



Standard Specifications

Mode		NITVX2000
Minimum supply pressure		Whichever is higher: 0.5 MPa or the set pressure +0.2 MPa
Maximum supply pressure		5MPa ^{Note2)}
Set pressure range	^{Note3)}	0.01 to 3.0 MPa
Power supply	Voltage	24 VDC ±10%
	Current consumption	0.12 A or less
Input signal	Current type ^{Note4)}	4 to 20 mA DC, 0 to 20 mA DC (Sink type)
	Voltage type	0 to 5 VDC, 0 to 10 VDC
Input impedance	Current type	500Ω or less
	Voltage type	6~6.5KΩ(at ordinary temperature)
Output signal ^{Note5)} (Monitor output)	Analog output	1 to 5 VDC (Output impedance: Approx. 1KΩ) Output accuracy: ±6% or less (Full span)
		4 to 20 mA DC (Sink type) Load impedance: 250 Ω or less Output accuracy: ±6% or less (Full span)
	Switch output	NPN open collector output: Max. 30 V, 80 mA
		Hysteresis: ±3% (Full span), Self-diagnosis: ±5% or less (Full span)
		PNP open collector output: Max. 80 mA Hysteresis: ±3% (Full span), Self-diagnosis: ±5% or less (Full span)
Linearity		±1% or less (Full span)
Hysteresis		1% or less (Full span)
Repeatability		±1% or less (Full span)
Sensitivity		±1% or less (Full span)
Temperature characteristics		±0.12% or less (Full span)/°C
Output pressure display	Accuracy	±2% or less (Full span) ±1 digit
	Minimum unit ^{Note6)}	MPa:0.01,kgf/cm ² :0.1,bar:0.1,ps:1
Fluid		Air, N ₂ , O ₂ , Ar
Ambient and fluid temperature		0-50°C(No condensation)
Weight		Approx. 570 g (without options)

Symbol

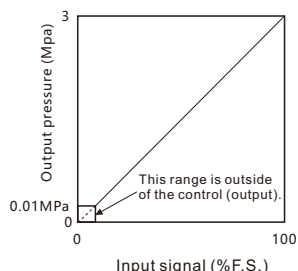
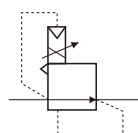


Fig. 2. Input/output characteristics chart

Note1) Characteristics shown above are based on the piping conditions of Fig. 1.

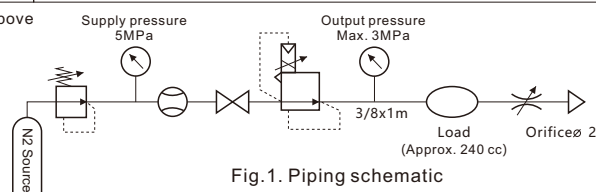


Fig. 1. Piping schematic

Note2) When oxygen is used as a fluid, the maximum supply pressure must be less than 1 MPa.

Note3) Refer to Fig. 2 for the relationship between set pressure and input signal.

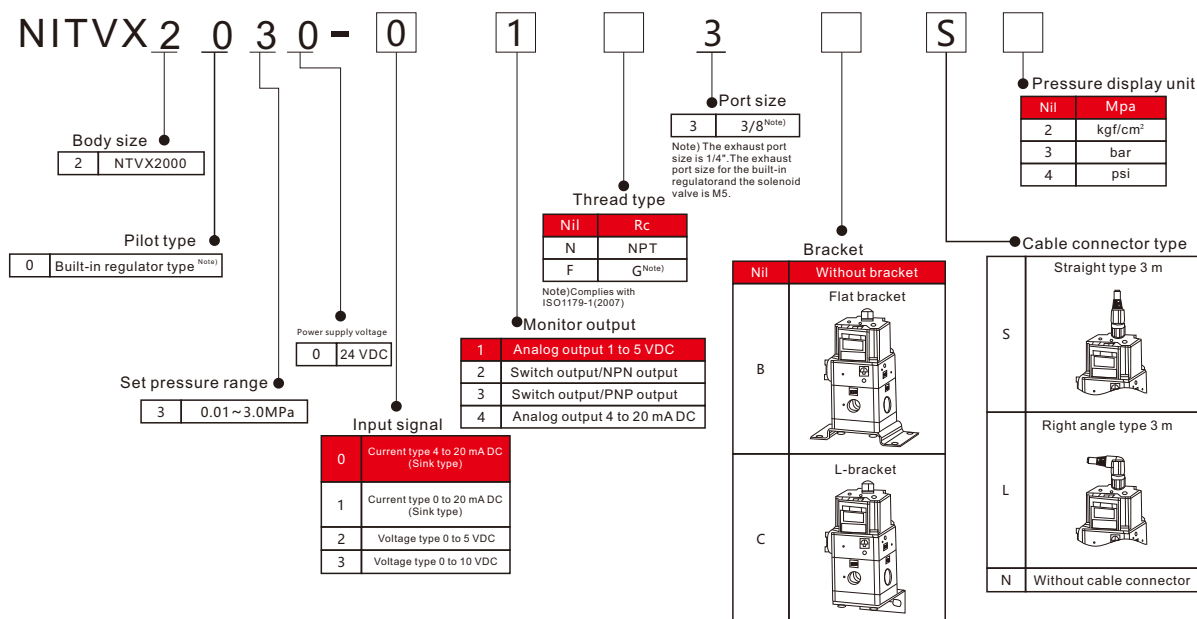
Note4) 2-wire type 4 to 20 mA DC is not available. Power supply voltage 24 VDC is required.

Note5) Select either analog output or switch output. Further, when switch output is selected, select either NPN output or PNP output. When measuring analog output of 1 to 5 VDC with a load impedance less than 100 kΩ, the analog output may not obtain the output accuracy of ±6% or less (F.S.).

Note6) Adjustment of numerical values such as the zero/span adjustment is set based on the minimum units for output pressure display. Note that the unit cannot be changed.

Note7) This product is only for blowing gas. This product does not have sufficient pressure control for applications other than blowing (driving, sealing, etc.).

Standard Specifications



Wiring

⚠ Caution

Connect the cable to the connector on the body with the wiring arranged as shown below. Proceed carefully, as incorrect wiring can cause damage. Further, use DC power with sufficient capacity and a low ripple.

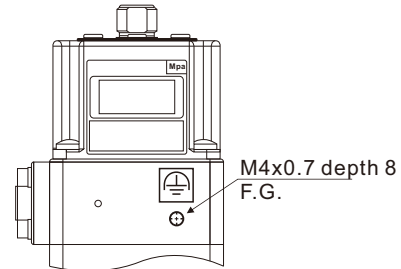


Note) The cable is also available in a right angle type.

A right angle type connector is attached facing left (toward the SUP port). Do not attempt to rotate, as the connector does not turn.

F.G.(Grounding)

Ground the frame ground (F.G.) terminal at the front of the main body. If the F.G. terminal port is not used, this product may not operate properly due to the noise.



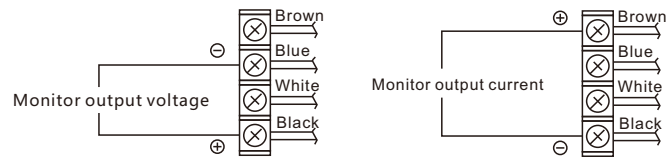
Current Signal Type
Voltage Signal Type

1	Brown	Power supply
2	White	Input signal
3	Blue	GND(COMMON)
4	Black	Monitor output

Monitor output wiring diagram

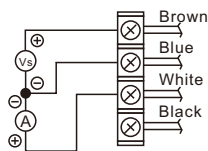
Analogue output: Voltage type

Analogue output: Current type
(Sink type)



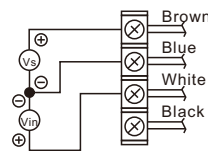
Wiring diagram

Current signal type



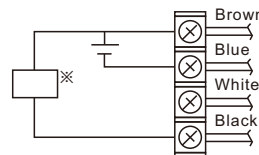
Vs: Power supply 24 VDC
A: Input signal 4 to 20 mA DC
0 to 20 mA DC

Voltage signal type

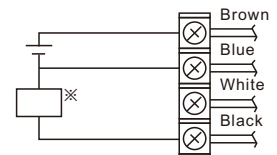


Vs: Power supply 24 VDC
Vin: Input signal 0 to 5 VDC
0 to 10 VDC

Switch output: NPN type

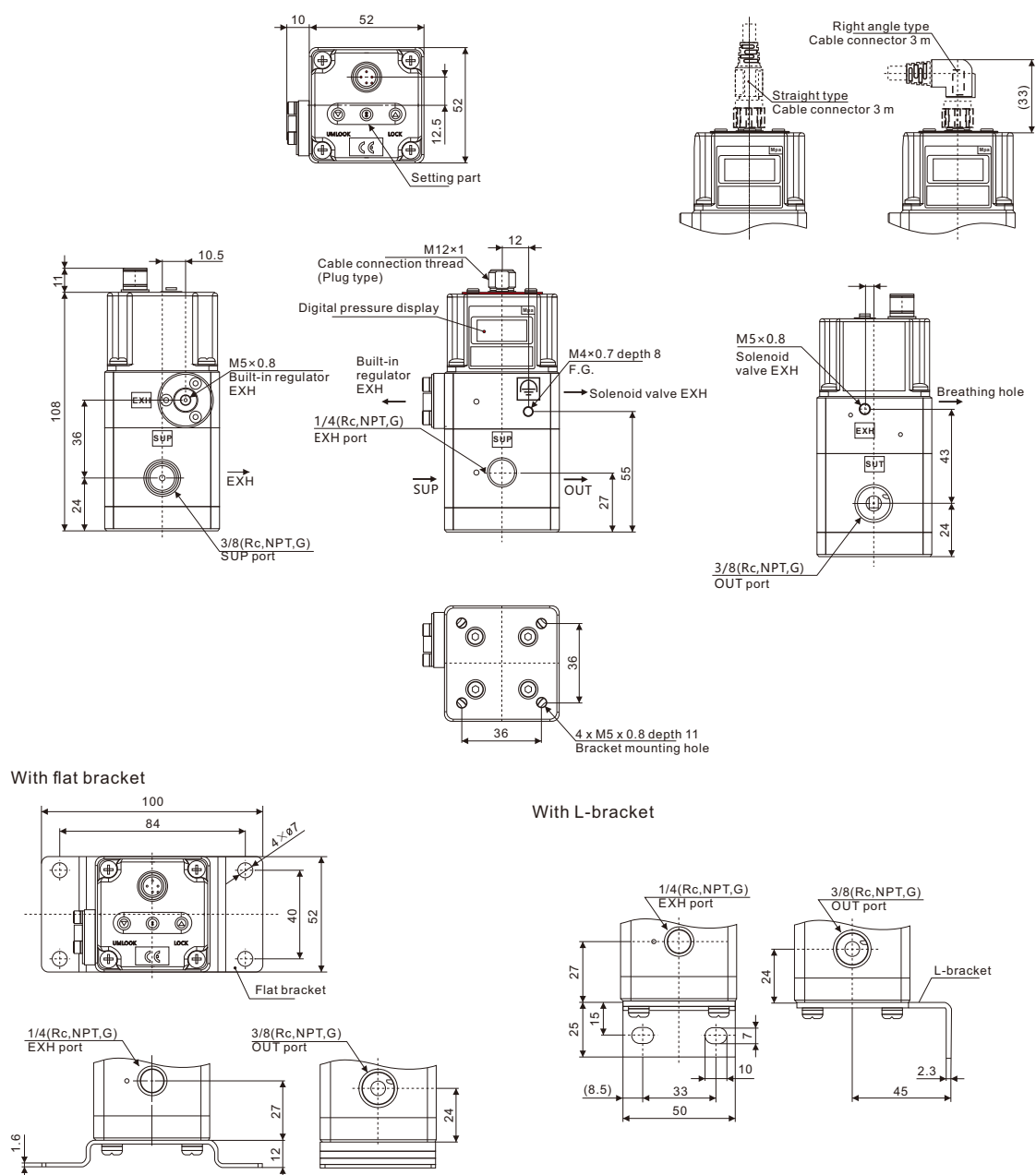


Switch output: PNP type



※When 80 mA DC or more is applied, detecting device for overcurrent starts activating and then emits an error signal. (Error)

Dimensions



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
Power cable connector	Straight type 3 m	P398020-500-3
	Right angle type 3 m	P398020-501-3

