Effective Control with Air – An Overview of Pneumatic Valves and Valve Terminal Systems from Rexroth
Valves and valve terminal systems

Expertise

Everything you need, inside and out
Perfectly integrated functions, an innovative and compact housing design, as well as comprehensive connection options – going above and beyond precision and reliability. Valves and valve terminal systems from Rexroth meet the demands of today’s control technology like no other.
Capable and well thought-out – application-oriented valve technology from Rexroth

The result of decades of work in application-oriented development for our key industries, single valves and valve terminal systems from Rexroth set the tone in today’s pneumatics. Simply put, Rexroth is unrivalled when it comes to the entire spectrum of valve technology instruments. And that doesn’t only sound good – it’s a solid argument for efficient pneumatic solutions.

Perfection is our standard
With a valve solution to match any application and work environment, our comprehensive program of perfected valve technology fulfills all of the requirements placed on cutting-edge, efficient pneumatic control technology. And as you’ve come to expect from our products, each component has the best quality and design.

- Wide range of functions
- Modular construction
- Quality and design

As well as meeting all environmental requirements, our products are extremely durable and offer a wide range of functions. As a result, this is demonstrated by a quick system layout and adaptation to specific tasks thanks to the modular design. Further quality features of our valves include low leakage and power consumption. And with short delivery times thanks to local production, our products get to where they need to be quickly, to do what they do best – work for you!
A valve solution to match any application – coordinated perfectly

Get some insight, an overview, a preview
Use this brochure to help you select the products you need. It also provides information on key properties and application areas for the valves and valve terminal systems. Foldout pages 22 and 23 also contain an overview of the most important technical details.

A comprehensive program with a straightforward platform strategy
Our range of products is just as diverse as our customers’ tasks. The spectrum covers everything from mechanically, pneumatically, or electrically operated single valves with nominal flows of 200 to 13,620 l/min. to highly complex, modular valve terminal systems fitted with a complete range of functions and state-of-the-art bus technology. Let the application dictate the requirements – we will supply the right technology. Aside from technology based on conventional directional control valves, we also provide optimal solutions featuring electro-pneumatic pressure regulator technology. Get acquainted with the complete range of our program in the following pages:

Directional control valves
- VTS using the base plate principle
- VTS for ISO standard valves
- VTS using the plate principle with single system valves
- Straight single valves

Control valves
- E/P pressure regulator valves

The right contact for any situation
Electronic control and connection technology for valves and valve terminal systems is developing at a rapid pace. Along with single wiring via standardized plug connections and easy valve terminal system connection with multipole plugs, open and integrated field bus solutions now set the standard.

<table>
<thead>
<tr>
<th>Product group</th>
<th>With base plate</th>
<th>Without base plate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series</td>
<td>CA44 MC LP04</td>
<td>LS04 TC08/15</td>
</tr>
<tr>
<td>VTS – Valve terminal systems</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Single valves, electrically operated</td>
<td></td>
<td>Page 6 – 7</td>
</tr>
<tr>
<td>Single valves, pneumatically operated</td>
<td></td>
<td>Page 8 – 9</td>
</tr>
<tr>
<td>Single valves, mechanically operated</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Comprehensive electrical connection options

Having participated in each stage of electric connection technology development, Rexroth used this experience to identify the right options for each application in the program, such as valves with application-specific individual connections, as well as systems with integrated bus technology for all current field bus protocols.

- Standard plug
- Multipole plug
- Field bus connection

**Four link structure models facilitate your choice**
Thanks to a standout concept comprising four specific link structure models developed by Rexroth, you will be able to pinpoint the best bus solution for your particular application and work environment quickly and confidently. Page 16 – 17

<table>
<thead>
<tr>
<th>ISO standard</th>
<th>Sturdy single valves</th>
<th>E/P</th>
</tr>
</thead>
<tbody>
<tr>
<td>579</td>
<td>ST</td>
<td>ED</td>
</tr>
<tr>
<td>CD02</td>
<td>CD01</td>
<td></td>
</tr>
<tr>
<td>IS12</td>
<td>261</td>
<td></td>
</tr>
<tr>
<td>581</td>
<td>CD04</td>
<td></td>
</tr>
<tr>
<td>CD07</td>
<td>CD12</td>
<td></td>
</tr>
<tr>
<td>560</td>
<td>ST</td>
<td></td>
</tr>
</tbody>
</table>

- **BDC – Bus Direct Control**
- **CMS – Central Mounted System**
- **DDL – Drive & Diagnostic Link**
- **VDS – Valve Driver System**

Modular compact units from Rexroth

All valve terminal systems in this group were designed in line with the base plate principle, offering the highest flexibility and functionality. Highly modular in construction, they easily integrate into tight spaces and the most demanding work environments without sacrificing functional reliability.

Expandable for future needs
Thanks to their modularity, you can expand valve solutions any time you need to and adapt them perfectly to changing machine environments. Exchanging valves on the base plate is simple and inexpensive – and doesn’t involve machine modifications. Another advantage of these valve terminal systems is their comprehensive range of accessories, allowing for highly customized designs and equipment.

Typical application areas are: automation technology, process control in machine construction, and general material handling including vacuum technology, all in a wide variety of industries. Concepts differ according to how multiple valve terminal systems are networked.

<table>
<thead>
<tr>
<th>Series</th>
<th>HF</th>
<th>LP</th>
<th>CL</th>
<th>MC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Functionality</td>
<td>++</td>
<td>+</td>
<td>+</td>
<td></td>
</tr>
<tr>
<td>Compactness</td>
<td>+</td>
<td>++</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>+</td>
<td>++</td>
<td></td>
<td>+</td>
</tr>
<tr>
<td>Modularity</td>
<td>++</td>
<td>+</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>Simple installation</td>
<td>+</td>
<td>++</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>Protected</td>
<td></td>
<td>+</td>
<td>++</td>
<td>+</td>
</tr>
</tbody>
</table>

++ Highly recommended  + Recommended  ○ Suitable  - Less suitable  -- Not suitable
HF and more – high-flow and compact

**Highest flow in the smallest space**
Compact, modular, flexible – this family of valve terminal systems knows how to meet expectations. Featuring a pilot valve as part of the platform strategy, each system has either a single or double pilot with a protective circuit and features extremely low electric power consumption.

**HF – High Flow**
Not only does it install flexibly, the HF-VTS lets you exchange valves quickly and safely. And since the systems are capable of diagnosis, you get first-rate monitoring of functions, sources of malfunctions, and maintenance tasks.

**LP – Low Profile**
Field bus functions in the LP series are integrated directly, meaning the VTS has a very flat design. Space considerations are a thing of the past – both the field bus and multiple plug versions of the LP VTS are equally small.

**CL03 – Clean Line**
The Clean Line series is distinguished by its hygienic design and high protection class (IP69K). Thanks to the use of plastic resistant to detergents and aggressive chemicals, wet-environment applications present no problems, even under harsh conditions. The valve terminal system can be modularly expanded by up to 16 valves and is flexible enough to produce up to 32 different pressure stages in one system.

**MC valves**
The MC series features both single and double pilot solutions. An incredible density of up to 32 valve functions, long service life, and over 100 million switching cycles speak for themselves. Based on the MC valve, the specialized CA44 offers the flexibility of a valve terminal system with the simplest assembly technology using ASi coupling modules.
Compact solutions based on a plate principle

The choice is up to you. Using single valves and modular valve systems from the same series makes a lot of things easier, safer, and more cost-efficient. This multi-purpose family helps you implement extremely compact solutions tailored to the machine environment, which are both efficient and cost-effective.

Optimized in terms of time
If you want to implement optimal, machine-specific configurations, valve concepts based on a plate principle offer all the options you need. Their low installation volume make them easy to integrate anywhere, and since they are so lightweight, you can install them directly onto moving machine parts. Deliberately reducing the equipment to the specifically required features also translates into substantial cost advantages, both in terms of investment and operation.

These valve solutions are often used in automation, as well as process control and assembly technology, especially in small handling, machine tool construction, and the electronics industry.

<table>
<thead>
<tr>
<th>Series</th>
<th>TC</th>
<th>LS-XS</th>
<th>LS</th>
<th>579</th>
</tr>
</thead>
<tbody>
<tr>
<td>Functionality</td>
<td>++</td>
<td>-</td>
<td>+</td>
<td>O</td>
</tr>
<tr>
<td>Compactness</td>
<td>+</td>
<td>++</td>
<td>+</td>
<td>O</td>
</tr>
<tr>
<td>Weight</td>
<td>+</td>
<td>++</td>
<td>++</td>
<td>+</td>
</tr>
<tr>
<td>Modularity</td>
<td>+</td>
<td>-</td>
<td>++</td>
<td>O</td>
</tr>
<tr>
<td>Simple installation</td>
<td>+</td>
<td>O</td>
<td>O</td>
<td>++</td>
</tr>
<tr>
<td>Protected</td>
<td>++</td>
<td>+</td>
<td>+</td>
<td>++</td>
</tr>
</tbody>
</table>

++ Highly recommended  + Recommended  O Suitable
- Less suitable  -- Not suitable
Streamlined solutions designed for flexibility

Rexroth developed this flexible program with the motto “just the necessary components, but premium quality throughout” in mind. Covering flow rates from 200 to 1500 l/min., the program is adaptable for pneumatic operation.

**LS series**

Just 10.8 mm wide, the LS04 valve family is the smallest designed to date. Nevertheless, its two single valve models and the modular valve terminal system deliver unrivalled solutions even in the tightest spaces. A weight of 30 g predestines the LS04 XS mini single valve for installation directly onto moving parts. The LS04 AF delivers even better performance and covers the entire spectrum of pneumatic functions. The modular valve terminal system can accommodate up to 24 positions.

**TC series**

The TC series is available in two sizes with 800 and 1500 l/min. flow rates. They are the perfect choice for applications calling for competitively-priced and sturdy valves packing a lot of power in a small space. The TC product concept is also incredibly flexible when it comes to designing valve solutions. With valves operated either pneumatically or electrically, the valve terminal system can be modularly expanded by up to 12 valves.

**579 series**

The 579 series presents users with a cost-optimized 3/2 and 5/2-way valve solution featuring poppet valve technology. Easy to stack, these valves have a convincing range of integrated functions.
The best quality, globally available – daily at Rexroth

The same size, the same performance, the same connections. Standards are standards. Rexroth excels at producing the very best within this framework. Our program – a complete assortment of perfected ISO valves with exemplary features and pivotal additional benefits – is several steps ahead of the pack.

With future standards in mind
Designed to withstand the test of time, our ISO valve terminals can be upgraded in any direction. These systems help reduce the vast array of components by standardizing interfaces to reduce storage and procurement costs. Another plus: Less chances of installation mistakes thanks to preassembled cabling that’s easy to plug in, reflecting the rise of uniform M12 connection technology. All are advantages that see our ISO valves used not only in the automotive industry, but in the packaging, woodworking, printing and paper industries, as well as heavy industries around the world. ISO valves from Rexroth are at home everywhere. Global availability is essential for standardized valves.
Valves and valve terminal systems complying with ISO standards

ISO valve technology from a single source
The right valve for every standard. As the leading supplier in this field, Rexroth provides valve series with perfect options to combine and expand. Complete series are available in accordance with ISO 15407 and ISO 5599, as versions either without (-1) or with (-2) integrated electrical contact.

ISO standard 15407-1: CD01-PA, CD01/02-AL
For ISO standard 15407, the range includes single valves and valve terminal systems in the sizes 18 mm (CD02 series) and 26 mm (CD01 series). The CD01 can be electrically and pneumatically controlled and also offers comprehensive functions in terms of electrics and field bus technology. Versions are available in aluminum (AL) and polyamide (PA). The CD02-AL version features very short switching times, low control pressures, and low-friction seal elements.

ISO standard 15407-2: CD01/02-PI
The key features of the CD01/02-PI are parallel pneumatic and electric connections in one base plate, as well as exceptional diagnostic ability. Its plug-in solution helps you exchange valves faster, easier, and more safely.

ISO standard 5599-1: 581 series, IS12 series
The 581 series is available in all sizes 1 – 4 and offers the complete range of valve functions with comprehensive accessories as well as integrated flow control valves. The IS12 comes in sizes 1 and 2. It is light in weight thanks to a plastic housing and can be equipped with various pilot valves.

ISO standard 5599-2: 261 series
The 261 series is the ideal solution for applications requiring valves with electrical contact. It is available in an aluminum or plastic version and enables up to 12 valve positions on one base plate.
Sturdy and strong – single valves for harsh environments

Sometimes it is inner strength that really matters. When safe and extremely reliable pneumatic solutions for harsh environments are required, these sturdy single valves are perfect. Full of power, they are impervious even to aggressive media.

Made to hold up under any task
Thanks to a unique design and the use of proven materials, these specialized single valves are equally resistant to mechanical influences, as well as extreme fluctuations in temperature or electric voltage. These properties make the valves ideal for applications in the paper, woodworking, metal processing, and heavy industries, as well as in material handling and printing systems.

<table>
<thead>
<tr>
<th>Series</th>
<th>ST</th>
<th>CD</th>
<th>560</th>
</tr>
</thead>
<tbody>
<tr>
<td>Functionality</td>
<td>+</td>
<td>++</td>
<td>o</td>
</tr>
<tr>
<td>Compactness</td>
<td>o</td>
<td>o</td>
<td>-</td>
</tr>
<tr>
<td>Weight</td>
<td>o</td>
<td>o</td>
<td>-</td>
</tr>
<tr>
<td>Modularity</td>
<td>-</td>
<td>o</td>
<td>+</td>
</tr>
<tr>
<td>Simple</td>
<td>+</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>Protected</td>
<td>++</td>
<td>+</td>
<td>+</td>
</tr>
</tbody>
</table>

++ Highly recommended  + Recommended  o Suitable  - Less suitable  -- Not suitable
Electrically, pneumatically, or mechanically operated single valves

**Reliable time after time**
Whether it is inside or outside, subject to extreme heat and cold, in damp or dusty environments, our single valve program for demanding applications matches the right valve solution to the task at hand. Flow rates range from 280 to 4100 l/min.

**CD series**
The CD series has a broad range of applications featuring three basic sizes and electrically, pneumatically, and mechanically operated versions. These valves have been designed and approved for use in hazardous areas. What's more, they guarantee the best functionality and a high degree of flexibility, even enabling connection of single valves in field bus environments.

- Sturdy metal housing
- Large temperature ranges
- High voltage tolerances

**560 – the sturdy series**
Hot, cold, severe temperature fluctuations, harsh ambient conditions, or high working pressures of up to 30 bar – this is where the 560 valves work best. Sturdy and strong, with nominal flows of up to 13,600 l/min.

**ST – strong where it counts**
The ST series covers the lower flow range and can be operated either electrically, pneumatically, or mechanically. Equipped with non-sensitive materials and a metallic sealing, these valves are especially well suited for tasks in very aggressive environments.
Sensitive and highly dynamic – electropneumatic pressure regulation

Speed and precision are crucial to controlling dynamic processes reliably. State-of-the-art control valve technology from Rexroth meets these requirements like no other. No matter if it is pressure, quantity, speed, or weight – each one is precisely controlled with Rexroth.

**Electropneumatic pressure regulator technology for every industry**

Sophisticated systems with E/P valves frequently replace other pneumatic solutions or simply take over due to their clear advantages over non-pneumatic control technology. Classical applications include precise positioning of parts and components, variable control of welding tips, weight-independent balancer technology in assembly, and exact controlling and metering in cutting-edge painting systems.

<table>
<thead>
<tr>
<th>Series</th>
<th>ED02</th>
<th>ED05</th>
<th>ED 07/12</th>
<th>EV 04/07</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dynamics</td>
<td>++</td>
<td>+</td>
<td>++</td>
<td>–</td>
</tr>
<tr>
<td>Precision</td>
<td>+</td>
<td>+</td>
<td>++</td>
<td>+</td>
</tr>
<tr>
<td>Sturdiness</td>
<td>++</td>
<td>++</td>
<td>++</td>
<td>+</td>
</tr>
<tr>
<td>Protection class</td>
<td>++</td>
<td>++</td>
<td>++</td>
<td>–</td>
</tr>
<tr>
<td>Flexibility</td>
<td>+</td>
<td>O</td>
<td>+</td>
<td>– –</td>
</tr>
<tr>
<td>Electric connection</td>
<td>+</td>
<td>++</td>
<td>++</td>
<td>+</td>
</tr>
</tbody>
</table>

++ Highly recommended   + Recommended   O Suitable
– Less suitable   – – Not suitable
The entire E/P range from Rexroth

Different models for different tasks
As electropneumatic pressure regulator technology develops, three different control principles have emerged.

- Pilot control
- Direct control
- Highly dynamic

Making the best use of any E/P-type valve depends on the kind of application and the actual tasks involved. Rexroth is the technological leader in every aspect of electropneumatic pressure control and offers a rounded-out program of products for all required nominal widths.

ED02 – the smallest
The extremely compact yet powerful ED02 offers perfect control solutions in a variety of applications. Reliable, dynamic, and cost-effective.

ED05 – the all-rounder
The principle of direct control with a proportional solenoid enables highly precise control while remaining extremely dynamic. This also minimizes inertia and hysteresis in mechanical transfer elements.

ED07/ED12 – highly dynamic
As well as enabling higher air flow rates, another advantage of this arrangement is its highly dynamic behavior.

EV04/EV07 – pilot-controlled
Perfect for static requirements, the EV series works according to the indirect control principle. A key feature of the series is its extremely low energy consumption – yet it still guarantees pressure control during a power loss.
Perfect connections on every level – structured bus technology

BDC, CMS, DDL and VDS. The integrated field bus systems from Rexroth match the right solution to every application and control environment. And thanks to our refined link structure concept that works with all current field bus protocols, you are guaranteed extremely flexible and open planning.

It all depends on the application
As control complexity increases, the more profitable it is to use field bus systems. Each application calls for a tailored solution which promises maximum benefit. To do justice to these varying demands, Rexroth offers a wide range of systems based on a concept with four basic link structures.

Our advanced field bus systems minimize wiring efforts, reduce possible sources of errors thanks to efficient diagnostic technology, and ensure quick and safe data transfers.
In addition to the four Rexroth link structures, we also offer suitable components and valve terminal systems for solutions with standardized ASi connections.
It all depends on the application!

<table>
<thead>
<tr>
<th>Series</th>
<th>BDC</th>
<th>CMS</th>
<th>DDL</th>
<th>VDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Planning independent of field bus</td>
<td>*</td>
<td>*</td>
<td>++</td>
<td>+</td>
</tr>
<tr>
<td>Multiple valve systems</td>
<td>+</td>
<td>+</td>
<td>++</td>
<td>++</td>
</tr>
<tr>
<td>Multiple single valves</td>
<td>*</td>
<td>+</td>
<td>+</td>
<td>++</td>
</tr>
<tr>
<td>Integration of E/P valves</td>
<td>-</td>
<td>-</td>
<td>++</td>
<td>O</td>
</tr>
<tr>
<td>Diagnostic function</td>
<td>*</td>
<td>*</td>
<td>++</td>
<td>+</td>
</tr>
<tr>
<td>I/O functions</td>
<td>-</td>
<td>++</td>
<td>+</td>
<td>++</td>
</tr>
<tr>
<td>Connection</td>
<td>++</td>
<td>++</td>
<td>+</td>
<td>O</td>
</tr>
</tbody>
</table>

* Highly recommended  ** Recommended  - Suitable
Less suitable  --- Not suitable

Various emergency-off circuits can be used on all four link structures.
Four link structure concepts for all field bus environments

**BDC – Bus Direct Control**
BDC directly connects your pneumatics to the field bus. These bus modules enable parallel control of the valve terminal system solenoids.

**CMS – Central Mounted System**
Designed for modular configuration, this valve terminal system with an integrated bus module and input/output modules is a mechanically complete unit for applications with no extra wiring effort.

**DDL – Drive & Diagnostic Link**
This structure consists of a bus module for communication with the superior field bus and up to 14 participants in the DDL line. Sophisticated diagnostic functions are a key feature of DDL.

**VDS – Valve Driver System**
This link structure accommodates up to four lines – each with a bus module to communicate with the superior field bus. Valve units or single valves are controlled by contact bridges.
A noticeable difference: end-to-end support

Your satisfaction comes first
Rexroth customers are demanding. They expect a great deal and get even more in return. Expert consultation, future-proof solutions, exemplary service, and knowing they are a step ahead of the competition. And Rexroth customers have a vision. Refusing to settle for less, they choose a product concept with built-in progress. Worldwide.

- Task analysis and function definition
- Cross-technology solutions
- Application-specific configuration
- Delivery and installation on time and schedule
- Test runs to optimize functions
- Technological updates

Because a standstill is a step backwards
Continuous progress safeguards our economic and technological edge. That is why we are constantly optimizing products, systems, procedures, and technologies. Particularly within our key industries, hearing from our customers every day helps us systematically build on our core competences while bringing practical innovations onto the market.

- Expert installation of components is crucial for smooth, continuous operation – especially in highly complex systems. Thorough instruction ensures that machines will be operated properly.
Let’s talk

Start thinking about the next steps
We see partnership as something much more than a string of individual projects. Working closely with our customers, we are regarded as a highly knowledgeable associate in both technical and economic matters. Although it is easy to obtain information through our digital services, face-to-face contact remains the cornerstone of our communication. A two-way flow of ideas keeps us a step ahead of the competition and ensures solutions ideally matched to our customers’ needs. The outcome? We’re right where the action is, staying on the offensive to safeguard technological edges for ourselves and our customers.

Complete information on the Internet
Visit our home page for detailed technical information on our complete range. The product catalog, leaflets, CAD, Product Configurator, and interactive tools are all just a click away!

Competence and Development Centers
- Germany
- France
- Sweden
- Hungary
- China
- United States
### Valve terminal systems

<table>
<thead>
<tr>
<th>Qn</th>
<th>Series</th>
<th>Functions</th>
<th>Connections</th>
<th>Control</th>
</tr>
</thead>
<tbody>
<tr>
<td>200 l/min.</td>
<td>CA44</td>
<td>2 x 3/2, 4/2</td>
<td>M7, Ø 4, Ø 6</td>
<td>BDC (ASI)</td>
</tr>
<tr>
<td>200 l/min.</td>
<td>MC</td>
<td>2 x 3/2, 4/2</td>
<td>M7, Ø 4, Ø 6</td>
<td>Multipole plug, BDC, DDL</td>
</tr>
<tr>
<td>300 l/min.</td>
<td>LS04</td>
<td>2 x 3/2, 5/2, 5/3</td>
<td>Ø 4, Ø 6</td>
<td>Single plug, multipole plug</td>
</tr>
<tr>
<td>350 l/min.</td>
<td>LP04</td>
<td>2 x 3/2, 5/2, 5/3</td>
<td>Ø 4, Ø 6, Ø 1/4, Ø 1/8</td>
<td>Multipole plug, BDC, CMS, DDL</td>
</tr>
<tr>
<td>400 l/min.</td>
<td>HF04</td>
<td>2 x 3/2, 5/2, 5/3</td>
<td>Ø 6</td>
<td>Multipole plug, BDC, CMS, DDL</td>
</tr>
<tr>
<td>450 – 600 l/min.</td>
<td>CD02</td>
<td>2 x 3/2, 5/2, 5/3</td>
<td>G1/8, NPTF 1/8, Ø 8, Ø 1/4</td>
<td>Single plug, multipole plug, BDC, CMS, DDL, pneumatic</td>
</tr>
<tr>
<td>700 l/min.</td>
<td>CL03</td>
<td>2 x 3/2, 5/2, 5/3</td>
<td>G1/4, Ø 5/16, Ø 3/8</td>
<td>Multipole plug, BDC, DDL</td>
</tr>
<tr>
<td>700 l/min.</td>
<td>HF03/-LG</td>
<td>2 x 3/2, 5/2, 5/3</td>
<td>G1/8, Ø 8, NPTF 1/8</td>
<td>Multipole plug, BDC, CMS, DDL</td>
</tr>
<tr>
<td>800 l/min.</td>
<td>TC08</td>
<td>5/2, 5/3</td>
<td>G1/8, NPTF 1/8</td>
<td>Single plug, pneumatic</td>
</tr>
<tr>
<td>1100 l/min.</td>
<td>CD01</td>
<td>2 x 3/2, 5/2, 5/3</td>
<td>G1/8, G1/4, NPTF 1/4, Ø 4, Ø 6, Ø 8, Ø 10</td>
<td>Single plug, multipole plug, VDS, BDC, CMS, DDL, pneumatic</td>
</tr>
<tr>
<td>1400 l/min.</td>
<td>HF02/-LG</td>
<td>2 x 3/2, 5/2, 5/3</td>
<td>G1/4, Ø 10</td>
<td>Multipole plug, BDC, CMS, DDL</td>
</tr>
<tr>
<td>950 – 4800 l/min.</td>
<td>261</td>
<td>2 x 3/2, 5/2, 5/3</td>
<td>G1/4, G3/8, G1/2, G3/4</td>
<td>Single plug, multipole plug, BDC, CMS, DDL</td>
</tr>
<tr>
<td>1500 l/min.</td>
<td>TC15</td>
<td>5/2, 5/3</td>
<td>G1/4, NPTF 1/4</td>
<td>Single plug, pneumatic</td>
</tr>
<tr>
<td>1060 – 1800 l/min.</td>
<td>IS12</td>
<td>5/2, 5/3</td>
<td>G3/8, G1/2, G1/4, G1/8</td>
<td>Single plug, pneumatic</td>
</tr>
<tr>
<td>1400 – 1600 l/min.</td>
<td>581</td>
<td>2 x 3/2, 5/2, 5/3</td>
<td>G1/8, G1/4, G3/8, G1/2</td>
<td>Single plug, multipole plug, VDS, pneumatic</td>
</tr>
</tbody>
</table>
## Single valves

<table>
<thead>
<tr>
<th>Qn</th>
<th>Series</th>
<th>Functions</th>
<th>Connections</th>
<th>Control</th>
</tr>
</thead>
<tbody>
<tr>
<td>330 l/min.</td>
<td>LS04</td>
<td>2 x 3/2, 5/2, 5/3</td>
<td>Ø 4, Ø 6</td>
<td>Electric</td>
</tr>
<tr>
<td>280 l/min.</td>
<td>ST</td>
<td>3/2, 5/2</td>
<td>G1/8</td>
<td>Electric, pneumatic, mechanical</td>
</tr>
<tr>
<td>800 l/min.</td>
<td>TC08</td>
<td>5/2, 5/3</td>
<td>G1/8, NPTF 1/8</td>
<td>Electric, pneumatic</td>
</tr>
<tr>
<td>520 – 850 l/min.</td>
<td>579</td>
<td>3/2, 5/2</td>
<td>Ø 6 x 1</td>
<td>Electric, pneumatic</td>
</tr>
<tr>
<td>900 l/min.</td>
<td>CD04</td>
<td>3/2, 5/2, 5/3</td>
<td>G1/8</td>
<td>Electric, pneumatic, mechanical</td>
</tr>
<tr>
<td>900 – 1400 l/min.</td>
<td>CD07</td>
<td>3/2, 5/2, 5/3</td>
<td>G1/4, M14 x 1,5</td>
<td>Electric, pneumatic, mechanical</td>
</tr>
<tr>
<td>1500 l/min.</td>
<td>TC15</td>
<td>5/2, 5/3</td>
<td>G1/4, NPTF 1/4</td>
<td>Electric, pneumatic</td>
</tr>
<tr>
<td>3800 – 4100 l/min.</td>
<td>CD12</td>
<td>3/2, 5/2, 5/3</td>
<td>G1/2</td>
<td>Electric, pneumatic</td>
</tr>
<tr>
<td>1350 – 13620 l/min.</td>
<td>560</td>
<td>3/2</td>
<td>G1/4, G1/2, G1</td>
<td>Electric, pneumatic</td>
</tr>
<tr>
<td>100 l/min.</td>
<td>ED02</td>
<td>3/3</td>
<td>G1/8</td>
<td>Electric</td>
</tr>
<tr>
<td>350 l/min.</td>
<td>EV04</td>
<td>3/3</td>
<td>G1/8</td>
<td>Electric</td>
</tr>
<tr>
<td>800 l/min.</td>
<td>EV07</td>
<td>3/3</td>
<td>G1/4</td>
<td>Electric</td>
</tr>
<tr>
<td>1000 l/min.</td>
<td>ED05</td>
<td>3/3</td>
<td>NPTF, G1/4</td>
<td>Electric</td>
</tr>
<tr>
<td>1300 l/min.</td>
<td>ED07</td>
<td>3/3</td>
<td>G3/8</td>
<td>Electric</td>
</tr>
<tr>
<td>2600 l/min.</td>
<td>ED12</td>
<td>3/3</td>
<td>G3/4</td>
<td>Electric</td>
</tr>
</tbody>
</table>
Which system is right for my application?

Compact design
The dimensions per flow rate are an important factor when it comes to compact valve construction. As machines and systems continue to be optimized, smaller installations are growing in importance. Size, weight, and easy integration into compact machine designs are the deciding factors in many applications.

Connections
The drive’s air consumption, valve connections, and flow controls on the piping side determine valve selection based on the flow rate. Throttling should already be considered in the planning stage.

Equipment options
The option of integrating pressure control for individual valves or whole sections, flow controls, vacuum ejectors or pneumatic separation of pressure ranges increases the controller’s overall functionality. The possibility to change the type of electrical connection at a later date makes the system convenient and flexible.
Precisely tailored to your needs: customized solutions from Rexroth

Valves, valve systems, and components you will find nowhere else

Our customers always come first – they are the ones who really know what is right and important for them. With this in mind, we have formed ‘customized solutions’ departments focused on providing one-of-a-kind designs with finely-tuned functions. These could include fully customized valves, as well as slightly but critically modified components from the standard program, or comprehensive working units. Main tasks include adaptation to the specific installation situation, required protection class and system configuration including control panels, cabinets, and correct compressed air preparation.

- Specific valves
- Configurated modules
- Ready-to-install valve systems

- The separator is more than a combination of an ASi slave, 3/2-way valve with quick exhaust and a cylinder. Integrated electronics preprocess data to ease the burden on serial communication.

- Valve terminal for the textile industry with CAN bus control and integrated pressure monitoring.

- Area gantry with adapted suction head to support 24 SD storage cards on each end.

- Control panel in an assembly system with stacked E/P valves, VTS, and compressed air preparation.
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