

Residual Pressure Exhaust Valve with Spool Position Detection

SNS Series

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



Common specifications

Common specifications								
Descriptions		Content						
Valve type and operation	on	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/jet proof (IP65)						
Vibration resistance	m/s ²	50 or less						
Shock resistance	m/s ²	300 or less						
Atmosphere		Cannot be used in corrosive gas environments						
Maximum operating freque	ency	30 cycles/min.						
Minimum operating freque	ncy	1 cycle/week						

Electrical specifications

Descriptions	Content
Rated voltage V	DC24
Voltage fluctuation range	±10%
Holding current A	0.042
Power consumption W	1.0
Thermal class	В
Surge suppressor	Varistor
Indicator	LED

Individual specifications

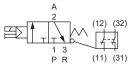
Descri	ptions	Content				
	Port P/A	Rc3/8, Rc1/2, G1/2, NPT3/8, NPT1/2				
Port size	Port R	Rc3/8, G3/8, NPT3/8				

- *1. Use turbine oil Class 1 ISO VG32 for lubrication.

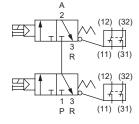
 Excessive or intermittent lubrication results in unstable operation.
- *2. Use the specified outer diameter of the cord and tightening torque for fixing. Do not use this product in environments where it will be constantly exposed to water or oil. IP65 (IEC60529 [IEC529:1989-11]) standards are applied to the test.
- *3: Refer to page 7 for working pressure.

JIS symbol

1 station



2 stations



Weight

Unit: kg

	Descriptions	Weight	
on	With safety limit switch	Pg13.5	0.7
station	With Salety IIIIII Switch	M12-4P connector	0.7
-	Without switch	0.6	
stations	With safety limit switch	Pg13.5	1.2
2 sta	With Salety IIIIII Switch	M12-4P connector	1.2

Flow characteristics

Madal Na	Station No.	P→A	A→R				
Model No.	Station No.	C[dm³/(s·bar)]					
SNS	1 station	13	14				
	2 stations	10	14				

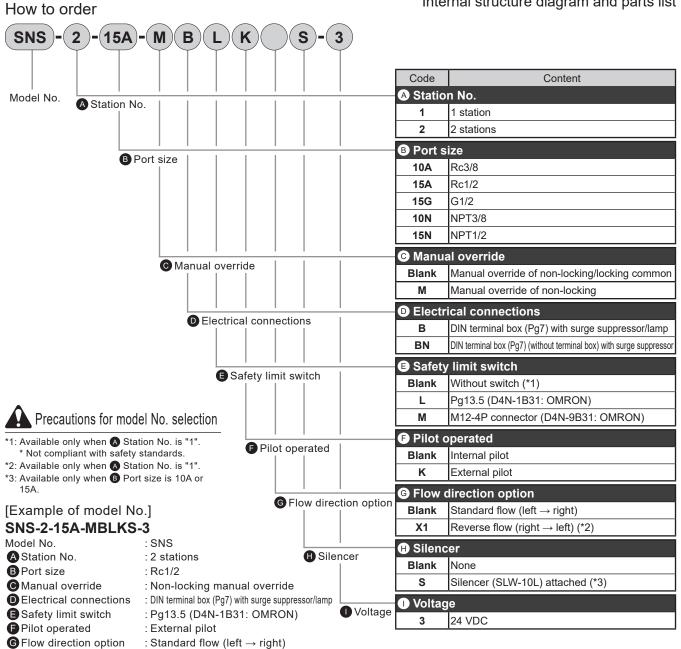
Limit switch specifications

Descriptions	Limit switch specifications							
Manufacturer model	D4N-1B31 (OMRON)	D4N-9B31 (OMRON)						
Terminal	Pg13.5	M12-4P connector						
Contact resistance	25 mΩ	$25\mathrm{m}\Omega$ or less						
Minimum applicable load	5 VDC 1 mA re	5 VDC 1 mA resistance load						
Rated insulation voltage V	30	300						
Insulation resistance MΩ	10	100						
Electric shock protection class	Clas	Class II						
Pollution degree (working environment)	3 (EN609	3 (EN60947-5-1)						
Conditional short-circuit current A	10	100						

^{*} Refer to the manufacturer's catalog for details.



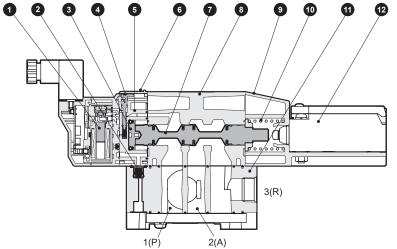
How to order Internal structure diagram and parts list



Internal structure and parts list

Silencer

Voltage



: Silencer (SLW-10L) attached

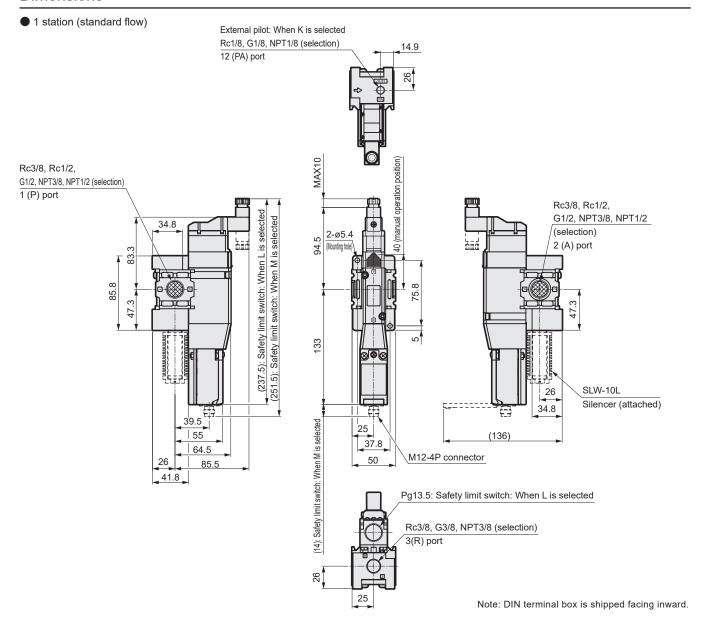
: 24 VDC

Parts list

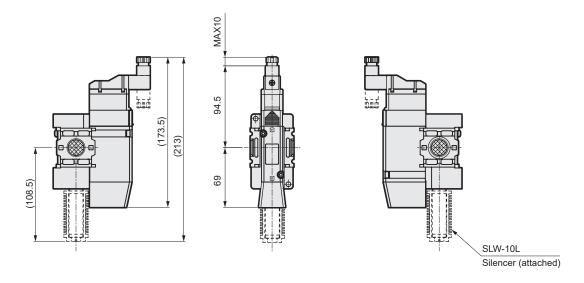
No.	Part name	Material
1	Coil assembly	-
2	Check valve	Hydrogenated nitrile rubber
3	Piston assembly	-
4	Manual override	Resin
5	Piston chamber	Resin
6	Manual protection cover	Resin
7	Spool assembly	-
8	Body	Aluminum alloy die-casting
9	Сар	Resin
10	Spool spring	Stainless steel
11	Single base	Aluminum alloy die-casting
12	Safety limit switch	-

SNS Series

Dimensions

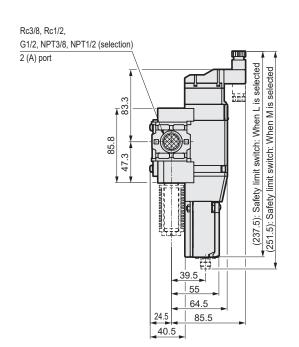


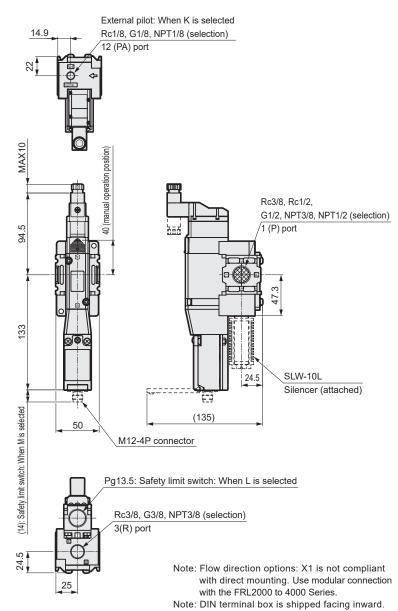
Safety limit switch: Blank



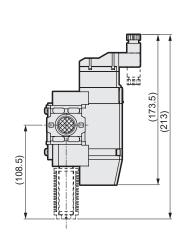
Dimensions

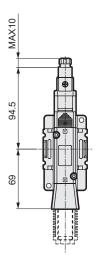
● 1 station (reverse flow)

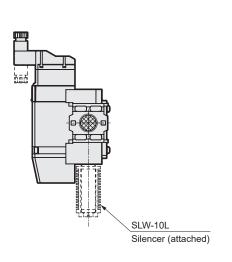




Safety limit switch: Blank

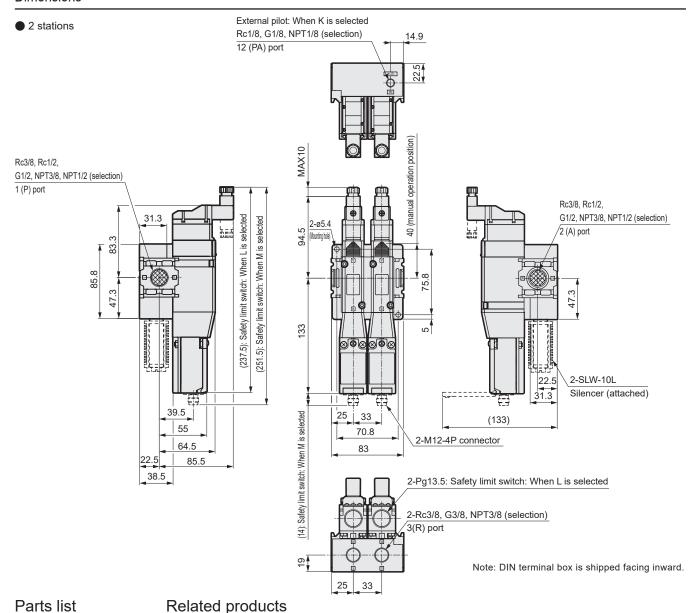






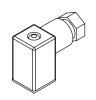
SNS Series

Dimensions



Parts list

DIN terminal box



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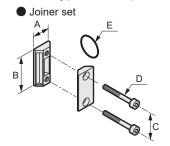
T bracket set

	Model No.	Compatibility	A	В	С	D	Ε	F	G	Н	ı	J	K	Weight (kg)
	B310-W	2000 Series	60 4	45	10	125	7	14	22	27	7	JISB2401-P21	45	0.086
		3000 Series		45	10									
	B410-W	4000 Series	60	45	10	125	7	14	22	37	7	JISB2401-P21	55	0.094

· Material: Aluminum alloy die-casting (B310 to B410-W) Painting (B310 to B410-W)

Part model No.

SNS-TERMINAL-BOX-3



Model No.	Compatibility	Α	В	С	D	Е	Weight (kg)
C4000- J400-W	2000 Series 3000 Series 4000 Series	21	44	32	M5	JIS B2401-P21	0.036

[·] Material: Aluminum alloy die-casting (J400) Painting (J400)