

SOLENOID VALVES

integrated pilot operated spool type single/dual solenoid (mono/bistable function) aluminium body, 1/4, NAMUR 3/2 5/2

Series

521

FEATURES

- High quality coil resistance to heat & moisture and suitable for high ambient temperature & harsh environment
- The same spool valve can be adapted for 3/2* or 5/2 functions for controlling double-acting and single-acting actuators
- All the exhaust ports of this spool valve are pipe-able, providing better environmental protection, particularly recommended for sensitive areas such as applications in the pharmaceutical and food industries
- Non Breathing construction where the spring return chambers of the single or double acting actuator are collected with the solenoid valve exhaust
- NAMUR design (LH Orientation & RH Orientation) ensures supply and exhaust ports of the solenoid valve are facing down to prevent water and ingress
- Robust and long lasting 316L Stainless Steel Manual Operator (maintained manual operator)
- The solenoid valves satisfy all relevant EU Directives
 For NAMUR type, 5/2 can be converted to 3/2 NC by rotating NAMUR plate

GENERAL

Differential pressure 2 - 8 bar [1 bar = 100 kPa]

Flow (Qv at 6 bar) 820 l/min (ANR)

fluids (★)	temperature range (TS)	seal materials (★)
air, inert gas, filtered	-20°C to +60°C	NBR (nitrile)

MATERIALS IN CONTACT WITH FLUID

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

Body Aluminium, anodized Pilot and spring end Polyamide PA6.6, 30% FV

Internal parts POM (Polyacetal), stainless steel, aluminium

Seals NBR Core tube Brass

Plugnut Stainless steel Shading coil Copper

ELECTRICAL CHARACTERISTICS

Coil insulation class F

Electrical safety IEC 335

Standard voltages DC (=): 24V - 48V

AC (~) 50/60Hz: 24V - 48V - 115V - 230V; Other voltages are available on request

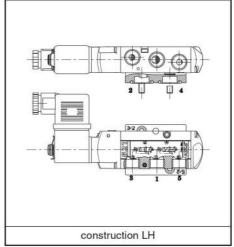
	powe	r ratings	3	operator		electrical	electrical		
inrush ~	holding ~		hot/cold	ambient temperature	safety code	enclosure	replacement coil / kit		
			=	range		protection	~	=	type ⁽¹⁾
(VA)	(VA)	(W)	(W)	(C°) ⁽¹⁾	1	(EN 60529)	230V/50/60 Hz	24V/DC	1
6	3,5	2,5	2,5/3	-20 to +60	EN 60730	IP65, moulded	400125-097	400125-042	01

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

ELECTRICAL CONNECTIONS

type	connection	
	Spade plug connector with cable gland DIN 43650, 11 mm, industry standard B, for cables with an outer diameter from 6 to 8 mm.	







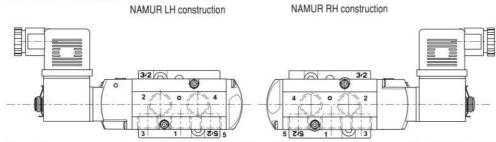
SPECIFICATIONS

Pipe size 1/4
Main valve orifice size 6 mm
Operating pressure differential 2 to 8 bar

function	construction	symbol	thread	basic code (2) (without voltage)
	Solenoid air pilot operated - spring return (monostable)		G	G521A2B12S83M++
NAMUR 3/2 NF - 5/2 ⁽¹⁾	LH construction	3/2 NC 5/2		8521A2B12S83M**
	Solenoid air pilot operated and return (bistable) LH construction		G	G521A2B42S83M++
		3/2 NC 5/2	NPT	8521A2B42S83M**
	Solenoid air pilot operated - spring return (monostable) RH construction		G	G521A2B12S83P**
		3/2 NC 5/2	NPT	8521A2B12S83P**
	Solenoid air pilot operated and return		G	G521A2B42S83P**
	(bistable) RH construction	3/2 NC 5/2	NPT	8521A2B42S83P**

⁽¹⁾ For NAMUR type, 5/2 can be converted to 3/2 NC by rotating NAMUR plate

ACTUATOR MOUNTING POSITION



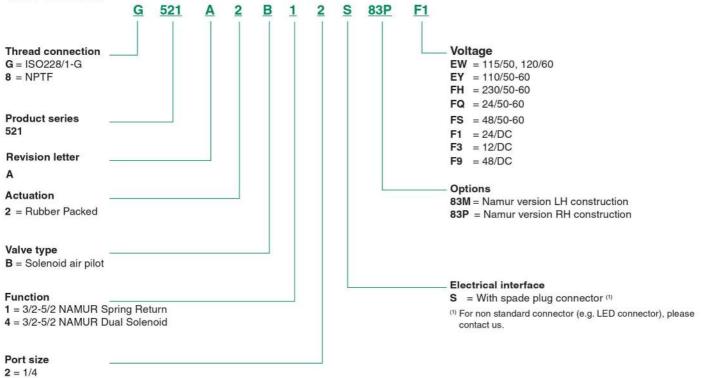
NOTE: Selection of LH or RH NAMUR construction.

Port No.	NAMUR 3/2 NC	NAMUR 5/2 Pilot inlet pressure		
1	Pilot inlet pressure			
2	Actuator piloting	Actuator piloting		
3	Pilot exhaust	Pilot exhaust		
4	4 Actuator exhaust Actuator			
5 Pilot exhaust		Pilot exhaust		

Depending on the actuator's port orientation, the ASCO 521 NAMUR Design (LH construction NAMUR & RH construction NAMUR) is to ensure that the supply port (1) and exhaust ports (3 & 5) are always facing down to prevent water dust ingress.

HOW TO ORDER

Valve Selection



For the voltage, please replace the 2 last digits by the ones according to the requested voltage (see below valve selection table)