

Electro-Pneumatic Regulator

Series *ITV1000/2000/3000*



How to Order

ITV 3 0 1 0 - 0 1 [] 2 [] S [] - [] - []

Model

1	1000 type
2	2000 type
3	3000 type

Pressure range

1	0.1 MPa
3	0.5 MPa
5	0.9 MPa

Power supply voltage

0	24 VDC
1	12 to 15 VDC

Note) Communication models (CC, DN, PR, RC) are available only for 24 VDC.

Input signal/Communication model

0	Current type 4 to 20 mA DC (Sink type)
1	Current type 0 to 20 mA DC (Sink type)
2	Voltage type 0 to 5 VDC
3	Voltage type 0 to 10 VDC
40	Preset input
CC	CC-Link
DN	DeviceNet™
PR	PROFIBUS DP
RC	RS-232C communication

Monitor output

1	Analog output 1 to 5 VDC
2	Switch output/NPN output
3	Switch output/PNP output
4	Analog output 4 to 20 mA DC (Sink type)
Nil	None

Thread type

Nil	Rc
N	NPT
T	NPTF
F	G

CE compliant

Nil	—
Q	CE compliant

Note) Refer to pages 11, 25, and 26 for information on CE compliant made to order products.
* For detailed information on models for CE, refer to SMC's website.

Made to Order Specifications
Refer to pages 11, 25, and 26 for details.

Pressure display unit

Nil	MPa
2 ^{Note)}	kgf/cm ²
3	bar
4 ^{Note)}	psi
5	kPa

Note) Under Japan's new Measurement Act, this is only for overseas sales (SI units are to be used inside Japan). For the communication models, CC, DN, PR and RC, only "Nil" is available as it does not have a pressure display.

Cable connector type

S	Straight type 3 m
L	Right angle type 3 m
N	Without cable connector

Note) Order communication cable (other than RS-232C) separately. See below.

Bracket

Nil	Without bracket
B	Flat bracket
C	L-bracket

Port size

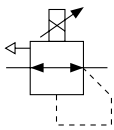
1	1/8 (1000 type)
2	1/4 (1000, 2000, 3000 type)
3	3/8 (2000, 3000 type)
4	1/2 (3000 type)

For communication cables, use the parts listed below (refer to the catalog [M8/M12 Connector] CAT.ES100-73 for details) or order the product certified for the respective protocol (with M12 connector) separately.

Application	Communication cable part number	Remarks
CC-Link compatibility	PCA-1567720 (Socket type)	Dedicated Bus adapter supplied with the product.
	PCA-1567717 (Plug type)	
DeviceNet™ compatibility	PCA-1557633 (Socket type)	T-branch connector not supplied.
	PCA-1557646 (Plug type)	
PROFIBUS DP compatibility	PCA-1557688 (Socket type)	T-branch connector not supplied.
	PCA-1557691 (Plug type)	



JIS Symbol



Rated pressure

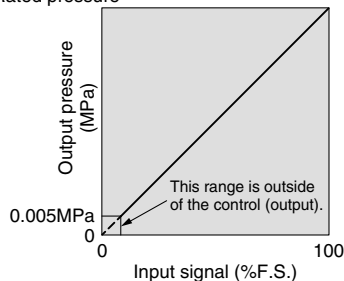


Figure 1. Input/output characteristics chart

Communication Specifications (CC, DN, PR, RC)

Standard Specifications

Model		ITV101	Note 10)	ITV103	Note 10)	ITV105	Note 10)
		ITV201		ITV203		ITV205	
		ITV301		ITV303		ITV305	
Minimum supply pressure		Set pressure +0.1 MPa					
Maximum supply pressure		0.2 MPa		1.0 MPa			
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 Power supply voltage 12 to 15 VDC type: 0.18 A or less					
Input signal	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)					
Input impedance	Current type	250 Ω or less					
	Voltage type	Note 6) 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	Analog output	Note 3) 1 to 5 VDC (Load impedance: 1 kΩ or more) 4 to 20 mA DC (Sink type) (Load impedance: 250 Ω or less) Output accuracy within ±6% (Full span)					
	Switch output	NPN open collector output: Max. 30 V, 80 mA PNP open collector output: Max. 80 mA					
Linearity		Within ±1% (Full span)					
Hysteresis		Within 0.5% (Full span)					
Repeatability		Within ±0.5% (Full span)					
Sensitivity		Within 0.2% (Full span)					
Temperature characteristics		Within ±0.12% (Full span)/°C					
Output pressure display	Accuracy	±2%F.S. ± 1 digit					
	Minimum unit	Note 4) MPa: 0.001, kgf/cm ² : 0.01, bar: 0.01, psi: 0.1 , kPa: 1					
Ambient and fluid temperature		0 to 50°C (No condensation)					
Enclosure		IP65					
Weight	ITV10	Note 9) Approx. 250 g (without options)					
	ITV20	Approx. 350 g (without options)					
	ITV30	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 back page 6.

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.

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. 0.01 to 0.50 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) For communication models, the maximum current consumption is 0.16 A or less.

Note 9) For communication models, add roughly 80 g to the weight (100 g for the PROFIBUS DP).

Note 10) The ITV1000 series is a Grease-free specification (Wetted parts).

Model	ITV□0□0-CC	ITV□0□0-DN	ITV□0□0-PR	ITV□0□0-RC
Protocol	CC-Link	DeviceNet™	PROFIBUS DP	RS-232C
Version ^{Note 1)}	Ver 1.10	Release2.0	DP-V0	—
Communication speed	156 k/625 k 2.5 M/5 M/10 M bps	125 k/250 k/500 k bps	9.6 k/19.2 k/45.45 k 93.75 k/187.5 k/500 k 1.5 M/3 M/6 M/12 M bps	9.6 kbps
Configuration file ^{Note 2)}	—	EDS	GSD	—
I/O occupation area (input/output data)	4 word/4 word, 32 bit/32 bit (per station, remote device station)	16 bit/16 bit	16 bit/16 bit	—
Communication data resolution	12 bit (4096 resolution)	12 bit (4096 resolution)	12 bit (4096 resolution)	10 bit (1024 resolution)
Fail safe	HOLD ^{Note 3)} /CLEAR (Switch setting)	HOLD/CLEAR (Switch setting)	CLEAR	HOLD
Electric insulation ^{Note 4)}	No	No	Yes	No
Terminating resistor	—	—	Built into the product (Switch setting)	—

Note 1) Note that version information is subject to change.

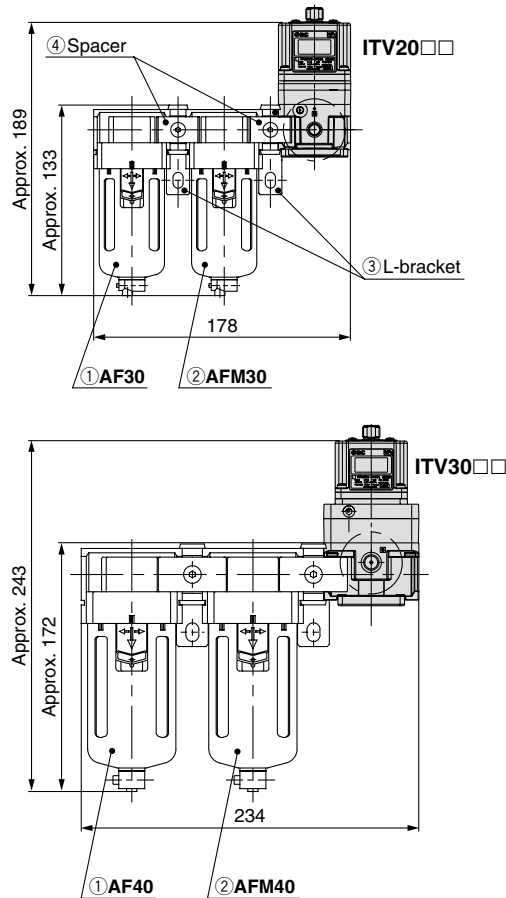
Note 2) Configuration files can be downloaded from the SMC's website: <http://www.smcworld.com>

Note 3) The output HOLD value when a CC-Link communications error occurs can be set based on the bit area data.

Note 4) The insulation between the electrical signal of the communication system and ITV power supply.



Series ITV1000/2000/3000



Combinations

○ Standard specifications ○ Combination possible ■ Combination not possible

* ITV10□□ models are not applicable.

Specifications		Symbol	Applicable model	
			ITV20□□	ITV30□□
Standard specifications	Set pressure max. 0.1 MPa	1	○	○
	Set pressure max. 0.5 MPa	3	○	○
	Set pressure max. 0.9 MPa	5	○	○
	Connection Rc 1/4	02	○	○
	Connection Rc 3/8	03	○	○
	Connection Rc 1/2	04	■	○
Accessories	Bracket	B	○	○
	Bracket	C	○	○
Optional specifications	Connection NPT1/4	N02	○	○
	Connection NPT3/8	N03	○	○
	Connection NPT1/2	N04	■	○
	Connection G 1/4	F02	○	○
	Connection G 3/8	F03	○	○
	Connection G 1/2	F04	■	○

Modular Products and Accessory Combinations

* ITV10□□ models are not applicable.

Applicable products and accessories	Applicable model	
	ITV20□□	ITV30□□
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

Accessories (Option)/Part No.



Made to Order

(Refer to pages 25 and 26 for details.)

Symbol	CE-compliant	Specifications
X81	Not compliant	16 points preset input type
X156	Compliant	
X93	Not compliant	Digital input type
X157	Compliant	
X102	Not compliant	Reverse type
X321	Compliant	
X224	Not compliant	High pressure type (SUP 1.2 MPa, OUT 1.0 MPa)
X322	Compliant	
X25	Not compliant	Set pressure range 1 to 100 kPa (Except Series ITV3000)
X323	Compliant	
X88	Not compliant	High speed response type (Except Series ITV3000)
X154	Compliant	
X26	Not compliant	For manifold mounting (Except Series ITV3000)
X153	Compliant	

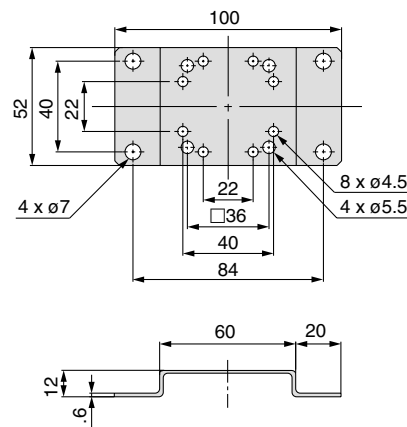
Note 1) Manifolds are compatible with 2 to 8 stations. Consult with SMC for 9 stations or more.

Note 2) Products without symbols are also compatible. Consult with SMC separately.

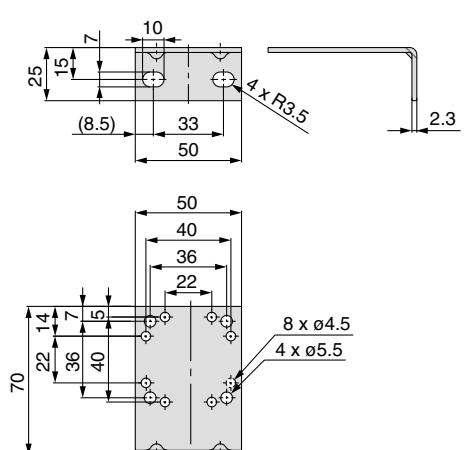
Description		Part No.		
		ITV10□□	ITV20□□	ITV30□□
Flat bracket assembly (including mounting screws)		KT-ITV-F1	KT-ITV-F2	
L-bracket assembly (including mounting screws)		KT-ITV-L1	KT-ITV-L2	
Power cable connector	Straight type 3 m	P398020-500-3 (P398020-504-3 for DeviceNet™)		
	Right angle type 3 m	P398020-501-3 (P398020-505-3 for DeviceNet™)		
Bus adapter (CC-Link model only)		EX9-ACY00-MJ		

Dimensions

Flat bracket



L-bracket



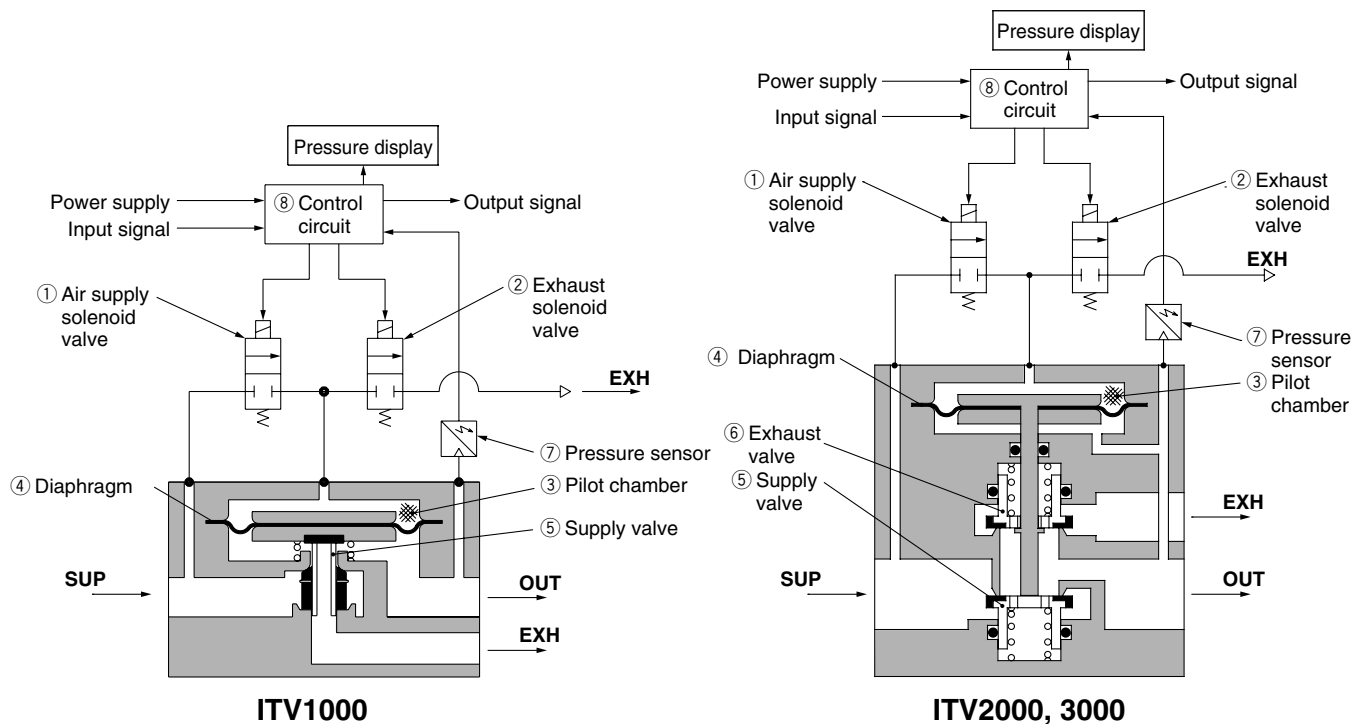
Working Principles

When the input signal rises, the air supply solenoid valve ① turns ON, and the exhaust solenoid valve ② turns OFF. Therefore, supply pressure passes through the air supply solenoid valve ① and is applied to the pilot chamber ③. The pressure in the pilot chamber ③ increases and operates on the upper surface of the diaphragm ④.

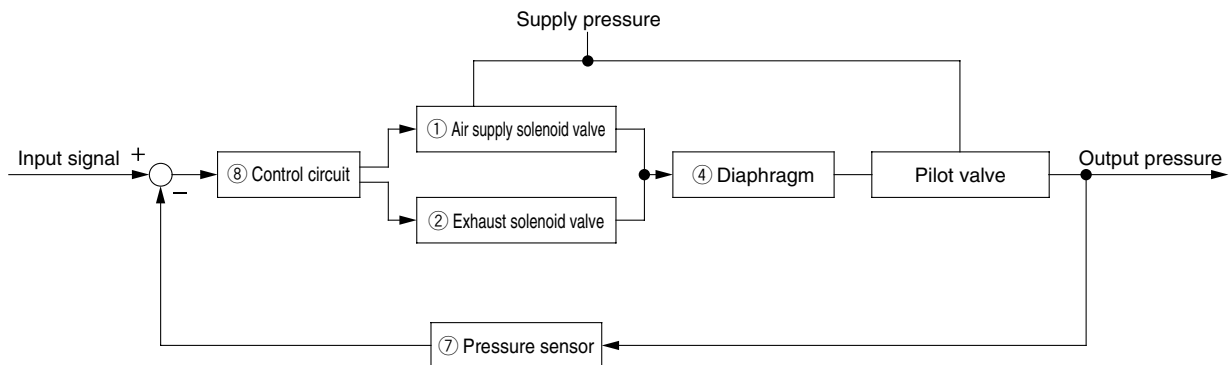
As a result, the air supply valve ⑤ linked to the diaphragm ④ opens, and a portion of the supply pressure becomes output pressure.

This output pressure feeds back to the control circuit ⑧ via the pressure sensor ⑦. Here, a correct operation functions until the output pressure is proportional to the input signal, making it possible to always obtain output pressure proportional to the input signal.

Working Principle Diagram



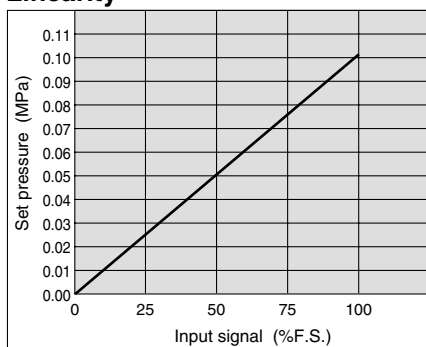
Block diagram



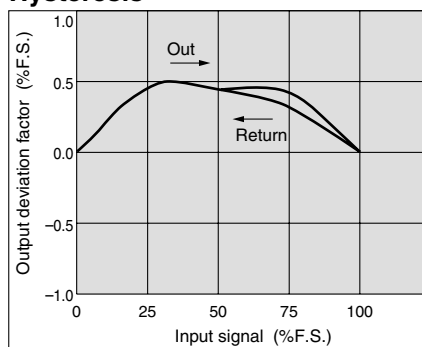
Series ITV1000/2000/3000

Series ITV101 ☐

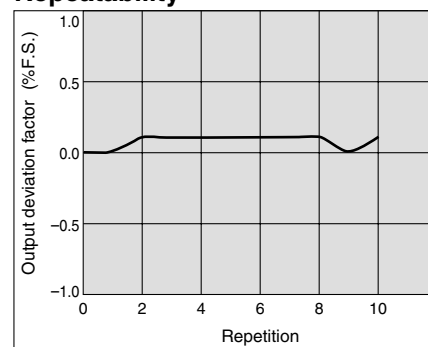
Linearity



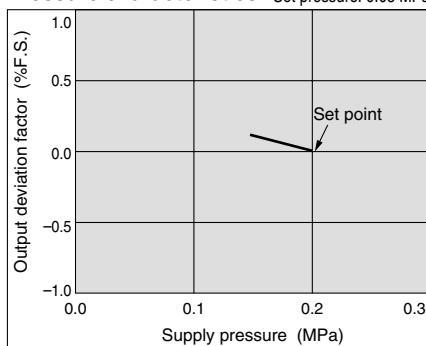
Hysteresis



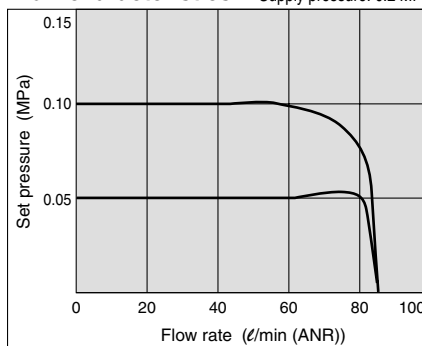
Repeatability



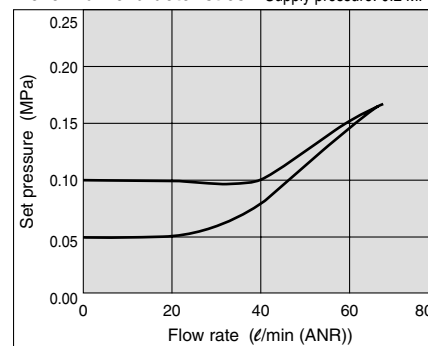
Pressure characteristics Set pressure: 0.05 MPa



Flow characteristics Supply pressure: 0.2 MPa

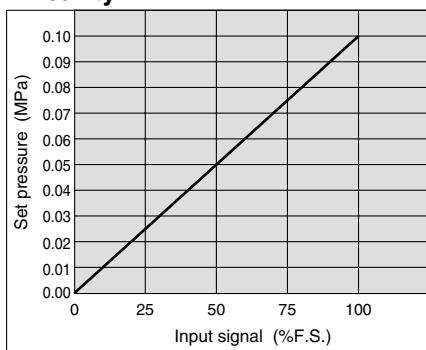


Relief flow characteristics Supply pressure: 0.2 MPa

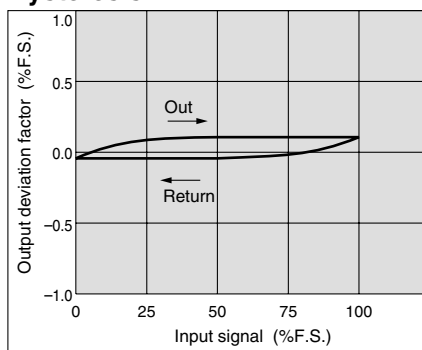


Series ITV201 ☐

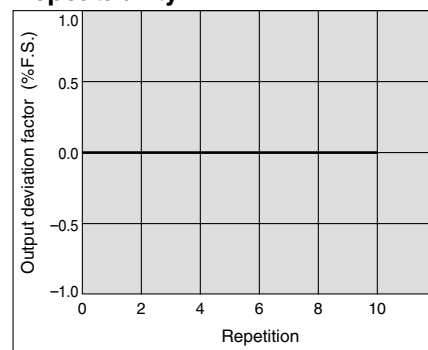
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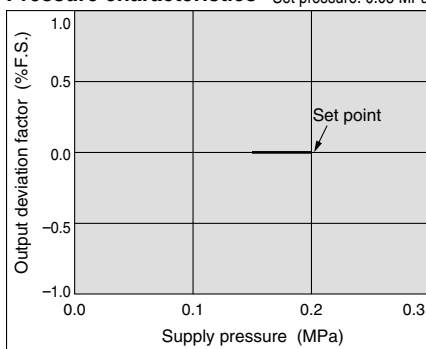
Hysteresis



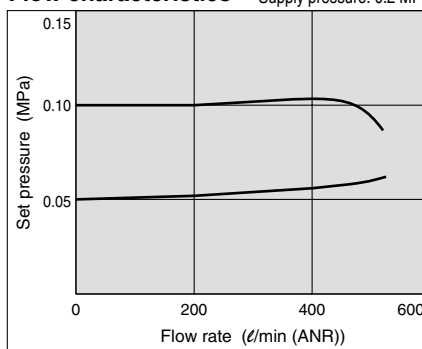
Repeatability



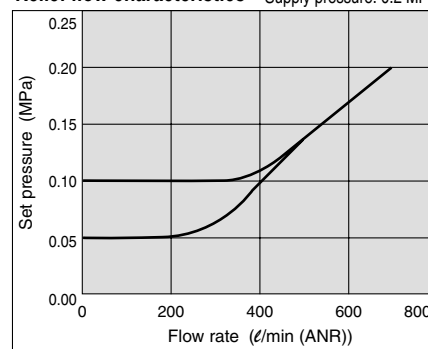
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Flow characteristics Supply pressure: 0.2 MPa

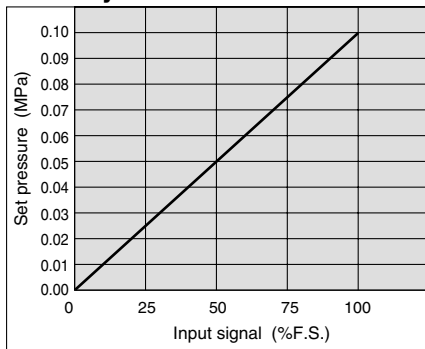


Relief flow characteristics Supply pressure: 0.2 MPa

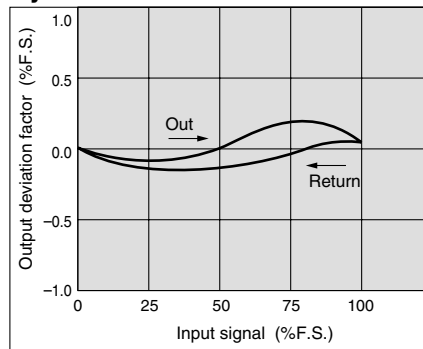


Series ITV301 ☐

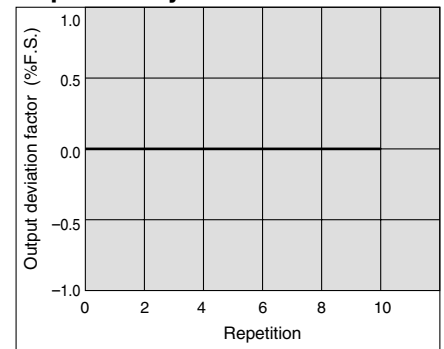
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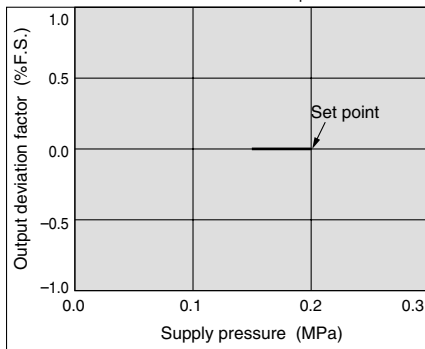
Hysteresis



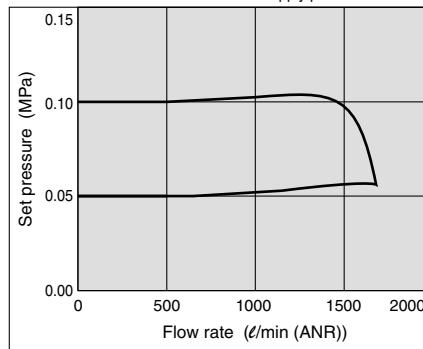
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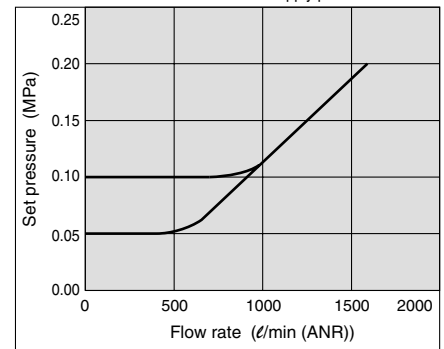
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Flow characteristics Supply pressure: 0.2 MPa



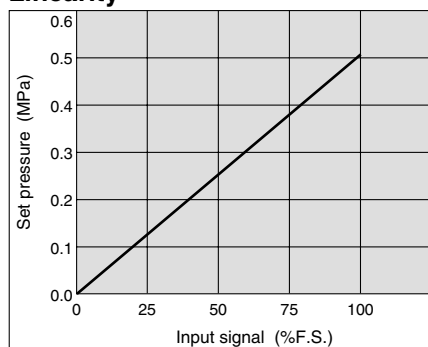
Relief flow characteristics Supply pressure: 0.2 MPa



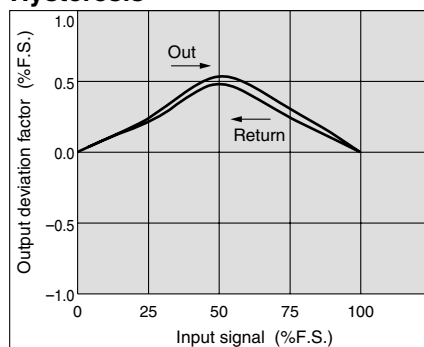
Series ITV1000/2000/3000

Series ITV103 ☐

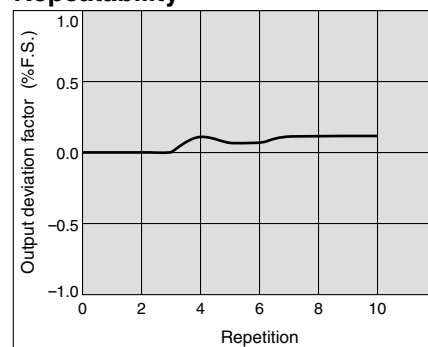
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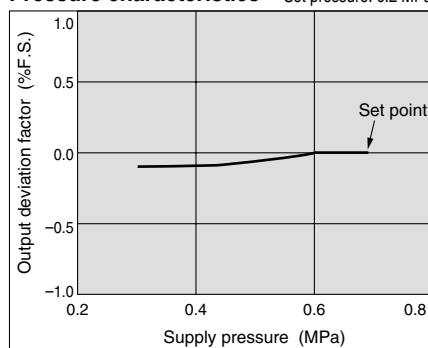
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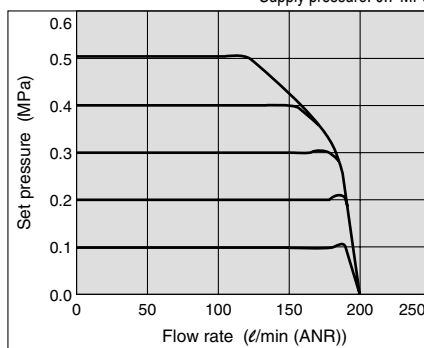
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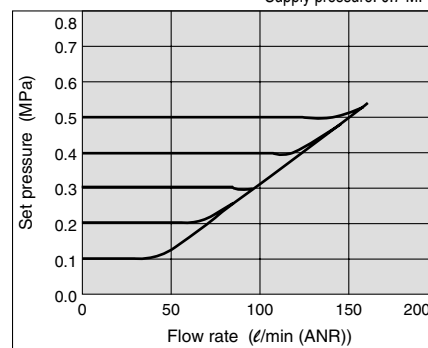
Pressure characteristics Set pressure: 0.2 MPa



Flow characteristics Supply pressure: 0.7 MPa

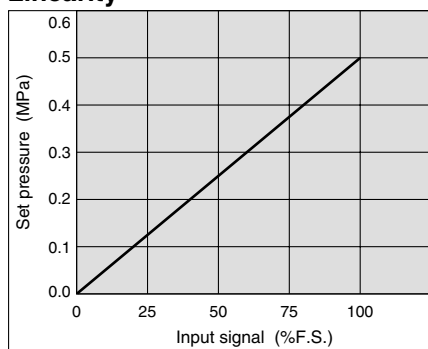


Relief flow characteristics Supply pressure: 0.7 MPa

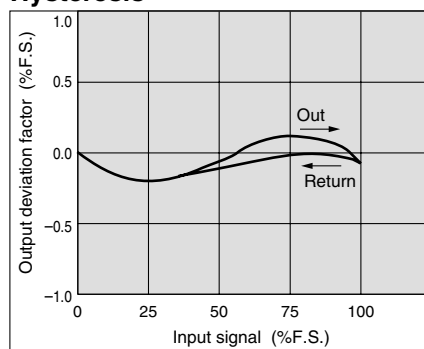


Series ITV203 ☐

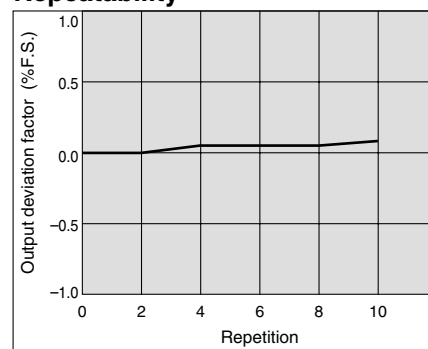
Linearity



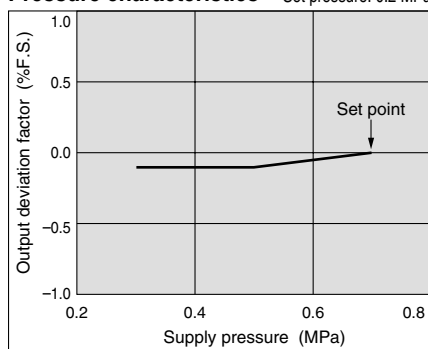
Hysteresis



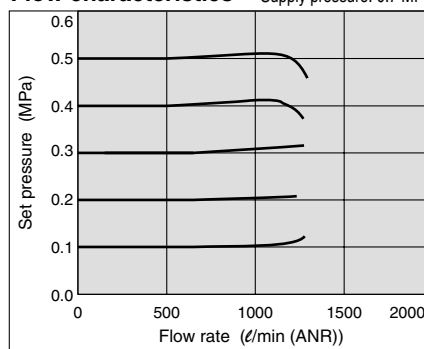
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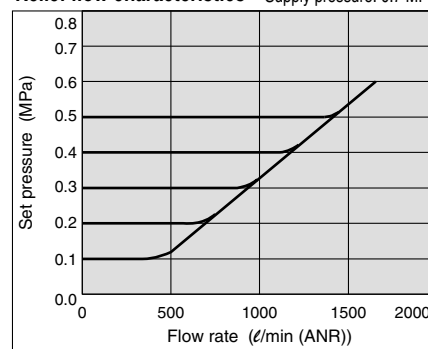
Pressure characteristics Set pressure: 0.2 MPa



Flow characteristics Supply pressure: 0.7 MPa

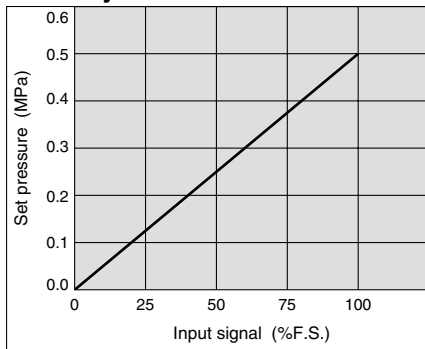


Relief flow characteristics Supply pressure: 0.7 MPa

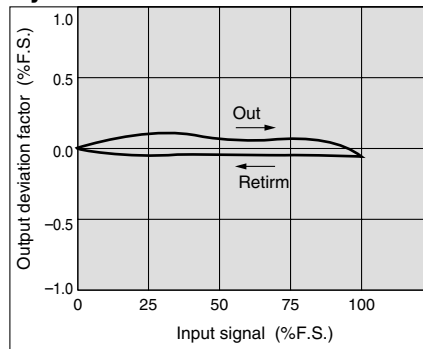


Series ITV303 ☐

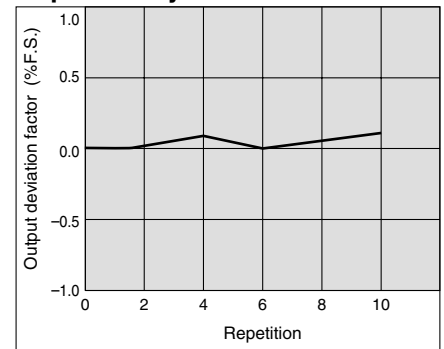
Linearity



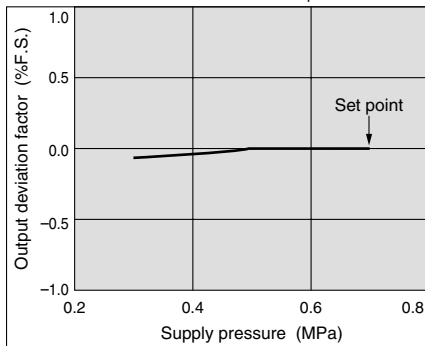
Hysteresis



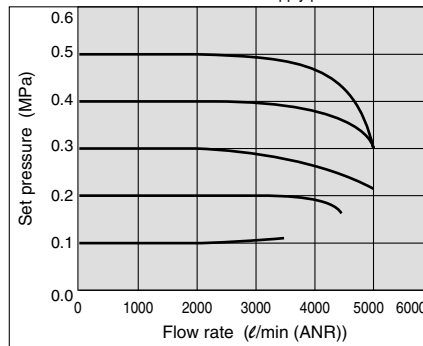
Repeatability



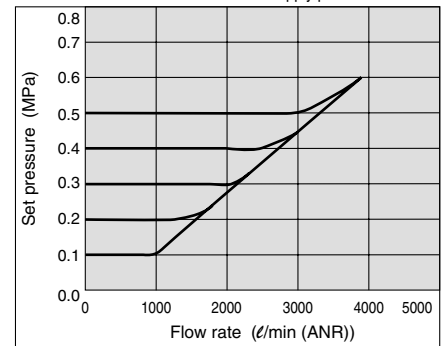
Pressure characteristics Set pressure: 0.2 MPa



Flow characteristics Supply pressure: 0.7 MPa



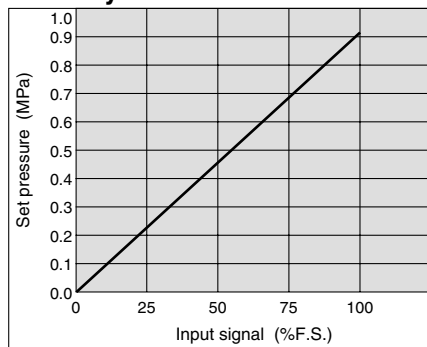
Relief flow characteristics Supply pressure: 0.7 MPa



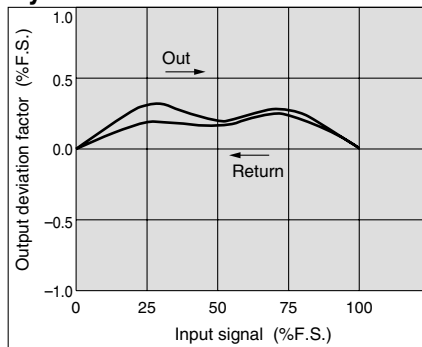
Series ITV1000/2000/3000

Series ITV105

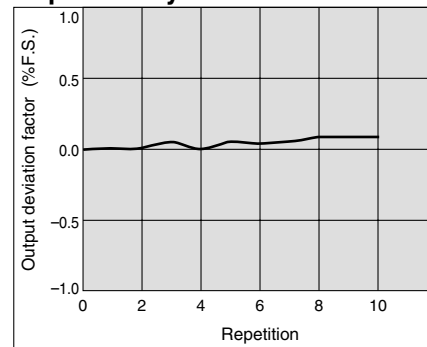
Linearity



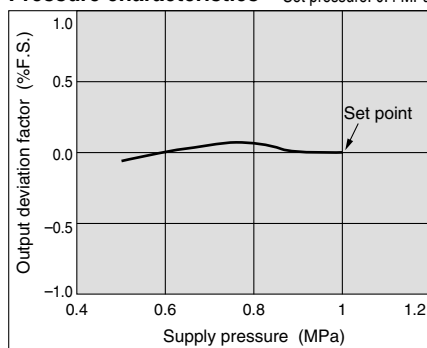
Hysteresis



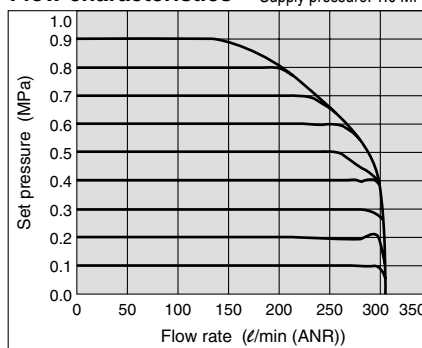
Repeatability



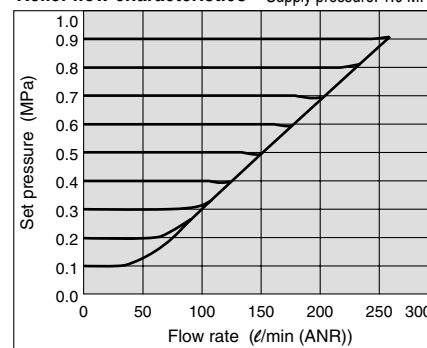
Pressure characteristics Set pressure: 0.4 MPa



Flow characteristics Supply pressure: 1.0 MPa

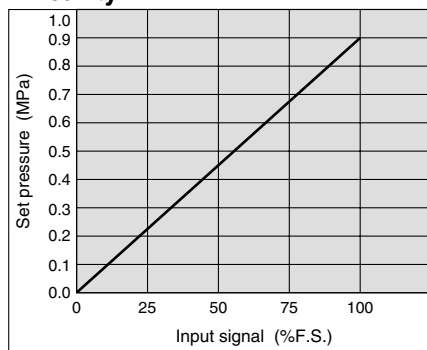


Relief flow characteristics Supply pressure: 1.0 MPa

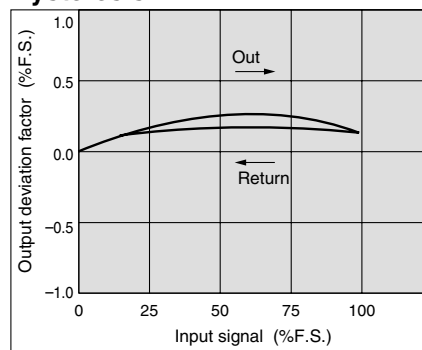


Series ITV205

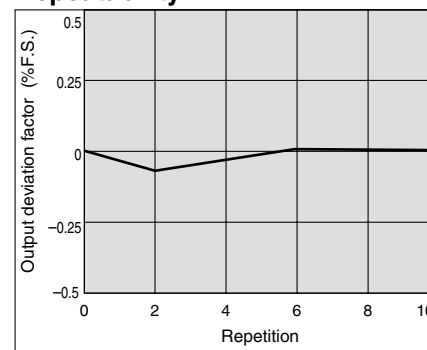
Linearity



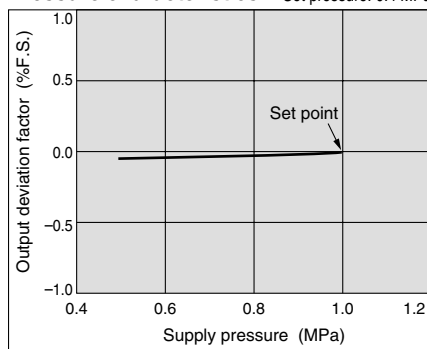
Hysteresis



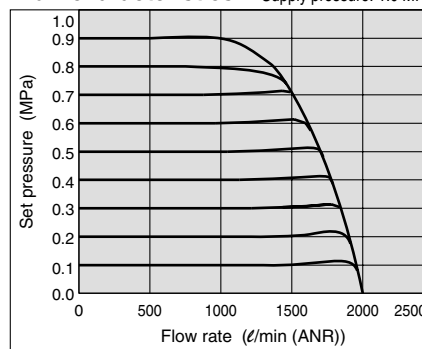
Repeatability



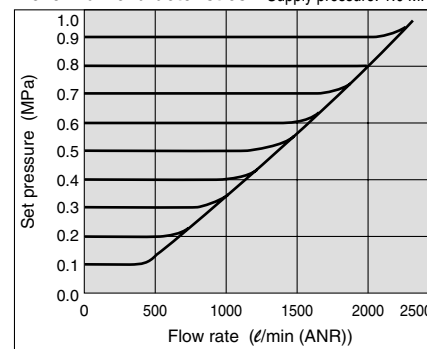
Pressure characteristics Set pressure: 0.4 MPa



Flow characteristics Supply pressure: 1.0 MPa

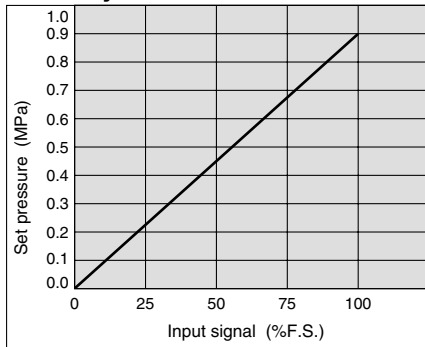


Relief flow characteristics Supply pressure: 1.0 MPa

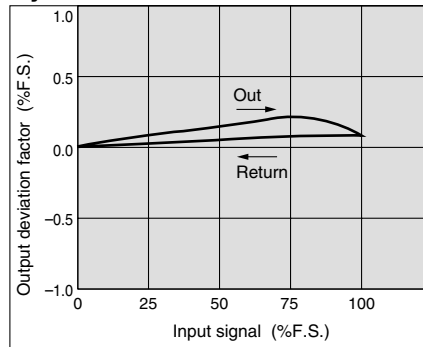


Series ITV305

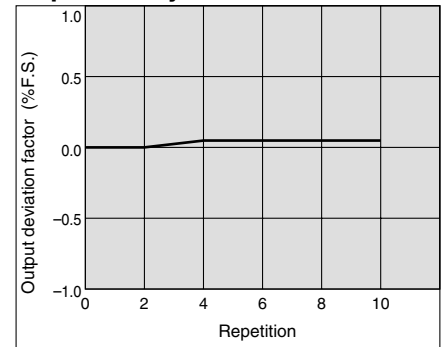
Linearity



Hysteresis

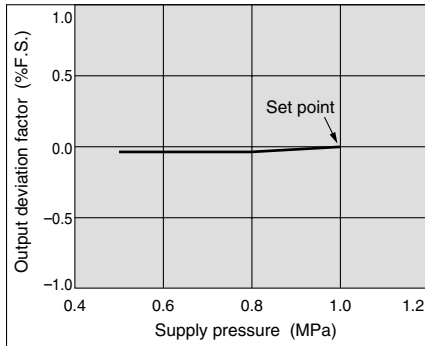


Repeatability



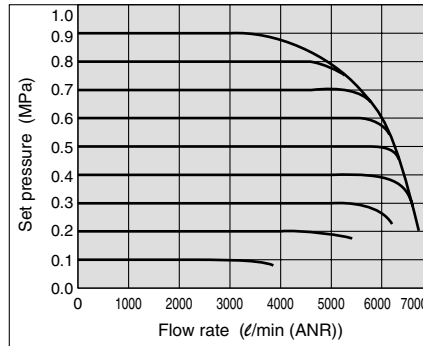
Pressure characteristics

Set pressure: 0.4 MPa



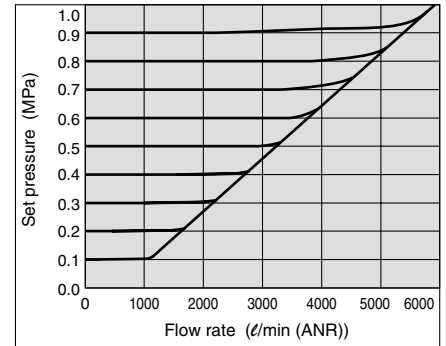
Flow characteristics

Supply pressure: 1.0 MPa



Relief flow characteristics

Supply pressure: 1.0 MPa



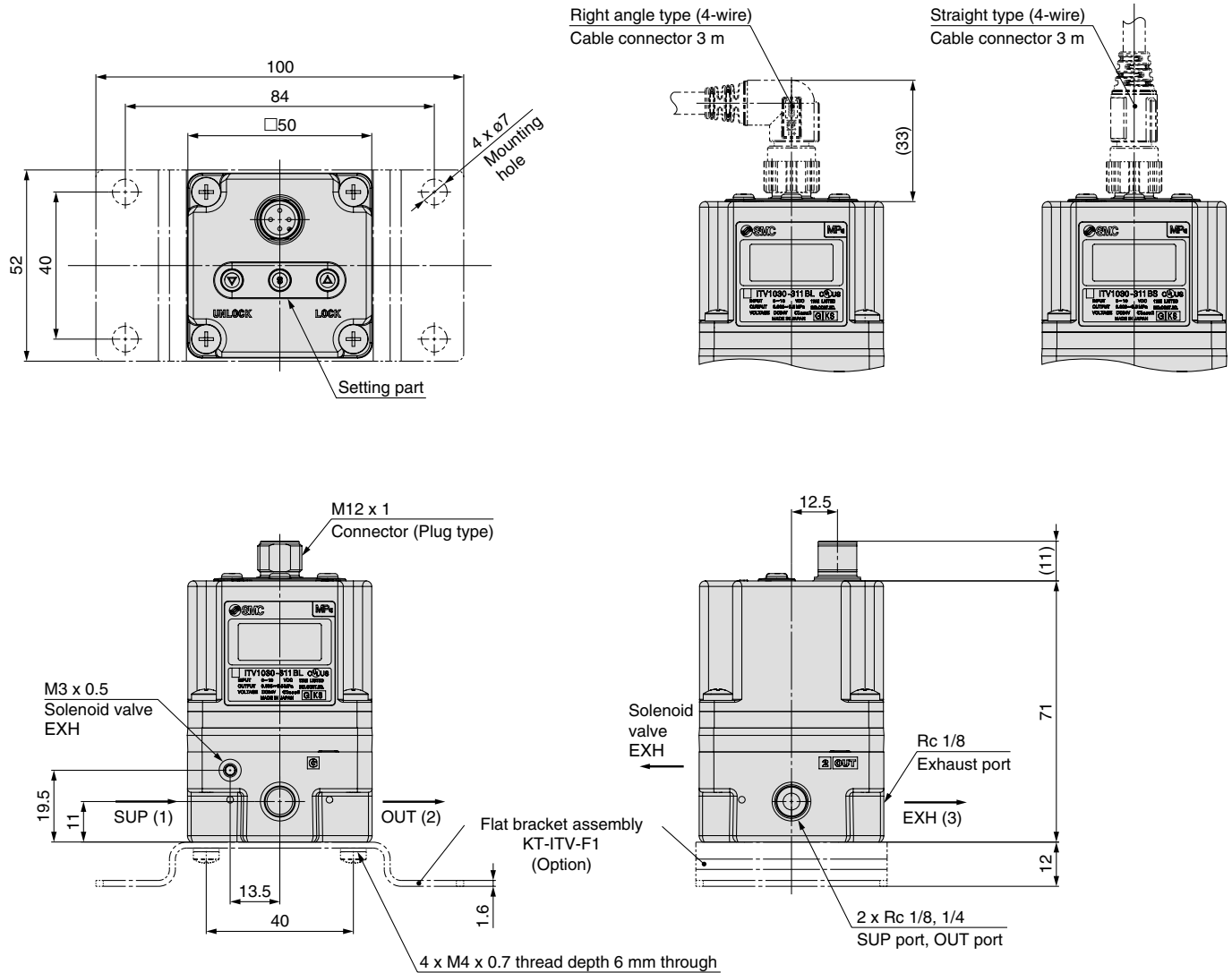
Series ITV1000/2000/3000

Dimensions

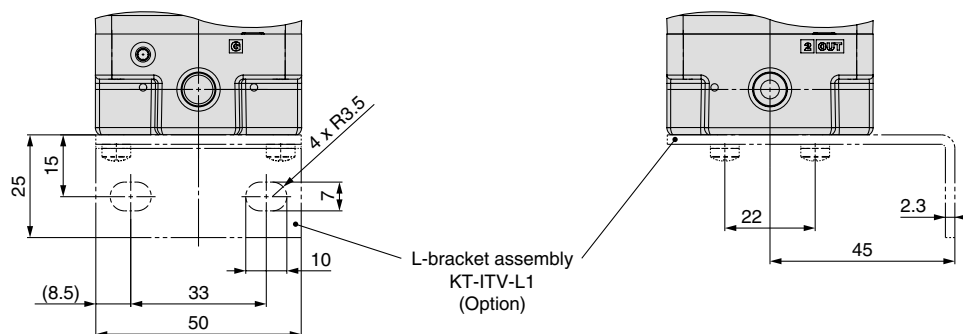
ITV10□□

Flat bracket

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

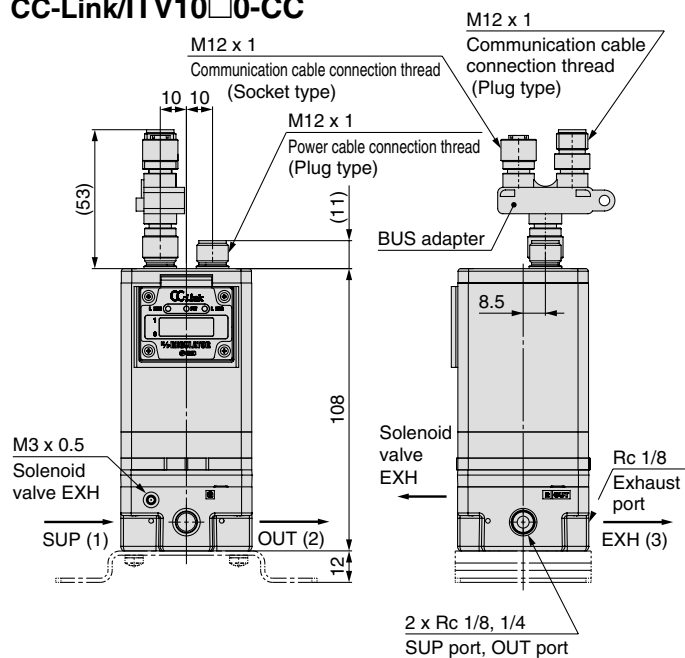


L-bracket

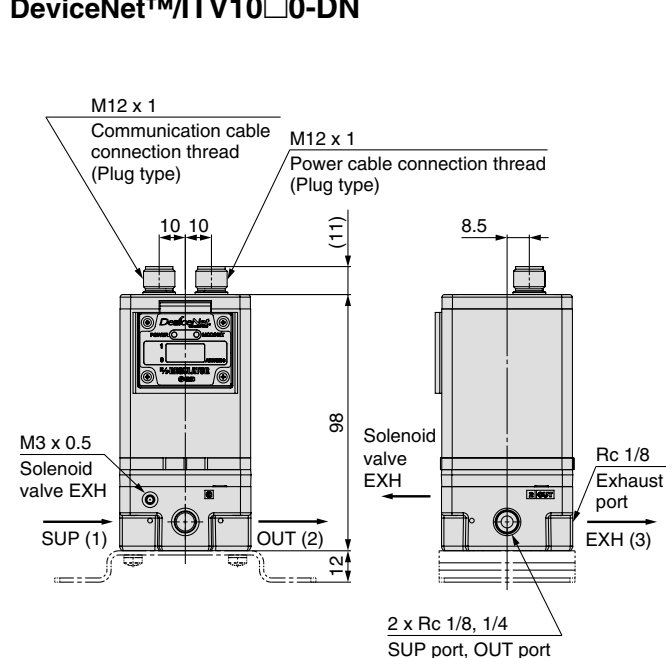


Dimensions (CC-Link, DeviceNet™, PROFIBUS DP and RS-232C)

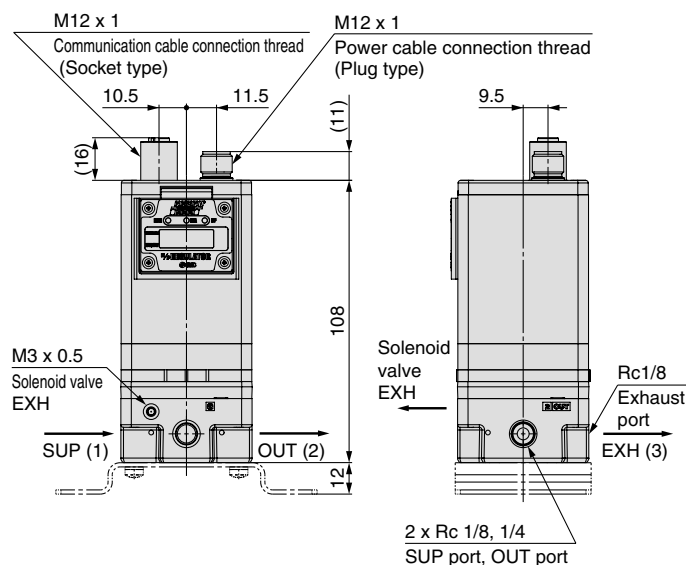
CC-Link/ITV10□0-CC



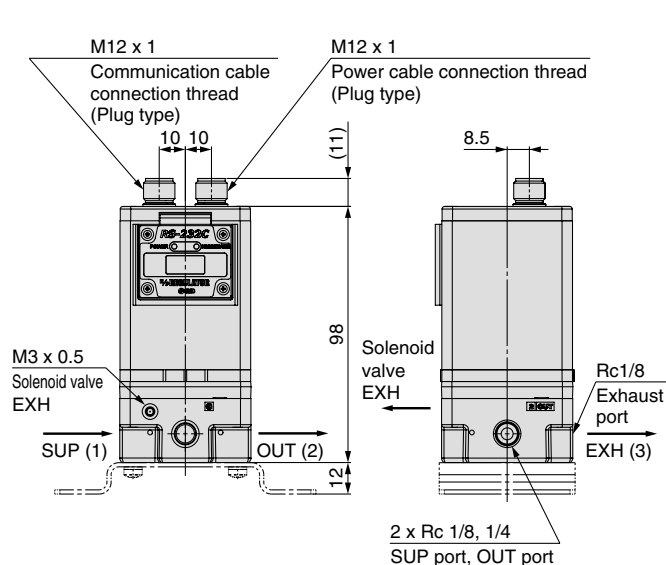
* Dimensions not shown are as on page 19.

DeviceNet™/ITV10□0-DN

* Dimensions not shown are as on page 19.

PROFIBUS DP/ITV10□0-PR

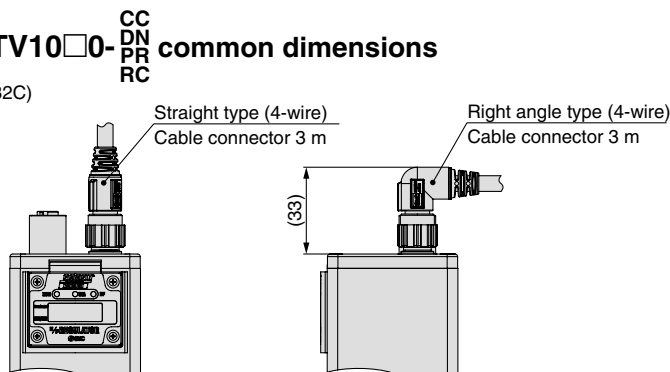
* Dimensions not shown are as on page 19.

RS-232C/ITV10□0-RC

* Dimensions not shown are as on page 19.

With power cable connector * ITV10□0-^{CC}_{DN}_{PR}_{RC} common dimensions

Note) Order communication cable (other than RS-232C) separately. (Refer to page 9.)



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

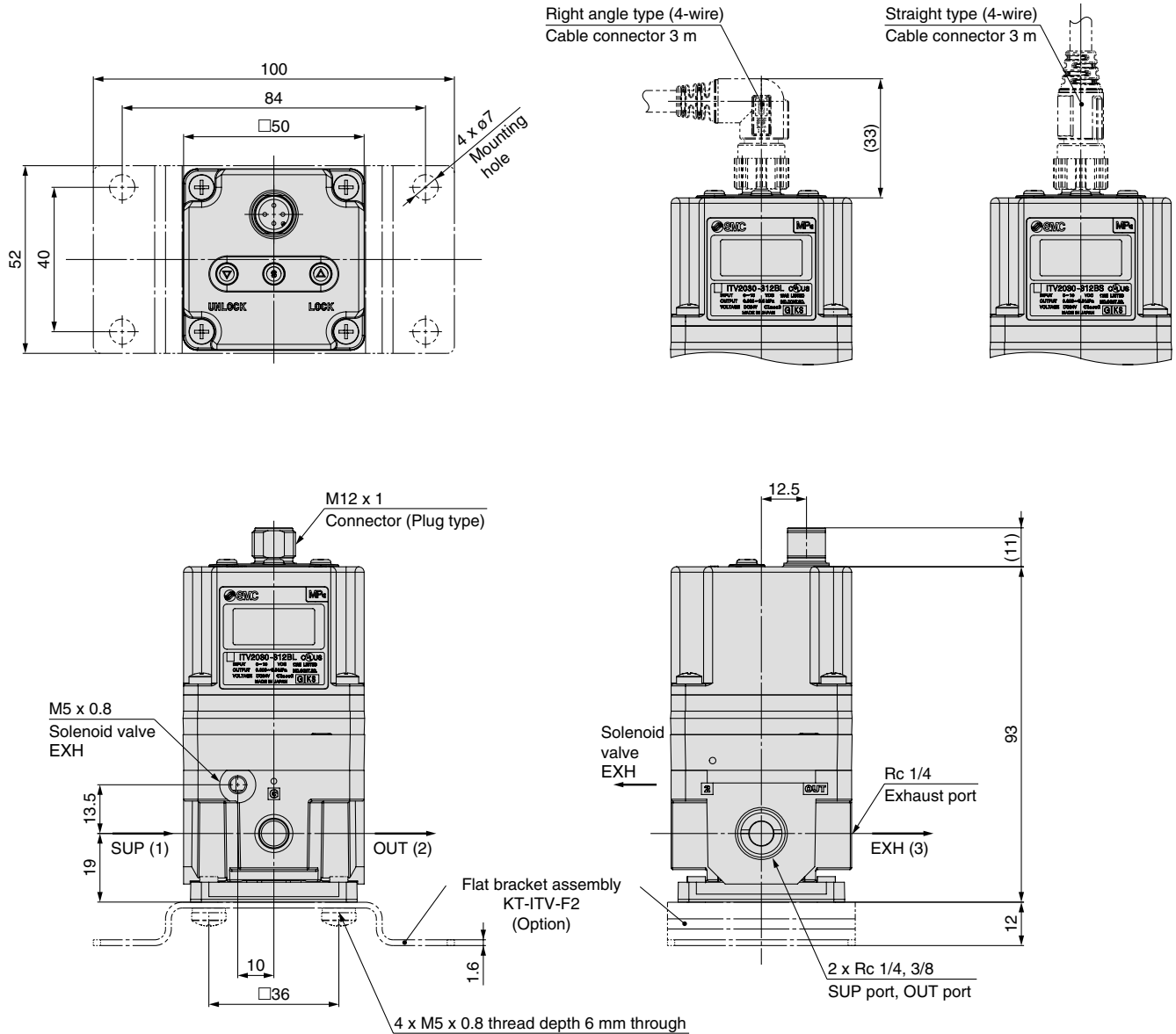
Series ITV1000/2000/3000

Dimensions

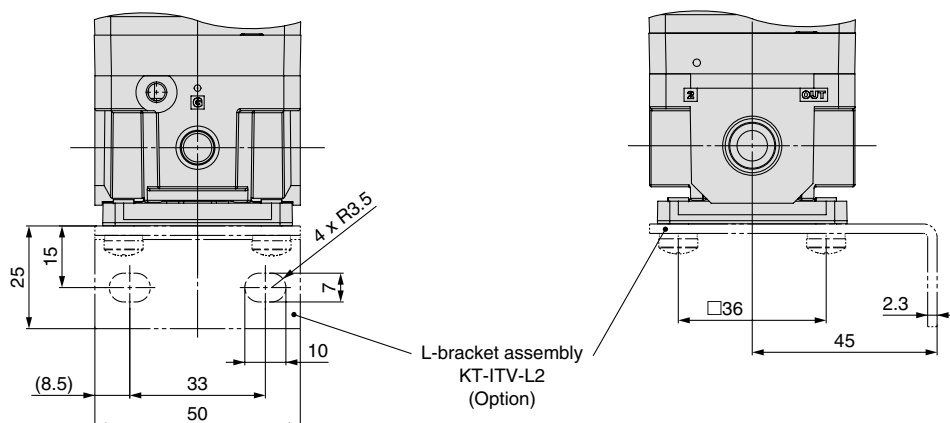
ITV20□□

Flat bracket

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

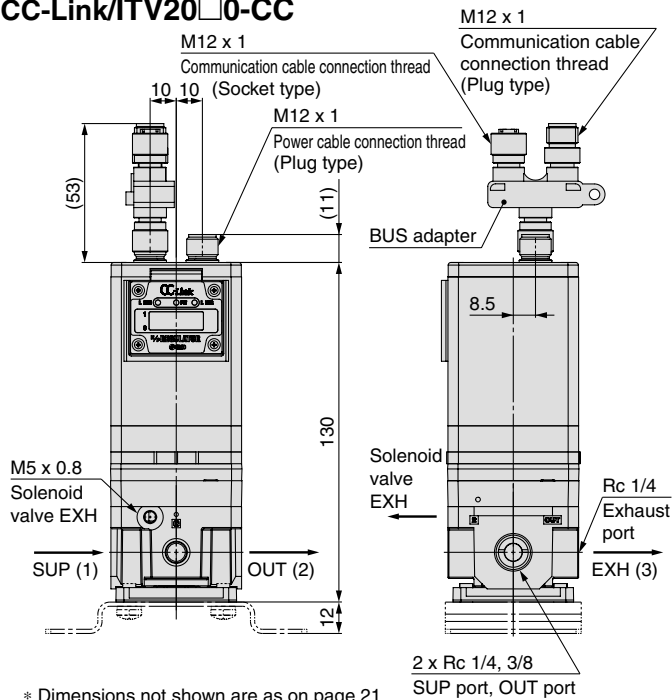


L-bracket



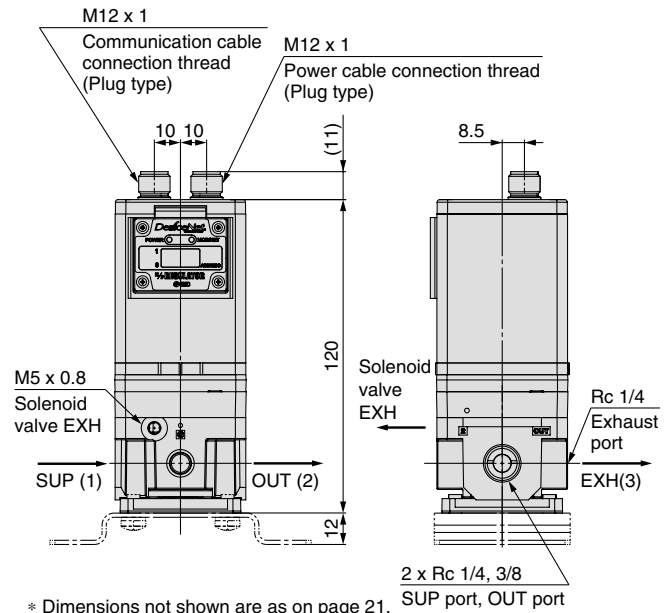
Dimensions (CC-Link, DeviceNet™, PROFIBUS DP and RS-232C)

CC-Link/ITV20□0-CC



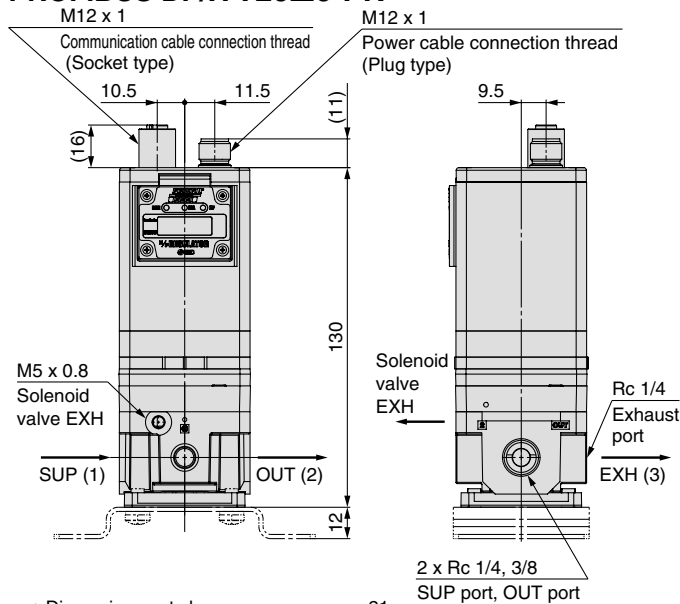
* Dimensions not shown are as on page 21.

DeviceNet™/ITV20□0-DN



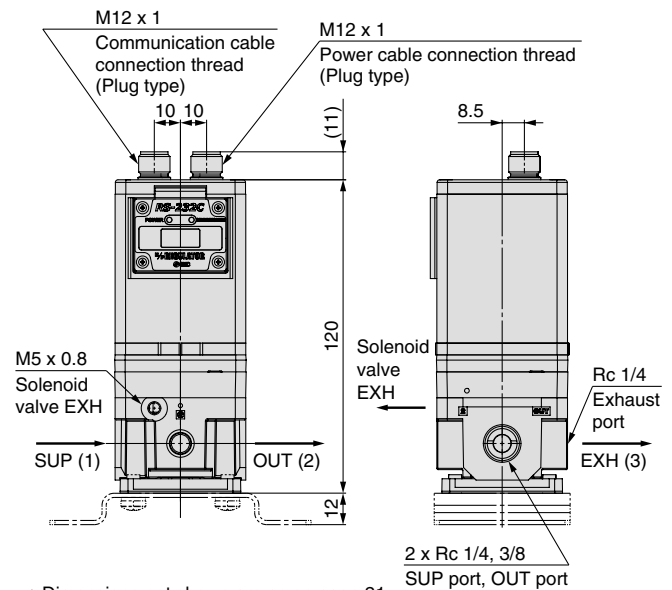
* Dimensions not shown are as on page 21.

PROFIBUS DP/ITV20□0-PR



* Dimensions not shown are as on page 21.

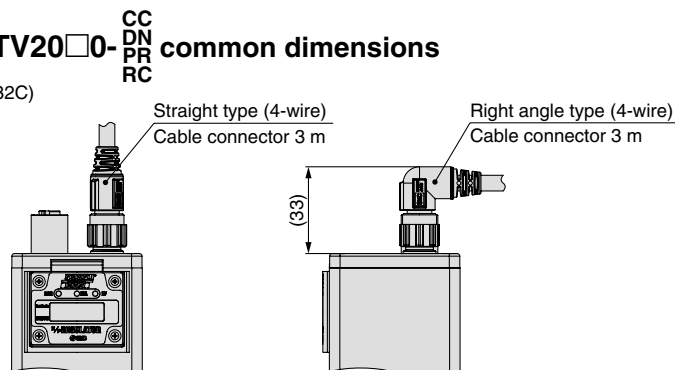
RS-232C/ITV20□0-RC



* Dimensions not shown are as on page 21.

With power cable connector * ITV20□0-CC, DN, PR, RC common dimensions

Note) Order communication cable (other than RS-232C) separately. (Refer to page 9.)



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

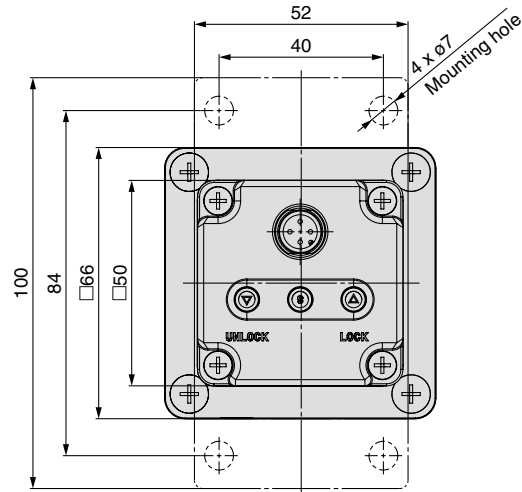
Series ITV1000/2000/3000

Dimensions

ITV30□□

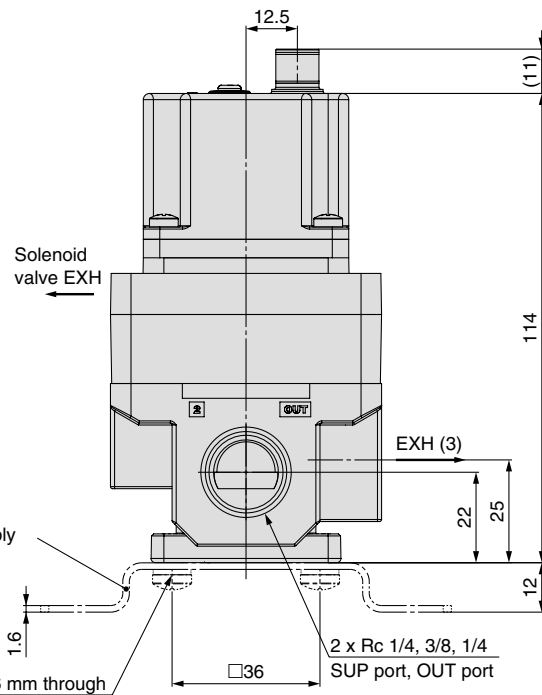
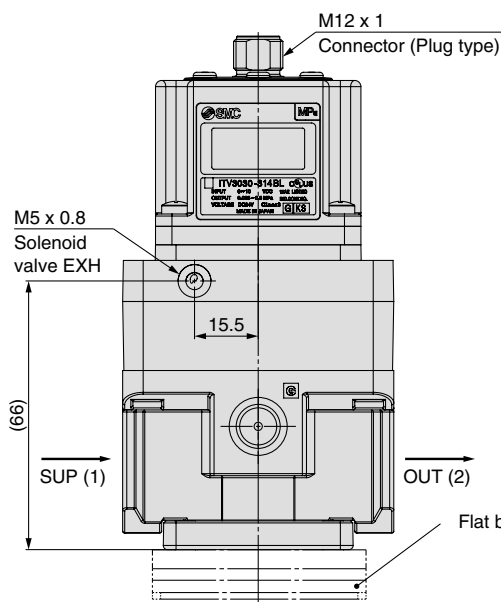
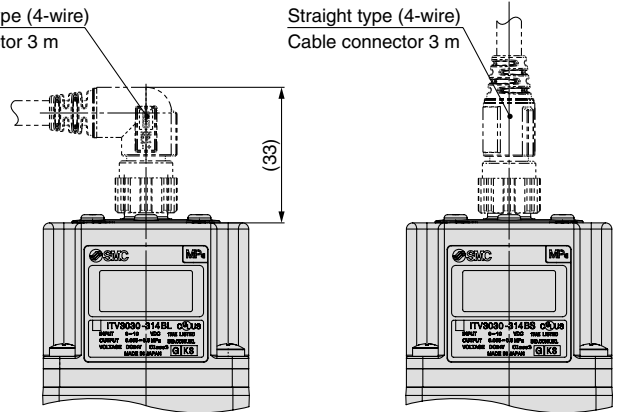
Flat bracket

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

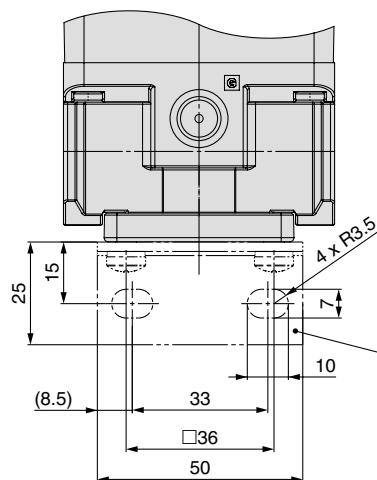


Right angle type (4-wire)
Cable connector 3 m

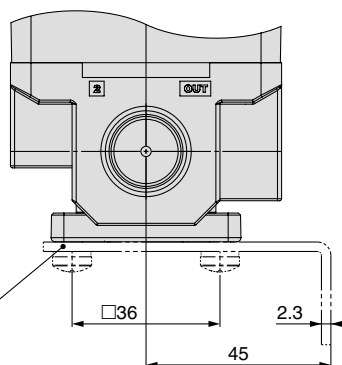
Straight type (4-wire)
Cable connector 3 m



L-bracket

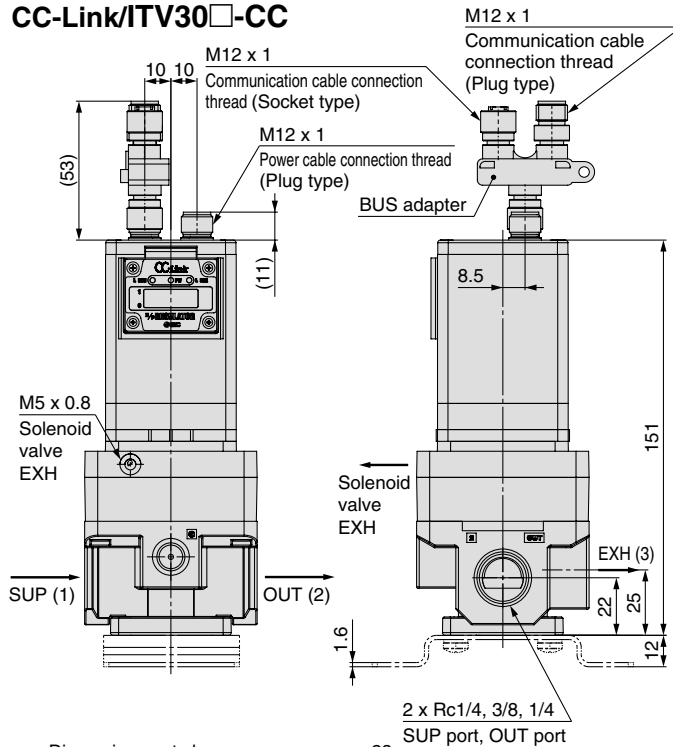


L-bracket assembly
KT-ITV-L2
(Option)



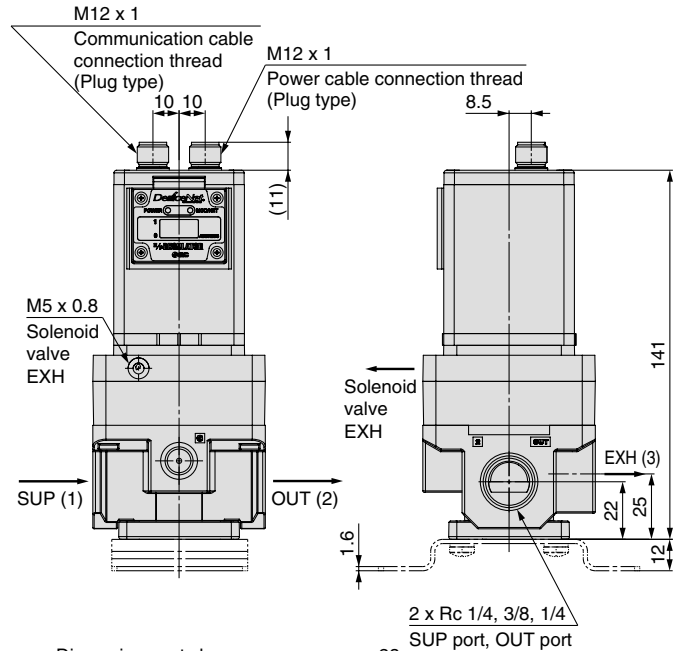
Dimensions (CC-Link, DeviceNet™, PROFIBUS DP and RS-232C)

CC-Link/ITV30□-CC



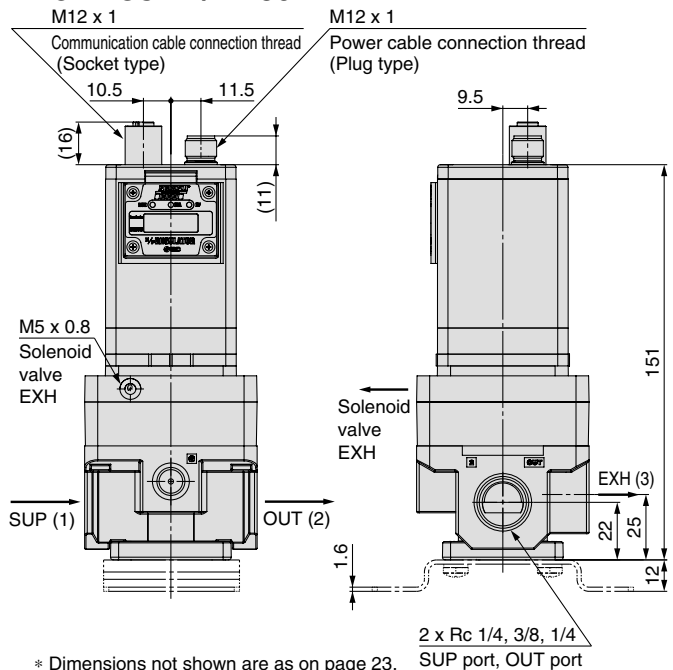
* Dimensions not shown are as on page 23.

DeviceNet™/ITV30□-DN



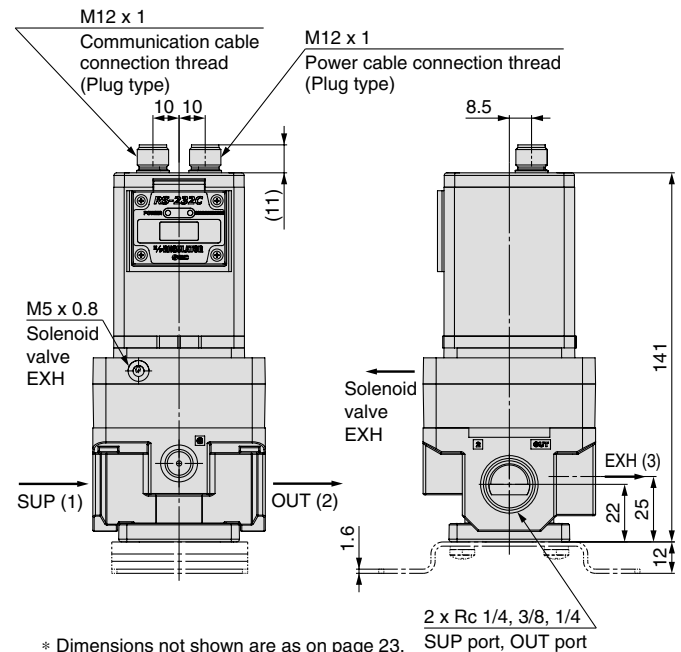
* Dimensions not shown are as on page 23.

PROFIBUS DP/ITV30□-PR



* Dimensions not shown are as on page 23.

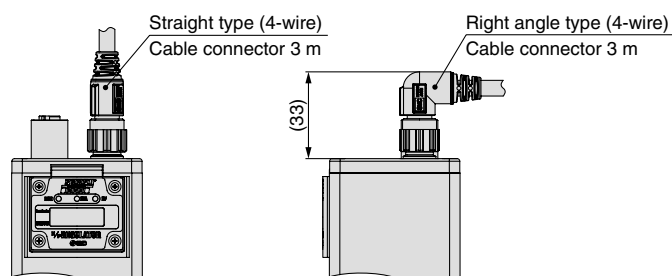
RS-232C/ITV30□-RC



* Dimensions not shown are as on page 23.

With power cable connector

* ITV30□-
CC
DN
PR
RC
common dimensions



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

Series ITV1000/2000/3000 Made to Order Specifications 1

Please contact SMC for detailed dimensions, specifications and lead times.



1 16 Points Preset Input Type

Able to control 16-point-pressure by 4 bit switching input

ITV10 ☐ 0 - 4 ☐ ☐ ☐ ☐ ☐ ☐ - X81

ITV20 ☐ 0 - 4 ☐ ☐ ☐ ☐ ☐ ☐ - X81

ITV30 ☐ 0 - 4 ☐ ☐ ☐ ☐ ☐ ☐ - X81

Note 1) ☐ in part number is the same model no. for the standard products.

Note 2) Monitor output is switch output type only. This cannot be selected for types without a monitor output or with analog output.

Note 3) Values can be adjusted starting from the minimum output pressure display units.

MPa	kgf/cm ²	bar	psi	kPa
0.01	0.01	0.01	0.1	1

* 130 psi type: 1 psi

16 points preset type

Symbol	CE-compliant
X81	Not compliant
X156	Compliant

2 Digital Input Type

Parallel input type with digital 10 bit.

ITV10 ☐ 0 - 4 0 ☐ ☐ ☐ ☐ ☐ ☐ S N ☐ - X93

ITV20 ☐ 0 - 4 0 ☐ ☐ ☐ ☐ ☐ ☐ S N ☐ - X93

ITV30 ☐ 0 - 4 0 ☐ ☐ ☐ ☐ ☐ ☐ S N ☐ - X93

Digital input type

Symbol	CE-compliant
X93	Not compliant
X157	Compliant

Note 1) ☐ in part number is the same model no. for the standard products.

Note 2) Right angle type cable connectors cannot be selected.

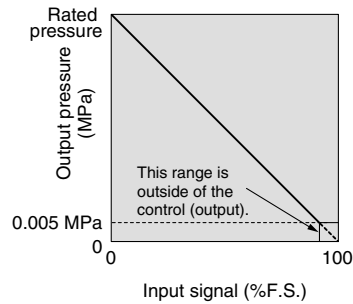
3 Reverse Type

In compliance with input, inverse proportional pressure is displayed.

ITV10 ☐ ☐ - ☐ ☐ ☐ ☐ ☐ ☐ ☐ - X102

ITV20 ☐ ☐ - ☐ ☐ ☐ ☐ ☐ ☐ ☐ - X102

ITV30 ☐ ☐ - ☐ ☐ ☐ ☐ ☐ ☐ ☐ - X102



Reverse type

Symbol	CE-compliant
X102	Not compliant
X321	Compliant

Input/output characteristics chart

Note 1) ☐ in part number is the same model no. for the standard products.

Note 2) Except for preset input type.

4 High Pressure Type (SUP 1.2 MPa, OUT 1.0 MPa)

ITV10 5 ☐ - ☐ ☐ ☐ ☐ ☐ ☐ ☐ - X224

ITV20 5 ☐ - ☐ ☐ ☐ ☐ ☐ ☐ ☐ - X224

ITV30 5 ☐ - ☐ ☐ ☐ ☐ ☐ ☐ ☐ - X224

High pressure type (SUP 1.2 MPa, OUT 1.0 MPa)

Symbol	CE-compliant
X224	Not compliant
X322	Compliant

5 Set Pressure Range 1 to 100 kPa

ITV10 1 ☐ - ☐ ☐ ☐ ☐ ☐ ☐ ☐ - X25

ITV20 1 ☐ - ☐ ☐ ☐ ☐ ☐ ☐ ☐ - X25

Set pressure range 1 to 100 kPa

Symbol	CE-compliant
X25	Not compliant
X323	Compliant

Series ITV1000/2000/3000

Made to Order Specifications 2

Please contact SMC for detailed dimensions, specifications and lead times.



6 High-Speed Response Time Type

Pressure response with no load is approx. 0.1 sec.

ITV 2010-012S-X88

- Model**

1	1000 type
2	2000 type
- Pressure range**

1	0.1 MPa
3	0.5 MPa
5	0.9 MPa
- Power supply voltage**

0	24 VDC
1	12 to 15 VDC
- Input signal**

0	Current type 4 to 20 mA DC (Sink type)
1	Current type 0 to 20 mA DC (Sink type)
2	Voltage type 0 to 5 VDC
3	Voltage type 0 to 10 VDC
- Monitor output**

1	Analog output 1 to 5 VDC
---	--------------------------
- Thread type**

Nil	Rc
N	NPT
T	NPTF
F	G
- Port size**

1	1/8 (1000 type)
2	1/4 (1000, 2000 type)
3	3/8 (2000 type)
- Pressure display unit**

Nil	MPa
2*	kgf/cm ²
3	bar
4*	psi
5	kPa

* Under Japan's new Measurement Act, this is only for overseas sales (SI units are to be used inside Japan).
- Cable connector type**

S	Straight type 3 m
L	Right angle type 3 m
N	Without cable connector
- Bracket**

Nil	Without bracket
B	Flat bracket
C	L-bracket
- High-speed response time specifications**

Symbol	CE-compliant
X88	Not compliant
X154	Compliant

7 Manifold Specifications (Except Series ITV3000)

2 through 8 station manifold.

How to Order Manifolds

IITV20-02-5

- ITV1000, 2000**
- Stations**

2	2 stations
...	...
8	8 stations
- OUT port size**

02	1/4
03	3/8
- Connection thread type**

Nil	PT
N	NPT
F	PF

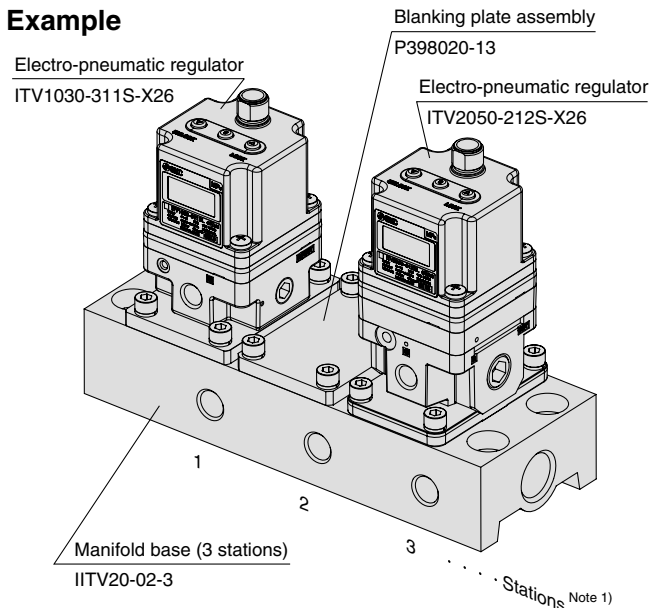
IITV20-02-31 set (3 station manifold base part no.)
 *ITV1030-311S-X261 set (Electro-pneumatic regulator part no.) Note 2)
 *P398020-131 set (Blanking plate assembly part no.)
 *ITV2050-212S-X261 set (Electro-pneumatic regulator part no.) Note 2)
 The * is the symbol for mounting. Add the * symbol at the beginning of part numbers for electro-pneumatic regulators, etc. to be mounted on the base.

Note) Refer to the table below for possible mixed combination.

Model	ITV101	ITV103	ITV105	ITV201	ITV203	ITV205
ITV101	●	—	—	●	—	—
ITV103	—	●	—	—	●	—
ITV105	—	—	●	—	—	●
ITV201	●	—	—	●	—	—
ITV203	—	●	—	—	●	—
ITV205	—	—	●	—	—	●

How to Order Manifold Assemblies

Example



- Note 1) Electro-pneumatic regulators are counted starting from station 1 on the left side with the OUT ports in front.
- Note 2) The port size for mounted electro-pneumatic regulators is Rc 1/8 (ITV1000), Rc 1/4 (ITV2000) only.
- Note 3) When there is a large number of stations, use piping with the largest possible inside diameter for the supply side, such as steel piping.
- Note 4) The use of the straight type cable connector is recommended. To mount right angle type, be certain to check that no possible interference occurs.
- Note 5) When mounting a blanking plate and the regulator with different pressure set, please inform SMC of the order of a manifold station beside a purchase order.

