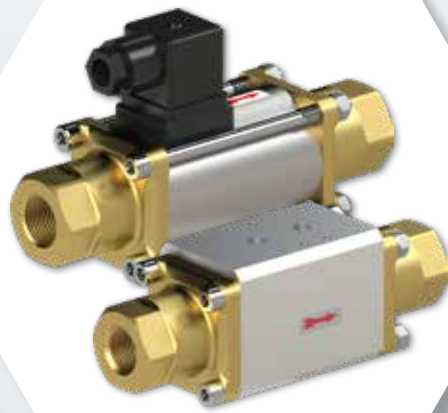


Coaxial valve technology

Control media reliably
with CX valves from HYDAC



CX valves control and regulate your media

When it comes to media compatibility, CX valves are a proven component for controlling vacuum as well as gaseous, gelatinous, highly viscous, pasty and, above all, contaminated and aggressive media. They can therefore be used for a wide range of applications.

The range of models extends from simple switch valves to special application-specific valves and complete modules.

A broad range of sizes and connection types combined with seal materials and housing materials which are compatible with the medium enable our engineers to develop tailor-made solutions for an almost unlimited range of applications.

Made in Germany

HYDAC offers more than just first-class quality. We rely on in-house production. For us, this means a “Made in Germany” promise. Your advantages are clear: we not only deliver quickly, we press ahead with custom developments in very short time frames. The direct communication channels between development, production and you as a customer combined with our exceptional engineering skills makes for the perfect mix.

Close links between development and sales

Try out new projects or make use of our extensive standard assortment. No matter what, our deliveries are always fast and straightforward. From established products to minor modifications and complete custom solutions – talk to us about your project.



CX valve – the media valve for all media, even the most challenging ones

CX valves offer you decisive advantages:

Pressure balanced design

- System pressure and Δp do not have any influence on the switching forces
- Valves switch from 0 bar; no minimum differential pressure is required
- High pressures can be switched with low energy consumption

Back pressure tight

- When closed, the pressure on the outlet side can be higher without any leakage occurring
- There is no need for additional valves, such as non-return valves

Fast actuation

- The valve design enables fast switching times
- Repeatable switching behaviour in less than 40 ms
- Precise switching and high switching cycle rate

Bi-directional operation

- The valve design allows for flow in both directions
- 100% reliability in both directions
- Their application reduces the number of other, conventional valves

Resistant to dirt

- Valve design with only one moving part, which makes it resistant to dirt
- Long service life and low maintenance effort

Compact size

- Valve drive is located around the control tube, so no bulky valve drives
- CX valves fit into the pipework
- For use in confined installation spaces

CX valves – product portfolio

2/2-way, direct-acting



3/2-way, direct-acting



2/2-way, externally controlled



3/2-way, externally controlled



2/2-way, direct-acting Modular



3/2-way, externally controlled Modular



2/2-way, direct-acting Modular plug-in



3/2-way, externally controlled Modular plug-in



2/2-way, externally controlled Compact



2/2-way, externally controlled Compact modular



2/2-way, externally controlled Cartridge valve



2/2-way, externally controlled Modular cartridge valve



2/2-way, direct-acting Flanged valves



2/2-way, externally controlled Flanged valves



2/2-way, direct-acting High-pressure valve



Pressure relief valves



Pressure-reducing valves



Position control valves



ATEX valves



Customised solutions

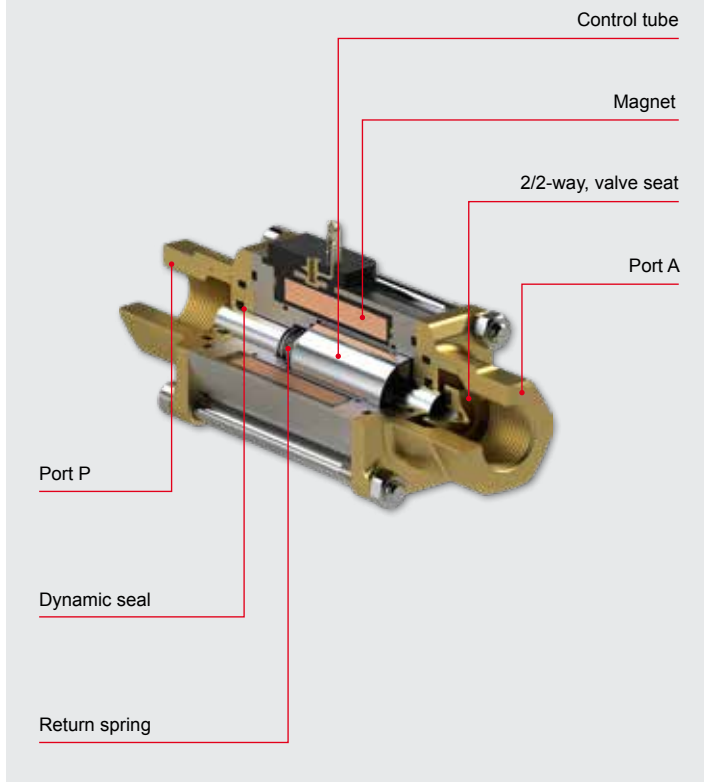


The valves are technically designed for specific media and applications, which may lead to deviations from the general specifications mentioned in terms of design, sealing materials and parameters.

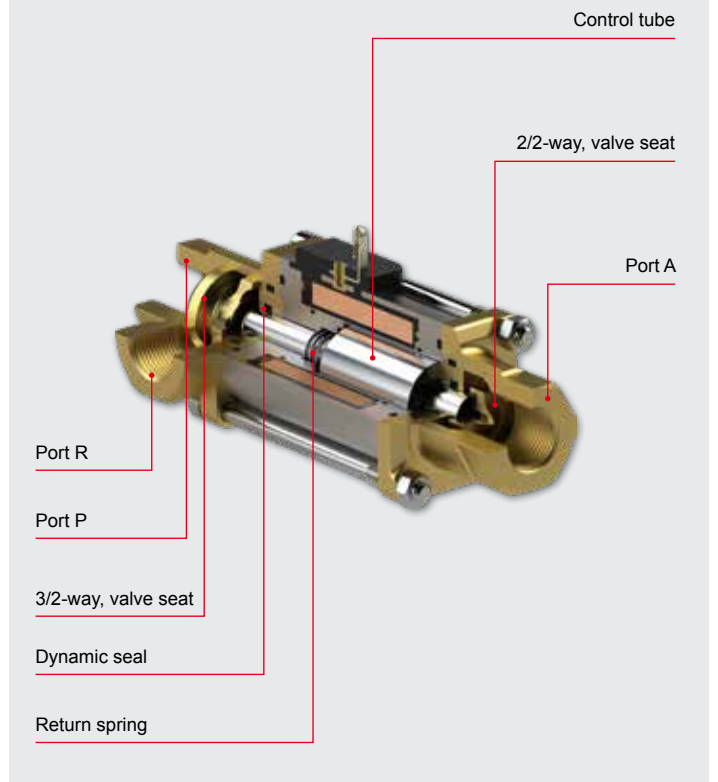
Direct-acting CX valves

Structural design


2/2-way coaxial valve with sleeve connection type




3/2-way coaxial valve with sleeve connection type



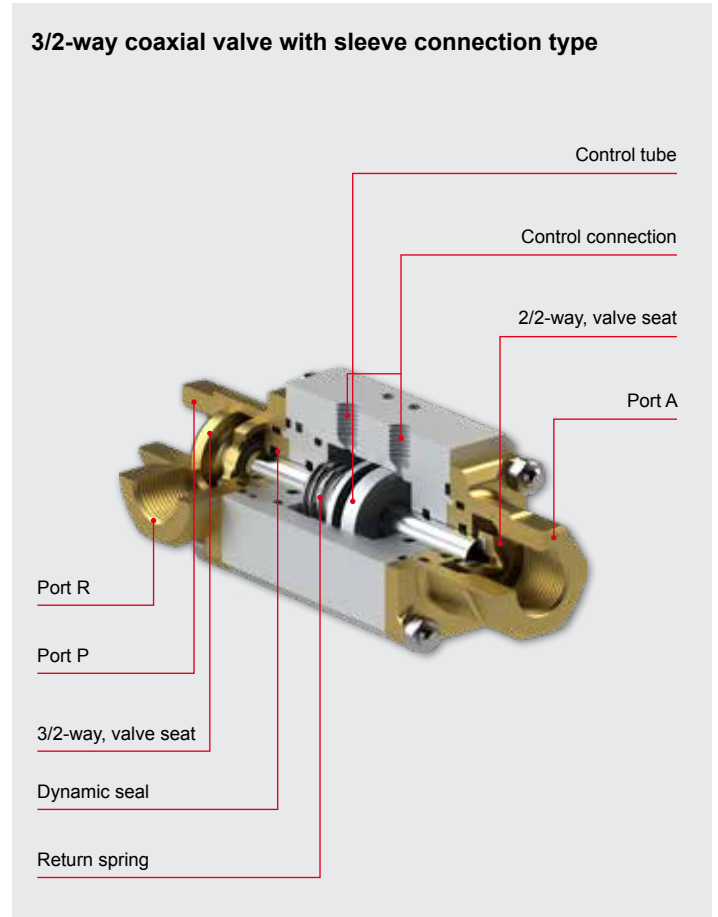
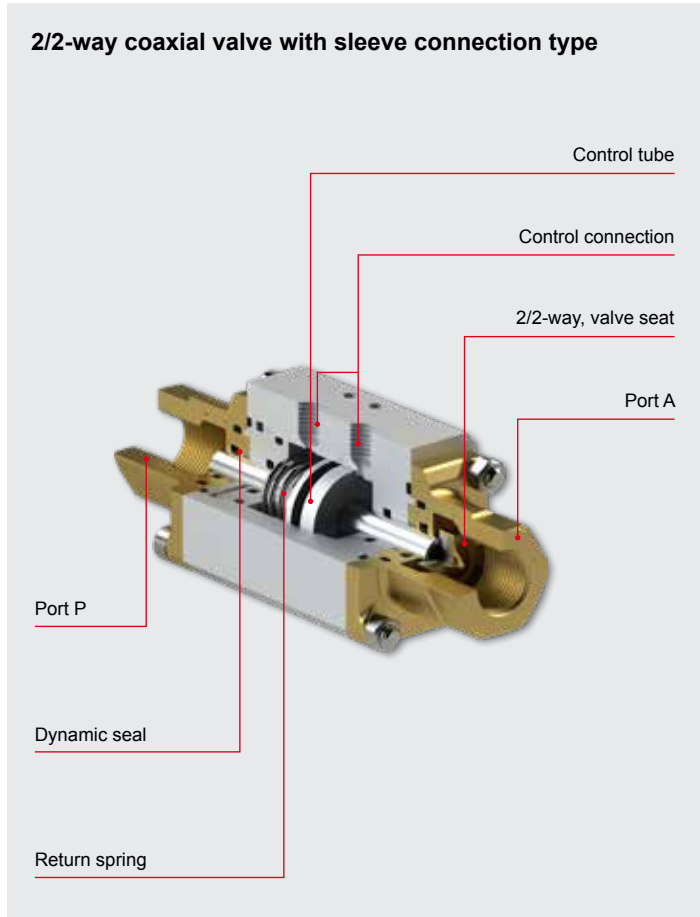
Technical specifications

 2/2-way valve	Nominal diameter in mm	DN10	DN15	DN20	DN25	DN32	DN40	DN50
	Kv value in m ³ /h (l/min)	2.5 (42)	5.2 (87)	7.0 (117)	12.3 (205)	20.0 (333)	45.7 (762)	47.2 (787)
	Pressure range in bar	0 – 20/ 40/64/100	0 – 20/ 40/64/100	0 – 20/ 40/64/100	0 – 20/ 40/64/100	0 – 20/ 40/64/100	0 – 16	0 – 16
	Sleeve connection	G 1/4" – 1/2"	G 3/8" – 3/4"	G 1/2" – 1"	G 3/4" – 1 1/4"	G 1" – 1 1/2"	G 1 1/2"	G 2"


 3/2-way valve	Nominal diameter in mm	DN10	DN15	DN20	DN25	DN32	DN40	DN50
	Kv value in m ³ /h (l/min)	2.0 (33)	5.6 (93)	8.0 (133)	11.5 (192)	17.9 (298)	41.5 (692)	43 (717)
	Pressure range in bar	0 – 40/ 64	0 – 40/ 64	0 – 40/ 64	0 – 40/ 64	0 – 40/ 64	0 – 16	0 – 16
	Sleeve connection	G 1/4" – 1/2"	G 3/8" – 3/4"	G 1/2" – 1"	G 3/4" – 1 1/4"	G 1" – 1 1/2"	G 1 1/2"	G 2"


Externally controlled CX valves

Structural design



Technical specifications

	Nominal diameter in mm	DN10	DN15	DN20	DN25	DN32	DN40	DN50
	Kv value in m ³ /h (l/min)	2.7 (45)	7.2 (120)	9.4 (157)	14.5 (242)	20.0 (333)	45.7 (762)	47.2 (787)
	Pressure range in bar	0 – 64 / 120 / 160	0 – 64 / 120 / 160	0 – 64 / 120 / 160	0 – 64 / 120 / 160	0 – 64 / 120 / 160	0 – 64 / 100	0 – 64 / 100
	Sleeve connection	G 1/4" – 1/2"	G 3/8" – 3/4"	G 1/2" – 1"	G 3/4" – 1 1/4"	G 1" – 1 1/2"	G 1 1/2"	G 2"

	Nominal diameter in mm	DN10	DN15	DN20	DN25	DN32	DN40	DN50
	Kv value in m ³ /h (l/min)	2.5 (42)	6.6 (110)	10.0 (167)	12.2 (203)	17.9 (298)	41.5 (692)	43 (717)
	Pressure range in bar	0 – 64 / 100	0 – 64 / 100	0 – 64 / 100	0 – 64 / 100	0 – 64 / 100	0 – 64 / 100	0 – 64 / 100
	Sleeve connection	G 1/4" – 1/2"	G 3/8" – 3/4"	G 1/2" – 1"	G 3/4" – 1 1/4"	G 1" – 1 1/2"	G 1 1/2"	G 2"

Applications



Machine and system engineering



Machine tools



Iron and steel industry



Maritime technology



Energy



Power plants



Mobile applications

Our success story ▶



Other applications:

- Test bench technology
- Cleaning systems
- Vacuum systems
- Biogas facilities
- Transmission technology
- Extruder systems
- Oxygen technology
- Fire extinguishing systems
- Automotive
- Welding equipment and much more



Contact us today

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HYDAC is your development partner

Drawing on over 60 years of expertise in the fields of fluid technology, hydraulics and electronics and boasting a high level of innovation, we are dedicated to the technologies of the future.

10,000 employees, 50 HYDAC subsidiaries and more than 500 sales and service partners ensure that HYDAC is on hand to help you as a reliable partner worldwide. The delivery programme extends from components and subsystems right up to complex drive units with closed-loop control for mobile and stationary systems. We also offer our customers a large range of technical services relating to HYDAC fluid engineering for hydraulic oil, lubricants, coolants and water.

Trust in our expert global network and our top quality standards.



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Comment

The information in this brochure relates to the operating conditions and applications described. For applications and/or operating conditions not described here, please contact the relevant technical department.

Subject to technical modifications.