

Residual pressure exhaust valve with spool position detection

# **SNS** Series

●Port size: Rc3/8, Rc1/2, G1/2, NPT3/8, NPT1/2



Unit: kg



# Common specifications

Common specifications			
ltem		Description	
Valve type and operation		Pilot operated soft spool valve	
Working fluid		Compressed air	
Max. working pressure MPa		0.7	
Min. working pressure		0.2 (For internal pilot specifications)	
	MPa	0 (For external pilot specifications)	
External pilot pressure	MPa	0.2 to 0.7	
Proof pressure	MPa	1.05	
Ambient temperature	°C	-5 to 55 (no freezing)	
Fluid temperature	°C	5 to 55	
Manual override		Non-locking/locking common (Standard)	
Lubrication	*1	Not required	
Degree of protection	*2	Dust proof/water jet proof (IP65)	
Vibration resistance	m/s <sup>2</sup>	50 or less	
Shock resistance	m/s <sup>2</sup>	300 or less	
Atmosphere		Cannot be used in corrosive gas environments	
Maximum operating frequency		30 cycles/min.	
Minimum operating frequency		1 cycle/week	

# Electrical specifications

—···		
Item	Description	
Rated voltage V	24 DC	
Voltage fluctuation range	±10%	
Holding current A	0.042	
Power consumption W	1.0	
Thermal class	В	
Surge suppressor	Varistor	
Indicator	LED	

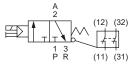
## Individual specifications

Ite	em	Description
Port size	Port P/A	Rc3/8, Rc1/2, G1/2, NPT3/8, NPT1/2
	Port R	Rc3/8, G3/8, NPT3/8

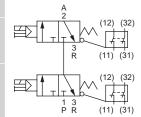
- \*1. Use turbine oil Class 1 ISO VG32 for lubrication. Excessive or intermittent lubrication results in unstable operation.
- \*2. Use the specified outer diameter of the cord and tightening torque for fixing. Do not use this product in environments where it will be constantly exposed to water or oil. IP65(IEC60529[IEC529:1989-11] Tested according to standards
- \*3. For the working pressure, refer to "Pneumatic, Vacuum and Auxiliary Components (Catalog No. CB-024SA).
- \*4. The pilot exhaust is released to the atmosphere. No port processing is performed.

## JIS symbol

1 stations



#### 2 stations



## Weight

#### Flow characteristics

Medel No	Model No. Station No.	P→A	A→R
wodei No.		C(dm³/(s⋅bar))	
SNS	1 station	13	14
	2 stations	10	14

## Limit switch specifications

Item	Limit switch specifications		
Manufacturer model	D4N-1B31 (OMRON)	D4N-9B31 (OMRON)	
Terminal	Pg13.5	M12-4P connector	
Contact resistance	25 mΩ or less		
Minimum applicable load	5 VDC 1 mA resistance load		
Rated insulation voltage V	300		
Insulation resistance MΩ	100		
Electric shock protection class	Class II		
Pollution degree (working environment)	3 (EN60947-5-1)		
Conditional short-circuit current A	100		

<sup>\*</sup> Refer to the manufacturer's catalog for details.

## Compatibility table by variation

	SNS
Port size	3/8, 1/2
P4	•

●: Applicable models ○: Semi-applicable models ▲: Contact CKD for details. ☐: Not applicable

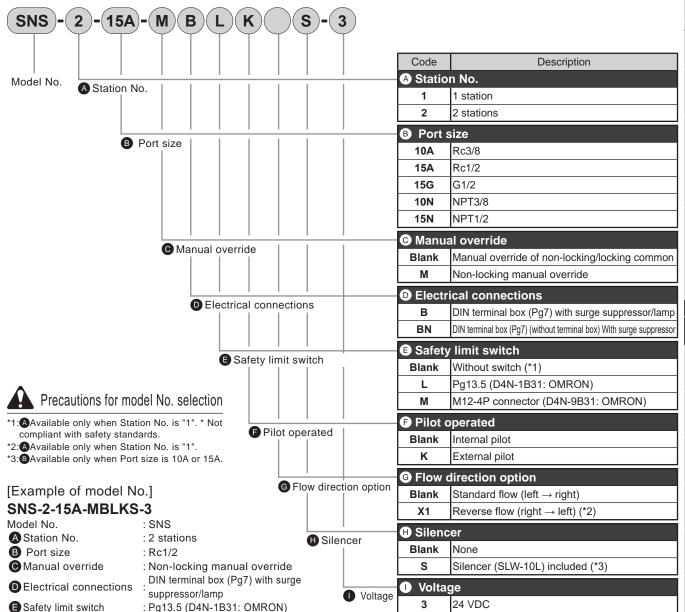
#### How to order

Pilot operated

Silencer

Voltage

G Flow direction option



: External pilot

: 24 VDC

: Standard flow (left → right)

: Silencer (SLW-10L) included