

Valves, Actuators, Accessories >>>>>>>>



N Series Solenoid Valve



Wuxi St.Hans Controls Co.,Ltd.

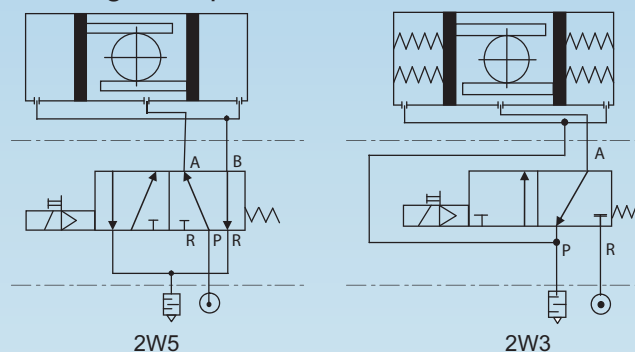
Technical Data

Function	3/2 , 5/2 and 5/3 solenoid and air operated valves.
Manual override	Locking manual override standard on all solenoid operated versions.
Design	Pilot operated spool valve with combined pneumatic and spring return.
Mounting	For direct mounting on NAMUR interface.
Mounting position	Any position.
Material specifications	Aluminium body. Stainless steel is available.
Media	Dry or lubricated air.
Fluid temperature	Min. 32°F (0 °C) Max. 122°F (+ 50 °C)
Electrical parts	See information of coils.
Voltage	24 VDC, 48 VDC, 110 AC, 220 AC
Voltage tolerance	± 10% of nominal

Applications

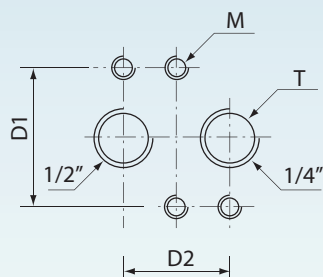
- 3 or 5port directional valves for the control of single or double acting pneumatic actuators
- The interface design corresponds to the NAMUR standard and the VDI/VDE 3845 recommendations of the actuator industry permitting a compact design of the actuator/valve unit.

Working Principle



NAMUR Interfaces

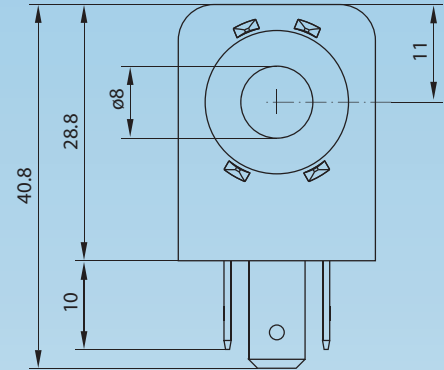
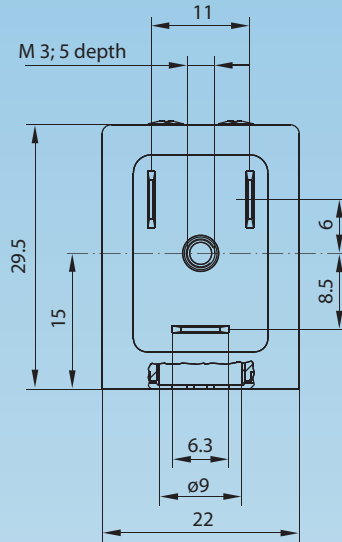
T	D1 in (mm)	D2 in (mm)	M mm
1/4"	1.26 (32)	0.95 (24)	M5
1/2"	1.77 (45)	1.58 (40)	M6



Solenoid Coil



Width: 22 mm
 Connection Type: Industry Form
 Moulding Material: Thermoset Resin



General Data

Voltage tolerance	-10% ~ +10%
Ambient temperature	-20°C ~ +50°C
Relative duty cycle	100%
Insulation class of insulating materials according to DIN VDE 0580	F
Degree of protection with connector according to EN 60529	IP 65 / IP 67*
Imprint (customer imprint - special version)	Nass Magnet

Technical Data

Voltage[V]	Frequency[Hz]	Output
12DC	-	4.6W
24DC	-	3.0W
48DC	-	2.7W
110AC	50/60	5.7/4.6VA
220AV	50/60	8.5/6.9VA



Solenoid Coil System 8 ATEX



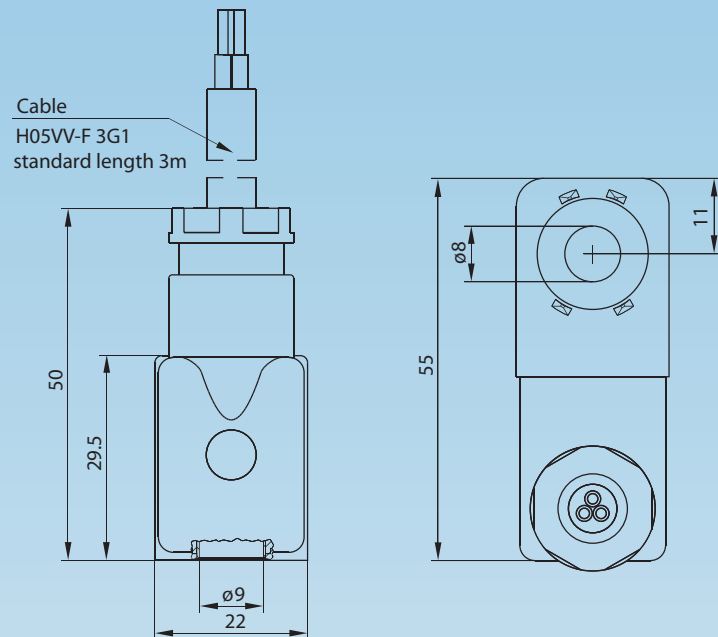
Widths : 22 mm

Ex II 2G EEx m II T₁/IEC Ex m II T₁

Ex II 2D IP 65 T₁ °C / IP65 DIP A21 T₁ °C

Protection by Encapsulation

Connection Type: Cable H05VV-F 3G1



EC-Type Examination Certificate

PTB 00 ATEX 2001X / IECEx PTB 05.0006

General Data

Voltage tolerance	-10% ~+10%
Ambient temperature	-20°C ~+50°C
Relative duty cycle	100%
Insulation class of insulating materials according to DIN VDE0580	F
Degree of protection with connector to EN 60529	IP 65
Moulding material	Thermoplastoc
Cable length(other cable lengths on request)	3 m



Technical Data

Width	Voltage[V]	Frequency[Hz]	Output	Temperature Class
22mm	24DC	-	3.0W	T4
22mm	220AC	50/60	5.1VA	T4

Solenoid Coil System 8 ATEX

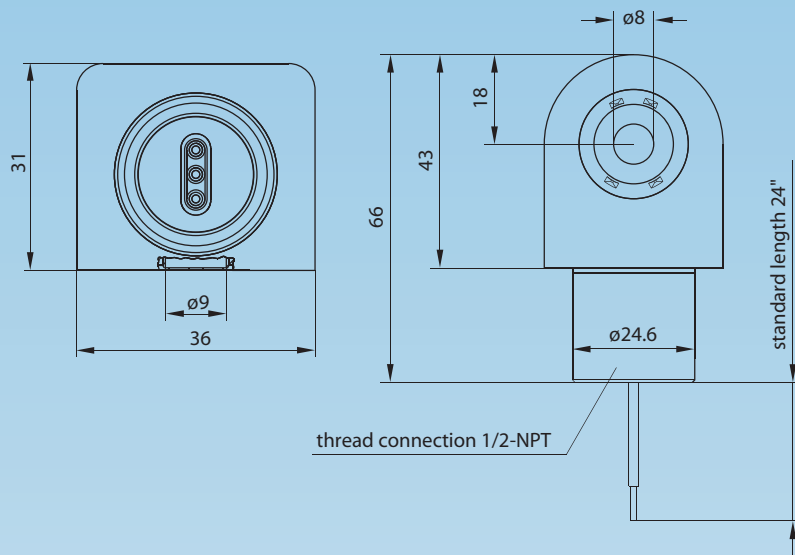


Special Version: System 8 Ex CSA/FM

Width : 36 mm

Ex m II T4 + Division 1

Connection Type : Flying Leads, Thread 1/2-NPT



EC-Type Examination Certificate

CSA 202633

Hazardous Locations

Ex m II T4 and division 1 - Class I, Group A, B, C and D - Class II, Group E, F and G - Class III

Approved in compliance with CAN/ CSA-E79-0-95 and CAN/ CSA-E79-18-95 for CSA, according to ANSI/ ISA-S12.00.01-1999 and ANSI/ ISA-S12.23.01-1998 for FM.

General Data

Voltage tolerance	-10% ~+10%
Ambient temperature	-20°C ~+60°C
Relative duty cycle	100%
Insulation class of insulating materials according to DIN VDE0580	H
Degree of protection with connector to EN 60529	IP 65
Moulding material	Thermoplastoc
Cable length(other cable lengths on request)	24Inch/0.6 m

Technical Data

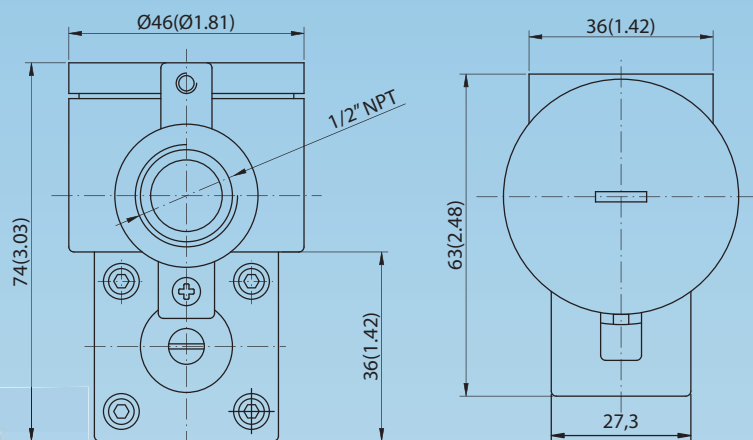
Voltage[V]	Frequency[Hz]	Output	Thread Connection	Temperature Class
24DC	-	4.6W	Stainless Steel	T4
220AC	50	7.7VA	Stainless Steel	T4

Flameproof Coil



Ex II 2G, Exd II CT6

Connection Type : 1/2" NPT



EC-Type Examination Certificate

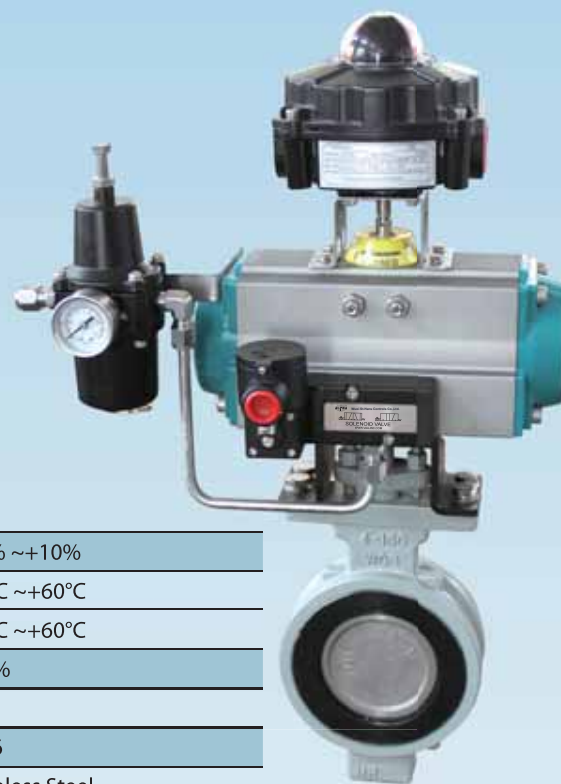
CE, NEPSI

General Data

Voltage tolerance	-10% ~+10%
Ambient temperature	-20°C ~+60°C
Ambient temperature (Optional)	-40°C ~+60°C
Relative duty cycle	100%
Insulation class of insulating materials according to DIN VDE0580	H
Degree of protection with connector to EN 60529	IP 66
Moulding material	Stainless Steel Aluminum+Epoxy Coated

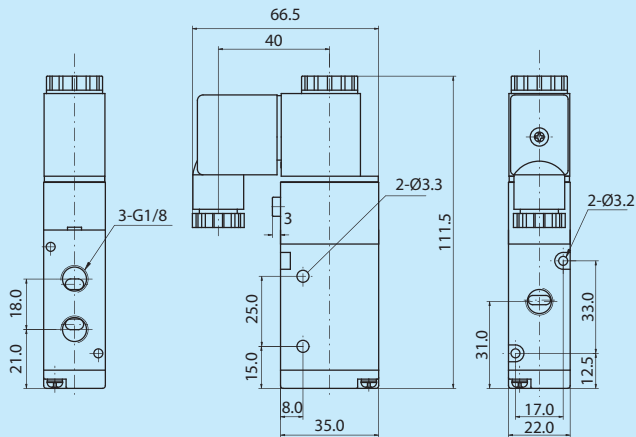
Technical Data

Voltage[V]	Frequency[Hz]	Output	Temperature Class
24DC	-	3.5W	T6
220AC	50/60	4VA	T6

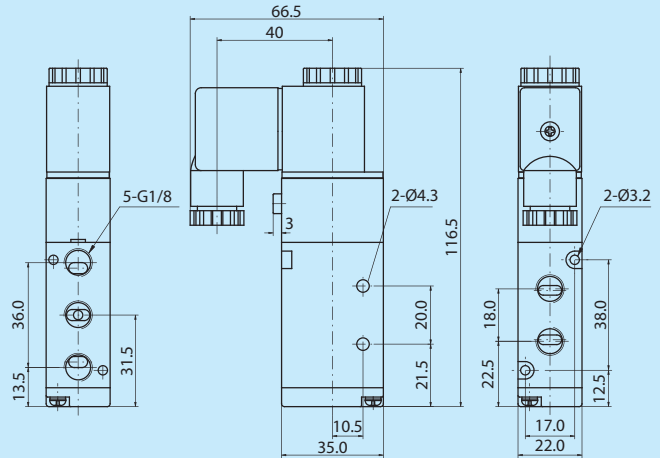


Dimension

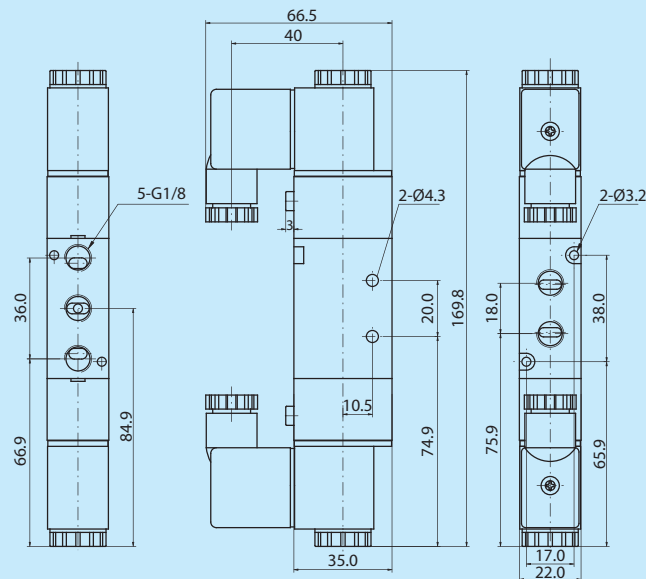
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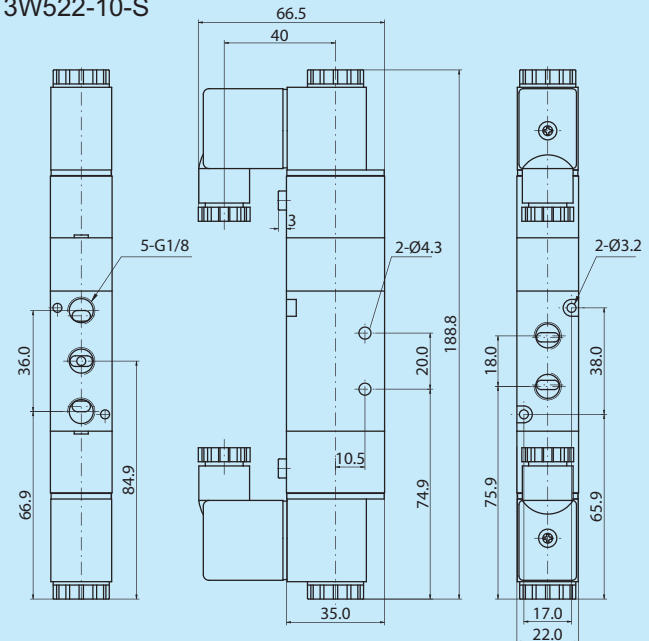
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2W522-10-S



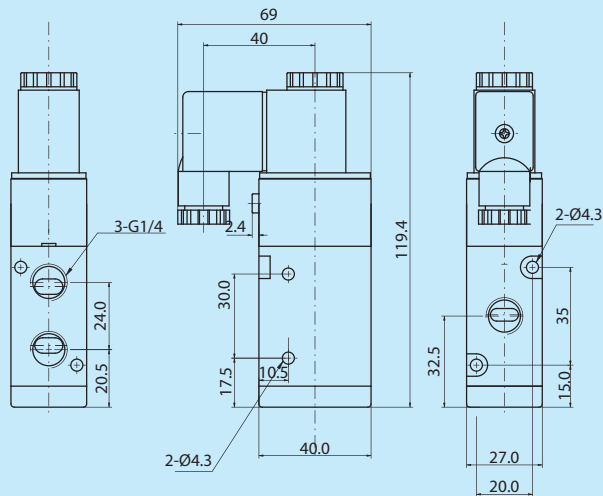
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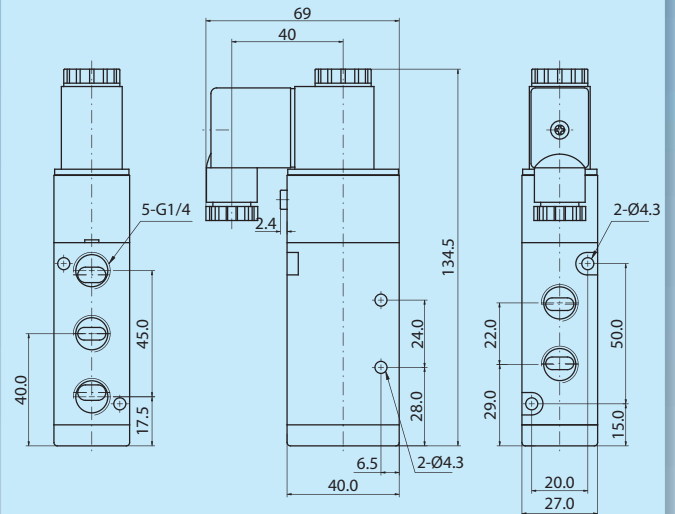
If you enquire any further information, please do not hesitate to contact us.

Dimension

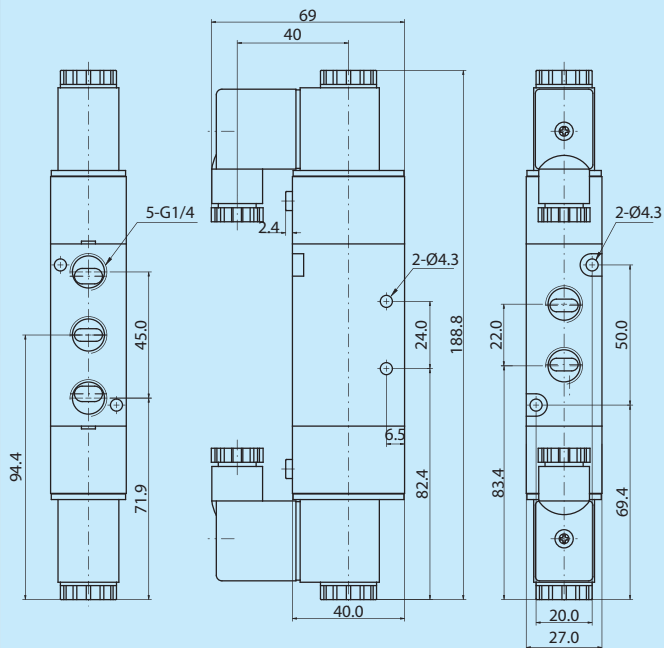
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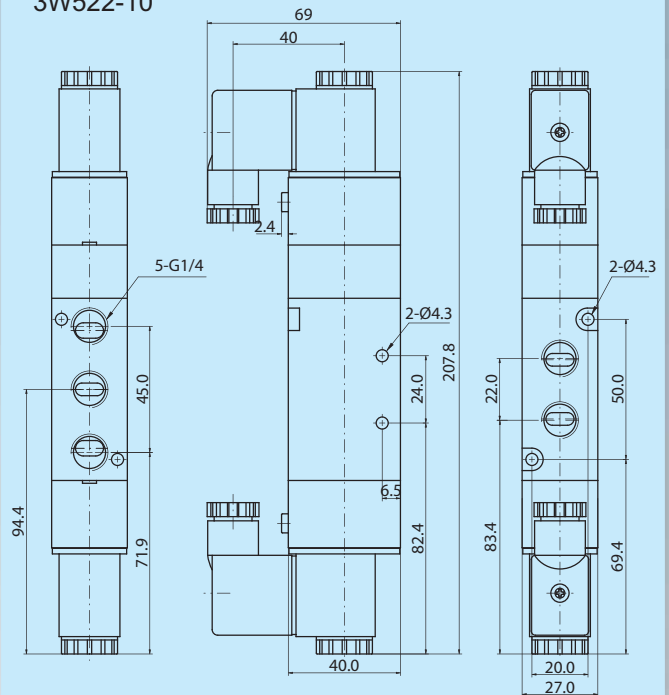
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2W522-10



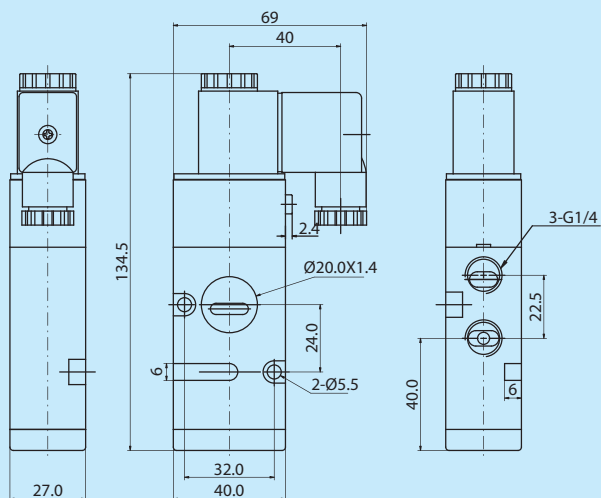
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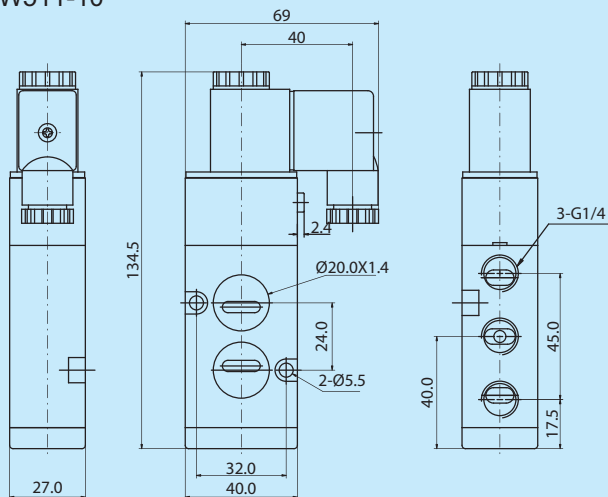
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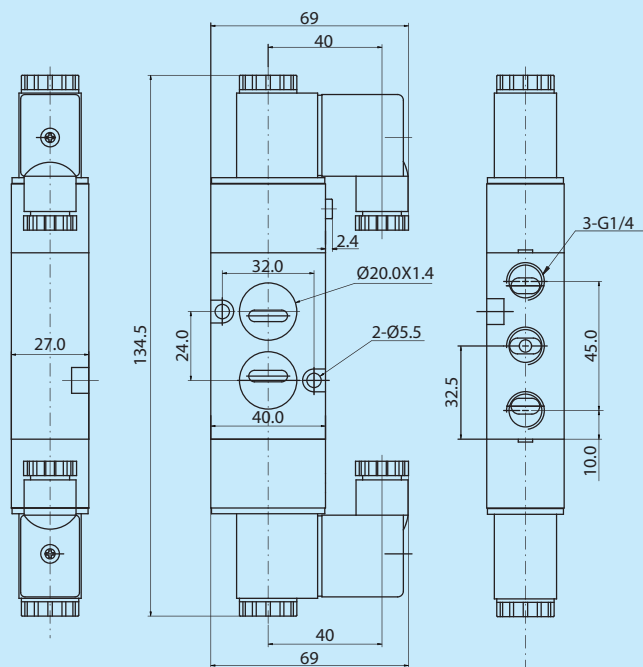
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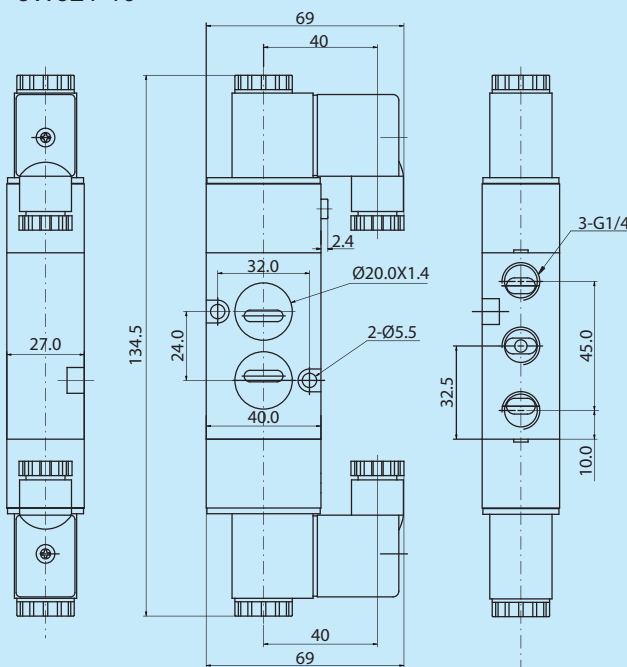
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2W521-10



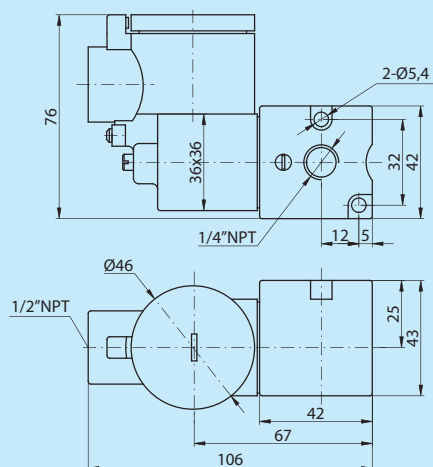
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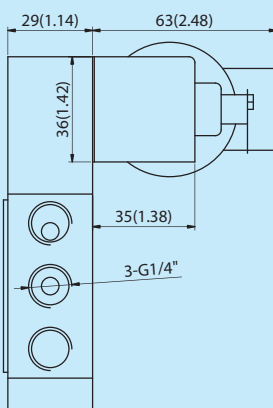
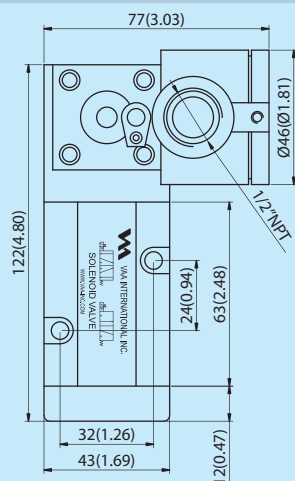
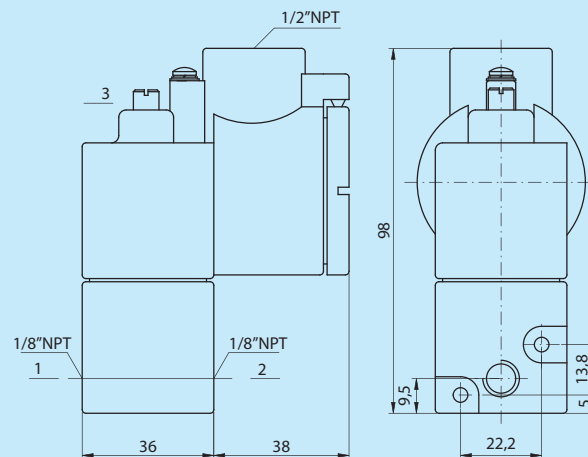
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Dimension

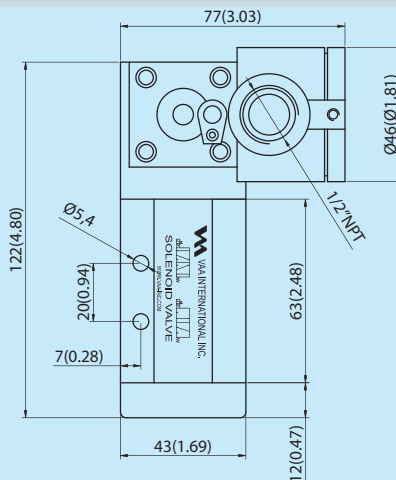
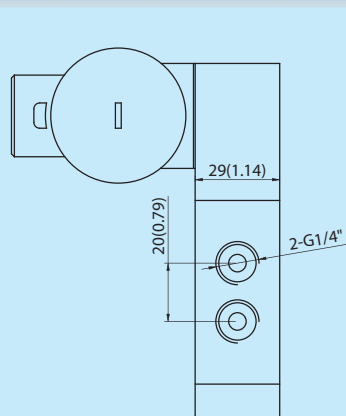
2W311-10-40/42 S2W311-10-50/52



2W312-10-40/42 S2W312-10-50/52



2W511-10-40/42 S2W511-10-50/52



2W512-10-40/42 S2W512-10-50/52

If you enquire any further information, please do not hesitate to contact us.

How to Order

UNIT	1	2	3	4	5	6	7	Product code
CONTENT	Material	Standards	Coil	Type	Connection	Body	Coil	2W511-10-40
CODE	None	2W5	1	1	10	None	40	
EXAMPLE	Aluminum Alloy	2 Way 5 Ports	Single	NAMUR	1/4"	Middle	Alu.enclosure flameproof Coil (Ex d IIC T6 DC24V)	

None	Aluminum Alloy
S	Stainless Steel

1	Single Coil
2	Double Coils

2W3	2 Way 3 Ports
2W5	2 Way 5 Ports

08	1/8"
10	1/4"
15	1/2"

S	Small
None	Middle
L	Large

1	NAMUR
2	PIPE

10	Standard Coil (DC24V)
12	Standard Coil (AC220V)
20	Encapsulation coil (Ex m IIT4 DC24V)
22	Encapsulation coil (Ex m IIT4 AC220V)
30	Alu.enclosure intrinsical Coil (Ex ia IIC T6 DC24V)
40	Alu.enclosure flameproof Coil (Ex d IIC T6 DC24V)
42	Alu.enclosure flameproof Coil (Ex d IIC T6 AC220V)
50	S.S.enclosure flameproof Coil (Ex d IIC T6 DC24V)
52	S.S.enclosure flameproof Coil (Ex d IIC T6 AC220V)

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