

Electro-pneumatic regulator selection for automation equipment

JCK Tech is an authorized sales agent for NNT pneumatic products. This short guide helps machine builders, repair companies and distributors prepare the information needed for NITV model review. It is a preliminary selection aid, not a guarantee of compatibility.

Main series

Series	Type	Typical use
NITV1000 / 2000 / 3000	Electro-pneumatic regulator	General pressure control for automation equipment
NITV0000	Compact / slim regulator	Limited installation space and compact machines
NITV2090 / 2091	Vacuum regulator	Vacuum pressure control and pick-and-place
NITVX	High pressure regulator	Higher pressure control applications

Selection steps

1. Confirm the application: new machine, replacement, laser cutting, dispensing, vacuum or retrofit.
2. Confirm pressure range. Common NITV ranges include 0.1 MPa, 0.5 MPa and 0.9 MPa, plus vacuum and high-pressure options.
3. Confirm input signal: 4-20 mA, 0-20 mA, 0-5 V, 0-10 V, preset or ModBus.
4. Confirm power supply, usually DC24V or DC12-15V.
5. Confirm port size and thread: 1/8, 1/4, 3/8, 1/2 and Rc, NPT, NPTF or G.
6. Confirm monitoring output if needed: analog, NPN or PNP.

Pressure and signal codes

Item	Common options
Pressure	0.1 MPa / 0.5 MPa / 0.9 MPa / vacuum / high pressure
Input signal	4-20 mA, 0-20 mA, 0-5 V, 0-10 V, preset, ModBus
Port size	1/8, 1/4, 3/8, 1/2 depending on series
Thread	Rc, NPT, NPTF, G

Application starting points

Application	What to check first
Laser cutting	Stable gas pressure, signal type, port size and repeatability
Dispensing	Fine pressure adjustment and compact installation if space is limited
Pick-and-place / vacuum	Vacuum range and suction stability, often NITV2090 / 2091

Application	What to check first
Machine retrofit	Current model, electrical signal, port and whether a sample is needed

What to send for a faster review

- Current brand and model number, plus a nameplate photo if available.
- Pressure range, input signal, power supply, port size and thread.
- Equipment or application, quantity, destination country and contact.
- Whether a sample is needed before bulk supply.
- Buyer type: machine builder, distributor, repair company or end user.

JCK Tech does not claim that every existing model is a direct drop-in replacement. Final suitability should be confirmed against the real application and may require sample testing. Contact jessica@jcktech.com or WhatsApp +86 18846917510.