

High Pressure 2-way/3-way Coaxial Valve



High pressure coaxial valves are the best choice in process and fluid control and combine performance, economy and availability.

FEATURES

- Bi-directional compact design and NPT end connections.
- Fast actuation, high cycle life and maintenance free.
- Limit switches and solenoids available (pneumatic only).

TYPICAL APPLICATIONS

- Vacuum and gaseous applications.
- Liquid, gelatinous and highly viscous media.
- High cycle applications.

MATERIALS OF CONSTRUCTION

Seats:

PTFE.

Seals:

FPM.

Control tube:

Stainless steel.

End Caps:

Brass or stainless steel.

Center Body (non wetted):

Aluminum (pneumatic) or nickel plated steel (electric).

Bolts:

Steel.

TEMPERATURE RANGE

-4°F to 140°F

VAX SERIES MODEL NUMBERING

Model Number: X VAX X X X X X X Size (NPT):

B = 3/8"
C = 1/2"
D = 3/4"
E = 1"

Material:
B = Brass
S = Stainless Steel

Configuration:

2 = 2-way

3 = 3-way (Brass Only)

Actuator Style:

 $\mathbf{P} = Pneumatic$

E = Electric

Fail Position: ——

O= Fail Open (2-way), Fail Port A To B (3-way)

C = Fail Closed (2-way), Fail Port A To C (3-way)

Voltage (Electric Only): -

A = 110 VAC

B = 24 VDC

MAXIMUM PRESSURE

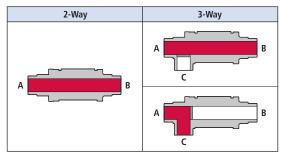
 ΔP 600 PSI: Pneumatic, A to B, A to C or B to A

ΔP 600 PSI: Electric, A to B

or A to C

 ΔP 180 PSI: Electric, B to A

VALVE CONFIGURATIONS



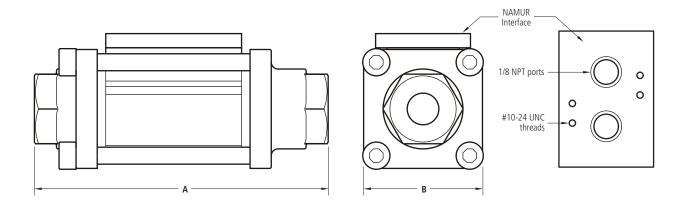
CV FACTORS

CV							
A to B	A to C						
2.5	2.2						
6.1	4.5						
10.8	7.7						
15.0	12.7						
2.5	1.8						
6.0	4.1						
8.6	6.4						
14.0	11.7						
	2.5 6.1 10.8 15.0 2.5 6.0 8.6						



High pressure 2-way coaxial valve

(Pneumatic, spring return)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	А	В	Actuating	Actuation Time (6	0 PSI line pressure)	18/4 /lbs \	Model No.		
Size			Pressure (PSI)	Opening	Closing	Wt. (lbs.)	Fail Open	Fail Closed	
3/8"	5.71	1.97	60-120	30 ms	50 ms	2.87	BVAXS2PO	BVAXS2PC	
1/2"	6.81	2.76	60-120	35 ms	60 ms	5.51	CVAXS2PO	CVAXS2PC	
3/4"	7.60	3.15	60-120	40 ms	60 ms	8.38	DVAXS2PO	DVAXS2PC	
1"	8.35	3.54	60-120	50 ms	70 ms	11.24	EVAXS2PO	EVAXS2PC	

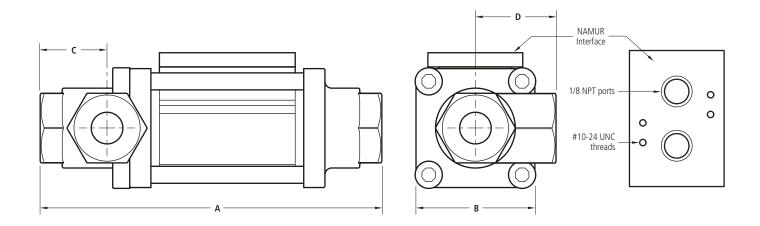
VAX VALVE FEATURES

- Bi-directional compact design and NPT end connections.
- Fast actuation, high cycle life and maintenance free.
- NAMUR solenoid mounting pad.
- Limit switches and solenoids available.



High pressure 3-way coaxial valve

(Pneumatic, spring return)



DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	А	В	В	_													р с			Actuating	Actuation Time (6	0 PSI line pressure)	18/4 /lbs \	Mode	el No.
Size				U	Pressure (PSI)	Opening	Closing	Wt. (lbs.)	Fail Open	Fail Closed															
3/8"	6.54	1.97	1.26	1.46	60-120	30 ms	50 ms	3.31	BVAXB3PO	BVAXB3PC															
1/2"	7.87	2.76	1.52	2.36	60-120	35 ms	60 ms	6.61	CVAXB3PO	CVAXB3PC															
3/4"	9.02	3.15	1.79	2.83	60-120	40 ms	60 ms	9.70	DVAXB3PO	DVAXB3PC															
1"	9.80	3.54	1.89	3.15	60-120	50 ms	70 ms	13.45	EVAXB3PO	EVAXB3PC															

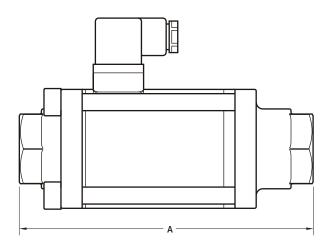
VAX VALVE FEATURES

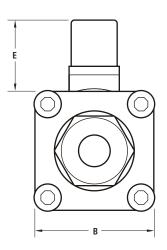
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High pressure 2-way coaxial valve

(Electric, direct acting, spring return)





DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size			E E		E Current Consumption		nsumption	OperatingTime		18/4 /lbs \	Model No.	
5126	e	A B	AC	DC	AC	DC	Opening	Closing	Wt. (lbs.)	Fail A to B	Fail B to A	
3/8	"	5.71	1.97	1.83	1.58	0.36 A	1.45 A	45 ms	70 ms	3.75	BVAXS2EO@	BVAXS2EC ①
1/2	"	6.81	2.76	1.83	1.58	0.41 A	2.1 A	60 ms	130 ms	8.16	CVAXS2E0①	CVAXS2EC ①
3/4	."	7.60	3.15	1.83	1.58	0.56 A	2.2 A	105 ms	150 ms	11.90	DVAXS2E0①	DVAXS2EC@
1"	'	8.35	3.54	1.83	1.58	0.62 A	2.5 A	150 ms	190 ms	15.65	EVAXS2E0①	EVAXS2EC@

① Voltage: **A** = 110 VAC; **B** = 24 VDC.

VAX VALVE FEATURES

- Bi-directional compact design and NPT end connections.
- Fast actuation, high cycle life and maintenance free.
- IP 65 rating.

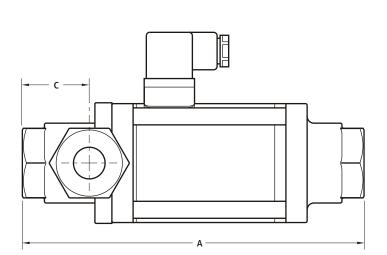
ELECTRIC ACTUATOR FEATURES

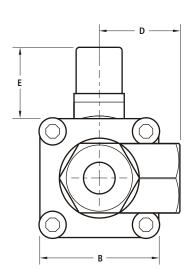
- Electrical DIN cord grip connection: PG9, plug acc. DIN EN 175301-803 form A, LED.
- Insulation class H.
- IP 65 enclosure protection.
- Energized duty rating: ED 100%.



High pressure 3-way coaxial valve

(Electric, direct acting, spring return)





DIMENSIONS, WEIGHTS & SPECIFICATIONS

Size	_	В	В	D.	В		D		B	В	D	В								E		Current Consumption		OperatingTime		1874 /lb - \	Model No.	
Size	A	В		ט	AC	DC	AC	DC	Opening	Closing	Wt. (lbs.)	Fail A to B	Fail B to A															
3/8"	6.54	1.97	1.26	1.46	1.83	1.58	0.36 A	1.45 A	45 ms	70 ms	4.41	BVAXB3EO①	BVAXB3EC ①															
1/2"	7.87	2.76	1.52	2.36	1.83	1.58	0.41 A	2.1 A	60 ms	130 ms	9.04	CVAXB3EO ①	CVAXB3EC@															
3/4"	9.02	3.15	1.79	2.83	1.83	1.58	0.56 A	2.2 A	105 ms	150 ms	13.23	DVAXB3E0①	DVAXB3EC@															
1"	9.80	3.54	1.89	3.15	1.83	1.58	0.62 A	2.5 A	150 ms	190 ms	17.86	EVAXB3E0①	EVAXB3EC①															

① Voltage: $\mathbf{A} = 110 \text{ VAC}$; $\mathbf{B} = 24 \text{ VDC}$.

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