

Stepless control of vacuum pressure proportional to an electrical signal



Standard Specifications

Model		NITV2090	NITV2091
Power supply	Voltage	DC24V±10%	DC12~15V
	Current consumption	Power supply voltage 24 VDC type: 0.12 A or less Power supply voltage 12 to 15 VDC type: 0.18 A or less	
Minimum supply vacuum pressure		Set pressure -13.3 kPa	
Minimum supply vacuum pressure		-101KPa	
Maximum supply vacuum pressure		-1.3~-80KPa	
Input signal	Current type ^{Note 2)}	4 to 20 mA DC, 0 to 20 mA DC (Sink type)	
	Voltage type	DC0~5V, DC0~10V	
	Preset input	4 points (Negative common), 16 points (No common polarity)	
Input impedance	Current type ^{Note 3)}	250 Ω or less	
	Voltage type	Approx. 6.5 KΩ	
	Preset input	Power supply voltage 24 VDC type: Approx. 4.7 KΩ Power supply voltage 12 VDC type: Approx. 2.0 KΩ	
Output signal ^{note 4)} (Monitor output)	Analog output	1 to 5 VDC (Output impedance: Approx. 1 KΩ) 4 to 20 mA DC (Sink type) (Output impedance: 250 Ω or less) Output accuracy ± 6% F.S. or less	
	Switch output	NPN open collector output: Max. 30 V, 80 mA PNP open collector output: Max. 80 mA	
Linearity		±1%F.S. or less	
Hysteresis		0.5%F.S. or less	
Repeatability		±0.5%F.S. or less	
Sensitivity		0.2%F.S. or less	
Temperature characteristics		±0.12%F.S./°C or less	
Output pressure display	Accuracy	±2%F.S./±1digit or less	
	Units	kPa ^{Note 5)} Minimum display: 1	
Ambient and fluid temperature		0~50 (No condensation)	
Enclosure		IP65	
Weight		350g	

Note 1) The minimum supply vacuum pressure should be 13.3 kPa less than the maximum vacuum pressure setting value.

Note 2) 4 to 20 mA DC is not possible with the 2-wire type. Power supply voltage (24 VDC or 12 to 15 VDC) is required.

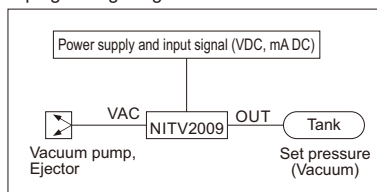
Note 3) Value for the state with no over current circuit included. If an allowance is provided for an over current circuit, the input impedance varies depending on the input power supply. This is 350 Ω or less for an input current of 20 mA DC.

When measuring ITV analog output from 1 to 5 VDC, if the load impedance is less than 100 kΩ, the analog output monitor accuracy of within ±6% (full span) may not be available. The product with the accuracy of within ±6% is supplied upon your request. Output pressure remains unaffected.

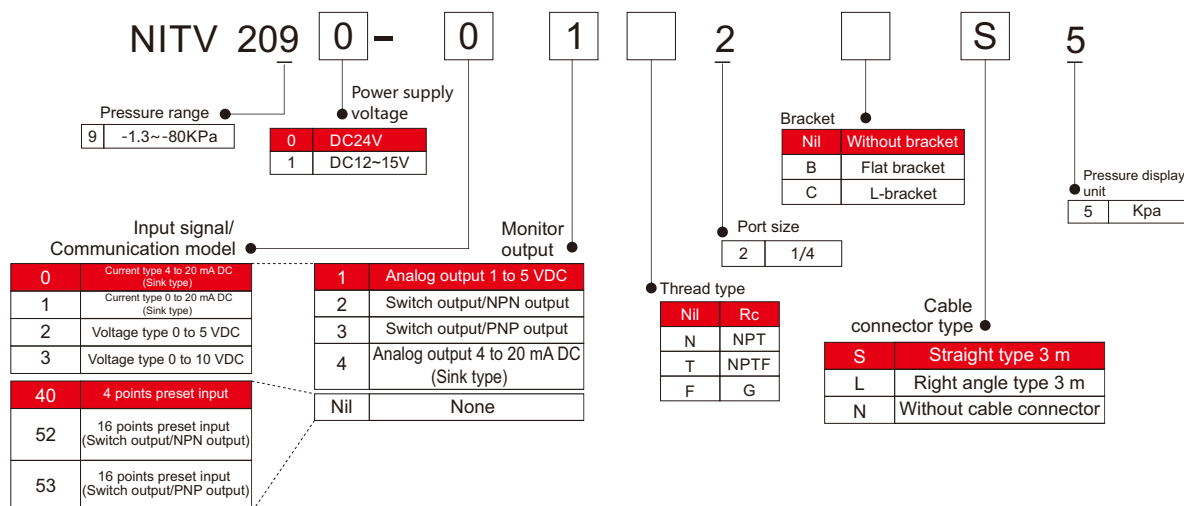
Note 4) Either analog output or switch output must be selected. Furthermore, when switch output is selected, either NPN output or PNP output must also be selected. Use caution that the preset input type is not equipped with an output signal function.

Note 5) Please contact NNT regarding indication with other units of pressure.

Piping/Wiring Diagram



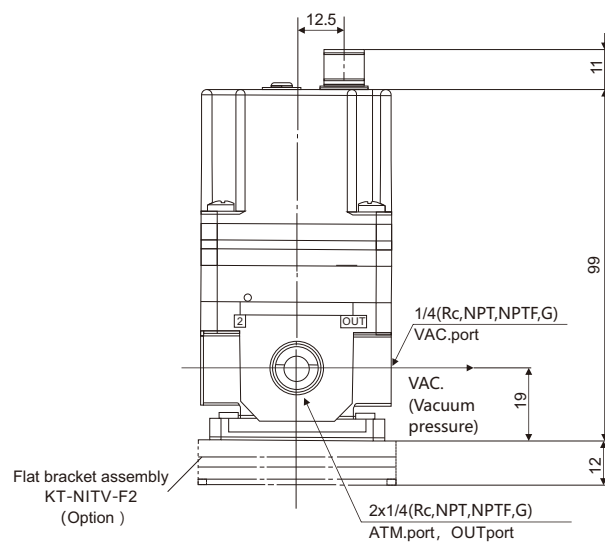
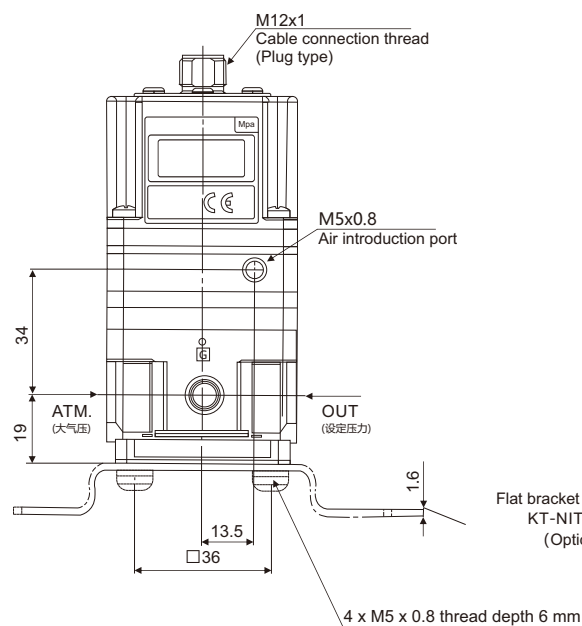
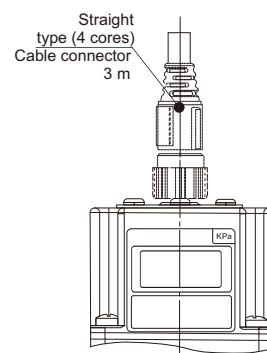
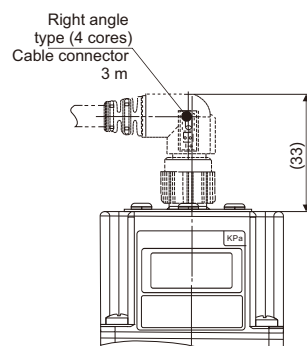
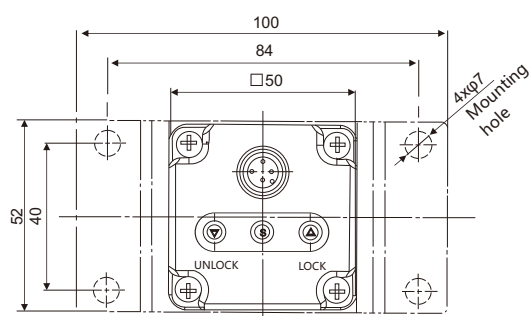
Standard Specifications



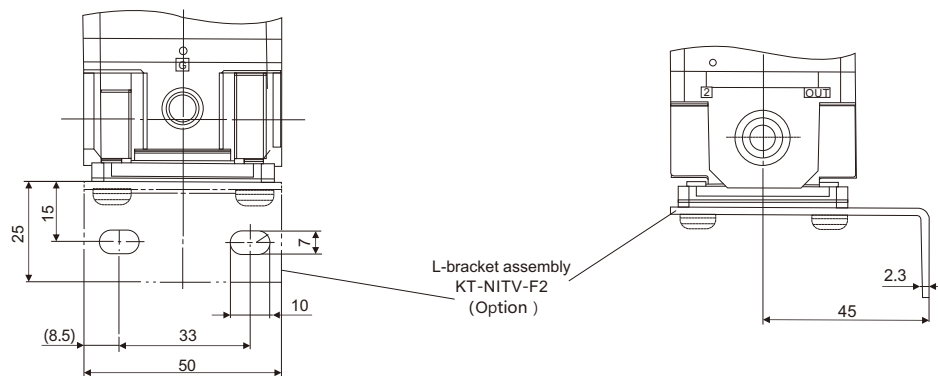
Dimensions

NITV209□

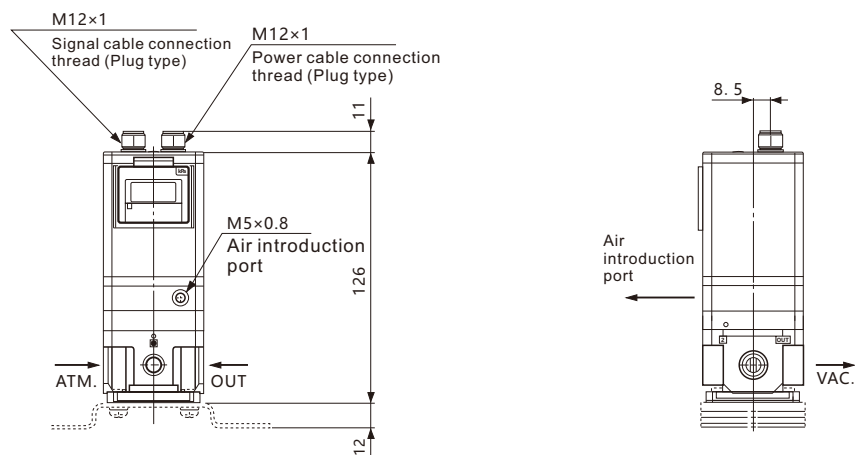
Flat bracket



L-bracket



16 points preset input

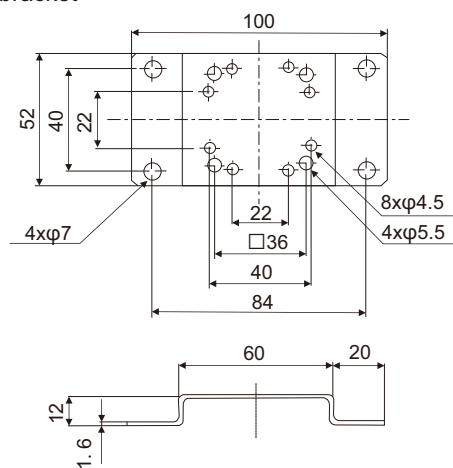


Accessories (Option)/Part No.

Description		Part No.
Flat bracket assembly (including mounting screws)		KT-NITV-F2
L-bracket assembly (including mounting screws)		KT-NITV-L2
电源电缆插头	Straight type 3m	P398020-500-3 (DeviceNet™の場合P398020-504-3)
	Straight type 3m	P398020-501-3 (DeviceNet™の場合P398020-505-3)

Dimensions

Flat bracket



L-bracket

