

Standard Specifications

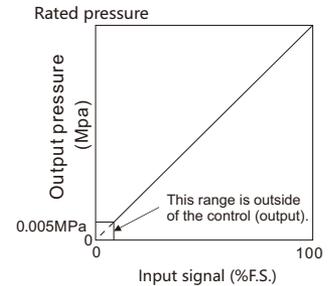
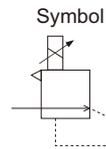


Figure 1. Input/output characteristics chart



Model	NITV101□ ^{Note8)}		NITV103□ ^{Note8)}		NITV105□ ^{Note8)}	
	NITV201□		NITV203□		NITV205□	
	NITV301□		NITV303□		NITV305□	
Minimum supply pressure	Set pressure +0.1 MPa					
Maximum supply pressure	0.2MPa		1.0MPa			
Set pressure range ^{Note 1)}	0.005 to 0.1 MPa		0.005 to 0.5 MPa		0.005 to 0.9 MPa	
Power supply	Voltage 24 VDC ± 10%, 12 to 15 VDC					
	Current consumption Power supply voltage 24 VDC type: 0.12 A or less ^{Note 9)} Power supply voltage 12 to 15 VDC type: 0.18 A or less					
Input signa ^{Note 9)}	Current type ^{Note 2)} 4 to 20 mA DC, 0 to 20 mA DC (Sink type)					
	Voltage type 0 to 5 VDC, 0 to 10 VDC					
	Preset input 4 points (Negative common), 16 points (No common polarity)					
Input impedance	Current type 250 Ω or less ^{Note 6)}					
	Voltage type Approx. 6.5 KΩ					
	Digital input Power supply voltage 24 VDC type: Approx. 4.7 KΩ Power supply voltage 12 VDC type: Approx. 2.0 KΩ					
Output signal output (monitor output)	Analog out 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 out 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 ^{Note 4)}	Accuracy ± 2% F.S. ± 1 digit or less					
	Minimum unit Mpa: 0.001, kgf/cm2: 0.01, bar: 0.01, psi: 0.1 ^{Note 5)} , kPa: 1					
Ambient and fluid temperature 0 to 50°C (No condensation)						
Enclosure Ip65						
Weight Note 10)	NITV10□□		Approx. 250 g (without options)			
	NITV20□□		Approx. 350 g (without options)			
	NITV30□□		Approx. 645 g (without options)			

Note 1) Please refer to Figure 1 for the relationship between set pressure and input. Because the maximum set pressure differs for each pressure display, refer to page 945.

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

Note 3) Select either analog output or switch output. Further, when switch output is selected, select either NPN output or PNP output. When measuring NITV 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) Adjustment of numerical values such as the zero/span adjustment or preset input type is set based on the minimum units for output pressure display (e.g. 0.001 to 0.500 MPa). Note that the unit cannot be changed.

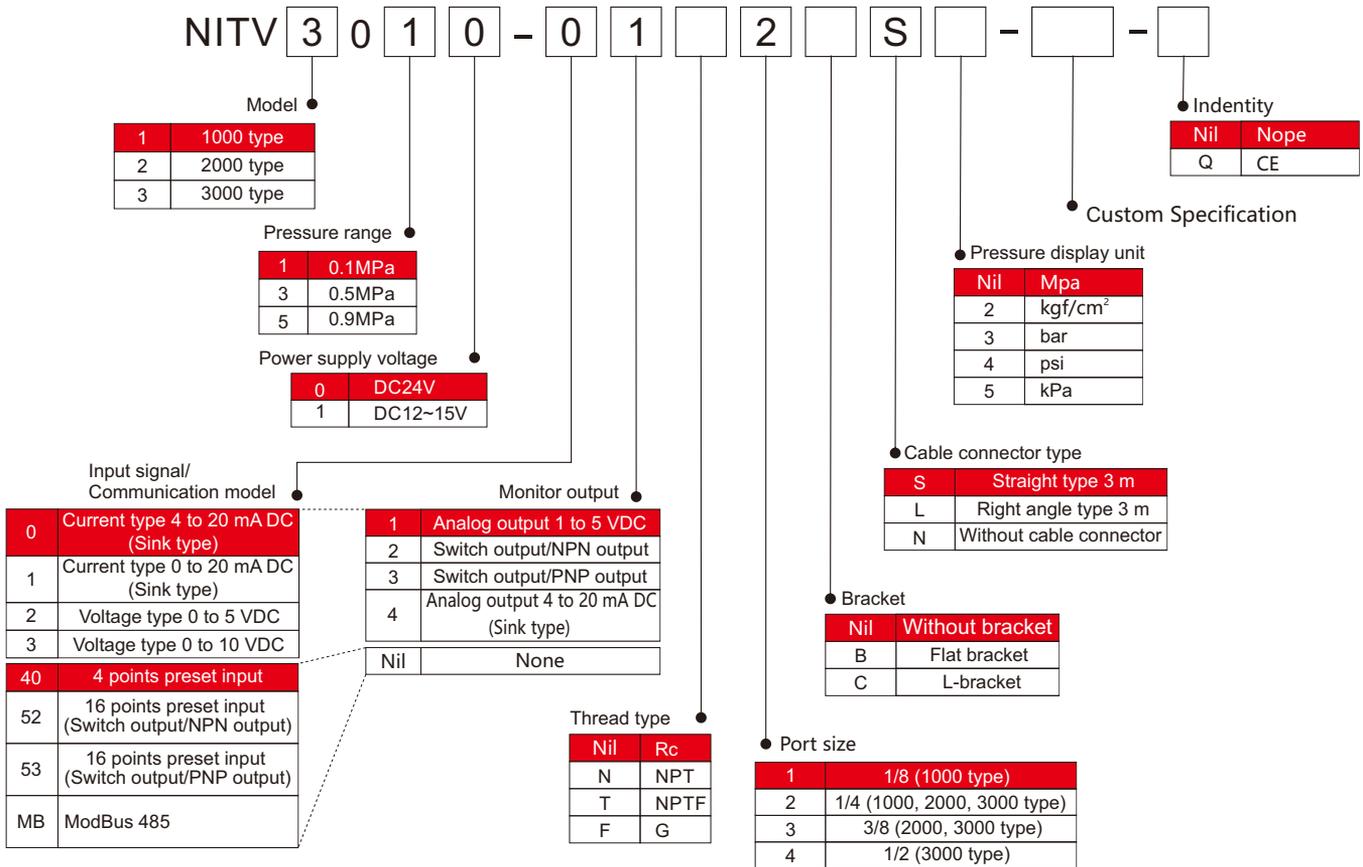
Note 5) The minimum unit for 0.9 MPa (130 psi) types is 1 psi.

Note 6) 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 current. This is 350 Ω or less for an input current of 20 mA DC.

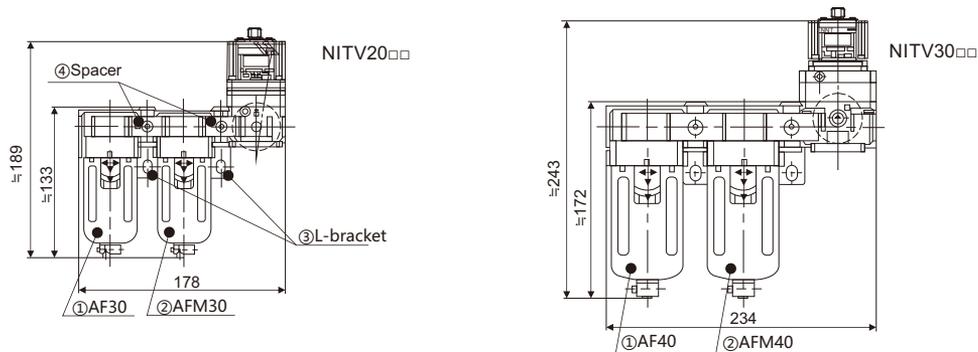
Note 7) The above characteristics are confined to the static state. When air is consumed on the output side, the pressure may fluctuate.

Note 8) The NITV1000 series is a Grease-free specification (Wetted parts).

Standard Specifications



Modular Products and Accessory Combinations



Modular Products and Accessory Combinations

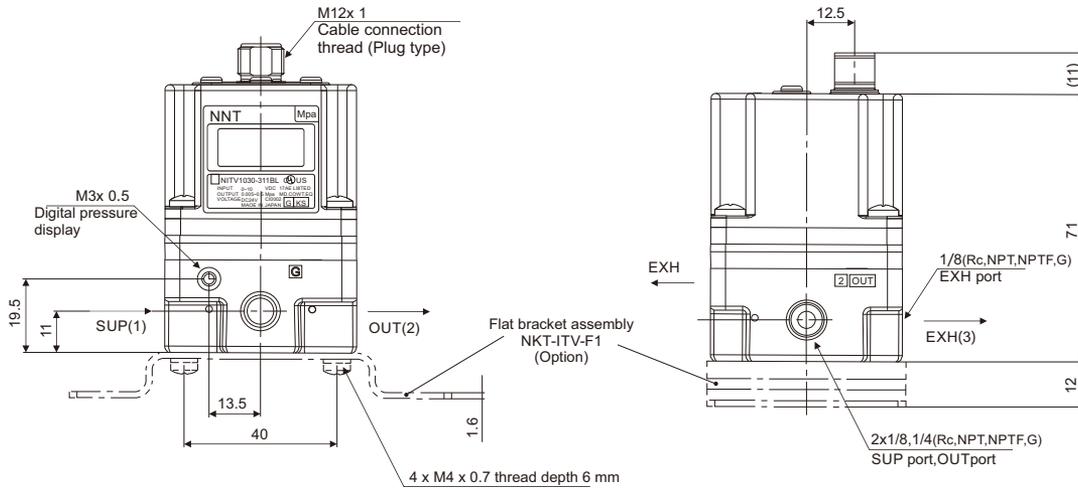
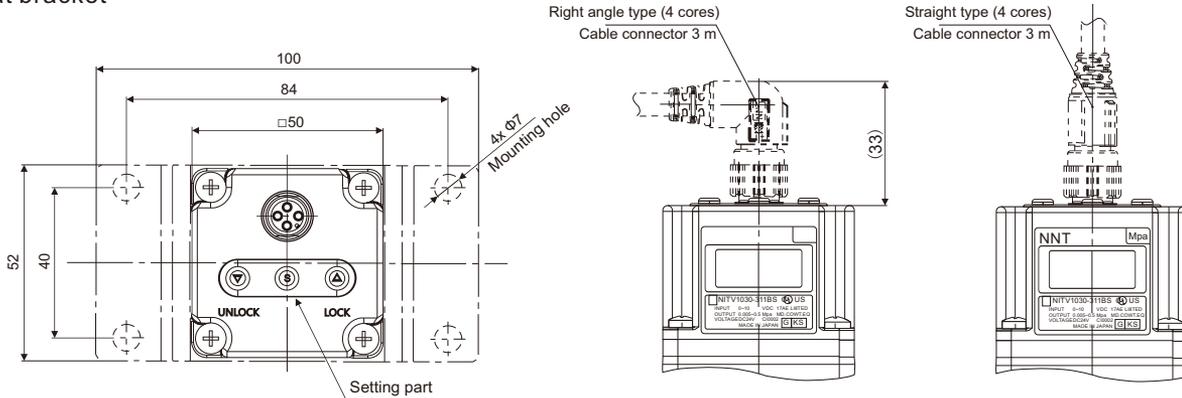
For NITV10□□, use a modular adapter

Applicable products and accessories	Applicable model	
	NITV20□□	NITV30□□
① Air filter	AF30	AF40
② Mist separator	AFM30	AFM40
③ L-bracket	B310L	B410L
④ Spacer	Y30	Y40
⑤ Spacer with L-bracket (③+④)	Y30L	Y40L
⑥ Spacer with T-bracket	-	Y40T

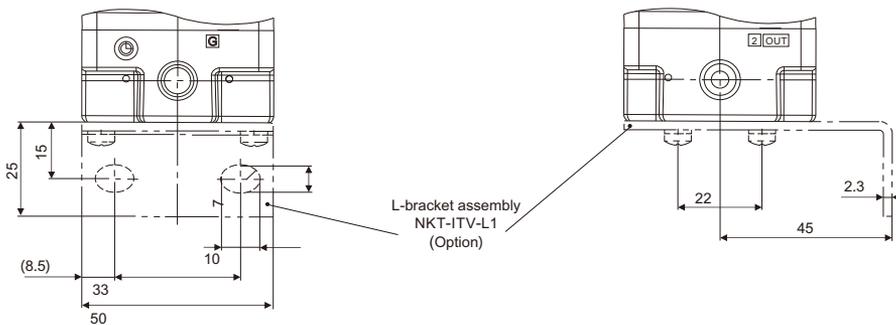
Dimensions

NITV10□□
Flat bracket

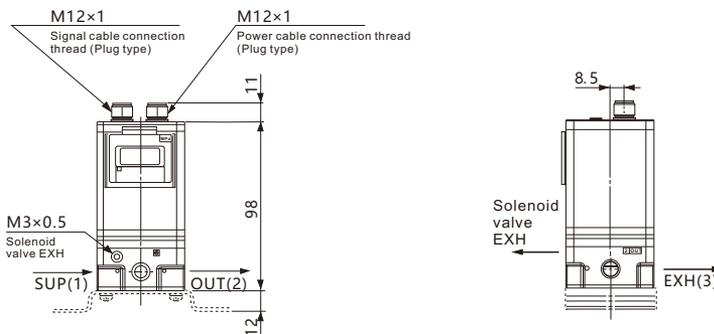
Note) Do not attempt to rotate, as the cable connector does not turn.



L-bracket assembly

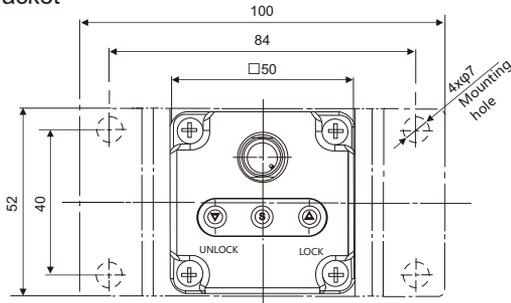


16 points preset input

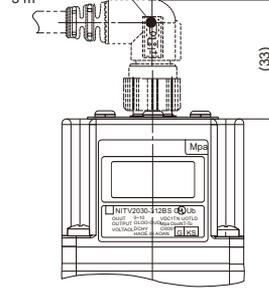


Dimensions

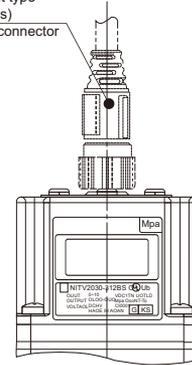
NITV20□□
Flat bracket



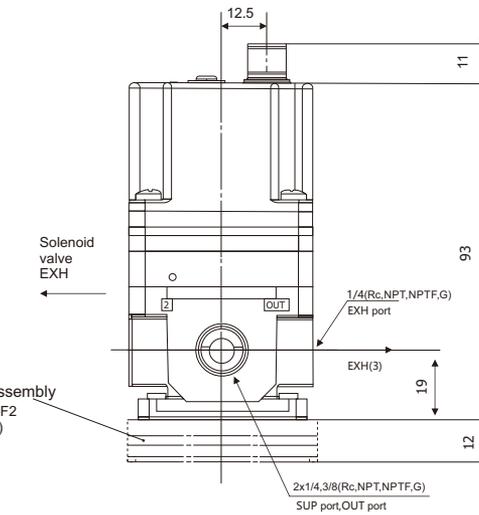
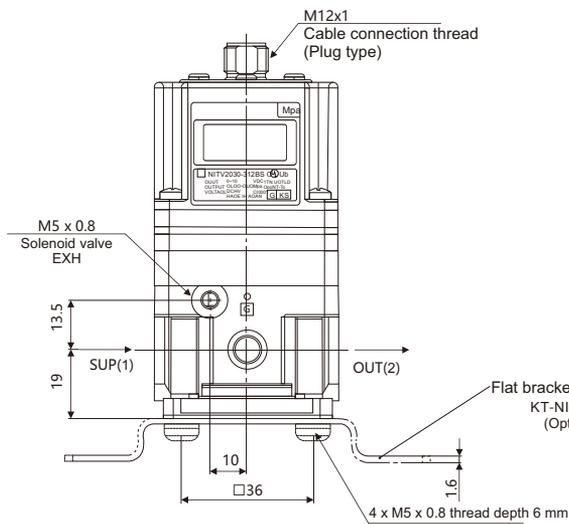
Right angle type
(4 cores)
Cable connector
3 m



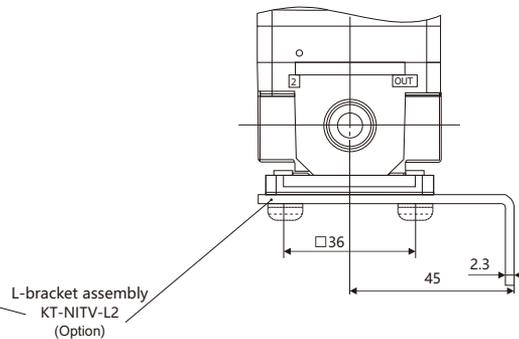
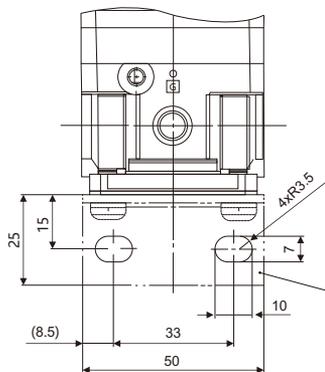
Straight type
(4 cores)
Cable connector
3 m



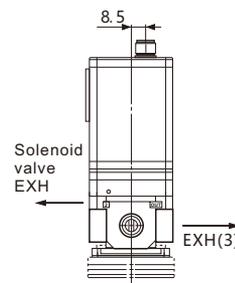
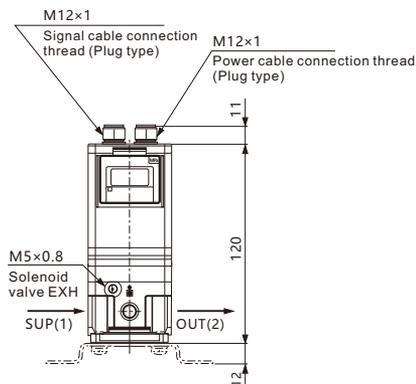
Note) Do not attempt to rotate, as the cable connector does not turn.



L-bracket

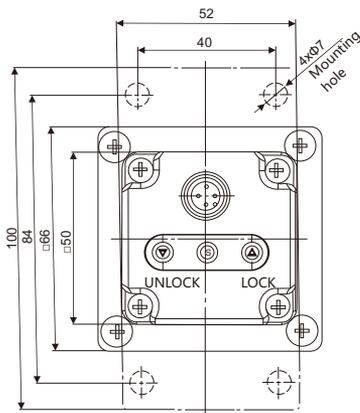


16 points preset input



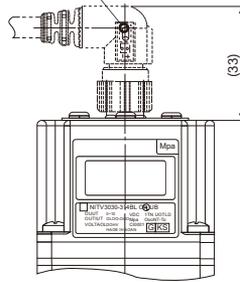
Dimensions

NITV30□□□
Flat bracket

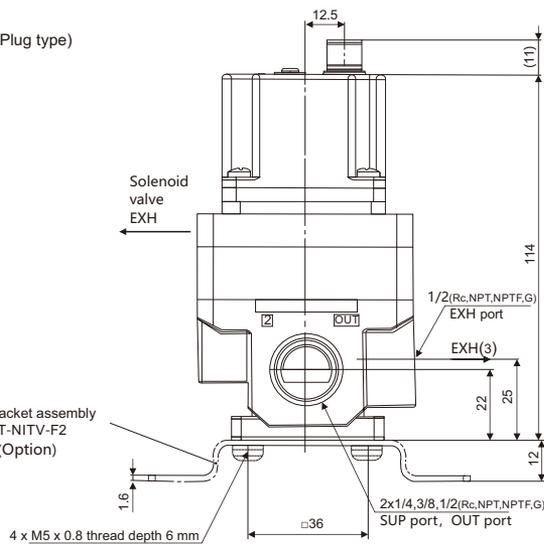
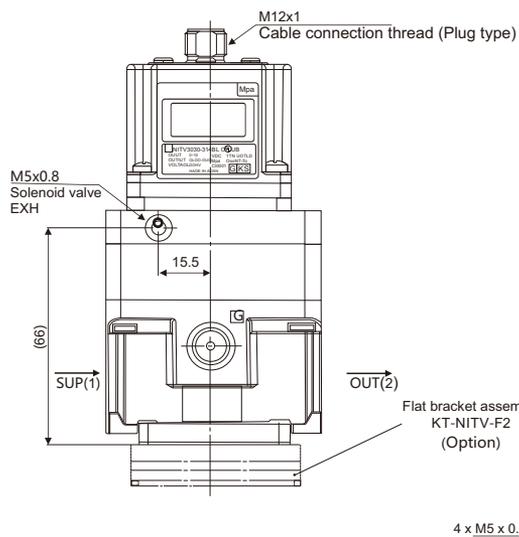
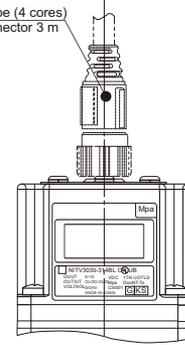


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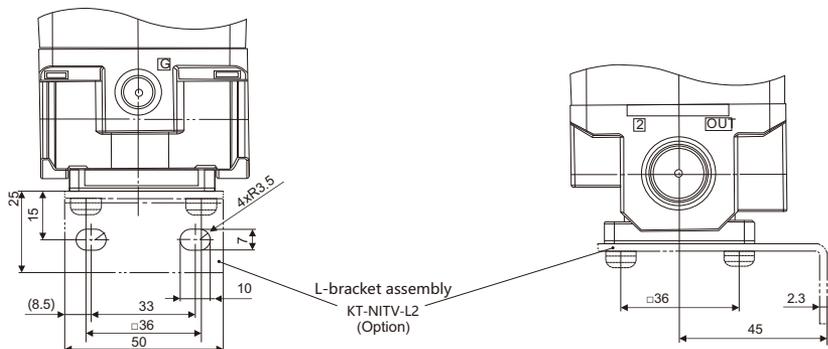
Right angle type (4 cores)
Cable connector 3 m



Straight type (4 cores)
Cable connector 3 m



L-bracket



16 points preset input

