



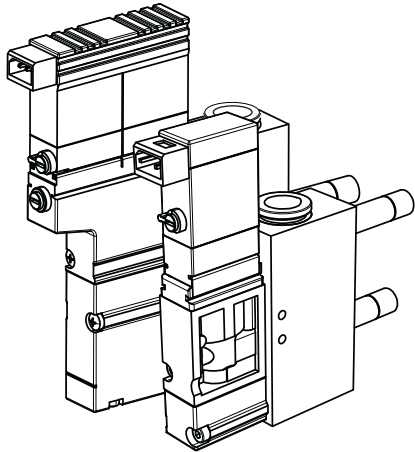
MI-E53 0806A



NK Solenoid Valves

Supply and Blowing

Instruction Manual



AR VACUUM TECHNOLOGY, S.L. would like to thank you for the trust placed in our equipment, and we would remind you that our technical and after-sales service department is entirely at your disposal for any queries or problems you may encounter.

1. DESCRIPTION

The NK solenoid valves presented in this manual were designed exclusively for the AR NK-CK ejectors. There are two main models, the supply solenoid valve and the supply solenoid valve with blower. Each of these models have two versions, one for supply tube of Ø6 and the other for Ø8. All models work with a 24 V DC electrical supply.

2. REFERENCES AND MODELS

	Supply solenoid valve	Supply and blow solenoid valve
Ø6		
Ø8		EVNKKITT8SSE124C

3. PRECAUTIONS AND SAFETY

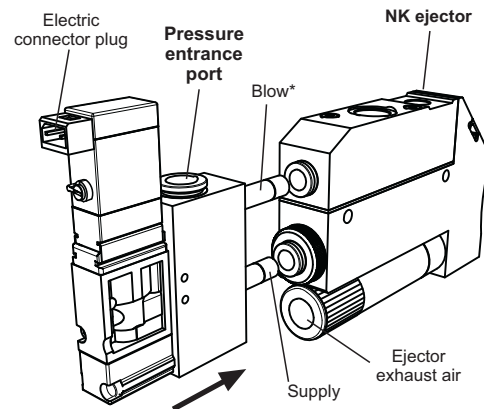
⚠ WARNINGS

- Only non-corrosive gases should be used as pressure media.
- Maximum applicable pressure is 7 bar.
- Do not attempt to detach or unscrew any lines or valves in the system that are under pressure
- Assure that the valve is full introduced in the ejector.
- Assure to switch off the voltage supply before working on the system!
- The solenoid valve should only operate with direct current.
- Do not touch the coil during use as it becomes very hot.

4. TECHNICAL CHARACTERISTICS

	Supply solenoid valve	Supply and blow solenoid valve
Supply solenoid valve	Yes	Yes
Blow solenoid valve	No	Yes
Fluid	No lubricated dry air, inerte gases, filtered at 50 µ	
Pressure range	0 ... 7 bar	
Fluid orifice	DN 4,0	
Voltage	24 V DC	
Voltage tolerance	± 10 %	
Power absorbed	1 W	2 x 1 W
Duty cycle	Continuous operation (100% ED)	
Response Cycle	~ 1000 c.p.m.	
Working temperature	-10 ... +50 °C	
Electric connexion	2 pin polar rectangular plug	3 pin polar rectangular plug
Protection	IP 40 with the rectangular plug	
Materials	PA, AL, FPM, NBR	
Weight	63g	89 g

5. MOUNTING



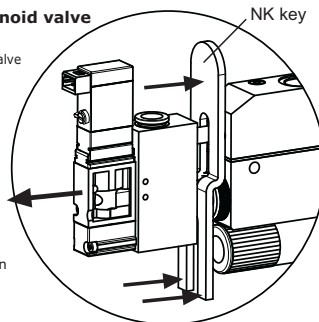
* This way is closed for the models without blow

⚠ It's absolutely forbidden to go ahead with any inspection or repairment of any kind without first disconnecting the unit from the supply networks.

Dismantle the solenoid valve

To dismantle the solenoid valve use the NK dismantle key and proceed this way:

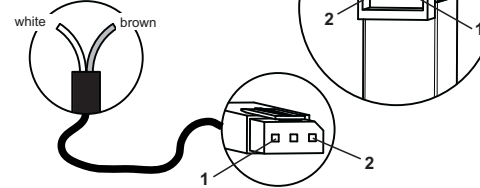
- Disconnect the electric supply and the pressure of the solenoid valve.
- Place the NK key as shown in the picture.
- Press the key as indicate the arrows and pull the solenoid in the opposite way, as shown in the picture.



6. ELECTRIC CONNECTIONS

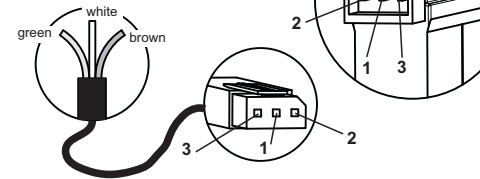
□ Supply solenoid valve

1	brown	+ 24 V DC
2	white	0 V



□ Supply and blow solenoid valve

1	White	0 V
2	Brown	+ 24 V DC
3	Green	0 V



7. OPERATION

⚠ AR VACUUM TECHNOLOGY, S.L. declines all liability for material damages or personal accidents stemming from mishandling of the machine, incorrect installation, wrong connections, knocks or dropping, or due to maintenance not in accordance with the indications in this Manual for Use and Maintenance.

Once the ejector is set in the working place, and all security measures accomplished (see Safety Precautions chapter), it's ready to start operating.

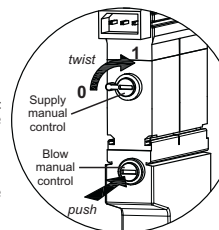
- Connect the solenoid valve to the electric supply according to voltage specifications.
- Connect the supply pressure tube into the solenoid valve corresponding port (check section 5).
- Turning on the solenoid supply valve, starts the ejector, letting the air pressure get in the ejector and by Ventury effect create the suction.
- To stop the ejector it's necessary to cut the pressure supply by turning off the solenoid supply valve.

Manual Control

The solenoid valve can be operated manually through the switches showed in the picture.

□ Supply control - position 0 automatic (electric) control and position 1 to start de supply.

□ Blow control (only for models with blow) - push to activate the blow. To hold active the blowing, push and twist clockwise direction.

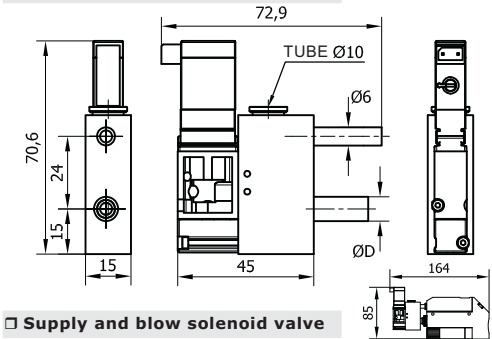


8. MALFUNCTIONS AND TROUBLESHOOTING

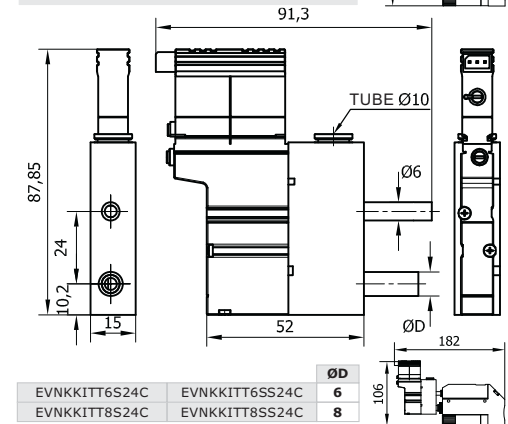
Problema	Causa	Solución
⚠ The ejector doesn't start	There's no supply pressure in the solenoid valve entrance port.	Check the pressure supply system.
	There's no current in the solenoid valve supply.	Check the electric supply system.
	The coil of the solenoid valve is burned. (Highly improbably)	Replace the solenoid valve of the vacuum device.

9. DIMENSIONS

□ Supply solenoid valve



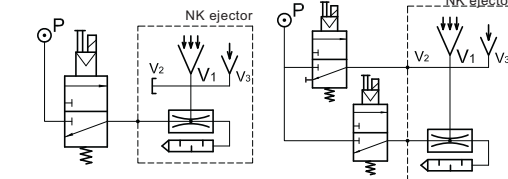
□ Supply and blow solenoid valve



10. PNEUMATIC SCHEMES

□ Supply solenoid valve

□ Supply and blow solenoid valve



11. ACCESSORIES AND SPARE PARTS

- Coil spare for supply solenoid valve..... Ref: EVABUR4S24C
- Coil spare for supply and blow solenoid valve... Ref: EVASBUR4SS24C
- 2 wire cable for 2 pin connector..... Ref: EVABUR4SCBL3CON
- 3 wire cable for 3 pin connector..... Ref: EVABUR4SCBL3CON
- NK solenoid valves disassembly key..... Ref: EVNKKITSLAVE



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