



by ALFACOM

ASV SERIES

**PNEUMATIC
SOLENOID VALVES**

**Control.
Reliability.
Versatility.**



PRODUCT OVERVIEW

Directional pneumatic solenoid valves for actuator and air-control applications.

ASV2 SERIES



G 1/8" | Aluminum Body

3/2 NC, 5/2 or 5/3

ASV3 SERIES



G 1/4" | Aluminum Body

3/2 NC, 5/2 or 5/3

ASV4 SERIES



G 1/2" | Aluminum Body

3/2 NC, 5/2 or 5/3

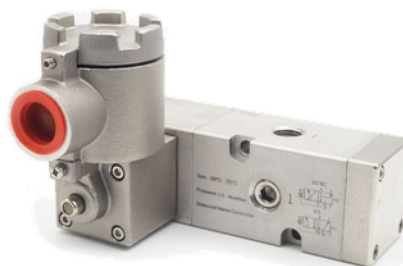
ASV5 SERIES



G 1/4" | Multifunction Body

NAMUR / In-line | F4 or F5 coil

ASV6 SERIES



G 1/4" | SS316 Body

NAMUR / In-line | F6 coil

FLEXIBLE CONFIGURATION

- **NAMUR & IN-LINE**
Multiple mounting options

- **3/2, 5/2 & 5/3**
Directional functions

- **STANDARD & Ex COILS**
C0, F4, F5 and F6

ORDERING GUIDE

Build the model code from body size, coil arrangement, mounting, function and voltage.

MODEL CODE EXAMPLE

ASV - 2 10 N 2 C0 A - 24VDC

CODE POSITION	AVAILABLE OPTIONS
Body / Port Size	2: Aluminum G 1/8 3: Aluminum G 1/4 4: Aluminum G 1/2 5: Aluminum G 1/4 6: SS316 G 1/4
Coil Arrangement	10: Single coil (monostable) 20: Double coil (bistable)
Mounting	N: NAMUR mounting P: In-line / pipe connection
Function	1: 3/2 normally closed 2: 5/2 3: 5/3
Coil	C0: Standard IP65 F4: Intrinsically safe F5: Ex aluminum F6: Ex SS316
Connector	A: DIN with LED B: DIN black C: AMISCO D: 1/2 NPT entry
Voltage	12/24 VDC 24/110/220 VAC (coil-dependent)

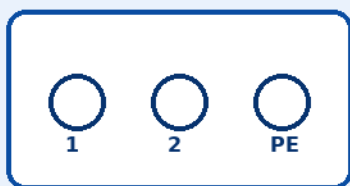
IMPORTANT

F4, F5 and F6 coils are intended for ASV5 / ASV6 valve bodies. Confirm voltage, cable entry and hazardous-area certification before ordering.

WIRING & SAFETY

Electrical connection must be completed by qualified personnel.

CONNECTION PRINCIPLE



Supply terminals 1 / 2 • Protective earth PE

C0 DIN CONNECTOR



Standard coil connection

- Disconnect electrical power before opening or wiring the connector.
- Wire in accordance with applicable local standards and regulations.
- Provide protective earthing where required by the supply voltage and installation.
- Cable glands are optional unless specifically included in the order.
- Verify coil voltage and duty rating before energizing.

SAFETY NOTE

Never connect or disconnect an energized coil in a hazardous area. Installation of F4, F5 or F6 coils must follow the applicable certificate and site classification requirements.

ASV2 SERIES

ALUMINUM SOLENOID VALVE - G 1/8

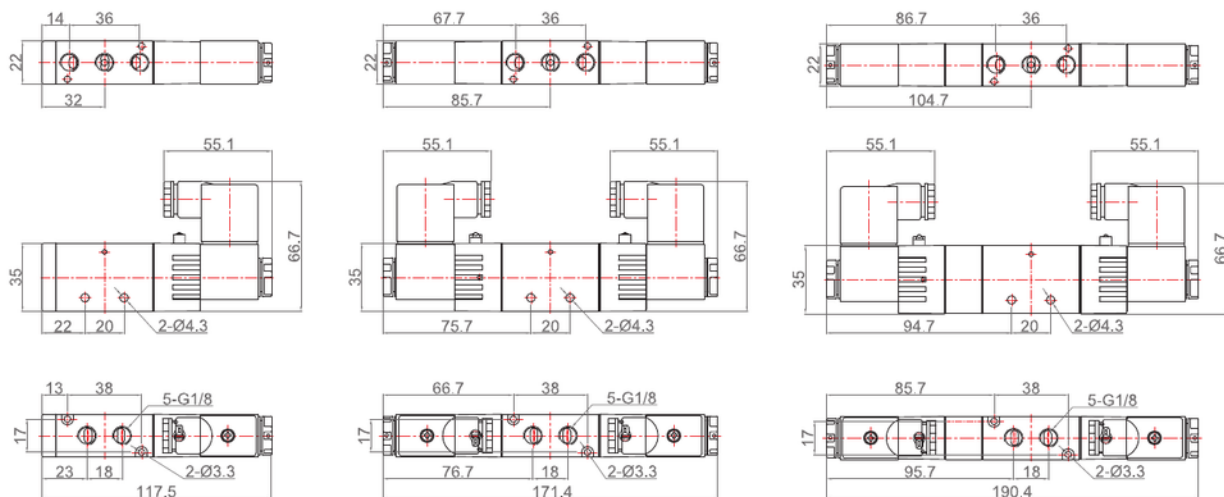
TECHNICAL DATA	VALUE
Function	3/2 NC, 5/2 or 5/3
Effective Area / Cv	14 mm ² (Cv 0.78) or 12 mm ² (Cv 0.67)
Port Size	G 1/8
Working Medium	40 µm filtered dry air
Action	Pilot operated
Service Pressure	1.5 - 8 bar
Max. Pressure Resistance	12 bar
Working Temperature	-20 to +70 °C
Design Life	10,000,000 cycles
Coil Model	C0

MODEL RANGE



ASV-210 / ASV-220

DIMENSIONAL DRAWING



ASV3 SERIES

ALUMINUM SOLENOID VALVE - G 1/4

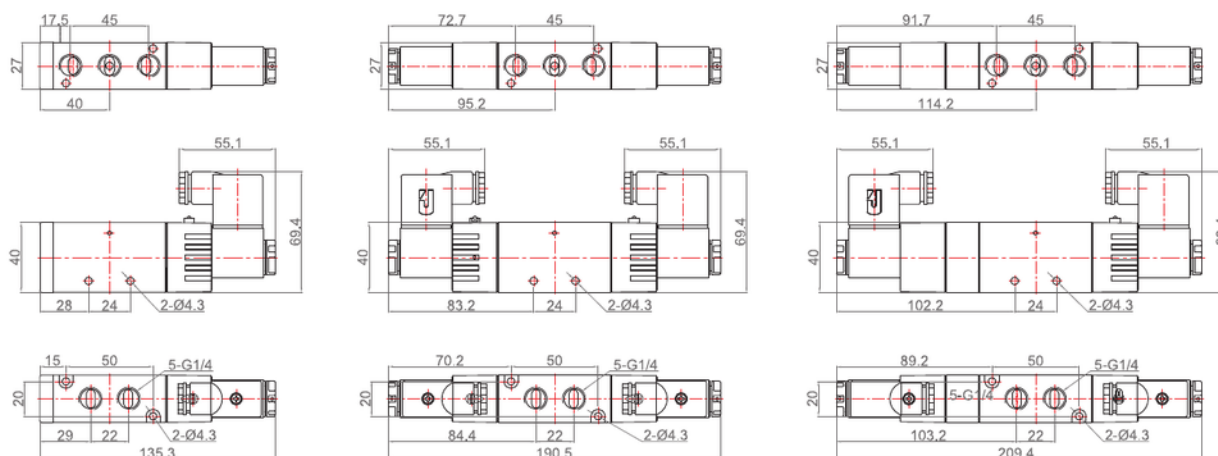
TECHNICAL DATA	VALUE
Function	3/2 NC, 5/2 or 5/3
Effective Area / Cv	25 mm ² (Cv 1.4) or 18 mm ² (Cv 1.0)
Port Size	G 1/4
Working Medium	40 µm filtered dry air
Action	Pilot operated
Service Pressure	1.5 - 8 bar
Max. Pressure Resistance	12 bar
Working Temperature	-20 to +70 °C
Design Life	10,000,000 cycles
Coil Model	C0

MODEL RANGE



ASV-310 / ASV-320

DIMENSIONAL DRAWING



ASV4 SERIES

ALUMINUM SOLENOID VALVE - G 1/2

TECHNICAL DATA	VALUE
Function	3/2 NC, 5/2 or 5/3
Effective Area / Cv	50 mm ² (Cv 2.79) or 30 mm ² (Cv 1.68)
Port Size	G 1/2
Working Medium	40 µm filtered dry air
Action	Pilot operated
Service Pressure	1.5 - 8 bar
Max. Pressure Resistance	12 bar
Working Temperature	-20 to +70 °C
Design Life	10,000,000 cycles
Coil Model	C0

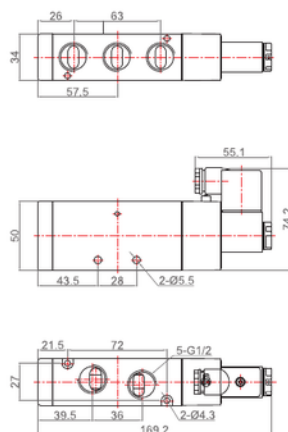
MODEL RANGE



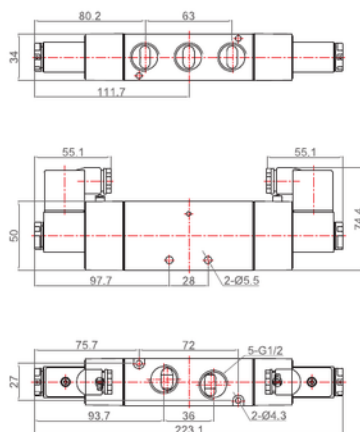
ASV-410 / ASV-420

DIMENSIONAL DRAWING

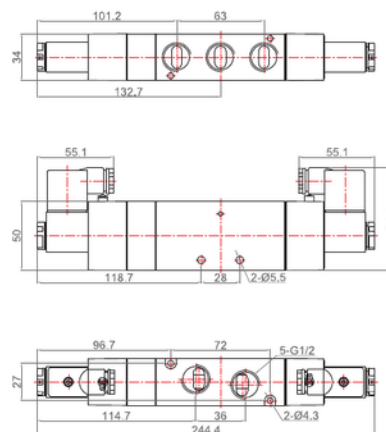
ASV-410P2C0



ASV-420P2C0



ASV-420P3C0



ASV5 SERIES - F4

INTRINSICALLY SAFE MULTIFUNCTION VALVE

TECHNICAL DATA	VALUE
Function	NAMUR / In-line, 5/2 and 3/2 NC
Effective Area / Cv	25 mm ² (Cv 1.4)
Port Size	G 1/4
Working Medium	40 µm filtered dry air
Action	Pilot operated
Service Pressure	2 - 8 bar
Max. Pressure Resistance	10 bar
Working Temperature	-20 to +70 °C
Design Life	3,000,000 cycles
Coil Model	F4

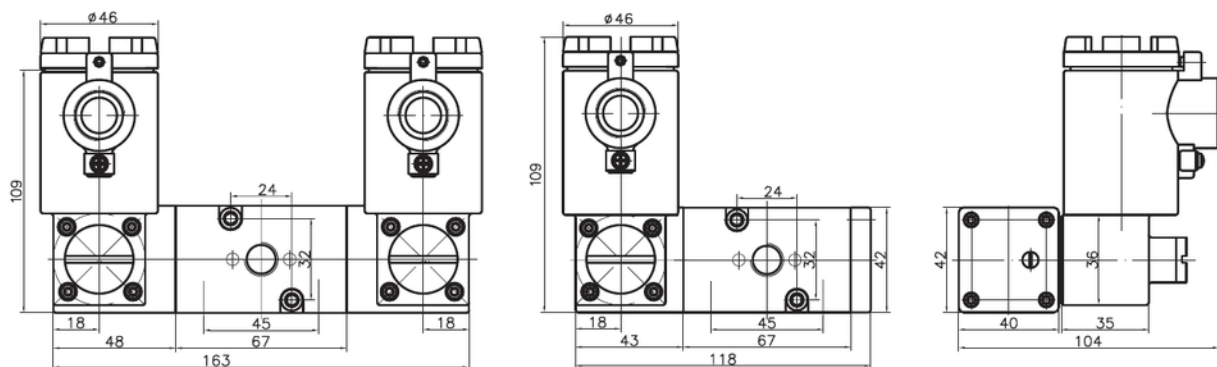
MODEL RANGE



ASV-510F4

Ex ia IIC T6

DIMENSIONAL DRAWING



ASV5 SERIES - F5

EXPLOSION-PROOF MULTIFUNCTION VALVE

TECHNICAL DATA	VALUE
Function	NAMUR / In-line, 5/2 and 3/2 NC
Effective Area / Cv	25 mm ² (Cv 1.4)
Port Size	G 1/4
Working Medium	40 µm filtered dry air
Action	Pilot operated
Service Pressure	2 - 8 bar
Max. Pressure Resistance	10 bar
Working Temperature	-20 to +70 °C
Design Life	3,000,000 cycles
Coil Model	F5

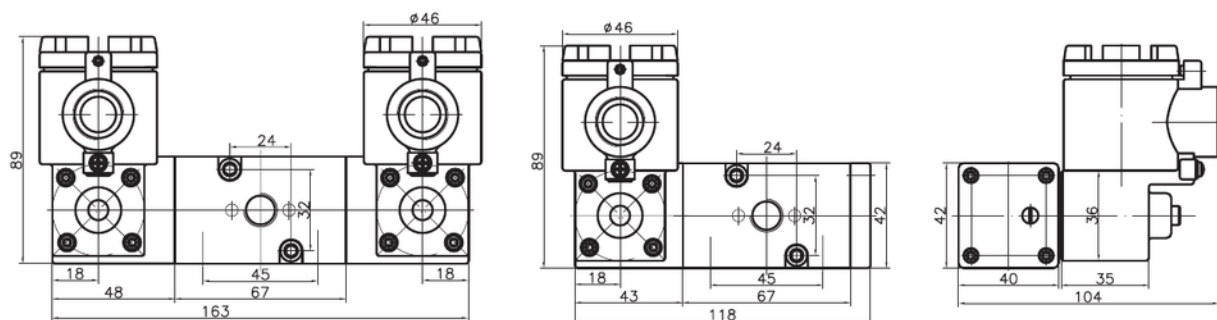
MODEL RANGE



ASV-510F5

Ex d IIC T6

DIMENSIONAL DRAWING



ASV6 SERIES - F6

SS316 EXPLOSION-PROOF MULTIFUNCTION VALVE

TECHNICAL DATA	VALUE
Function	NAMUR / In-line, 5/2 and 3/2 NC
Effective Area / Cv	25 mm ² (Cv 1.4)
Port Size	G 1/4
Working Medium	40 µm filtered dry air
Action	Pilot operated
Service Pressure	2 - 8 bar
Max. Pressure Resistance	10 bar
Working Temperature	-20 to +70 °C
Design Life	3,000,000 cycles
Coil Model	F6

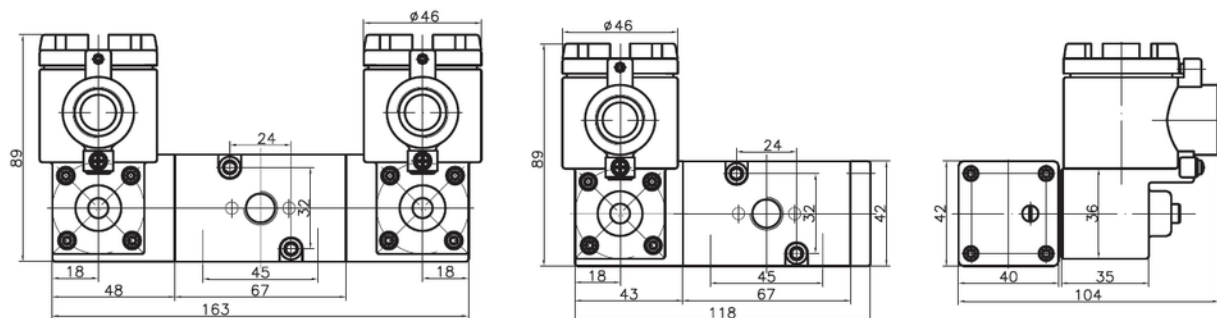
MODEL RANGE



ASV-610F6

SS316 / Ex d IIC T6

DIMENSIONAL DRAWING



* Source table lists coil model F5; model designation and coil section specify F6. Confirm before release.

COIL SPECIFICATIONS

Electrical and environmental data for C0, F4, F5 and F6 coils.

COIL	VOLTAGE / POWER	ENCLOSURE & ENTRY	PROTECTION / CLASSIFICATION	TEMP.
C0	12/24 VDC - 4 W 24/110/220/380 VAC - 4 VA	DIN plug	F class 100% ED IP65, NEMA 4/4X	-5 to +50 °C AMISCO: -20 to +50
F4	24 VDC, <1 W	Aluminum, epoxy coated M20x1.5, 1/2 BSPP or NPT	F class 100% ED IP66 II 1 G Ex ia IIC T6	-10 to +50 °C
F5	12/24 VDC - 3.5/1.5 W 110/220 VAC - 4 VA 240 VAC -	Aluminum, epoxy coated M20x1.5, 1/2 BSPP or NPT	H class 100% ED IP66 Ex d IIC T6, DIPA20 TA, T6	-20 to +60 °C
F6	12/24 VDC - 3.5/1.5 W 110/220 VAC - 4 VA 240 VAC -	Stainless steel 316 M20x1.5, 1/2 BSPP or NPT	H class 100% ED IP66 Ex d IIC T6, DIPA20 TA, T6	-20 to +60 °C

CERTIFICATION CHECK

Explosion-protection markings above reproduce the source catalog. Confirm current certificates, permitted ambient range and complete marking before specifying equipment for a hazardous area.

ACCESSORIES

Adaptors, silencers, speed controls and pneumatic connectors.

AD-N1 ADAPTOR



N2 to N1 | 5/2 to 3/2 NC

ASC-P



Speed controller | G 1/8, 1/4, 1/2

ASC-N



Speed controller | G 1/4

ACCESSORY FAMILY	MODELS / AVAILABLE SIZES
Brass Silencer	BS18 / BS14 / BS38 / BS12 - G or NPT 1/8 to 1/2
Brass Plain Silencer	BSP18 / BSP14 / BSP38 / BSP12 - G or NPT 1/8 to 1/2
SS Plain Silencer	SSP18 / SSP14 / SSP38 / SSP12 - G or NPT 1/8 to 1/2
Plastic Silencer	AB18 / AB14 / AB38 / AB12 - G or NPT 1/8 to 1/2
Brass Speed Control	BSC or BSS series - G or NPT 1/8 to 1/2
Brass Pipe Connector	BP series - G or NPT 1/8 to 1/2, tube 6/8 mm
Nickel-Coated Connector	NP series - G or NPT 1/8 to 1/2, tube 6/8 mm

MODEL SELECTION SUMMARY

Quick comparison of the main valve families.

SERIES	BODY / PORT	FUNCTION	PRESSURE	COIL
ASV2	Aluminum / G 1/8	3/2 NC, 5/2, 5/3	1.5 - 8 bar	C0
ASV3	Aluminum / G 1/4	3/2 NC, 5/2, 5/3	1.5 - 8 bar	C0
ASV4	Aluminum / G 1/2	3/2 NC, 5/2, 5/3	1.5 - 8 bar	C0
ASV5-F4	Aluminum / G 1/4	NAMUR / In-line	2 - 8 bar	F4 - Intrinsic safe
ASV5-F5	Aluminum / G 1/4	NAMUR / In-line	2 - 8 bar	F5 - Ex
ASV6-F6	SS316 / G 1/4	NAMUR / In-line	2 - 8 bar	F6 - SS316 Ex

SELECTION CHECKLIST

- | | |
|--|---|
| ☐ Valve function: 3/2 NC, 5/2 or 5/3 | ☐ Mounting: NAMUR or in-line connection |
| ☐ Port size and thread standard | ☐ Supply pressure and filtered-air quality |
| ☐ Coil voltage and connector type | ☐ Ambient temperature and enclosure rating |
| ☐ Hazardous-area classification and certification | |



by **ALFACOM**

PNEUMATIC CONTROL. DEPENDABLE PERFORMANCE.

ASV Series pneumatic solenoid valves provide flexible control options for industrial actuators and compressed-air systems.

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