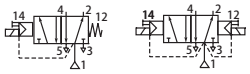
SOLENOID VALVES

integrated pilot operated, spool type

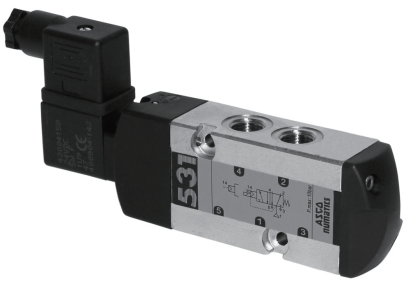
SS body, 1/4", THREADED style



5/2
Series
531

FEATURES

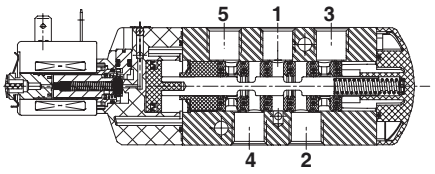
- *All the exhaust ports of this spool valve are connectable, providing better environmental protection, particularly recommended for sensitive areas such as clean rooms as well as applications in the pharmaceutical and food processing sectors*
- *The valve offers environmental protection against the ingress of liquids, dusts or any other foreign matters (environmentally-protected construction)*



GENERAL

Differential pressure 2 - 10 bar [1 bar = 100 kPa]
Flow (Qv at 6 bar) 860l / min (ANR)

Fluids (∗)	Temperature Range (TS)	Sealings (∗)
air, inert gas, fltered	- 40°C to + 60°C	VMQ(silicone)+ PUR (polyurethane)



5/2 function Threaded Version

MATERIALS IN CONTACT WITH FLUID

(∗) Ensure that the compatibility of the fluids in contact with the materials is verified

Body Stainless steel
End cover (spring) PBT
Internal parts Stainless steel, POM
Sealings NBR / FPM
Core and plugnut Stainless steel
Shading coil Copper

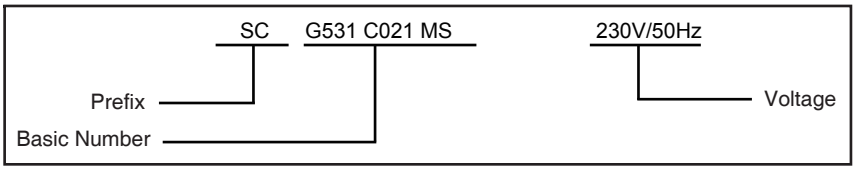
SPECIFICATIONS

Pipe Size	Orifice Size	Flow Coefficient Kv		Operating Pressure Differential (bar)			Power Level	Prefix Optional Solenoids					Basic Catalog Number
				Min.	Max. (PS) Air			ATEX / IECEx				IP65	
								-	Exe mb	Ex mb	-		
(G)	(mm)	(m^3/h)	(l/min)		AC	DC	AC/DC	-	**WBLP**	**PV**	-	**SC**	
THREADED 5/2 - Solenoid air pilot operated - spring return (Single Solenoid)													
1/4	6	0.75	12.5	2	10	10	RP	-	●	-	-	●	**G531C021 MS**
1/4	6	0.75	12.5	2	10	10	MP	-	-	●	-	-	**G531C021 MS**
THREADED 5/2 - Solenoid air pilot operated (Double Solenoid)													
1/4	6	0.75	12.5	2	10	10	RP	-	●	-	-	●	**G531C022 MS**
1/4	6	0.75	12.5	2	10	10	MP	-	-	●	-	-	**G531C022 MS**

RP - Reduced Power, MP - Medium Power

● Available feature **-** Not available

ORDERING EXAMPLES:



EXPLANATION OF TEMPERATURE RANGES OF SOLENOID VALVES

Valve temperature range	The valve temperature range is determined by the selected seal material, the temperature range for proper operation of the valve and sometimes by the fluid (e.g. steam)
Operator ambient temperature range	The operator ambient temperature range is determined by the selected power level (LP, RP, MP or BP) and the ATEX safety code
Total temperature range	The temperature range of the complete solenoid valvle is determined by the limitations of both temperature range above

ELECTRICAL CHARACTERISTICS

Coil insulation class F
Electrical safety IEC 335
Standard voltages DC (=) 24V - 48V
AC (~) 24V - 48V - 115V - 230V/50Hz; other voltages and 60Hz are available on request

Prefix Option	Power Ratings				Operator Ambient Temperature Range(TS)	Safety Code	Electrical Enclosure Protection (EN 60529)	Replacement Coil		Type[1]
	Inrush ~	Holding ~		Hot/ Cold =				~	=	
	(VA)	(VA)	(W)	(W)	(C°)			230 V / 50 Hz	24 V DC	
Reduced power (RP)										
SC	6	3.5	2.5	2.5/3	-25 to +60	EN 60730	moulded IP65	43004886	43004869	01
PV	-	-	4	-/3	-40 to +65/60	II 2 G/D Ex mb II T3/Ex mD	moulded IP65	- [2]	- [2]	02
WBLP	-	-	3.5	-/4	-40 to +65	II2G Ex e mb IIC T4, II2D Ex t IIIC Db	IP67 PBT	- [2]	- [2]	03

[1] Refer to the dimensional drawings on page 2
[2] Multiple coil kits available under ATEX, contact us

ELECTRICAL CONNECTIONS

Prefix	Connection
SC	Spade plug connector with cable gland DIN 43650, 11 mm, industry standard B, for cables with an outer diameter from 6 to 8 mm (type 01) or EN175301-803A (ISO 4400) for cables with an outer diameter from 6 to 10 mm (type 01).
PV	Moulded-in cable, standard length 2 m
WBLP	M20 cable gland for cables with an outer diameter from 7 to 8,5 mm. With an internal and external facility for an earthing or bonding conductor

ADDITIONAL OPTIONS

- Other pipe threads are available on request
- Plug with visual indication and peak voltage supression or with cable length of 2m, SC prefix only (Consult ASCO NUMATICS Offices)

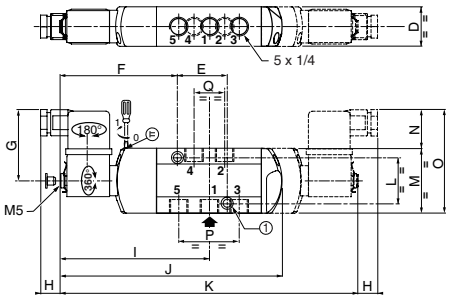
INSTALLATION

- Installation/maintenance instructions are included with each valve
- The solenoid valves can be mounted in any position without affecting operation
- It is necessary to connect pipes or fittings to the exhaust ports to protect the internal parts of the spool valve and its pneumatic operator if used outside or in harsh environments (dusts, liquids, etc.)
- Threaded pipe connection identifier is: 8 = NPT (ANSI 1.20.3); G = G (ISO 228/1)
- To prevent freezing of condensed water vapor in the valve, the air/inert gas must have a dewpoint at least 8°C below the minimum temperature to which any point of system will be exposed.

DIMENSIONS (mm), WEIGHT (Kg)

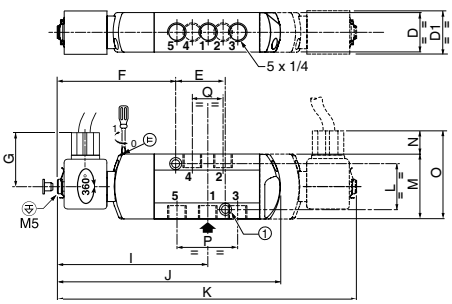
TYPE 01:
SC
Epoxy moulded
IEC 335 / DIN 43650

531C021 / C022



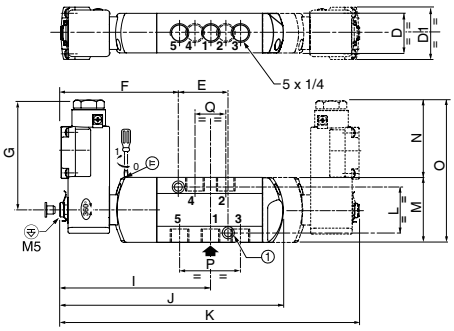
TYPE 02:
PV
Epoxy encapsulated
EN/IEC 60079-18 and
EN/IEC 61241-18

531C021 / C022



TYPE 03:
WBLP
PBT
EN/IEC 60079-7
EN/IEC 60079-18 and
EN/IEC 60079-31

531C021 / C022



(1) 2 mounting holes dia. 5,3;
spotfacing: dia. 9, depth 5 mm