

Integrated Vacuum Generator SZK SZKP Series

Parameter specification

Ejector Specifications

Fluid	Air, vacuum	
Operating pressure range	0.3~0.7MPa	
Operating vacuum range	-100~0kPa	
Operating temperature range	5~50°C	
Operating humidity range	35~85%RH	
Vibration resistance	50m/s ² or less	
Impact resistance	150m/s ² or less	
Protective structure	≈IP40	
refuel	no	
Pressure resistance	Air supply circuit	0.8MPa
	Vacuum circuit	0.2MPa

※) Pressure resistance simply means "the pressure that the product is not damaged", which is the pressure that the product can be used normally.

Specification of solenoid valves for vacuum supply

Mode of action	Indirect operation via pilot valve	
Valve function	Normal shutdown	
Response time	OFF⇒ON	4.5ms
	ON⇒OFF	4.5ms

※) The response time is the value when 0.5MPa rated voltage (100%) is supplied.

Specification of solenoid valves for vacuum destruction

Mode of action	Indirect operation via pilot valve	
Valve function	Normal shutdown	
Response time	OFF⇒ON	4.5ms
	ON⇒OFF	4.5ms

※) The response time is the value when 0.5MPa rated voltage (100%) is supplied.

Solenoid valve specification

Solenoid valve	Vacuum supply valve vacuum damage valve
Mode of operation	Direct operation
Valve structure	direct-acting
Rated voltage	DC24V ± 10%
Limiting circuit	Surge absorber
Agreed time	4ms
Power dissipation	1W
Manual override	Button structure
Operation instruction	When the coil is energized, the red indicator lights up
Connection mode	Red: DC24V; Black: COM

Vacuum pump unit specifications

Fluid	Air, vacuum	
Operating pressure range	0.3~0.7MPa	
Operating vacuum range	-100~0kPa	
Vacuum valve diameter	4.2mm	
Temperature and humidity range	5~50°C/35~85%RH	
Vibration resistance	50m/s ² or less	
Impact resistance	150m/s ² or less	
Protective structure	≈IP40	
refuel	no	
Pressure resistance	Air supply circuit	0.8MPa
	Vacuum circuit	0.2MPa

※) Pressure resistance simply means "the pressure that the product is not damaged", which is the pressure that the product can be used normally.

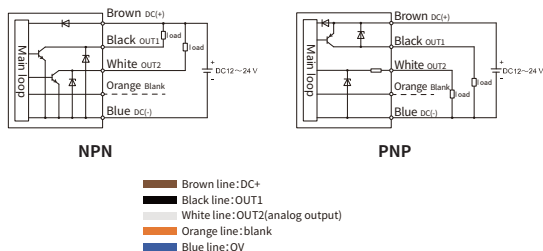
Pressure Switch for Vacuum

Pressure type	Compound pressure	
Output type	NPN, PNP	
Rated pressure range	-100~100kPa	
Set /Display Pressure range	-101.2~110kPa	
Max Rated voltage	Not more than 2 times the rated pressure	
Power supply voltage	DC12~24V ± 10%	
Current consumption	50mA or less	
Operating accuracy	±3%Fs. or less (at Ta=25°C)	
Switching output	Control output	Load voltage: DC30V or less Load current: 100mA or less
	Lag value	Residual voltage: 1V or less
	Repeated error	Minimum display unit
	Response time	±0.2%F.S
	Short circuit protection	2.5ms, 5ms, 100ms, 500ms
Analog output	built-in	
	Output voltage DC1~5V ± 2%	
	Resolution: 1/200	
	linearity ±2%F.S or less	
Display mode	Output impedance: 1kΩ	
	10:37 segment code LED display	

※) The variation of "zero point voltage", "span voltage" and "switch output setpoint" with repeated application of pressure is ±3%F.S. Is the permissible range.

Output wiring diagram

SZK, SZKP series Output wiring diagram



SZK series Energy-saving type Output wiring diagram

