



Automation - Controls - Process

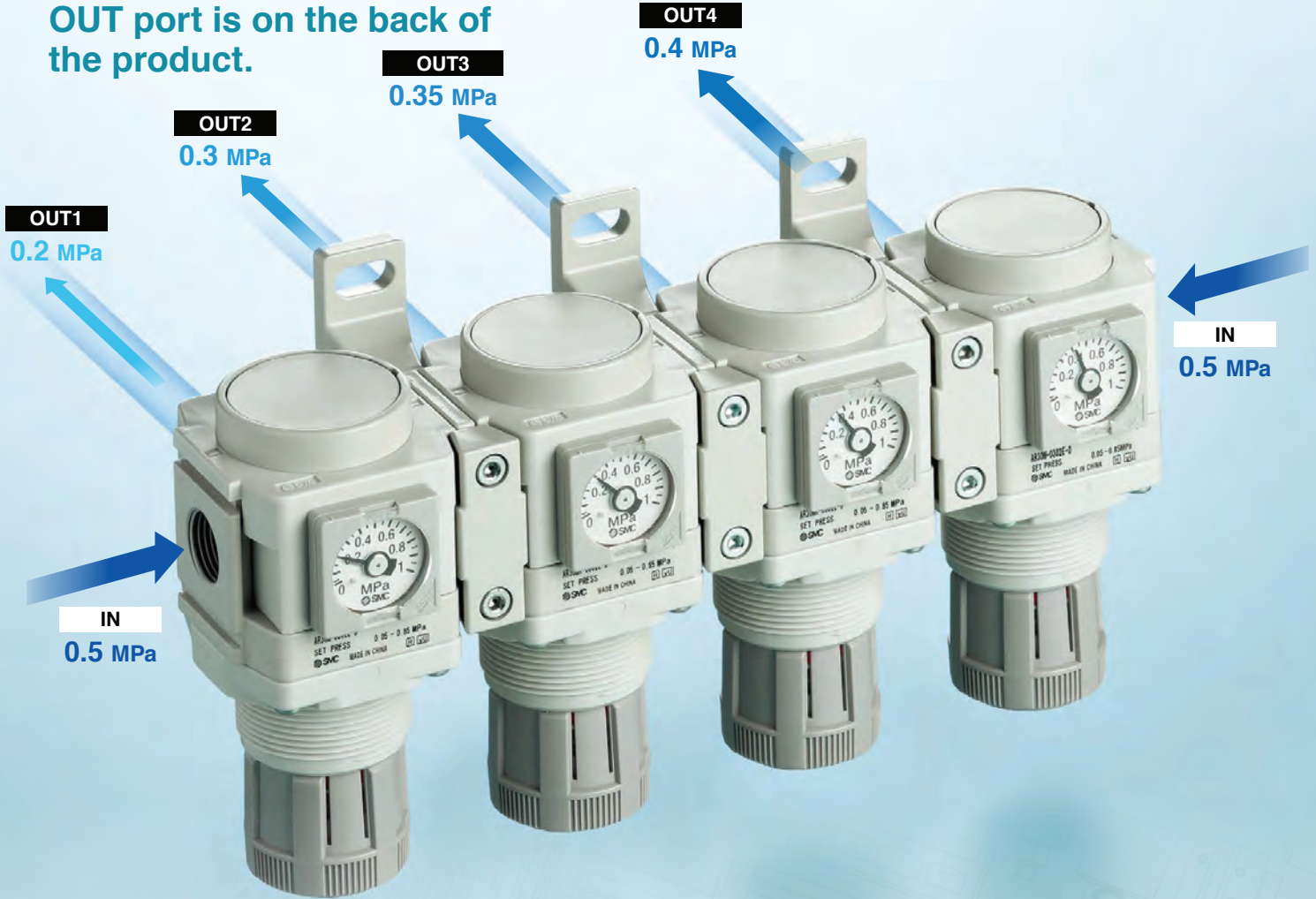
# Common Supply Regulator Modular Type

New

RoHS

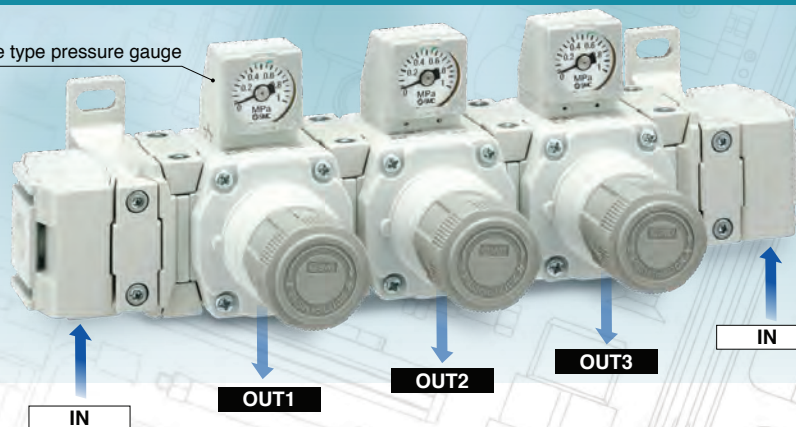
**Supply different pressure for multiple applications**

OUT port is on the back of the product.



**New** A right angle square type pressure gauge has been added.

Right angle square type pressure gauge



## AR□M(K)-D Series

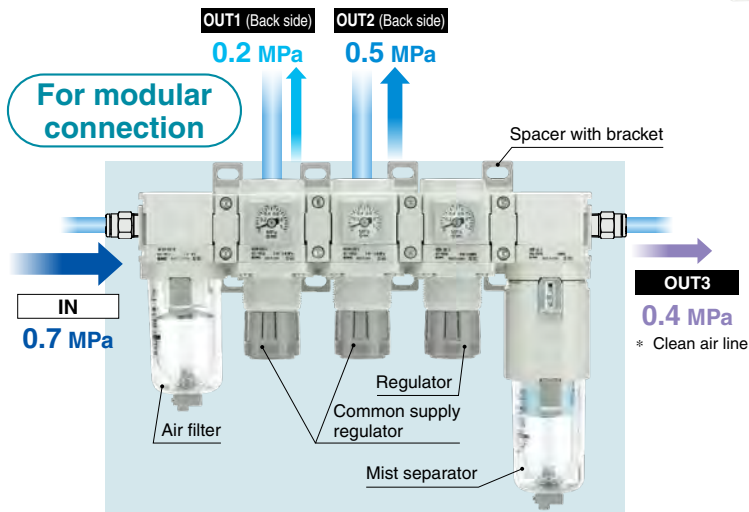
[www.smcusa.com](http://www.smcusa.com)

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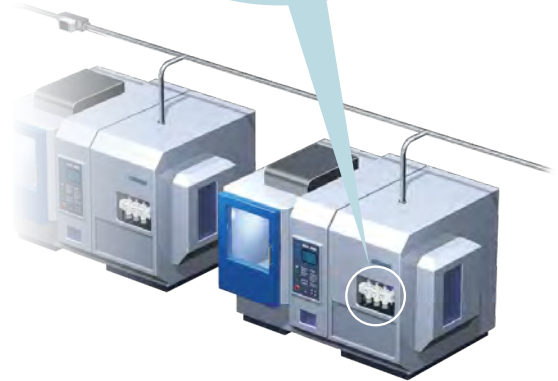
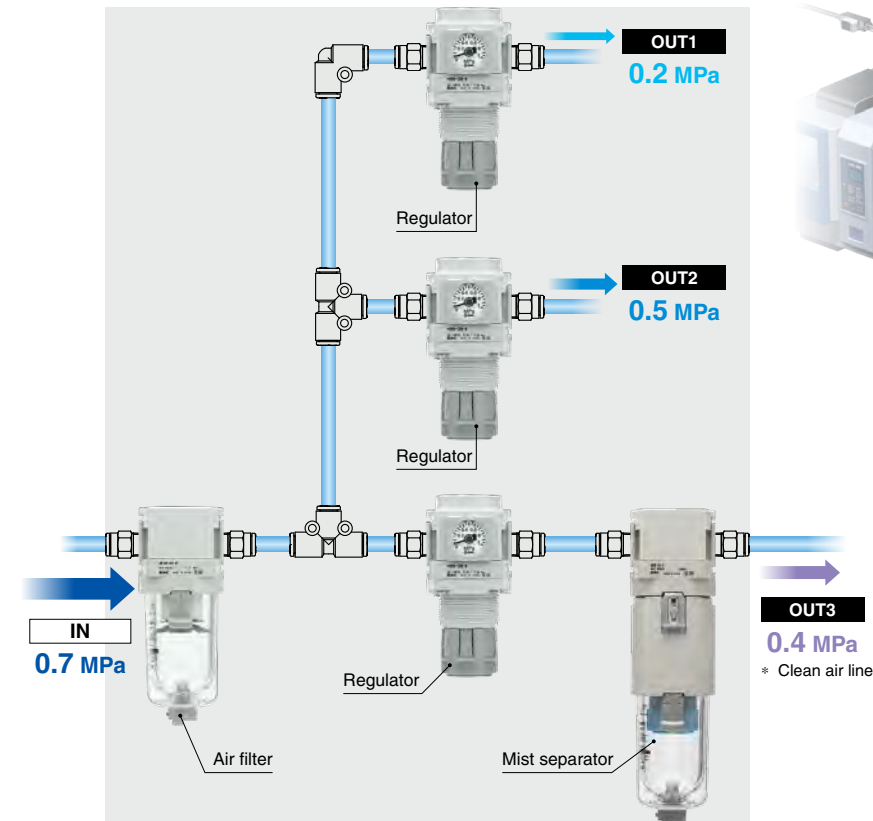
NB40-72A<sup>®</sup>

## Reduced piping labor and space-saving design

- Can be connected as a module with F.R.L. combination (AC-D series). One F.R.L. unit can then control pressure for multiple different air lines.
- Complicated tube arrangement and multiple fittings are no longer required.

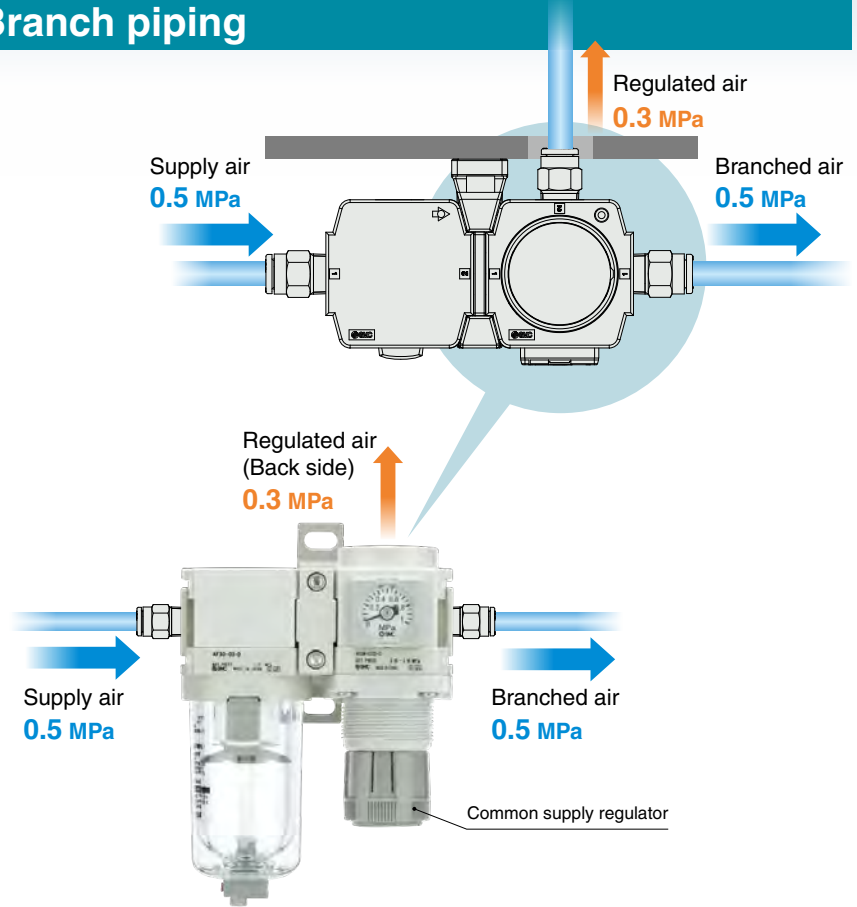


## For tube piping





## Branch piping

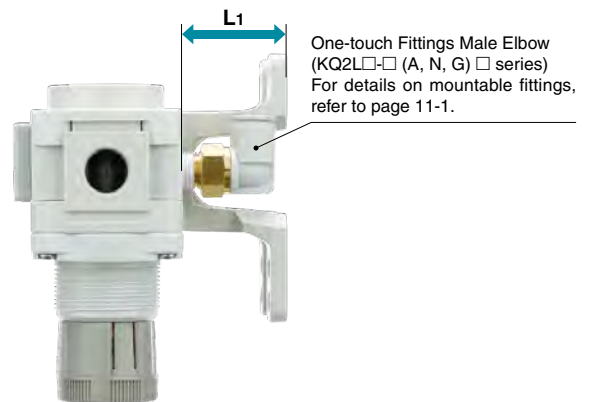


## A long type spacer with bracket has been added.

The bracket allows for the use of a male elbow One-touch fitting (KQ2L□-□(A, N, G)□) on the OUT port. Air can be released from the vertical direction.



Spacer with bracket	L1		
	20	30	40
<b>New</b> Long type	34	38.5	49.5
Standard type	9	14.5	14.5



## Selection of pressure gauges



(Right angle)  
Square embedded type  
pressure gauge



Round type pressure  
gauge



Digital pressure switch

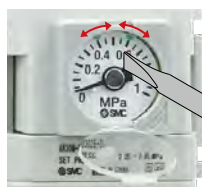
### Open/close type gauge cover

1 Open the gauge cover.



Open the gauge cover in the direction of the arrow with your fingertips.

2 Adjust the indicator to a specified position.



Adjust the indicator using a flat blade screwdriver.

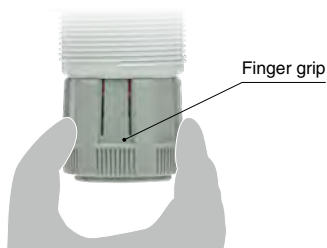
3 Close the gauge cover.



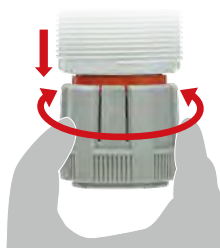
Close the gauge cover in the direction of the arrow and push it in until it clicks in place.

## Easy to handle

Easy to hold when unlocked



Locked



Pressure regulation while  
unlocked

### Simple Specials System



For modular connection units (shipped assembled), the simple specials system can be used.

Modular Connection  
Examples

Refer to page 9.

#### Short lead times

This system enables us to respond to your special needs (accessory assembly or the designing of a modular unit) as quickly as standard products.

#### Repeat orders

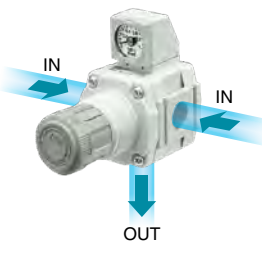
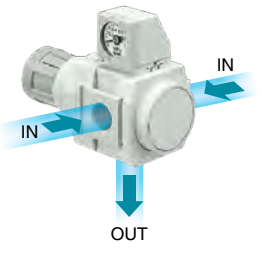
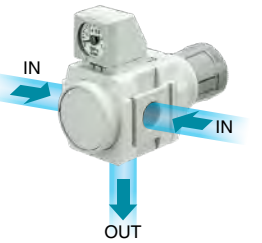
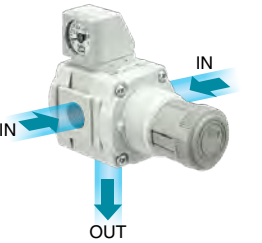
Once we receive a simple special part number from one of your previous orders, we will process the order, manufacture the product, and deliver it to you as quickly as possible.

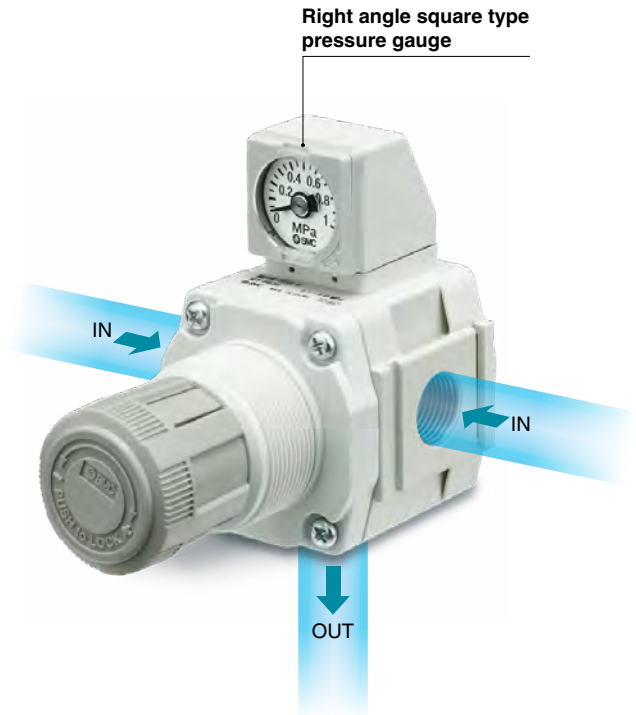
Please contact your local sales representative for more details.

**The direction the pressure gauge faces can be changed freely.**

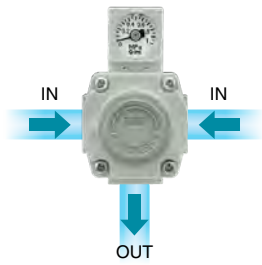
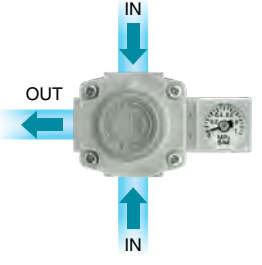
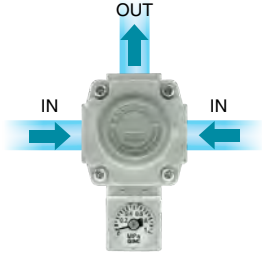
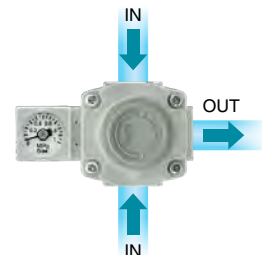
**Right angle square type pressure gauge**

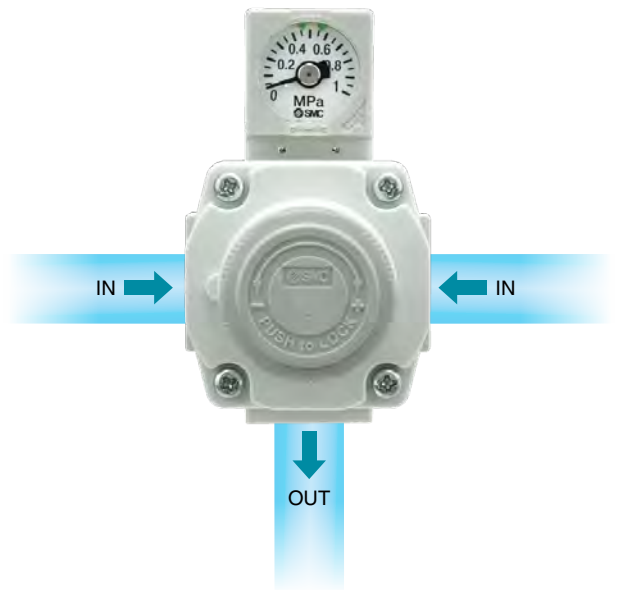
The direction the pressure gauge faces can be changed in 90° increments depending on where the pressure gauge needs to be viewed from.

Pressure gauge direction	
Standard direction (At the time of shipment)	Direction 1
	
Direction 2	Direction 3
	



The direction the pressure gauge scale plate faces can also be changed in 90° increments depending on the piping direction.

Scale plate direction	
Standard direction (At the time of shipment)	Direction 1
	
Direction 2	Direction 3
	

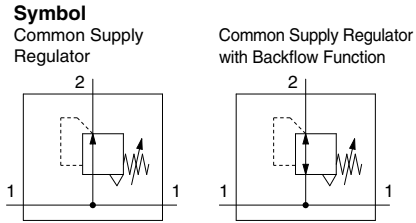


# Common Supply Regulator

## AR20M-D to AR40M-D

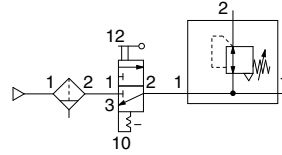
### Common Supply Regulator with Backflow Function

## AR20MK-D to AR40MK-D



- Models with the backflow function include a mechanism which allows for the air pressure in the outlet side to be released to the inlet side.

When the air supply is cut off and releasing the inlet pressure to the atmosphere, the residual pressure release of the outlet side can be ensured for a safety purpose.



### How to Order

AR **30** **M** **K** - **F** **03** **02** **BE** -  - **D**

①      ②      ③      ④      ⑤      ⑥      ⑦

• Common supply type

- Option/Semi-standard: Select one each for a to f.
- Option/Semi-standard symbol: When more than one specification is required, indicate in alphanumeric order.

		Symbol	Description	① Body size			
				20	30	40	
②	With backflow function	Nil	Without backflow function	●	●	●	
		K	With backflow function*1	●	●	●	
+							
③	Pipe thread type	Nil	Rc	●	●	●	
		N	NPT	●	●	●	
		F	G	●	●	●	
+							
④	IN port size	01	1/8	●	—	—	
		02	1/4	●	●	—	
		03	3/8	—	●	●	
		04	1/2	—	—	●	
+							
⑤	OUT port size	01	1/8	●	—	—	
		02	1/4	●*2	●	●	
		03	3/8	—	—	●	
+							
⑥	a	Mounting	Nil	Without mounting option	●	●	●
			B*4	With bracket	●	●	●
			H	With set nut (for panel mount)	●	●	●
	+						
	b	Pressure gauge*5	Nil	Without pressure gauge	●	●	●
			E	Square embedded type pressure gauge (with limit indicator)	●	●	●
			G	Round type pressure gauge (with limit indicator)	●	●	●
			J*6, *7	Right angle square type pressure gauge (with limit indicator)	●	●	●
			M	Round type pressure gauge (with color zone)	●	●	●
		Digital pressure switch*8	E1	Output: NPN output, Electrical entry: Wiring bottom entry	●	●	●
	E2		Output: NPN output, Electrical entry: Wiring top entry	●	●	●	
	E3		Output: PNP output, Electrical entry: Wiring bottom entry	●	●	●	
+							
⑦	c	Set pressure*9, *10	Nil	0.05 to 0.85 MPa setting	●	●	●
			1	0.02 to 0.2 MPa setting	●	●	●
+							
⑦	d	Exhaust mechanism	Nil	Relieving type	●	●	●
			N	Non-relieving type	●	●	●

# Common Supply Regulator **AR20M-D to AR40M-D Series**

# Common Supply Regulator with Backflow Function **AR20MK-D to AR40MK-D Series**



		Symbol	Description	①				
				Body size				
				20	30	40		
⑦	Semi-standard	e	Knob	Nil	Downward	●	●	●
				Y	Upward	●	●	●
			+					
	f	Pressure unit	Nil	Unit on product label: MPa, Pressure gauge in SI units: MPa	●	●	●	
			Z*11	Unit on product label: psi, Pressure gauge: MPa/psi dual scale	○*13	○*13	○*13	
			ZA*12	Digital pressure switch: With unit selection function	△*14	△*14	△*14	

- \*1 Set the inlet pressure to at least 0.05 MPa higher than the set pressure.
- \*2 Selectable when the port size of the IN side is 1/4.
- \*3 Options B, G, H, and M are not assembled and supplied loose at the time of shipment.
- \*4 The assembly consists of a bracket and set nuts.
- \*5 When the pressure gauge is attached, a 1.0 MPa pressure gauge will be fitted for standard (0.85 MPa) type. 0.4 MPa pressure gauge for 0.2 MPa type.
- \*6 Cannot be selected for the type with a set nut (option "H")
- \*7 The direction the pressure gauge scale plate faces is from the knob side.
- \*8 When choosing with H (panel mount), the installation space for lead wires will not be secured. In this case, select "wiring top entry" for the electrical entry. (Select "wiring bottom entry" when the semi-standard Y is chosen simultaneously.)
- \*9 Pressure can be set higher than the specification pressure in some cases, but use pressure within the specification range.
- \*10 For models with a backflow function, the minimum set pressure is 0.1 MPa.
- \*11 For the pipe thread type: NPT  
This product is for overseas use only according to the New Measurement Act. (The SI unit type is provided for use in Japan.) Cannot be used with M: Round type pressure gauge (with color zone). Available by request for special. The digital pressure switch will be equipped with the unit selection function, setting to psi initially.
- \*12 For options: E1, E2, E3, E4
- \*13 ○: For the pipe thread type: NPT only
- \*14 △: Select with options: E1, E2, E3, E4.



Automation - Controls - Process



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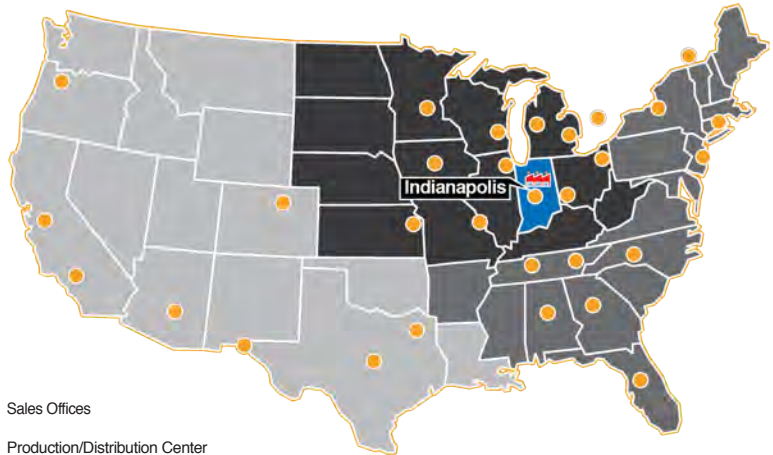
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