Air Supply Management. An Overview Of Compressed Air Preparation And Accessories



AVENTICS™ Air Supply Management

As individual as your application. The best in compressed air preparation, well-designed down to the last detail.

EMERSON™

Competent and well-designed down to the last detail – compressed air preparation

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Perfection is our business

The ever-increasing complexity and sensitivity of pneumatically controlled work processes continually redefine the requirements for compressed air preparation. Emerson confronts this challenge with comprehensive air supply management to cover any need.

Our comprehensive range of perfected air preparation technology offers customized solutions to provide optimum compressed air quality in a highly diverse range of applications and work environments. All components and every single detail in this extensive program follow our strategic product philosophy and are set apart by the same high standards in terms of quality and design.

- Functionality
- Modularity
- Quality and design

All the components are perfectly adapted to each other, from the air preparation unit series with all conceivable functions for modern compressed air supply to the tubing and fittings. Thanks to this solid foundation, we can always find the right solution and use our application-
oriented experience that has been cultivated over decades. Continued development of our program and innovative measures to increase energy efficiency provide us with decisive advantages for the future and certain additional benefits that are synonymous.



Modern air preparation is a complex system. It not only ensures the right pressure, but is also responsible for the lasting quality of the air.

The right air supply management for every application

Insight, overview, outlook

This brochure will assist you in finding the right systems and components for your demands, and includes information on the most important functions, preferred application areas, and product characteristics.

A summary of the program at the end of the brochure serves as an introduction to our detailed catalog.

A comprehensive program with all the fine points

Emerson customers can always find a suitable solution for compressed air preparation, no matter how unusual the task. This fact is the basis for our enormous product program.

It is tailored to the diversity of pneumatic applications working under the most varied conditions and covers everything from air generation down to the individual actuator. We offer air preparation units with every possible function, tubing, sensors, system fittings, and assembly material. Systems with nominal flows of up to 50000 l/min. and with connection diameters from 3 mm to 2" threads are no problem. We've got it all!

We have sub-divided the program into three basic areas to give you a better overview:

- Compressed air preparation
- Assembly material
- Flow and check valves

Configurations made easy

Featuring many individual functions, the air preparation units are the core for compressed air preparation and have a modular design. As a result, you can configure fully customized systems to precisely fit your respective need. In addition to a personal consultation with one of our experts, customers can use our proven online tools for fast and exact configuration.

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Compressed air preparation

Air preparation units


AS1


AS3


AS2


AS5


651


652


653


PR1


MU1


MH1

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Pressure gauges


PG1-SAS


PG1-SAS-ADJ


PG1-SNL


PG1-DIM

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Pressure sensors


PE5


PE6


PE7


PM1

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Assembly material

Push-in fittings


QR1-S-Mini


QR2-S-Standard


QR1-S-Standard


QR2-C-stainless steel

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Fittings with tube nuts, couplings, silencers an other products


CP1


FPT


CP2


SI1



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Plastic tubing


TU1


TU2


TU3

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Flow and check valves

Flow and check valves, throttle valves and non-return valves, other valves


CC01


CC02-SL


CC02


CC04


CH01


CH02


NR01


NR02


Qucik exhaust valves


Stop valves

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651, 652, 653 series universal air preparation units for the most demanding of environments

With the AVENTICS 651, 652, 653 series, Emerson offers an extremely flexible and modular air preparation unit concept that is put to use in its particularly robust design. These units can deal with the most difficult ambient conditions and are reliable and precise in all applications and industries.

Functional reliability and a long service life

A true solution for outstanding pneumatic control reliability, the air preparation units ensure a long service life. The precise control provides just the right pressure for optimized energy consumption. The differential pressure indicator on microfilters makes sure you can replace your filters in good time, boosting efficiency. These are just a few examples showing how sophisticated the series is, with a solution for every application.

- Simple assembly no matter the installation conditions
- Condensate drain manual, semi, or fully automatic
- Bayonet catch for easy handling
- Fine-tuned filter properties for every use
- Contamination display for prefilter and microfilter
- Oil level indicator
- Large inspection windows
- Reservoir made of metal with optional inspection glass
- Certified to ATEX and CUTR
- Standard temperature range -20 to +50°C (-40 to +80°C optional)
- Compressed air connections with G, NPT, & Rc thread
- Stainless steel fastening elements
- Tamperproof and lockable

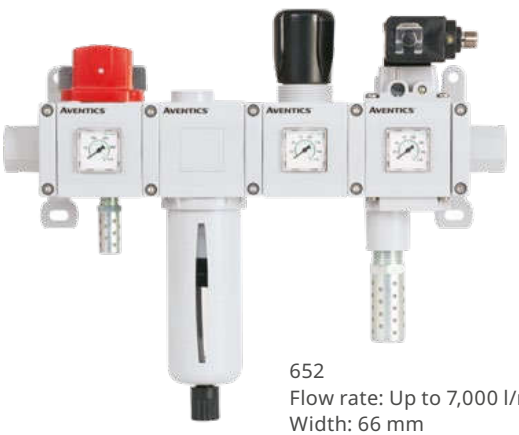
Air preparation units are in top-form for all areas: as individual components or assembled air preparation units, for centralized or decentralized compressed air preparation, in compact or powerful versions, for use in high or low temperatures.

Quality that grows to fit your needs

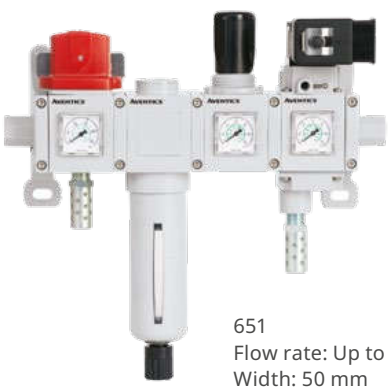
This line offers you complete, customizable compressed air preparation technology. It includes an option to combine every component in the series to achieve the desired function, making it possible to adjust the components precisely to the application requirements. The system includes everything from 1/8 to 1" connections, can handle a flow rate of up to 11,500 l per minute, comes with filter element sizes as small as 0.01 µm and can withstand nominal pressures of up to 16 bar.



653
Flow rate: Up to 11,500 l/min.
Width: 90 mm



652
Flow rate: Up to 7,000 l/min.
Width: 66 mm



651
Flow rate: Up to 2,060 l/min.
Width: 50 mm

AS series – our ace in the hole for perfect compressed air

All functions, all sizes – the modular versatility of the AS series air preparation units enable universal application. They have compact dimensions; are highly efficient; light and easy-to-use design; guarantee reliable, safe, and economical continuous operation with simplified assembly and maintenance efforts.

Everything that is possible – everything that is needed

The air preparation units in the AS series not only perform the standard functions of filtration, regulation, and lubrication, they also allow for the integration of specific function requirements such as shut-off valves, filling valves, distributors, and non-return valves. They are set apart by excellent performance data, high flexibility, and exceptional energy efficiency, all thanks to optimized condensate drain valves, finely-tuned filter element sizes, and smooth and precise pressure regulators.

AS series highlights

SV03-AS2 series



- 3/2 directional safety valve
- Category 4 PL e
- Safe exhaust and protection against unexpected startup
- Modular integration in AS2 series air preparation units
- Compressed air connection: G1/4

EV12, EV18 series

- Electropneumatic pressure regulator with high flow
- Can be integrated into AS3/AS5 series air preparation unit or stand-alone solution
- On-board parameterization
- Tamperproof
- No pressure loss in case of a load



The AS series can be integrated almost anywhere. It can be found in many different industries – modular, compact and with an award-winning design.

Well-equipped for any need with just four series

The AS series covers the entire range up to a flow rate of 14,500 l/min. With its award-winning industrial design, it is sure to convince you with its compact construction and use of modern materials. The assembly widths can be very small and high-quality polymers make the air preparation units very light, yet sturdy. Incorporating sophisticated technology and many fully automatic functions, reduce assembly and maintenance tasks to a minimum. It is no problem to exchange individual elements or expand the system at a later point, even when installed.



AS3
Flow rate: Up to 5,200 l/min.
Width: 63 mm

product design award 2006



AS5
Flow rate: Up to 14,500 l/min.
Width: 85 mm



AS1
Flow rate: Up to 1,000 l/min.
Width: 43 mm



AS2
Flow rate: Up to 2,700 l/min.
Width: 52 mm

The best in compressed air preparation

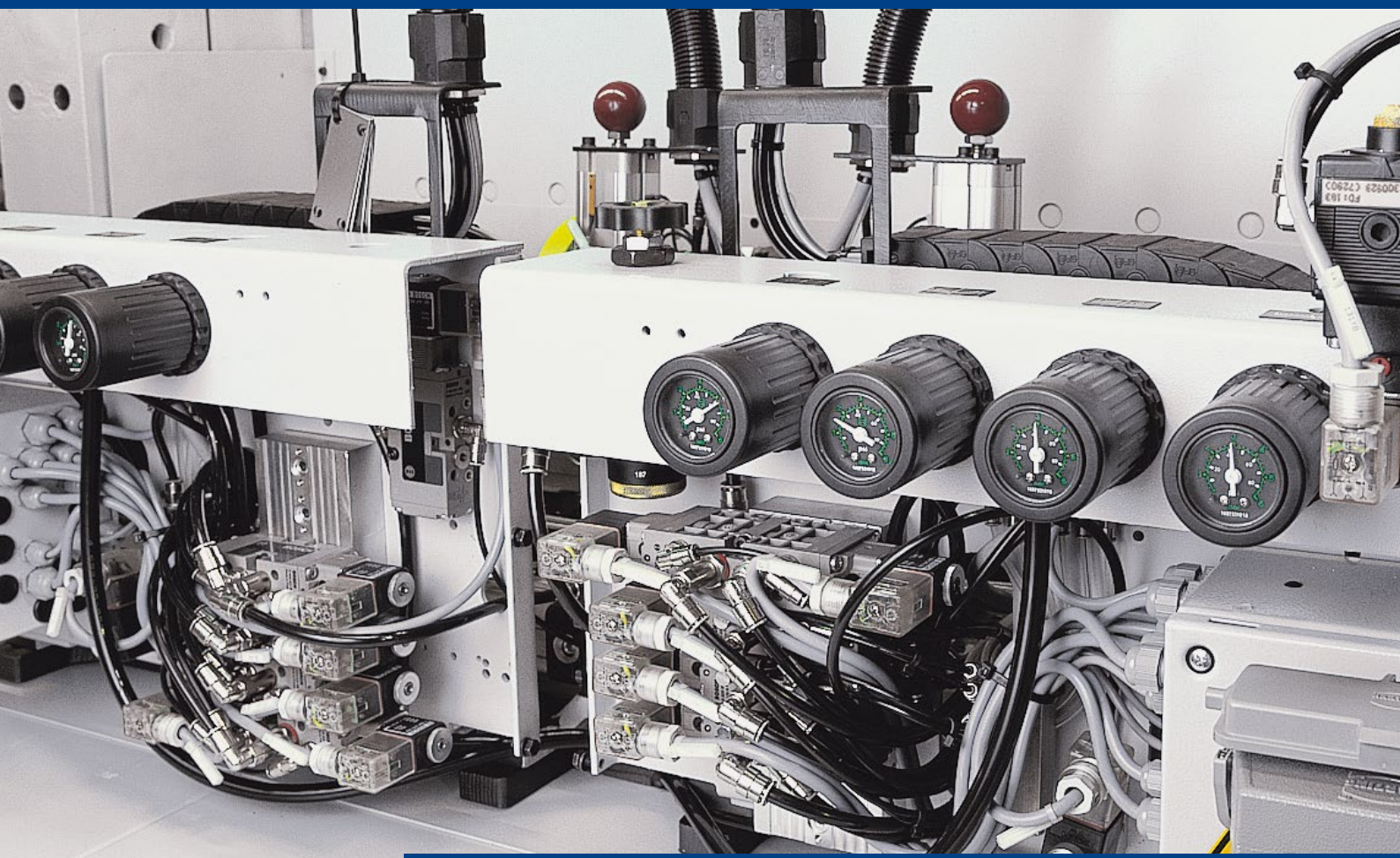
Whether 651, 652, 653, AS, NL, MU or PR – Emerson only offers the very best for your specific needs. Each series has its special strengths and can be used in your application in a targeted manner no matter how varied your needs for compressed air preparation may be.

Series	AS	651/652/653	MU	PR
Functionality	++	++	+	+
Component variety	++	++		
Modularity	++	++		
Flow rate	++	+	++	O
Robustness	+	++	++	+
Light weight	++	+		
Easy-to-service	++	++	+	+
Temperature range	+	++	++	+
Modern design	++	+		O
Energy efficiency	++	++	O	++

++ Highly recommended + Recommended O Suitable

Industry, application, task, ambient conditions – the most important criteria

“Not better or worse, just different” is the best way to describe the variations between the individual series. The decision for a task-specific series for compressed air preparation depends on many factors. With AVENTICS’ program, you have all the options needed to optimally fulfill your specific requirements.



Perfect control, even with the highest flow rates.

MU1 series

MU1 series components are always the perfect choice for applications in tough environments where large dimensions, thread connections or flow rates are required.
The largest connection G2 (2") enables a compressed air flow rate of up to 25,000 l/min. and provides reliable filtration, regulation, and lubrication.



MU1

PR1 series

The precision pressure regulators in the PR1 series are ideal for applications that demand fast responses to the slightest fluctuation in compressed air. They can be adjusted exactly and are a good alternative to electronic pressure regulators.



PR1

PG1 series pressure gauges

An eye on everything and under control at all times. You must be able to rely on a clearly visible air pressure display for each of your pneumatic circuits. After all, in addition to the parameters for controlling the air quality, supplying sufficient pressure is the most basic factor for reliable system operation. Emerson has the right mechanical pressure gauges that can be specifically integrated into machines for diverse applications and with various air preparation systems. The specifications of the individual versions in the universal PG1 series provide a selection of options, such as appearance, material, or the required type of mounting.

PG1-SAS



PG1-SAS-ADJ





PG1-SNL



PG1-DIM

The right sensors – to achieve the right pressure

As automation technology becomes more complex and sensitive, the need for intelligent solutions grows as well. Sensors that are able to measure and regulate with precise timing are becoming increasingly more important, as they ensure improved precision, economy, and energy efficiency.

Pressure sensors and switches for all fields of work

Depending on the application and individual components, Emerson uses the appropriate sensors and switches to measure pressure changes in the system – both electronically and electromechanically.

- Sensors and switches for both pressure and vacuum
- Switching pressures from -1 to 40 bar
- Proven connection technology

Series	PE5	PE6	PE7	PM1
Switching pressure range	++	+	++	++
Output signal	++	+	++	
Easy to use	++	+	++	○
Diagnosis	++		++	
Error detection	++		++	
Accesso protection	++		++	
PWIS-free	++			
Robustness	+	+	++	++
Light weight	++	++	+	○

++ Highly recommended + Recommended ○ Suitable

Smart flow rate sensors for optimized energy efficiency

Flow rate sensors allow air consumption monitoring, enabling fast action in case leaks are detected. The flow rate sensors determine not only the flow, but also the current pressure in the feed line, enabling advanced diagnosis of the system operating parameters.



Everything under control – to achieve the right pressure.
Many applications permit almost no pressure deviations for the work processes and demand exacting switching and repetitive precision.

PM series

PM series electromechanical pressure switches are a suitable alternative for many applications. The switching point can be easily adjusted by hand and reliably fixed using the adjustment screw. The switching point is continuously adjustable, even during operation.



PM1

PE series

PE series electronic pressure sensors are a reliable solution for almost any application. They can be integrated into existing machine configurations and are characterized by excellent switching and repetitive precision. The latest generation of the universal PE5 pressure sensors offers the greatest convenience thanks to its many innovative design details.

- Large display with three zones
- Ergonomically arranged control panel
- Intuitive menu navigation



PE5



PE6



PE7

AF2 series

The Emerson AVENTICS Series AF2 flow sensor monitors air consumption in pneumatic systems, enabling actionable insight around air consumption and leakage. The leakage rate can be monitored by looking at the used air volume, so leaks can be diagnosed early and addressed before they become a major issue. By giving customers actionable insight on machine data such as flow, pressure and temperature, the AF2 helps to optimize energy consumption, prevent machine downtime and reduce costs.

- Large measurement range and integrated pressure sensor enable a broad spectrum of applications
- Wide range of customizable analog and switch outputs
- Comprehensive communication options via IO-Link, Analog, OPC UA or MQTT enables ease of networking
- Large OLED display for excellent readability
- High flexibility for system integration, easy assembly and handling
- For installation in air preparation units or as standalone. Standalone high flow variants for installation in pipe systems



AF2

The fast and easy way
QR push-in fittings

The perfect connenction for any occasion

QR series push-in fittings can be used with tubing diameters from 3 to 16 mm and are available in polymer, metal, and stainless steel versions. As a result, you can always find the suitable fitting for the most varied applications and industries.

Series	QR1-S-mini	QR1-S-standard	QR2-S-standard	QR2-C-stainless steel
Product variants	++	++	+	++
Compactness	+	++	+	
Pressure resistance	+	++	+	O
Temperature resistance		++		
Tube connection in acc. with ISO 14743	+	++		
O-ring seal in acc. with ISO 16030	+	++		
Weight		++		

++ Highly recommended + Recommended O Suitable

A reliable connection with quick release

Flexibility has top priority with the QR series. This is apparent not only by the numerous shapes and sizes, but also by the easy reconfiguration of the connections. Pneumatic tubing is just as easy to release as it is to securely connect – you just need to plug or unplug it.
A captive O-ring lets you release the connection many times with little force. Even the smallest fittings for tubing with a diameter of only 3 mm are easy to handle, since they have an expanded gripping surface provided by the oval release ring.

- Optimum sealing with a captive O-ring
- Straight, angled, T/Y/X form, multiple connections
- Pneumatic connection with cylindrical thread
- Complete fitting program



Leak-tight and reliable. This is made possible with the simple, yet brilliantly designed, push-in fittings in our QR series. Assembly and disassembly have never been so easy.

QR1-S mini, QR1-S standard

The QR1 consists of the “mini” series, for 3 to 6 mm diameter tubing, and the “standard” series, for 4 to 12 mm tubing. With numerous versions, QR1 fittings offer universal application options and, thanks to their compact design, are ideal for small handling tasks.



QR2-S standard, QR2-C stainless steel

QR2 consists of the “standard” (metal) program, for 4 to 16 mm diameter tubing and the “stainless steel” program, for 4 to 12 mm tubing. They are ideal for the food industry and areas with aggressive media (robust version).



Strong hold with optimal sound insulation – pneumatic couplings and silencers



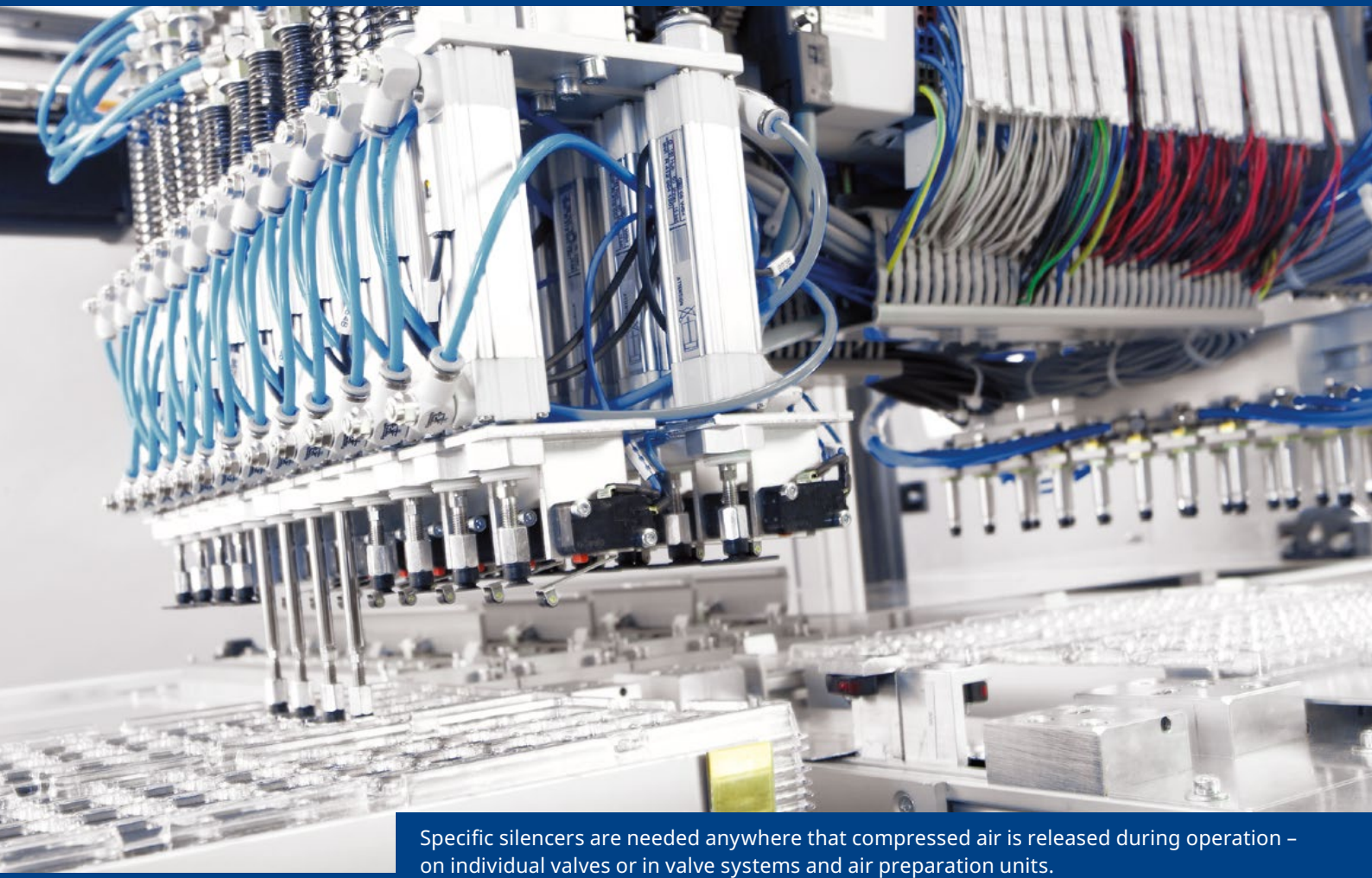
Couplings and fittings

Connecting plug and coupling quickly and reliably with just one hand is today's standard in the pneumatics industry. Emerson offers a wide variety of connection technology options, flow rates and functions, and provides the right solution for all your connection tasks.



Silencers

Silencers are used to decrease the pressure of escaping air and reduce noise. This reduces stress on the machines and components, and also improves working conditions. Excessive noise is not only annoying, it is also a proven cause of illness.



Specific silencers are needed anywhere that compressed air is released during operation – on individual valves or in valve systems and air preparation units.

SI1 series silencers

These wide-ranging locations demand a large number of different silencer types. AVENTICS SI1 series has everything you need: polymer or metal versions, with pipe stems (from 4 to 14 mm diameter) or threaded couplings (from M5 to G1).



SI1 with pipe stem



SI1 with burst protection



SI1 sintered bronze



SI1 polyethylen

CP series couplings

The range of couplings is also ready for any demand and includes everything from a standard lock coupling with various connection types to safety couplings and special multi-couplings.



CP1



CP2

FPT series other fittings

Blanking plugs and connectors in many shapes and with tailored connections are some of the small things that add up to a functional whole, thanks to a wide and comprehensive assortment of products.



Blanking plug FPT



Double-nipple-fitting FPT

Polymer tubing for all conditions

Series	TU1-...-PUR	TU1-S-PAM	TU1-S-PET	TU1-S-TEF	TU1-S-PVC
Pressure resistance	+	++	+	+	+
Temperature resistance	+	+	+	++	O
Media resistance	+	+	++	++	O
Flexibility (resistance to bending)	++	+	+	O	O

++ Highly recommended + Recommended O Suitable

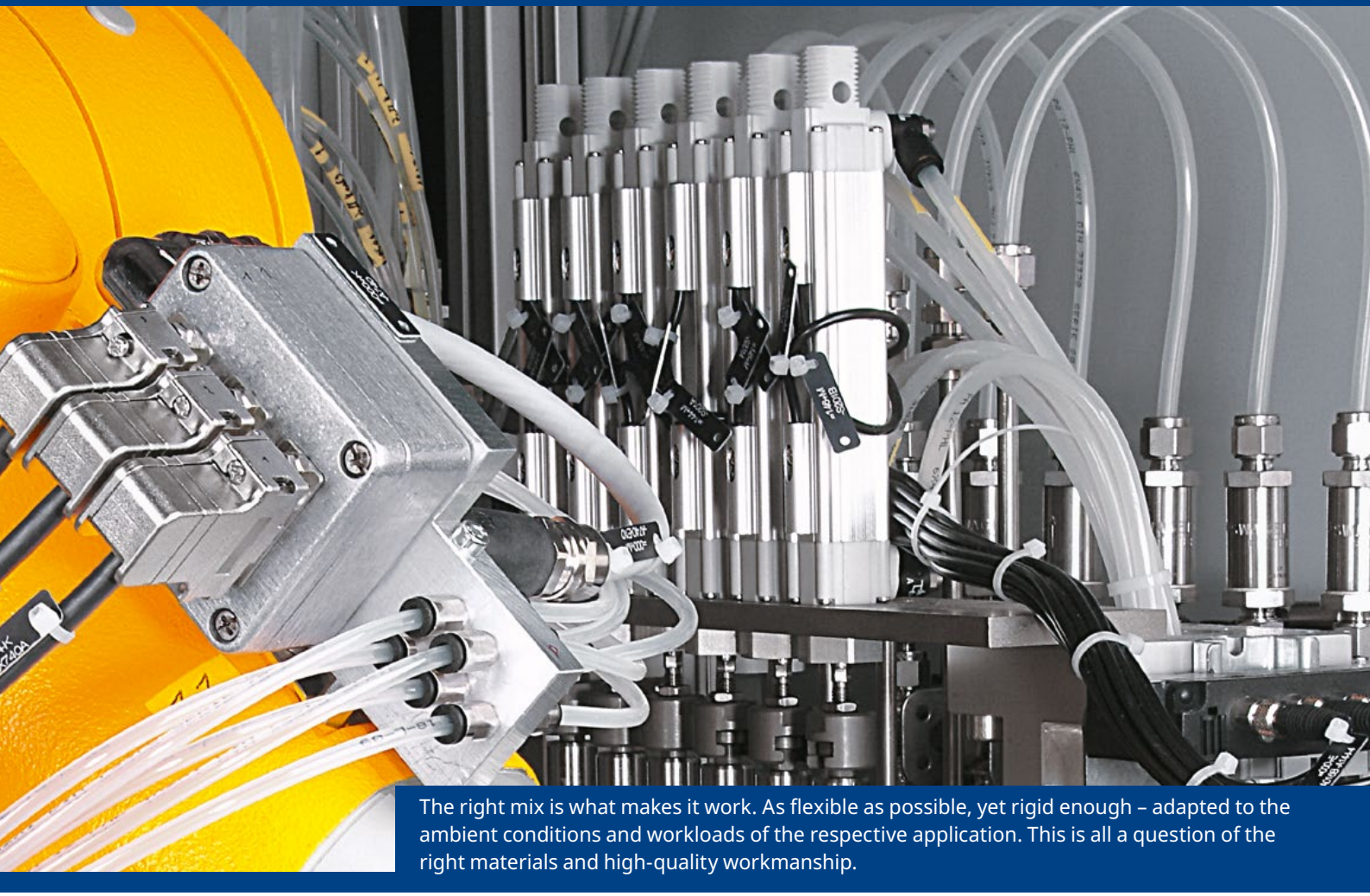
Three series with varying material

Selecting the right material for polymer tubing is essential. For example, very different material properties are required in the food industry compared to the chemical industry or in explosive areas. Emerson has a high-quality range of polymer tubing that fits all needs and complies with specific technical or economic factors.

The varied characteristics of polyurethane, polyamide or Teflon, both their strengths and weaknesses, must be specifically examined for use in the particular application.

Series	TU1-S-PUR	TU1-A-PUR	TU1-E-PUR	TU1-F-PUR	TU1-X-PUR
Anti-static		+			
Resistant to microbes	O	+	O	+	+
Flampe protection (UL94V), resistant to welding sparks					+
Halogen- / fluorine-free	+	+	+	+	+
Resistance to hydrolysis	O	+	O	+	+
Suitable for dynamic laying	+	+	+	+	+
UV resistant	O	+	O	O	+
High pressure resistance	+	+		+	+

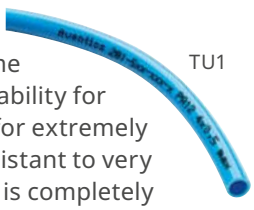
++ Highly recommended + Recommended O Suitable



The right mix is what makes it work. As flexible as possible, yet rigid enough – adapted to the ambient conditions and workloads of the respective application. This is all a question of the right materials and high-quality workmanship.

TU1 series singles tubing

The TU1 series is the basis of our tubing program and is available in all materials and versions. Some of its special options include suitability for direct contact with food, tubing for extremely high flow rates, tubing that is resistant to very aggressive media, or tubing that is completely anti-static. They are matched to AVENTICS line of fittings and come in many different colors.

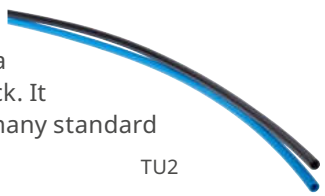


TU1



TU2 series dual tubing

Dual tubing consists of two parallel lengths of tubing in a combination of blue and black. It simplifies assembly in seriemany standard applications.



TU2

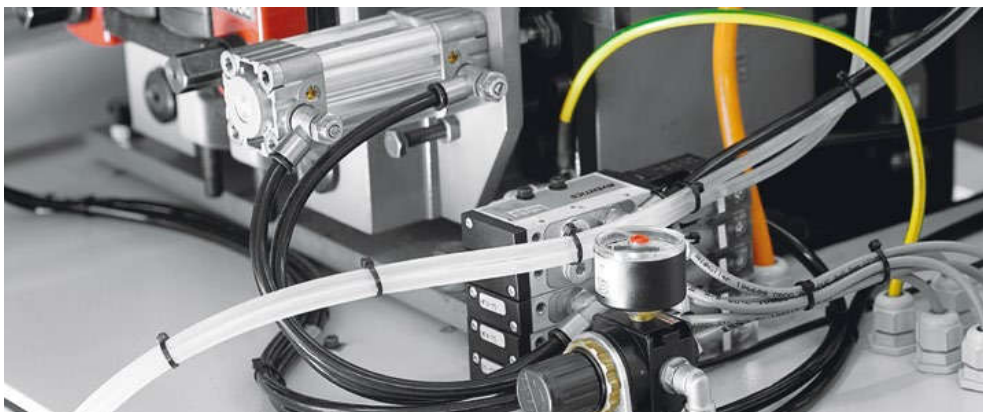
TU3 series spiral tubing

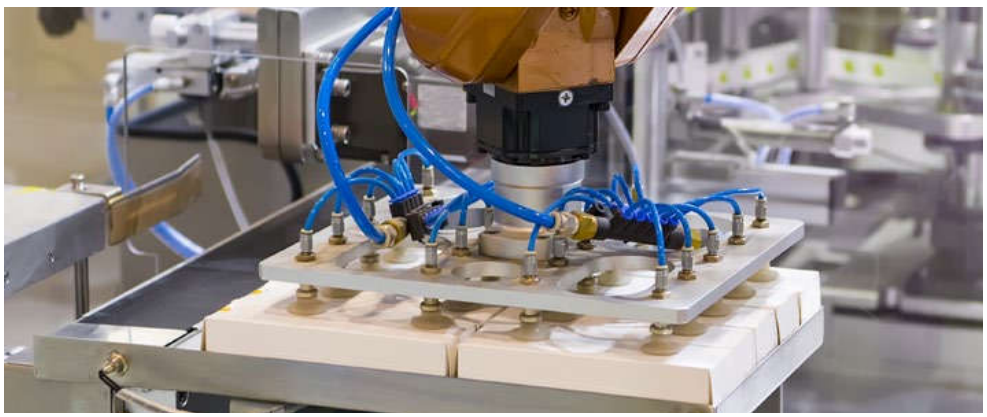
We developed our special TU3 series of spiral tubing for use in applications where the tubing must comply with a flexible range of motion.



TU3

Unimposing but indispensable – throttle valves and non-return valves, flow and check valves





CC series check-choke valves

The different check-choke valve versions in the CC series have been designed for nominal flows from 60 to 5,600 l/min. They are available with either push-in fittings or internal threads.



CC01



CC02



CC02-SL



CC04



A system can only reach perfection when all the little things are just right. With this in mind, we do not make any compromises when it comes to the quality and reliability of the “little helpers” for air supply management.

CH series throttle valves

CH series throttle valves can be used for nominal flow rates of up to 4,100 l/min. Special features include versions with an integrated silencer or for use as a screw-in throttle.

CH01



CH02



Shutt-off valves

These special shut-off valves are primarily used in safety relevant work processes. They are directly assembled on the cylinder, thus enabling an automatic block of the air supply to immediately stop the working stroke.

Shut-off valves



NR series non-return valves

NR series non-return valves are available for nominal flow rates of up to 7,950 l/min. Thanks to the connection options of push-in fittings or internal/ external threads, they can either be screwed-in directly or mounted in-line during assembly.

NR01





NR02

Quick exhaust valves

Quick exhaust valves are designed for nominal flow rates from 220 to 6,800 l/min. These poppet valves come with internal threads.



Quick exhaust valves 573



As individual as your application – systematic air supply management. Example: Series AS2

Assistance right from the start

In addition to our online tool for configuring air preparation units, we are also pleased to offer you expert support from our air supply specialists at any time. They have years of experience, are familiar with everything there is to know about product characteristics, and can integrate their industry-specific expertise into your application.

This AS2 series air preparation unit example underlines the range of components, functions, and details. Benefit from our specific product and industry expertise!

Air preparation unit, 2 part, AS2-ACD series
with pressure gauge, filter size: 5 µm



Air preparation unit, 3-part, AS2-ACT series
with pressure gauge, filter size: 5 µm



Pressure regulator, AS2-RGS series



Pressure regulator, AS2-RGS-...-DS series
with continuous pressure supply



Precision pressure regulator, AS2-RGP series



Precision pressure regulator, AS2-RGP-...-DS series
with continuous pressure supply



Filter pressure regulator, AS2-FRE series
filter size: 5 µm



Filter, AS2-FLS series
Filter size: 40 µm



Filter, AS2-FLS series
Filter size: 25 µm



Filter, AS2-FLS series
Filter size: 5 µm



Pre-filter, AS2-FLP series
Filter size: 0.3 µm



Microfilter, AS2-FLC series
Filter size: 0.01 µm



Microfilter, AS2-FLC series
Filter size: 0.01 µm



Diaphragm-type dryer, AS2-ADD series



Active carbon filter, AS2-FLA series



Standard oil-mistlubricator, AS2-LBS series



Filling unit, AS2-SSU series
Electrically operated, adjustable filling rate



Filling unit, AS2-SSU series
Adjustable filling rate, pneumatically operated



3/2-way valve, AS2-SOV series
Electrically operated



3/2-way valve, AS2-SOV series
Pneumatically operated



3/2-shut-off-valve (ball valve), AS2-BAV series
Mechanical, lockable version for padlock



Filling valve, AS2-SSV series
Adjustable filling rate



Filling valve, AS2-SSV series
Adjustable filling rate, with electrical priority control



Non-return valve, AS2-DIN series



Distributor, AS2-DIS series
3x



Contamination display for microfilters, AS2-FLC, AS3-FLC



Mounting bracket, AS2-MBR-...-W03 AS2, kit



Mounting plate, AS2-MBR-...-W01
For AS2 series



Mounting bracket, AS2-MBR-...-W02
For AS2 series



Block assembly kit, AS2-MBR-...-W04



Block assembly kit, AS2-MBR-...-W05



Panel nut, AS2-MBR-...-W06



Coupling adapter, AS2-3



Transition plate
For AS series, with CNOMO porting configuration



Pressure gauge, PG1 series SAS,
for AS2–AS5 series



Pressure sensor, PE5 series
Switching pressure: -1 – 12 bar, electr. connection: plug, M12x1, 4-pin



Flow sensor, AF2 series
Flow range = 5 l/min – 6.490 l/min
Communication: Analog, IO-Link or Ethernet



Pressure switch, PM1 series
Switching pressure: -0.9 – 16 bar, electr. connection: plug, ISO 4400, form A and M12x1, 4-pin



Directional control valve, DO16 series
Qn = 16 – 25 l/min.
Electr. connection: plug, ISO 15217, form C

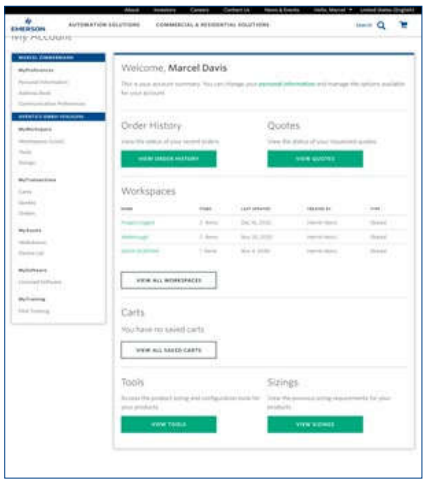


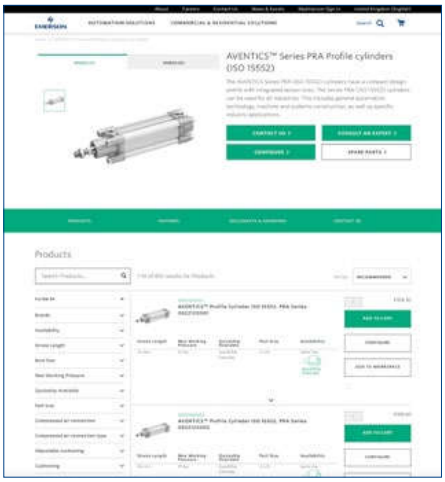
Solenoid valve, DO16 series
Qn = 16 – 25 l/min, electr. connection: plug, ISO 15217, Form C

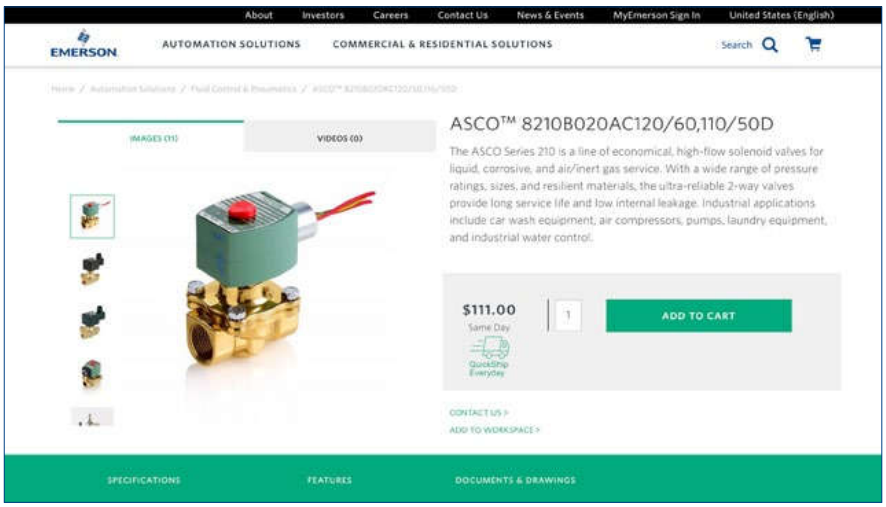
Lock coupling with tube nut, CP1 series
NW 5 mm, working pressure: 0 – 35 bar

Silencer, SI1 series
Polyethylene with thread, working pressure: 0 – 10 bar

A single online shopping experience to meet your complete fluid control and pneumatics requirements







- Unified product catalog and store for all Emerson products
- Integration of spare parts and accessories
- Search and filtering functions
- Register without an existing customer number
- Download technical documents and CAD drawings
- Access available 24/7, 365 days a year
- Tracking your order and shipment status
- Prices and availability immediately visible
- Discounts and net prices displayed
- Manage multiple ship-to locations and create a shopping list for projects

Focused on you - MyEmerson

To simplify purchasing fluid control and pneumatics products, Emerson provides a single online store for its ASCO and AVENTICS brands. The MyEmerson personalized digital customer experience at Emerson.com offers a range of features and functionality via a single login, including an overview of orders, delivery tracking, and easy access to downloadable product documentation. A convenient single-sign-on will facilitate the log-in process while avoiding logins on several platforms like our online configurators. MyEmerson features an overview of orders, track deliveries, and download options for all relevant documents.

Online Fluid Control and Pneumatics Store

MyEmerson digital customer experience at Emerson.com



The online store and digital customer experience includes the entire pneumatics range and comprehensive expertise and support at one convenient location – **Emerson.com/en-us/automation/fluid-control-pneumatics**

CAD

Objects can be issued here directly as a CAD file in various formats, as a PDF file, or for further configuration in our customers' software.

Configurators

To create customized products matching their individual requirements, customers can set their parameters in the configuration program, which then presents a product tailored to their specifications.

Calculation Programs

With transparent calculations, our customers can determine the size or durability needed for their products and can even keep an eye on energy consumption.

Cross Reference Tool

This tool shows our customers the right alternatives to competitor products from within the AVENTICS catalog.

CylinderFinder

This free online tool helps our customers find the right cylinder for their application with just a few clicks.

Smart Shopping for Professionals

In the new online shop, you can easily, quickly, and securely order your fluid control and pneumatics products – simply register with your e-mail address and password, and order directly.
Emerson.com/en-us/automation/fluid-control-pneumatics

Your advantages:
- Intelligent search and filter functions
- Spare parts and accessories available for every product
- Track your orders online
- Transparent pricing

Qn		Series	Designation	Ports	Filter porosity	ATEX
1,000 l/min		AS1	Air preparation units	G1/4	0.01 µm	
2,700 l/min		AS2	Air preparation units	G1/4 – G3/8	0.01 – 40 µm	
5,200 l/min		AS3	Air preparation units	G3/8 – G1/2	0.01 – 40 µm	
14,500 l/min		AS5	Air preparation units	G3/4 – G1	0.01 – 40 µm	
2,060 l/min		651	Air preparation units	G1/8 – G1/4	0.01 – 40 µm	Optional
7,000 l/min		652	Air preparation units	G1/4 – G1/2	0.01 – 40 µm	Optional
11,500 l/min		653	Air preparation units	G1/2 – G1	0.01 – 40 µm	Optional
325 – 2,000 l/min		MH1	Air preparation units	G1/4 – G1/2	5 µm	
350 – 25,000 l/min		MU1	Air preparation units	G1 – G2	8 – 60 µm	
750 – 5,600 l/min		PR1	Precision pressure regulators	G1/4 – G1/2		
		PE5	Electronic pressure sensorer	G1/4 Push-in-fitting Ø 4		
		PE6	Electronic pressure sensor	Flange Ø 1.2 x 1		
		PE7	Electronic pressure sensor	G1/4		
		PM1	Mechanical pressure switch	G1/4 Flange Ø 5 x 1.5		Optional

Ports		Designation	Series
Ø 3 – 6 M3 – G1/8		Push-in fittings	QR1-S mini
Ø 4 – 16 M5 – G1/2		Push-in fittings	QR1-S standard
Ø 4 – 16 M5 – G1/2		Push-in fittings	QR2-S standard
Ø 4 – 12 M5 – G3/8		Push-in fittings	QR2-C stainless steel
NW 2,7 – 10		Couplings	CP1
M5 – G1		Blanking screws and connectors	FPT
Ø 4 – 14 M5 – G1		Silencers	SI1
Ø 3 – 16		Polymer tubing, polyethylene	TU1
Ø 4 – 16		Polymer tubing, polyamide	TU1-S
Ø 4 – 14		Polymer tubing, Teflon	TU1
Ø 10 – 27		Polymer tubing, Polyvinyl chloride	TU1
Ø 3 – 16		Polymer tubing, polyurethane	TU1
Ø 4 – 10		Dual polymer tubing, polyurethane	TU2

Qn		Designation	Series
110 – 8,830 l/min		Check-choke valves	CC01
50 – 1,960 l/min		Check-choke valves	CC02
50 – 1000 l/min		Check-choke valves	CC02-SL
85 – 2,100 l/min		Check-choke valves	CC04
38 – 2,800 l/min		Throttle valves	CH01
200 – 4,100 l/min		Throttle valves	CH02
40 – 7,950 l/min		Non-return valves	NR01
300 – 5,800 l/min		Non-return valves, with release	NR02
280 – 2,000 l/min		Non-return valves	QR1
220 – 6,800 l/min		Quick exhaust valves	573
340 – 680 l/min		Shut-off valves	
		Pressure gauges	PG1

Competend and well-designed down to the last detail – The right air supply management for every application



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BR000079ENUS-03_07-22

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