Electro-Pneumatic Regulator/Electronic Vacuum Regulator

Series ITV



Series ITV1000/2000/3000

Dimensions

ITV20

Flat bracket

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



L-bracket





SMC

Series ITV1000/2000/3000 (C C WUS ROHS Made to Order Specifications 3

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

5 Manifold Specifications (Except Series ITV3000)

2 through 8 station manifold.

How to Order Manifolds



How to Order for Manifold Mounted

ITV 1 0	1	- X26
	2	- X26

Note 1) \Box in part number is the same model no. for the standard products. Note 2) For communication models, consult SMC for availability.

Note 3) The thread type is Rc only.

Note 4) For Series ITV1000, the port size is 1/8 only.

Note 5) For Series ITV2000, the port size is 1/4 only.

Note 6) The bracket accessory can not be selected. Note 7) Not applicable to Series ITV3000





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

Model	ITV101	ITV103	ITV105	ITV201	ITV203	ITV205
ITV101	•	—	_	•	_	-
ITV103	—	•	•	—	•	•
ITV105	_	•	•	_	•	•
ITV201	•	—	_	•	_	-
ITV203	—	•	•	—	•	•
ITV205	_	•	•	_	•	•

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.

Series ITV1000/2000/3000 Made to Order Specifications 5 Please contact SMC for detailed dimensions, specifications, and lead times.

7 With Alarm Output

Alarm is output if the set pressure is not reached or maintained for 5 seconds or more Application examples: Pressure management for thrust control, etc.



withinfull supply pressure		Set pressure +0.1 MPa	VLA	
Maximum supply pressure		1.0 MPa (Pressure range 0.1 MPa type: 0.2 MPa)		
Proof pressure	(Supply side)	1.5 MPa (Pressure range 0.1 MPa type: 0.3 MPa)	VY1	
	(Output side)	1 MPa (Pressure range 0.1 MPa type: 0.2 MPa)		
Set pressure range		1: 0.005 to 0.1 MPa, 3: 0.005 to 0.5 MPa, 5: 0.005 to 0.9 MPa	VBA	
Power supply voltage		0: 24 VDC ±10%, 1: 12 to 15 VDC	VBAT	
Current consumption		0.12 A or less (24 VDC ±10% type)		
		0.18 A or less (12 to 15 VDC type)	AP100	
Input signal		0: 4 to 20 mA, 1: 0 to 20 mA, 2: 0 to 5 VDC, 3: 0 to 10 VDC		
Input impedance		Voltage type: Approx. 6.5 k Ω , Current type: 250 Ω or less		
Output signal		Alarm output (NPN/PNP)		
Linearity		±1.0% 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. ±1 digit or less		
	Minimum unit	MPa: 0.001, kgf/cm²: 0.01, bar: 0.01, psi: 0.1, kPa: 1		
Ambient and fluid temperature		0 to 50°C (No condensation)		
Enclosure		IP65		
Weight		ITV1000: Approx, 250 g, ITV2000: Approx, 350 g, ITV3000: Approx, 645 g (without brackets)		

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