

# Pilot Operated Regulator

## AR425 to 935 Series

### Standard Specifications

Model	AR425	AR435	AR625	AR635	AR825	AR835	AR925	AR935
Port size	1/4, 3/8, 1/2		3/4, 1		1 1/4, 1 1/2		2	
Fluid	Air							
Proof pressure	1.5 MPa							
Max. operating pressure	1.0 MPa							
Set pressure range (MPa) <sup>(1)</sup>	0.05 to 0.83	0.02 to 0.2	0.05 to 0.83	0.02 to 0.2	0.05 to 0.83	0.02 to 0.2	0.05 to 0.83	0.02 to 0.2
Air consumption (for bleed hole) <sup>(2)</sup>	5 L/min (ANR) (at maximum pressure)							
Pressure gauge port size	1/4							
Ambient and fluid temperature	-5 to 60°C (No freezing)							
Construction	Internal pilot relieving type (Pilot air is always bleeding.)							
Weight (kg)	0.7		1.1		2.5		4.5	

Note 1) Outlet pressure range: P2 is 90% of P1 or less.

Note 2) Air consumption differs depending on the set pressure. Due to the construction, the pressure gap between inlet and outlet cannot be set within 0.03 MPa, even if the knob is set at the maximum.

### Accessory (Option)/Part No.

Description	Model	Part no.
Bracket	AR4□5 B24P	AR6□5 B25P
Pressure gauge with limit indicator <sup>Note 1)</sup>	G46-10-□02 (Max. 1.0 MPa), G46-2-□02 (Max. 0.2 MPa)	

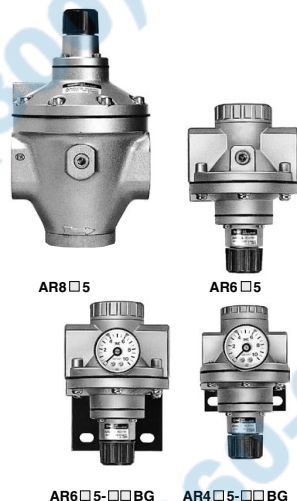
Note 1) • In the gauge part no. (e.g. G46-10-□02), □ indicate kind of the connecting thread. Put nothing for Rc and "N" for NPT thread.

• Please consult with SMC for NPT pressure gauge.

Note 2) Use caution not to tighten excessively when mounting a pressure gauge, otherwise it may result in a breakdown. Use a sealant tape for sealing.

### How to Order

#### Internal pilot operated relieving type regulator



**AR 4 25 - □ 02 BG - □**

Regulator

Body size

4	1/2
6	1
8	1 1/2
9	2

Regulating pressure range

25	0.05 to 0.83 MPa
35 <sup>Note)</sup>	0.02 to 0.2 MPa

Note) Compared with AR□25 type, its adjusting spring will only be changed for 0.2 MPa. It is not the product which does not allow the pressure more than 0.2 MPa.

Port size

02	1/4
03	3/8
04	1/2
06	3/4
10	1
12	1 1/4
14	1 1/2
20	2

Thread type

NII	Rc
N	NPT
F	G

Symbol

Accessory

Symbol	Description	Applicable model
NII	None (Standard)	—
B	With bracket	AR□5 to 6□5
G	Gauge	G46-10-02 AR□25 G46-2-02 AR□35
P <sup>Note)</sup>	Pressure display unit: MPa, psi	G46-P10-02-X30 AR□25 G46-P2-02-X30 AR□35

Note) Pressure display unit: MPa, psi  
\* Pressure gauges are shipped with regulator, (but not assembled).