



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:

A vertical industrial pipe or column is visible on the left side of the page, with a label that reads "58.5 bar". The background is a light, faded image of industrial equipment.

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

PQ

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

PP

programmable
G $\frac{1}{8}$ to G1
made of brass, aluminium, or
stainless steel
also for oxygen, various control
ranges possible



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

PRE

Piezo
very fast
low power consumption
control areas vacuum,
0...200 mbar to 0...16 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

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
G $\frac{1}{4}$ and $\frac{1}{4}$ "NPT
input pressure max. 18 bar

RH1

small design

for gases or liquids
 $\frac{1}{8}$ "NPT and $\frac{1}{4}$ "NPT
input pressure max. 414 bar
control ranges up to 124 bar



R037

with FDA seal. Materials

also for liquids
G $\frac{1}{8}$ and G $\frac{1}{4}$
input pressure max. 16 bar
control ranges up to 12 bar

R120

made of brass, varied

G $\frac{1}{8}$ to DN100, -40°C to +130 °C
input pressure max. 50 bar
control ranges up to 50 bar



R364

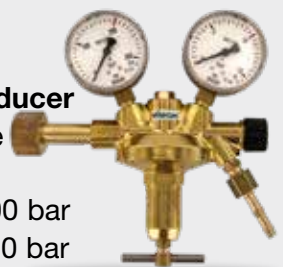
made of brass

for gases or liquids
G $\frac{1}{8}$ and G $\frac{1}{4}$, $\frac{1}{8}$ "NPT and $\frac{1}{4}$ "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
 $\frac{1}{4}$ "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



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, P₁ 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
G $\frac{1}{8}$ to G2
input pressure max. 30 bar
control ranges up to 15 bar



PV

Proportional actuator
For gases or liquids
G $\frac{1}{8}$ to G1
volume flow up to 185 l/min

RS

Lockable pressure regulator
Made of die-cast zinc
G $\frac{1}{8}$ to G1
input pressure max. 16 bar
control ranges up to 16 bar



P8

motor-controlled
for gases or liquids
analogue setpoint specification
G $\frac{1}{8}$ 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
G $\frac{1}{4}$ to G2
input pressure max. 21 bar
control ranges 0...3 bar and 0...11 bar



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
G $\frac{1}{8}$ 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

MHA

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



D1

miniature

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

MKA

digital Built-in pressure gauge

pressure, vacuum, differential pressure
measuring ranges
0...1 mbar to 0...10 bar



DA

very precise 0.1%

ATEX,
up 150°C measurement
ranges 0...50 mbar to
0...1000 bar

MA

Surface-mounted pressure gauge

made of plastic
Ø 23/40/50/63 mm
Connection in the middle
of the reverse side
G $\frac{1}{8}$ to G $\frac{1}{4}$



DSB

Electronic converter / switch

with digital display
measurement ranges
0...-1 bar to 0...12 bar

MS

Surface-mounted pressure gauge

made of stainless steel
Ø 40/50/63 mm
Connection in the
middle of the reverse side
G $\frac{1}{8}$ to G $\frac{1}{4}$



SPECIAL DEVICES

PRESSURE LIMITERS



239K

In-line pressure regulator
for drinking water
with permanently set
output pressure, 1/2/...8 bar
G1/4 and 1/4"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
G1/2 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
G1/4 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, P₁ 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
G¹/₈ to G2
input pressure max. 30 bar



B300

up to -40 °C
1/4" NPT
5 µm and 40 µm
control ranges up to 8 bar

L3000

made of stainless steel
G¹/₄ to G2
ATEX, FDA, EAC
-40°C to +130°C
input pressure max. 50 bar



B0

made of plastic
affordable
G¹/₄ to G1
with semi or
fully automatic drain

L0

made of plastic
affordable
G¹/₄ 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
G $\frac{1}{8}$ 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 certified 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.



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YOU CAN ALSO VISIT US HERE:

