

Coaxial Valve TYPE CV04 / CV05



Description:

2/2-way coaxial valves are used to control a medium in a piping system. Coaxial valves of the CV series activate at 0.0 bar.

Product Features:

- Suitable for neutral **gaseous and liquid media (select Option 1 for water)**
- Back-pressure tight up to max. 16 bar
- Flow direction reversible
- Any installation position

Connection:

3/8" DN10, 1/2" DN15, 3/4" DN20, 1" DN25

Temperature:

Fluid: -10°C to 100°C*

Pressure:

0.0 bar to 160.0 bar
depending on model

Type:

2/2-way, pilot-operated

Body material:

Brass

Stainless steel 1.4305 / AISI 303

Temperature:

Fluid: -10°C to 100°C*

Ambient: -10°C to 50°C

Seal material:

Static: FKM

Dynamic: FKM, PTFE

Seat seal: PTFE

Connection:

Internal thread

Connection diagram:

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Pressure range:

Version 1: Flow direction P -> A: max. 64.0 bar

Version 2: Flow direction P -> A: max. 120.0 bar

Version 3: Flow direction P -> A: max. 160.0 bar

Versions 1 through 3: Flow direction A -> P: max. 16.0 bar

3 – 8 bar

Control pressure:

Function:

NC – normally closed | NO – normally open

Switching times:

Open / Close 50 – 1000 ms (depending on control pressure)

Actuator:

Double-acting piston with return spring

Specifications:

Technical data

Threaded connection

Kv value

Weight

DN10

G 3/8"

2.7 m³/h

1.6 kg

DN15

G 1/2"

7.2 m³/h

2.8 kg

DN20

G 3/4"

9.4 m³/h

4.0 kg

DN25

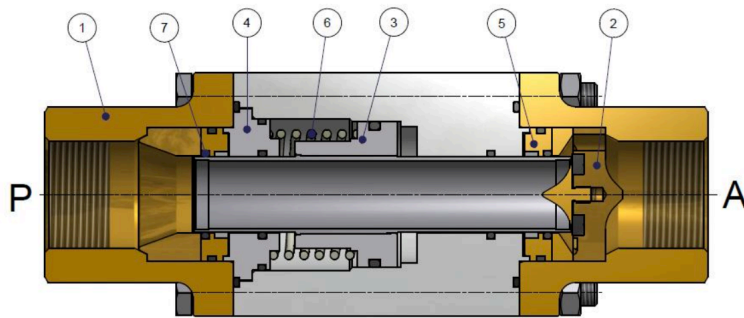
G 1"

14.5 m³/h

5.3 kg

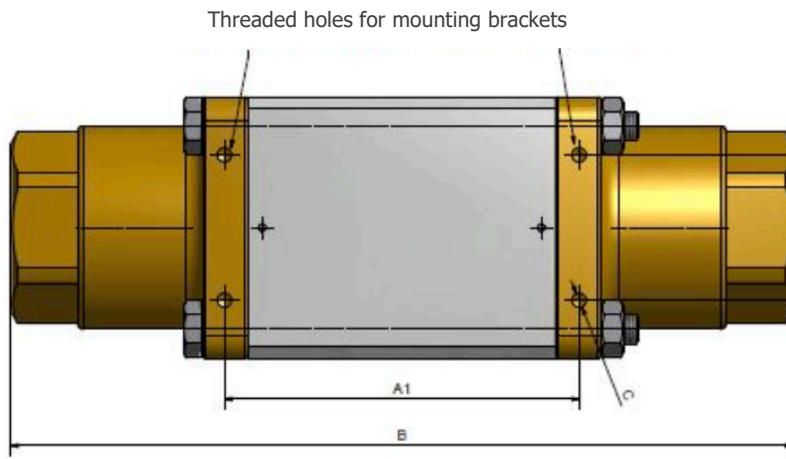
*For water up to 80°C only

Sectional drawing:

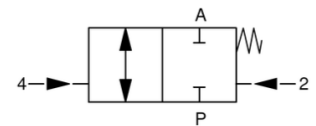


Item	Quantity	Description
1	2	Connector
2	1	Valve seat
3	1	Piston / Control tube
4	1	Actuator disc
5	2	Guide disc
6	1	Spring
7	2	PTFE rod seal

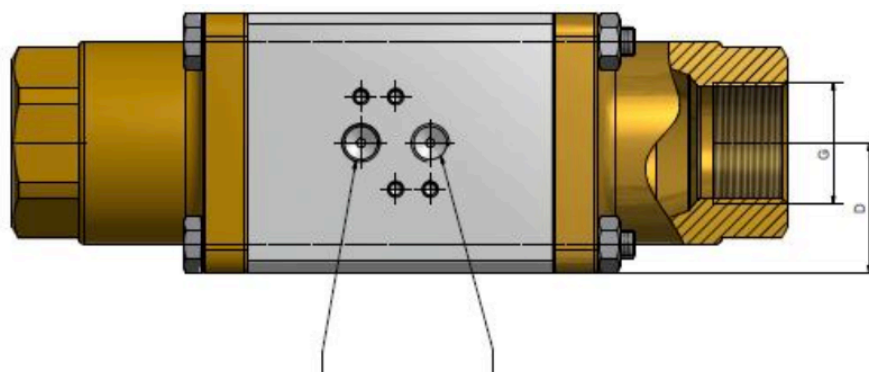
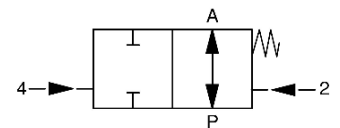
Dimensional drawing (in mm):



Switching function A:
NC (normally closed)

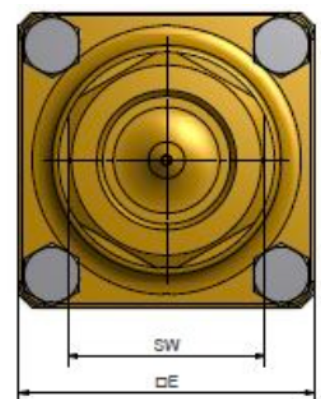


Switching function B:
NO (normally open)



Wiring diagram according

Control connection:
DN10: G 1/8
DN15 – DN25: G 1/4



DN	G	SW	A1	B	C	D	E
10	3/8"	32	84	159.5	M4	25	50
15	1/2"	41	100	184	M5	35	70
20	3/4"	46	108	215	M5	40	80
25	1"	55	121	246	M5	45	90

Options (upon request):

- NBR and EPDM seals
- Flange connections
- Nominal diameters 1 1/2" (DN40) and 2" (DN50)
- Housing material: stainless steel 1.4571, galvanized steel, nickel-plated steel
- Vacuum version
- Mounting bracket
- Oil- and grease-free version
- Exhaust air throttle
- Silencer
- 5/2-way pilot valve + LED device socket
- ATEX version

Part number:

Model	Pressure range	Option	Function	Size
CV04 – Brass	00 – 0 to 64 bar	0 – Standard	0 – NC normally closed	02 – G 3/8"
CV05 – Stainless steel	01 – 0 to 120 bar 02 – 0 to 160 bar	1 – Water	1 – NO normally open	03 – G 1/2"
				04 – G 3/4"
				05 – G 1"

Example No. CV05000004:

CV05	00	0	0	04
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Stainless steel coaxial valve

Pressure range: 0 to 64 bar

Option: Standard

Function: NC - normally closed

Size: G 3/4"

Illustration is for reference only; subject to technical and dimensional changes.