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RSG Series High Pressure Electric and Pneumatic Coaxial Valves



FEATURES

- Integrated pneumatic or electric actuator
- NAMUR solenoid mounting pad (for pneumatic models)
- Compact assembly
- Fast valve actuation
- High C_V (flow coefficient)
- High cycle-life
- Competitive price

SPECIAL MODELS

• Prepared for use with Oxygen (special request - fees apply)

SIZES & END CONNECTIONS

NPT: 1/4" to 1 1/4"

Cv FACTORS

The RSG Series are a compact and reliable solution for on/off control and 3-way diverting valves in process applications. They are fast acting and provide a high cycle-life. They can be safely and effectively mounted in any position.

The compact design incorporates the actuator into the valve body. Both pneumatic and electric models use a shuttle style flow tube that moves back and forth to control the fluid. Pneumatic models have the air chamber wrapped around this flow tube and moves the tube like a piston in a cylinder. Electric models use an electromagnetic coil wrapped around the flow tube. When energized, this coil creates a magnetic force that moves the flow tube. Both versions use a spring to return the tube to its "normal" position.

MATERIALS

Body (non-wetted): Electric: Ni plated steel Pneumatic: Aluminum

- Flow Control Tube: Stainless steel
- End Connections: Brass or stainless steel

Main Seat: PTFE

O-ring & Lip Seals: FKM

MAXIMUM PRESSURE

2-way:

Pneumatic: $P \rightarrow A$ 928 psi; $A \rightarrow P$ 232 psiElectric: $P \rightarrow A$ 580 psi; $A \rightarrow P$ 232 psi**3-way:** $P \rightarrow A$ 928 psi; $A \rightarrow P$ 232 psiPneumatic: $P \rightarrow A$ 928 psi; $A \rightarrow P$ 232 psi $P \rightarrow R$ 928 psi; $R \rightarrow P$ 232 psiElectric: $P \rightarrow A$ 580 psi; $A \rightarrow P$ 232 psi $P \rightarrow R$ 580 psi; $R \rightarrow P$ 232 psi

TEMPERATURE RANGE

Media: 14°F to 212°F Ambient: 14°F to 122°F

TYPICAL APPLICATIONS

- Air drying equipment
- Pollution control equipment
- Process control applications
- Laundry equipment
- Textile dyeing and drying
- Bottling and dispensing equipment
- Ink and paint dispensing
- Industrial compressors

Size 2-w		A ∕ P → A	R P → 3-way P → A			
	Electric	Pneumatic	Electric	Pneumatic		
1/4" (DN 10)	2.9	3.1	2.3	2.9		
3/8" (DN 10)	2.9	3.1	2.3	2.9		
1/2" (DN 10)	2.9	3.1	2.3	2.9		
3/4" (DN 15)	6	8.3	6.5	7.6		
1″ (DN 20)	8.1	10.9	9.2	11.56		
1 1/4″ (DN 25)	14.2	16.8	13.3	14.1		



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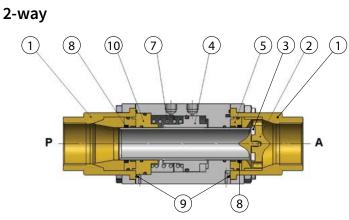


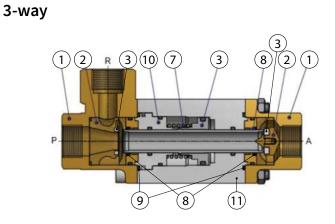




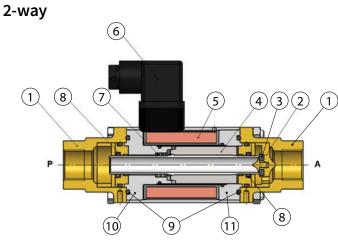
MATERIALS & CONSTRUCTION

Pneumatic

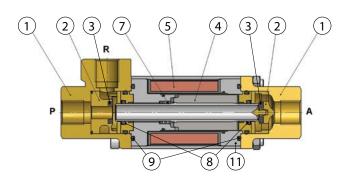




Electric



3-way



Item	Part / Feature	Description			
1	End Connections	Brass or Stainless Steel			
2	Seat Support Insert(s)	Brass or Stainless Steel			
3	Seat(s) Pneumatic: PTFE; Electric: FKM				
4	Plunger (piston & control tube) Stainless Steel				
5	Coil	Holds seat in place but allows flow around			
6	Electrical Connector	DIN EN 175301-803 form A			
7	Spring	Stainless Steel			
8	Tube Seals	PTFE			
9	Body Seal Orings	FKM			
10	Actuator Plate Brass or Stainless Steel				
11	Body	Pneumatic: Aluminum; Electric: Ni plated steel			



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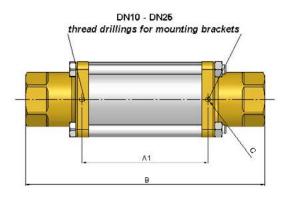
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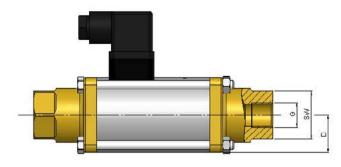






270 Series (2-way Electric) [dimensions in mm]







G (NPT)	DN (mm)	SW	A1	В	с	D	E	Weight (Kg)
1/4	10	32	84	159.5	M4	25	50	1.7
3/8	10	32	84	159.5	M4	25	50	1.7
1/2	10	32	84	159.5	M4	25	50	1.7
3/4	15	41	100	184	M5	35	70	3.6
1	20	46	108	215	M5	40	80	5.4
1 1/4	25	55	121	246	M5	45	90	7.1



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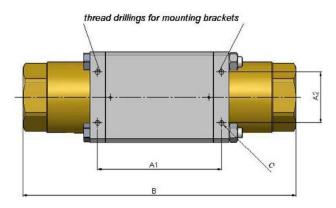
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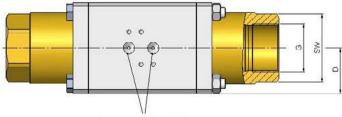






280 Series (2-way Pneumatic) [dimensions in mm]







mounting face according to Namur

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		DE		

DN (mm)	G (NPT)	SW	A1	В	с	D	E	Weight (Kg)
10	1/4	32	84	159.5	M4	25	50	1.6
10	3/8	32	84	159.5	M4	25	50	1.6
10	1/2	32	84	159.5	M4	25	50	1.6
15	3/4	41	100	184	M5	35	70	2.8
20	1	46	108	215	M5	40	80	4.0
25	1 1/4	55	121	246	M5	45	90	5.3



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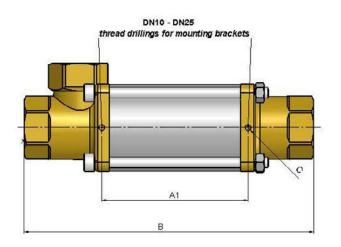
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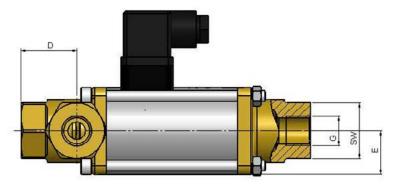


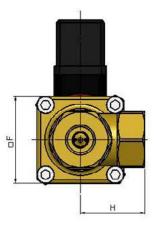




370 Series (3-way Electric) [dimensions in mm]







DN (mm)	G (NPT)	SW	A1	В	С	D	E	F	н	Weight (Kg)
10	3/8	32	84	166.5	M4	32	25	50	37	1.9
10	1/2	32	84	166.5	M4	32	25	50	37	1.9
15	3/4	41	100	200	M5	38.5	35	70	60	4.0
20	1	46	108	228	M5	45.5	40	80	72	6.0



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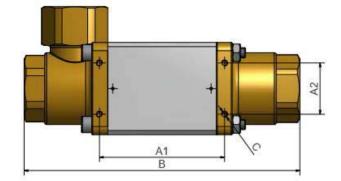
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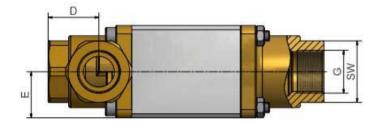


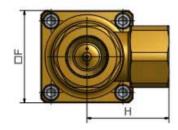


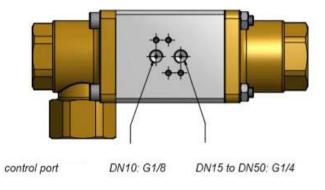


380 Series (3-way Pneumatic) [dimensions in mm]









mounting face according to Namur

DN (mm)	G (NPT)	SW	A1	В	с	D	E	F	н	Weight (Kg)
10	3/8	32	84	166.5	M4	32	25	50	37	2.5
10	1/2	32	84	166.5	M4	32	25	50	37	2.5
15	3/4	41	100	200	M5	38.5	35	70	60	6.6
20	1	46	108	228	M5	45.5	40	80	72	10.0



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RSG Series 🥇	High Pressure Electric & Pneumatic Coaxial Valves
ORDERING INFORMATION	2 70 - A - 07 - 06 - 10 - V4 - N1/2 - F - 12060 Func. Actuation Type Fail Electric Options Body Fail Electric Options Bize Material Voltage
RSG	
Function:	
 2 = 2-way 2-position 3 = 3-way 2-position (Brass ONLY) 	
Actuation Type:	
7 = Electric	
8 = Pneumatic Normal / Fail Position:	
 A = Normally Closed B = Normally Open 	
Electric Options: 00 = No options (24VDC and all pre	
06 = 120 VAC	
Body Size:	
10 = DN 10 (1/4", 3/8", 1/2") 15 = DN 15 (3/4") 25 = DN 20 (1") 32 = DN 25 (1 1/4")	
Body Material:	
M0 = Brass V4 = Stainless Steel	
Connection / Line Size:	
N1/4 = 1/4" NPT (2-way ONLY) N3/8 = 3/8" NPT N1/2 = 1/2" NPT N3/4 = 3/4" NPT N1 = 1" NPT N1.25 = 1 1/4" NPT (2-way ONLY)	
Seal Material:	
$\mathbf{F} = FKM$	
Voltage:	

12060 = 110-120 VAC / 50-60 Hz

2400 = 24VDC

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RSG Series



High Pressure Electric & Pneumatic Coaxial Valves

ACCESSORIES

Solenoid Pilot Valves

NAMUR solenoid valves for direct mount to coaxial valve (optional NP mounting plate required). Various coil and connector options are available including weatherproof, explosion proof, corded, NPT conduit, and cable gland.

3-way for spring return models

3/4-way for for double acting models





