

PN2xxxx

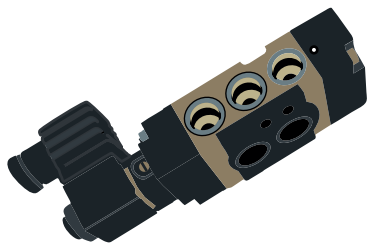
Solenoid Valves

/ Pilot operated spool solenoid valve with built-in single/double solenoid (mono/bistable function), aluminum body, 1/4" NAMUR

VERSION 3/2



VERSION 5/2



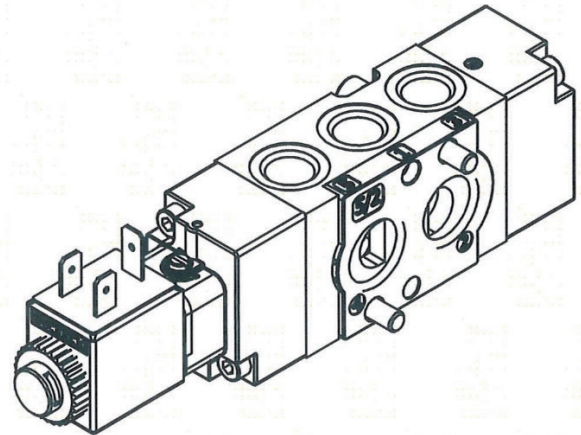
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Pilot operated spool solenoid valve with built-in single/double solenoid (mono/bistable function), aluminum body, 1/4" NAMUR

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CHARACTERISTICS

- High quality coil resistant to heat and moisture and suitable for high ambient temperatures and harsh conditions
- The same spool valve can be adapted for 3/2* or 5/2 function to control double and single acting actuators
- All drain ports of this spool valve are ductable for better environmental protection, particularly suitable for sensitive areas such as in applications for the pharmaceutical and food industries
- The solenoid valves comply with all relevant EC Directives



GENERAL CHARACTERISTICS

Differential pressure 2,5 - 10 bar [1 bar = 100 kPa]
Flow rate (Qv at 6 bar) 1.100 L/min

LIQUIDS (*)	AMBIENT TEMP. TEMP. RANGE	GASKET MATERIALS (*)
air, inert gas, filtered	from -30°C to +50°C	(nitrile) NBR LT

MATERIALS IN CONTACT WITH LIQUIDS

(*) Make sure that the compatibility of the liquids in contact with the materials is checked

Body Aluminium, anodized
Pilot and spring end Polyamide PA6.6, 30% FV
Internal parts POM (Polyacetals), stainless steel, aluminium
Gaskets NBR LT
Central tube Brass
Nut Stainless steel
Shielding coil Copper

SPECIFICATION

Pneumatic connections 1/4" G
Main valve hole size 8 mm
Differential working pressure from 2,5 to 10 bar

ELECTRICAL CHARACTERISTICS

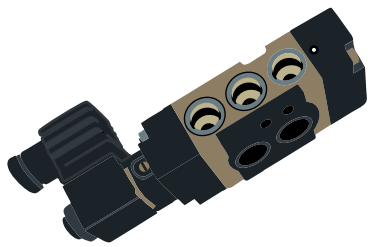
Coil insulation class F
Electrical safety IEC 335
Standard voltages DC (-) : 24V - 48V
 AC (-) 50/60Hz : 24V - 48V - 115V - 230V ;

POWER				OPERATOR AMBIENT TEMPERATURE RANGE	SAFETY CODE	ELECTRICAL ENCLOSURE PROTECTION (EN 60529)
Cue	Seal	hot/cold				
(VA)	(VA)	(W)	(W)	(C°) ⁽¹⁾		
9	4	5	2,5	from -30°C to +50°C	EN 60730	IP65 moulded

⁽¹⁾Refer to the dimensional drawings on page 3.

FUNCTION	BODY	SYMBOL	TYPE OF THREAD
NAMUR 3/2 - 5/2 ⁽¹⁾	Solenoid air pilot operated - spring return (monostable)		G
	Solenoid air pilot operated (bistable)		G

⁽¹⁾ Function 3/2 can be achieved by simply exchanging the plates included in the universal scope of delivery and plugging connection 5.



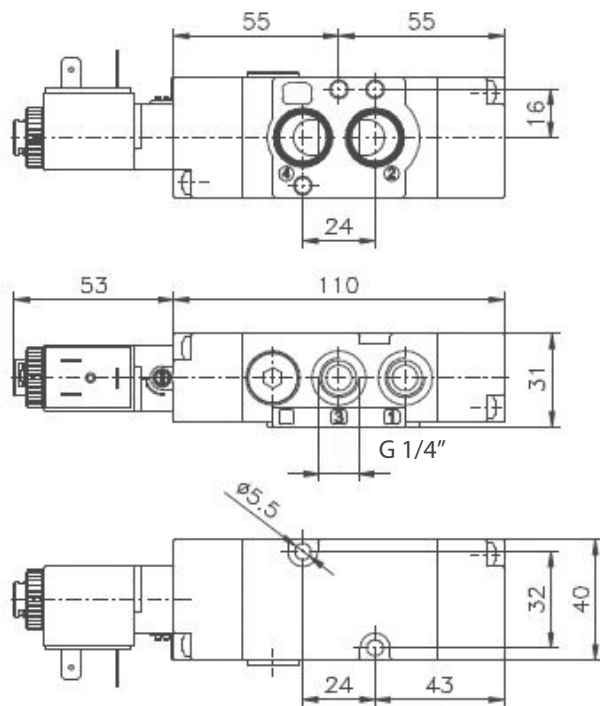
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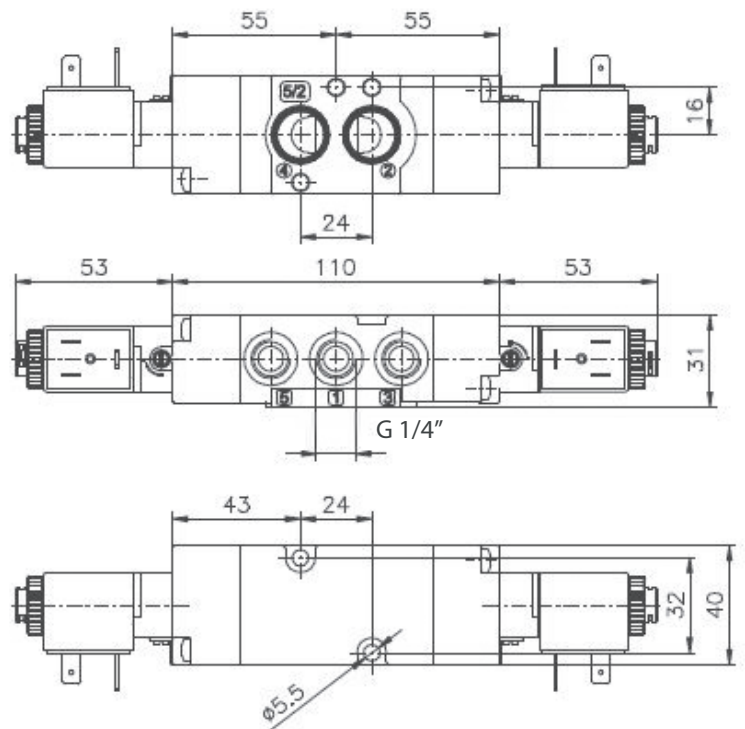
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DIMENSION (mm) WEIGHT (kg) 

MONOSTABLE

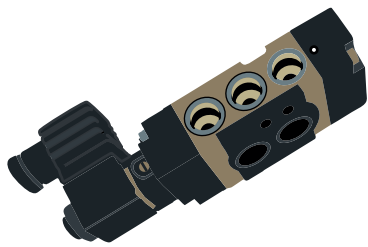


BISTABLE



Actuator mounting
M5 screw (2x)

WEIGHT ⁽¹⁾	(KG)
monostable	0,325
bistable	0,405

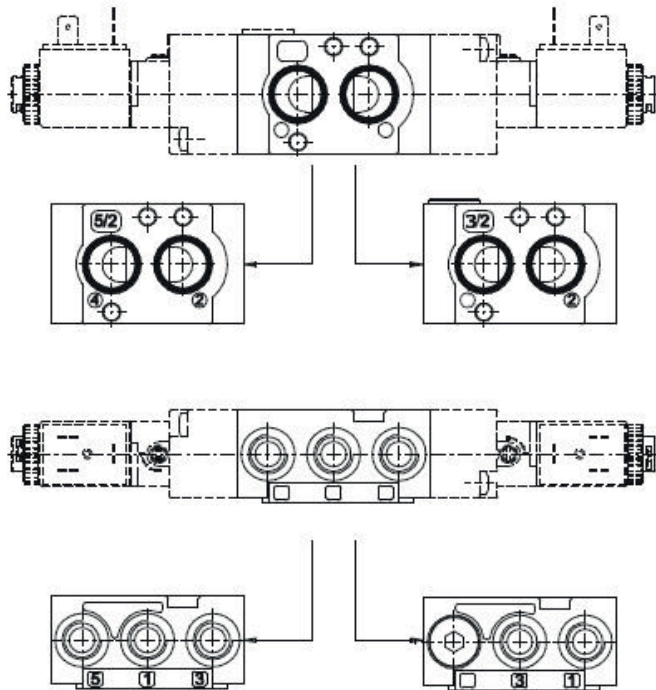


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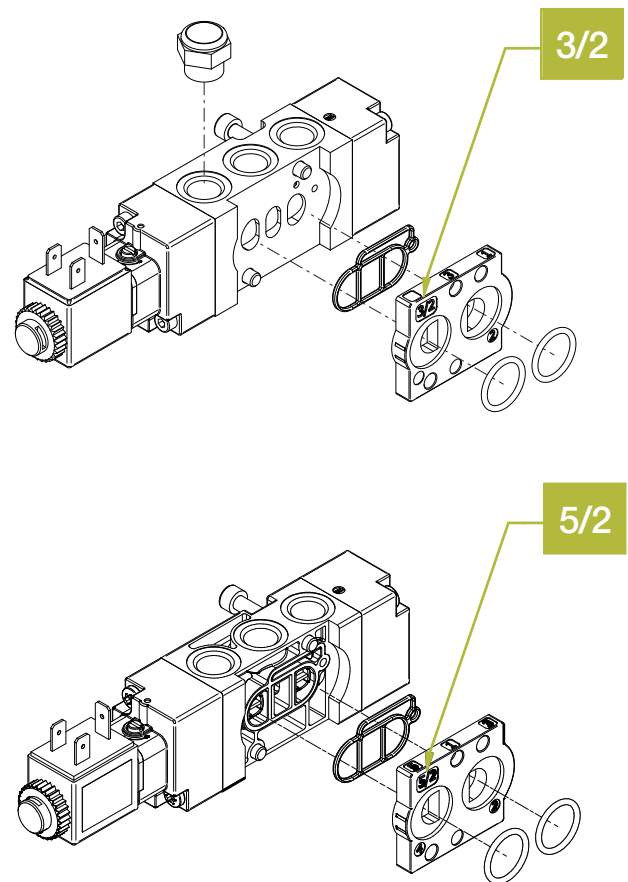
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ACTUATOR ASSEMBLY POSITION



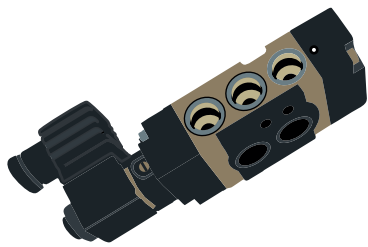
Port No.	NAMUR 4/2 NC	NAMUR 5/2
1	Pilot inlet pressure	Pilot inlet pressure
2	Actuator pilot	Actuator pilot
3	Pilot drain	Pilot drain
4	Actuator drain	Actuator drain
5	-- --	Pilot drain

SFE 14 Silencer to be screwed into the indicated connection



INSTALLATION

- The solenoid valves can be mounted in any position without compromising their operation.
- Spool valve supplied with an adapter plate with NAMUR mating surface. The adapter plate can be replaced and converted to 3/2 or 5/2 function. The plate must be mounted on the solenoid valve before being mounted on the actuator.
- It is strongly recommended to connect pipes or fittings to the drain connections to protect the internal parts of the spool valve and its pneumatic operator if used outdoors or in difficult conditions (dust, liquids, etc.).
- NAMUR accessories (bolts, gaskets and plate) are supplied as standard for the NAMUR version.
- Installation/maintenance instructions are supplied with each valve.



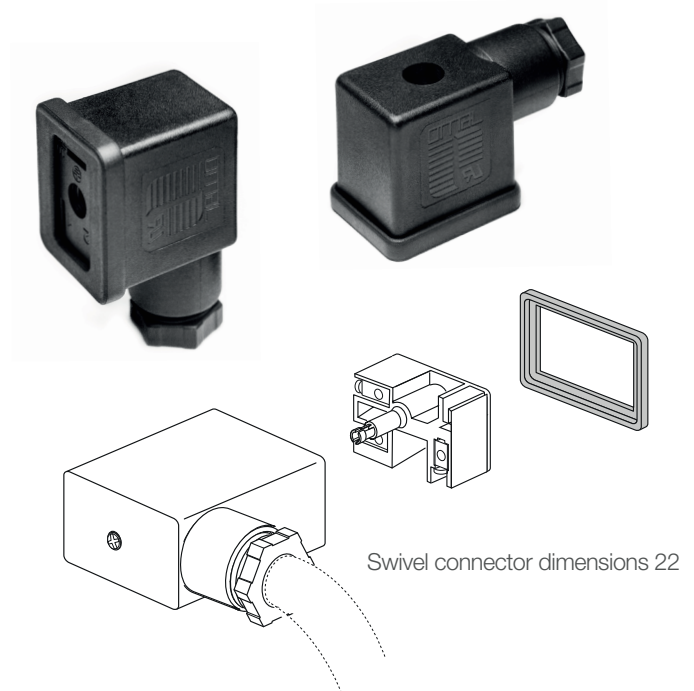
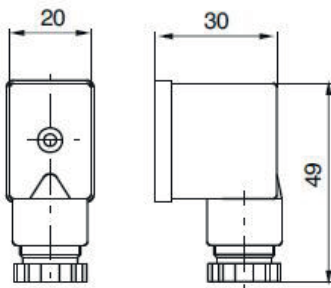
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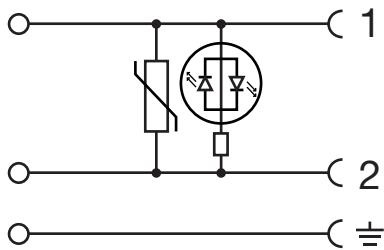
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ELECTRICAL CONNECTORS

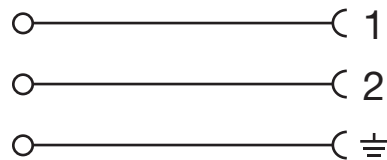
Number of contacts	2 + common earth
Distance between contacts	11 mm
Contact resistance	$\leq 4 \text{ m } \Omega$
Electrical enclosure protection	IP65 (EN 60529)
Number of wires (with cable)	3
Wire section	1,5 mm ²
Cable E.D.	6 - 8 mm



LED ELECTRICAL DIAGRAM



STANDARD ELECTRICAL DIAGRAM



HOW TO ORDER

Valve Selection

PN2	XXXX - XXXX - XXX	00 Standard
PN2 Product series	Monostable 2106 = 24/DC 2108 = 24/AC 2109 = 110/AC 2110 = 230/AC 3032 = 48/AC 3035 = 48/DC	0_L With Led
		Bistable 2111 = 24/DC 2130 = 24/AC 2131 = 110/AC 2132 = 230/AC 3033 = 48/AC 3034 = 48/DC
		1 = 24 V D.C. / A.C. 2 = 110 V 50/60 Hz 3 = 230 V 50/60 Hz