AIR OILERS
MAINTENANCE UNITS

# WHO WE ARE

# AIRCOM PNEUMATIC GMBH:

# EXPERTS IN PNEUMATICS AND TREATING COMPRESSED AIR

AirCom Pneumatic GmbH is a reliable partner in pneumatics with a registered office in Ratingen and has offered reliable solutions for treating compressed air for decades. As a specialist for pressure and volume flow regulation of gaseous and liquid media, the company is active worldwide in the area of fittings. In so doing, technical consultation is one of the most important core competencies. Quick action and the short-term availability of many products are a matter of course for us.

Treating compressed air plays a decisive role in many fields of activity. Especially for the industrial sector, it is of great importance to use the right components to control and regulate pressure and volume flow. AirCom Pneumatic GmbH offers customised solutions for this that meet the highest requirements.

## THE AIRCOM PROGRAMME COMPRISES

- proportional pressure regulators, pressure regulators, precision pressure regulators, volume flow boosters, compressed air filters, pressure switches, pressure transmitters, pressure gauges, pressure limiters, filter pressure regulators, compressed air oilers, maintenance units
- in the pressure range of vacuums over the millibar area up to 1000 bar
- with the highest control accuracy; manually, mechanically, and electrically adjustable
- with the smallest dimensions up to heavy, robust flange design
- for compressed air and other neutral gases as well as liquids
- in various materials, such as brass, aluminium, and stainless steel
- with various certificates, such as ATEX, FDA, MOCA, EAC

**WWW.AIRCOM.NET**

# WHAT YOU CAN EXPECT




## QUALIFIED TECHNICAL ADVICE

With AirCom Pneumatic GmbH, you can expect qualified technical advice. Specialists with many years of experience in electronics, pneumatics, hydraulics, and control technology support you in selecting the equipment for your specific applications and tasks. We work with you to develop a custom solution for your application.

## ONLINE SHOP IN VARIOUS LANGUAGES AND WITH EXTENSIVE DOCUMENTATION

The extensive online shop is available to you around the clock and in many languages. Inventory and prices are updated every second. You can use a personal login to view individual discounts, agreements, etc. Instructions, certificates, and other technical documentation are available in several languages. All this information about the product is supplemented by a large CAD library.

## QUICK DELIVERY TIME, WORLDWIDE

AirCom Pneumatic GmbH can react quickly to your needs. Around 80% of our products are in stock and are sent to you within Germany by express – you'll normally receive the goods on the very next day.

If the goods you need are not in stock and the standard delivery time would jeopardise your project, we can check to determine whether a conversion option from other varieties is possible.

# COUNSELLING
# CAD DATABASE
# QUICK DELIVERY TIMES
# AFTER-SALES SERVICE
# CUSTOMER-SPECIFIC SOLUTIONS



## AFTER-SALES SERVICE

AirCom Pneumatic GmbH wants to keep you satisfied as our customer for a long time. This means we'll gladly remain available to you after the sale. This can be support during commissioning or consultation for new projects. And you can also take advantage of in-house maintenance and repair service.

## CUSTOM SOLUTIONS

Our employees design and build custom products for your application. The products are tested and documented according to a specified protocol and can be adapted directly.

We can even offer you a neutral design or 'private label' under your company name.

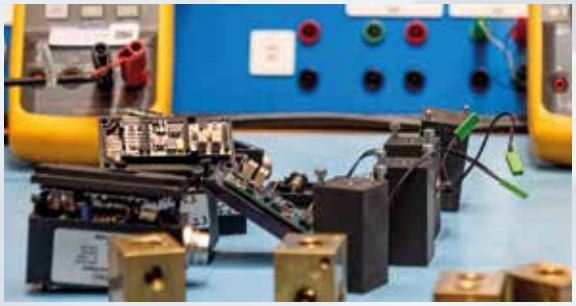
# OUR GOAL

## WITH THE RIGHT CONSULTATION FOR THE BEST SOLUTION FOR YOUR PNEUMATIC TASKS

**AIRCOM IS ABLE TO OFFER THEIR CUSTOMERS CUSTOMISED SOLUTIONS WITH A WIDE RANGE OF SPECIALISED PRODUCTS.**

Many variants of products are realisable with DIN or ANSI flanges. Moreover, AirCom offers products that have been specially cleaned and greased with special lubricants, which are especially suited for sectors such as the ventilation and painting industry. Our many years of expertise allow us to offer solutions for individual customer needs.

# REPAIR & TESTING FIELDS



## REPAIR

With AirCom Pneumatic GmbH, customer satisfaction is top priority. If a product needs repair after the sale, does not meet the required expectations, or simply must be checked after lengthy use or altered requirements, AirCom offers extensive repair and testing possibilities in their in-house workshops. Our experts, who specialise in adjusting and calibrating proportional pressure regulators, provide you with advice and assistance.



## TEST FACILITIES

AirCom has multiple test facilities in which the products are examined and tested to ensure they are operational, reliable, and free from defects.

The test facilities are also used for complex assignments given by the customer. Special requirements can be simulated there under real usage conditions, including long-term tests, among other things. Flow and leakage curves for various applications can be recorded on request.

Obviously, the testing and measuring materials used are calibrated annually.

# OF OUR FIELDS OF ACTIVITY

**THANKS TO ITS EXTREMELY BROAD AND DIVERSE RANGE OF PRODUCTS, AIRCOM IS REPRESENTED IN VARIOUS AREAS OF THE INDUSTRY.**

**IT HAS ALREADY COLLABORATED SUCCESSFULLY WITH A GREAT NUMBER OF RENOWNED CUSTOMERS IN ALL THE WORLD WITH VARIOUS CHALLENGES.**

**THE LARGEST SECTORS IN WHICH AIRCOM CAN BRING ITS COMPETENCE AND EXPERIENCE INCLUDE:**



## ENGINEERING

You'll find AirCom devices particularly in testing and tool machines, in presses, welding and soldering devices, in aggregates, compressors, in hydraulics and pneumatics, in balancers, and in mixing, weighing, and filling equipment.

## PLANT ENGINEERING

AirCom products are in demand in mechanical and plant engineering with various requirements. AirCom devices are represented in the area of textile machines, printing machines, in the glass industry, in leakage measurements, in packaging machines, and in plant engineering overall.

## MEDICINAL TECHNOLOGY

Both in hospital gas supply and in patient-oriented devices – medicinal technology is a diverse field in which AirCom devices are used (including for many different gases). This especially includes the fields of dental, ventilator, and laboratory medicine, and ozone technology and dialysis.

## AEROSPACE AND VEHICLE TECHNOLOGY

In these fields of activity, many AirCom devices find their place in special applications. Whether in engine and turbine test benches, in paint systems of all major automobile manufacturers, or in the series production of engine components. Due to their great variety, AirCom devices are used repeatedly in cars and trucks.

## PHARMACEUTICAL AND CHEMICAL INDUSTRY

AirCom devices meet the many necessary requirements, such as various types of elastomers, FDA certificates, and ATEX certificates. Our consulting technicians will be glad to support you with their experience when you select the devices.

# STAINLESS STEEL DEVICES

## PROPORTIONAL PRESSURE REGULATORS



### R3000

**Standard pressure regulator, many varieties**
for gases and liquids
ATEX, FDA, EAC, -40°C to +130°C
input pressure max. 60 bar
control ranges up to 50 bar



### R3100

**Low-pressure regulator**
for compressed air or gases
ATEX, FDA, EAC, -40°C to +130°C
input pressure max. 10 bar
control ranges from 5 mbar



### D3000

**Pressure relief valve**
for gases and liquids
ATEX, FDA, EAC, -40°C to +130°C
excess pressure max. 70 bar
setting ranges up to 50 bar



### B3000

**Filter pressure regulator**
for many gases
ATEX, FDA, EAC, -40°C to +130°C
input pressure max. 80 bar
control ranges up to 50 bar

### PQ

**very precise 0.2%**
simple or overlaid return
control ranges vacuum,
0…5 mbar to 0…35 bar



### PP

**programmable**
G⅛ to G1
made of brass, aluminium, or stainless steel
also for oxygen, various control ranges possible



### PRE

**Piezo**
very fast
low power consumption
control areas vacuum,
0…200 mbar to 0…16 bar



### PT6

**for the EX area**
with nozzle baffle plate
0.5% or 1% accurate
control ranges up to 8 bar



# MINIATURE PRESSURE REGULATOR

# HIGH-PRESSURE REGULATOR



## 231/239

**in-line**
with non-adjustable
output pressure, 1/2/.../8 bar
G¼ and ¼″NPT
input pressure max. 18 bar

## RH1

**small design**
for gases or liquids
⅛″NPT and ¼″NPT
input pressure max. 414 bar
control ranges up to 124 bar





## R037

**with FDA seal. Materials**
also for liquids
G⅛ and G¼
input pressure max. 16 bar
control ranges up to 12 bar

## R120

**made of brass, varied**
G⅛ to DN100, -40°C to +130 °C
input pressure max. 50 bar
control ranges up to 50 bar



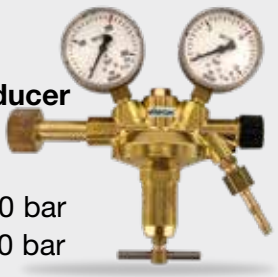


## R364

**made of brass**
for gases or liquids
G⅛ and G¼, ⅛″NPT and ¼″NPT
input pressure max. 21 bar
control ranges up to 11 bar

## RH200/300

**Cylinder pressure reducer**
single or double-stage
for many gases
input pressure 200/300 bar
control ranges up to 40 bar





## R308

**Precision regulators flangeable**
also for oxygen
input pressure max. 10 bar
control ranges
0…250 mbar to 0.2…8 bar

## HP300

**stainless steel or brass**
for gases or liquids
¼″NPT
input pressure max. 690 bar
control ranges up to 414 bar



# PRECISION PRESSURE REGULATORS

# VOLUME FLOW BOOSTERS



## 10

**very precise**
also free of non-ferrous metals
input pressure max. 35 bar
control ranges
1…140 mbar to 0.3…28 bar

## RGB4-J

**for low pressures**
very precise,
for compressed air or gases
input pressure max. 4 bar
control range 5…350 mbar





## R300

**small and light design**
good control behaviour
input pressure max. 18 bar
control ranges
1…140 mbar to 0.14…7 bar

## RLM/RLE

**stainless steel or brass**
-40°C to +130°C
input pressure max. 100 bar
control ranges up to 99 bar





## R03

**large ventilation**
good response sensitivity
suitable for lifting equipment
input pressure max. 16 bar
control ranges up to 10 bar

## R119-J

**large volumetric flow**
up to 6600 m³/h
G¼ to G3
control range 0.2…18 bar





## R102

**large volumetric flow**
Up to 1800 m³/h
input pressure max. 35 bar
control ranges
1…700 mbar to 0.14…10 bar

## R450

**very precise**
1:1 to 1:3 and 2:1 to 3:1
input pressure max. 17 bar
control range 0…10 bar





These and many other articles can be found under www.aircom.net in our online shop.

# LOW-PRESSURE REGULATORS

# COMPRESSED AIR FILTERS

## R01



**small design**
for compressed air or gases
permanently set to 50 mbar or
control ranges from 20 mbar

## FH

**For liquids and gases**
made of plastic
FDA
pore width 5 µm to 300 µm



## R160/ R161



**for many gases**
ATEX, FDA
G½ to G2, also NPT
input pressure max. 10 bar
control ranges from 5 mbar

## F3000

**Made of stainless steel**
for many gases, $P_1$ max. 80 bar
ATEX, FDA, EAC
-40°C to +130°C
pore width 0.01 µm, 5 µm and 50 µm



## R110



**from 2 mbar**
very precise
Relatively small dimensions
input pressure max. 10 bar

## F602

**wide range of connections**
up to G2½ or flange
pore width 5 µm and 40 µm
operating pressure max. 21 bar



## R4100



**reversible**
no air consumption
input pressure max. 10 bar
control ranges from 2 mbar

## FG

**Pre, fine**
**and activated carbon filters**
cast aluminium
up to G3
pore width 0.01 µm, 1 µm and 3 µm



# VOLUME FLOW REGULATOR

# STANDARD PRESSURE REGULATOR



## PVM/PVR

**mass flow rate Measuring and control devices**
for many gases, up to G1
Measuring and control ranges
Up to 5000 l/min

## RD

**made of aluminium**
G1⁄8 to G2
input pressure max. 30 bar
control ranges up to 15 bar





## PV

**Proportional actuator**
For gases or liquids
G1⁄8 to G1
volume flow up to 185 l/min

## RS

**Lockable pressure regulator**
Made of die-cast zinc
G1⁄8 to G1
input pressure max. 16 bar
control ranges up to 16 bar





## P8

**motor-controlled**
for gases or liquids
analogue setpoint specification
G1⁄8 to G1
volume flow up to 3500 l/min

## R119

**wide range of connections**
up to G3, up to 6600 m³/h
input pressure max. 21 bar
control ranges up to 17 bar





## RF/R-0

**fixed throttles made of plastic and brass**
microfilter, check valves
Nominal width: 0.06 mm to 0.64 mm (RF), 0.08 mm to 1.02 (R-0)

## R21/R31/R41

**Manual regulator with 270° hand wheel**
G¼ to G2
input pressure max. 21 bar
control ranges 0…3 bar and 0…11 bar





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# VACUUM PRESSURE REGULATOR
# PRESSURE SWITCHES



## V800

**miniature made of plastic**
thread or
flange design
control ranges -350…0 mbar
and -800…0 mbar

## DS16 ... DS18



**varied**
made of steel or stainless steel
excess pressure max. 600 bar
measurement ranges
0.1…1 bar to 50…200 bar



## R251

**very precise**
Made of die-cast aluminium
input pressure max. 17 bar
control ranges
-1…+0.7 bar to -1…+10 bar

## DSP



**for vacuum**
**and low pressures**
also for the EX area
measuring ranges from 5 mbar



## PP

**Proportional pressure regulators**
digital regulation
up to -1 bar (vacuum)
relative or absolute pressure

## F4200



**Small pressure and**
**vacuum switch**
made of plastic
complies with FDA regulations
Various assembly possibilities



## V0

**Vacuum breaker**
G⅛ to G1
compressed air or neutral gases
control ranges
-1…-0.3 bar and -1…0 bar

## PP/VP700



**with pneumatic output**
Pressure and vacuum switch
made of plastic
complies with FDA regulations

# PRESSURE TRANSMITTERS
# PRESSURE GAUGE AND DISPLAYS



## D3

**Differential pressure transmitters**
Shock resistance 100 g (11 ms)
14-32 V DC
measuring ranges up to -1… 1 bar



## D1

**miniature**
made of stainless steel
for compressed air, gases or liquids
measurement ranges
-50…600 bar to -1…600 bar



## DA

**very precise 0.1%**
ATEX,
up 150°C measurement ranges 0…50 mbar to 0…1000 bar



## DSB

**Electronic converter / switch**
with digital display
measurement ranges
0…-1 bar to 0…12 bar

## MHA



**Digital hand pressure gauge**
for mobile use
pressure, vacuum, differential pressure
measurement ranges 0…1 mbar to 0…10 bar

## MKA



**digital**
**Built-in pressure gauge**
pressure, vacuum, differential pressure
measuring ranges
0…1 mbar to 0…10 bar

## MA

**Surface-mounted pressure gauge**
made of plastic
Ø 23/40/50/63 mm
Connection in the middle of the reverse side
G1/8 to G¼



## MS

**Surface-mounted pressure gauge**
made of stainless steel
Ø 40/50/63 mm
Connection in the middle of the reverse side
G1/8 to G¼



# SPECIAL DEVICES

# PRESSURE LIMITERS



## 239K

**In-line pressure regulator**
for drinking water
with permanently set
output pressure, 1/2/...8 bar
G1/4 and ¼″NPT
input pressure max. 15 bar

## DBM

**made of brass, varied**
for many gases or liquids
ATEX, -40°C to +130°C
excess pressure max. 65 bar
setting ranges up to 50 bar





## RAI

**Standard pressure regulator**
made of stainless steel
for aggressive liquids
input pressure max. 40 bar
G½ to G2

## 10BP

**very precise**
also free of non-ferrous metals
excess pressure max. 35 bar
Setting ranges
1…140 bar to 0.3…28 bar





## AM/AP

**Pressure increaser**
transmission ratio up to 1:10
with/without storage
output pressure from max. 20
bar to 100 bar

## DB110

**for low pressures**
very precise
excess pressure max. 10 bar
setting ranges 2…35 mbar
to 2…800 mbar





## Q

**pinch valves**
made of POM, die-cast alu-
minium, or stainless steel
ATEX, FDA
G¼ to DN50

## DB208/ DB450

**pilot-controlled**
very precise
for compressed air or gases
excess pressure max. 17 bar
control range 0…10 bar



# FILTER PRESSURE REGULATORS
# COMPRESSED AIR OILERS



## B3000

**made of stainless steel**
for many gases, $P_1$ max. 80 bar
ATEX, FDA, EAC
-40°C to +130°C
control ranges up to 50 bar

## L606

**wide range of connections**
up to G2 or flange
up to 2 litre container
input pressure max. 21 bar





## BD

**wide range of connections**
up to G2 or flange connection
input pressure max. 30 bar
control ranges up to 15 bar

## LD

**made of aluminium**
container up to 24 litres
G⅛ to G2
input pressure max. 30 bar





## B300

**up to -40 °C**
¼″NPT
5 µm and 40 µm
control ranges up to 8 bar

## L3000

**made of stainless steel**
G¼ to G2
ATEX, FDA, EAC
-40°C to +130°C
input pressure max. 50 bar





## B0

**made of plastic**
affordable
G¼ to G1
with semi or
fully automatic drain

## L0

**made of plastic**
affordable
G¼ to G1
ideal for compressed air tools
input pressure up to 16 bar



# MAINTENANCE UNITS

# SPECIAL SOLUTIONS



## C630

**3 parts**
wide variety of connections
up to G2 or flange
control ranges up to 17 bar

## VALVE UNIT

**Valve unit**
with pressure regulator
and pressure switch





## CD

**up to 30 bar inlet pressure**
2 and 3 parts
G⅛ bis G2
control ranges up to 15 bar

## PINCH VALVE

**Pinch valve**
with switching valve





## C3000

**made of stainless steel**
2 and 3 parts,
ATEX, FDA, EAC
-40°C to +130°C
input pressure max. 50 bar

## CONTROL PATH

**Valve unit**
with pressure regulator
and pressure switch





## C2/ C3

**made of plastic**
affordable
2 and 3 parts
varied
input pressure up to 16 bar

## COMBINATIONS

**Combination**
with proportional valve
volume flow booster



# QUALITY ASSURANCE



# NO SUCCESS WITHOUT QUALITY AND KNOWLEDGE!

This simple formula acts as a guiding principle for AirCom.

The customer is satisfied only when flawless goods are delivered. And the quality lies in the structure of the company. Optimal work processes, qualification of the employees, screening of suppliers. These points are daily business for AirCom and account for the company's success.

## QUALITY ASSURANCE

AirCom works in compliance with guidelines and in accordance with acknowledged standards for product and service quality. To that end, the company places great value on the consistent implementation of first class quality management in accordance with ISO 9001. It also values protecting the environment and handling resources responsibly, both of which now belong to our daily tasks due to an established environmental management system.

For both systems, AirCom performs regular audits and was cetified by TÜV NORD in accordance with ISO 9001:2015 and ISO 14001:2015.

For quality management purposes, AirCom also strictly implements data privacy in accordance with the GDPR and the Federal Data Protection Act [BDSG], has successfully completed a data privacy audit, and is advised and reviewed by an external data protection officer on a regular basis.

# TESTING CERTIFICATES

Quality and compliance with statutory and standards-based requirements are paramount for AirCom and are firmly anchored in the company's self-image. To ensure that all products meet quality standards and that people and the environment are protected, all products are examined and tested for compliance. AirCom would be glad to provide you with test certificates to support you in complying with your documentation requirements.

By request, or directly in the online shop, the following and other documents can be issued or accessed:

- Factory certificate 2.1 in accordance with DIN EN 10204
- Factory certificate 2.2 in accordance with DIN EN 10204
- Acceptance test certificate 3.1 in accordance with DIN EN 10204
- Declaration of conformity for materials and objects that come into contact with foodstuffs (MOCA)
- FDA approval
- NSF approval
- ATEX approval
- Manufacturer's declaration for the purposes of the Pressure Equipment Directive (PED) 2014/68/EU
- RoHs declaration of conformity
- EU Regulation 1907/2006 'REACH'
- EAC declaration of conformity



**WITH AIRCOM, YOU CAN BE SURE THAT YOU ARE NOT ONLY BUYING A PRODUCT, BUT THAT YOU ALSO HAVE A RELIABLE PARTNER ON YOUR SIDE WHO SEES TO YOUR NEEDS AND REQUIREMENTS.**

**AIRCOM PNEUMATIC GMBH**

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**YOU CAN ALSO VISIT US HERE:**