

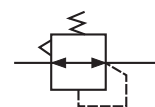
Предназначен для понижения давления сжатого воздуха и поддержания его на заданном уровне

- Высокая пропускная способность
- Высокая стабильность поддержания давления

#### Технические характеристики

Типоразмер		EAR400	EAR600	EAR800	EAR900
Диапазон давления на выходе (МПа)	0.05 - 0.83	EAR425	EAR625	EAR825	EAR925
	0.02 - 0.2	EAR435	EAR635	EAR835	EAR935
Присоединительная резьба		G1/4, G3/8, G1/2	G3/4, G1	G1 1/4, G 1 1/2	G 2
Номинальный расход воздуха (норм. л/мин)*		7000	10000	16000	18000
Испытательное давление (МПа)		1.5			
Макс. рабочее давление (МПа)		1.0			
Рабочая температура (°C)		-5 ~ 60			
Потребление воздуха (норм. л/мин)*		5			
Присоединение манометра		G1/4			
Вес (кг)		0.7	1.1	2.5	4.5

\* При P1=0.7 МПа и перепаде давлений p=0.1 МПа



#### Номер для заказа

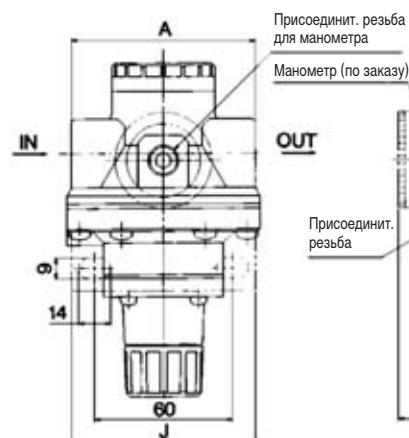
Типоразмер	Присоединительная резьба	Номер для заказа	
		0.05 ~ 0.83 МПа	0.02 ~ 0.2 МПа
EAR400	G1/4	EAR425-F02	EAR435-F02
	G3/8	EAR425-F03	EAR435-F03
	G1/2	EAR425-F04	EAR435-F04
EAR600	G3/4	EAR625-F06	EAR635-F06
	G1	EAR625-F10	EAR635-F10
EAR800	G 1 1/4	EAR825-F12	EAR835-F12
	G 1 1/2	EAR825-F14	EAR835-F14
EAR900	G 2	EAR925-F20	EAR935-F20

#### Принадлежности (заказываются отдельно)

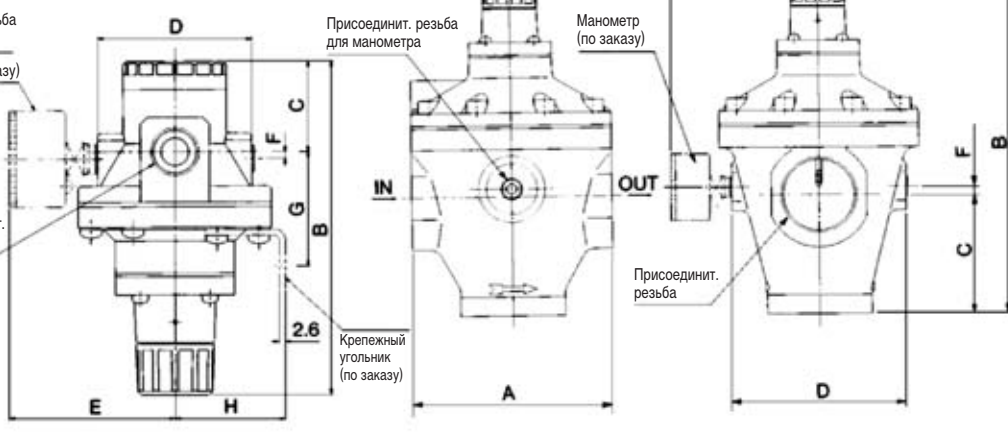
Типоразмер		EAR400	EAR600	EAR800	EAR900
Манометр (стр. 157)	0.05~0.83	K4-10-50	EAR425	EAR625	AR825
	0.02~0.2	K4-2.5-50	EAR435	EAR635	AR835
Крепежный угольник		B24P	B25P	-	-

#### Размеры

##### EAR425 ~ EAR625



##### EAR825 ~ EAR925

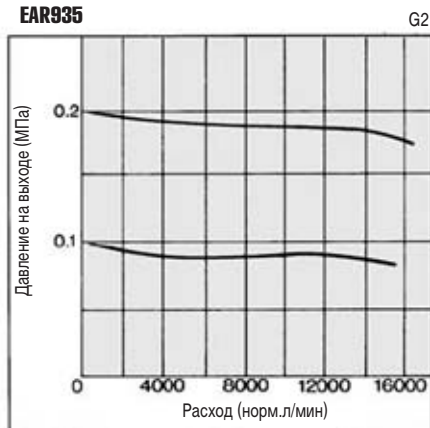
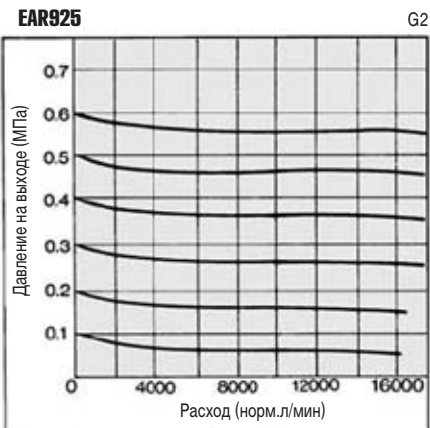
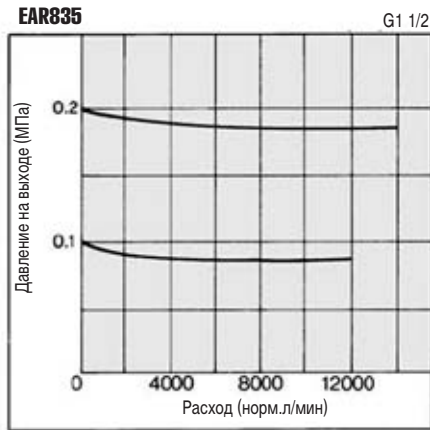
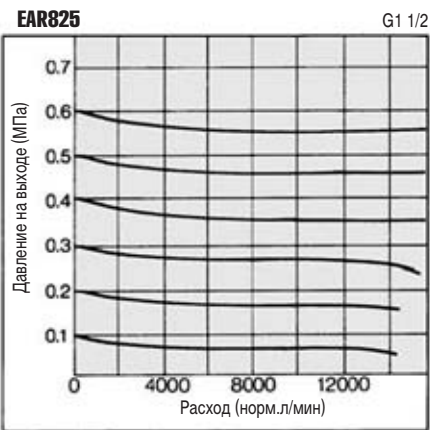
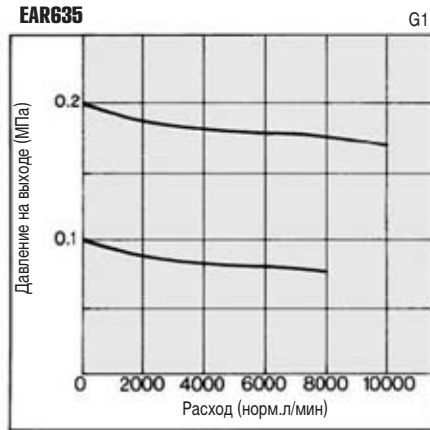
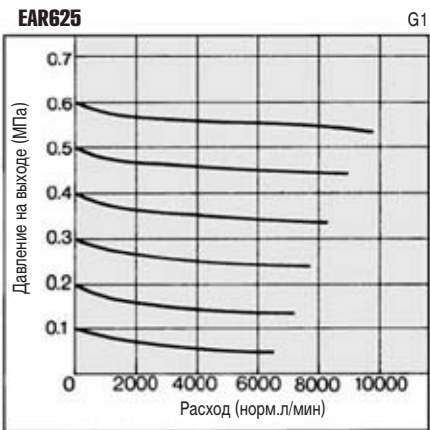
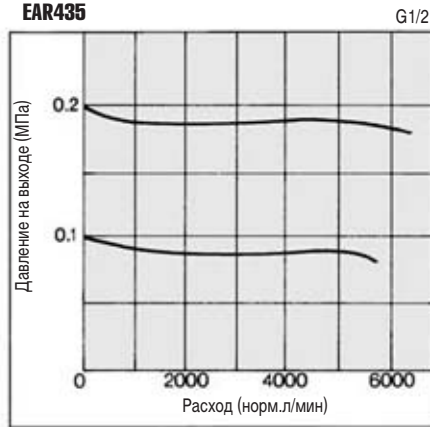
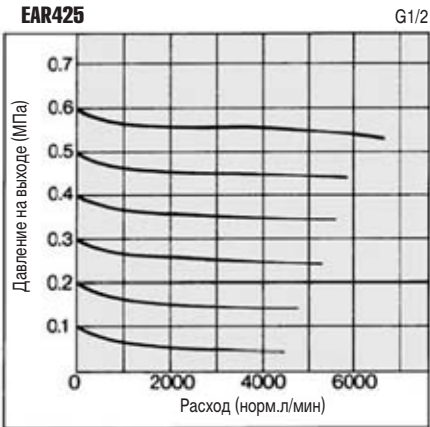


Модель	Присоед. резьба	Присоед. резьба для манометра	A	B	C	D	E	F	Крепежный угольник		
									G	H	J
EAR425/435	1/4, 3/8, 1/2	1/4	80	145.5	39.5	67	73	3	46.5	48	80
EAR625/635	3/4, 1	1/4	98	155	43	78	78.5	7	85	52	90
EAR825/835	1 1/4, 1 1/2	1/4	126	216	75	110	94.5	5	-	-	-
EAR925/935	2	1/4	160	241	90	140	109.5	10	-	-	-

# Регулятор давления с высокой пропускной способностью EAR425-935

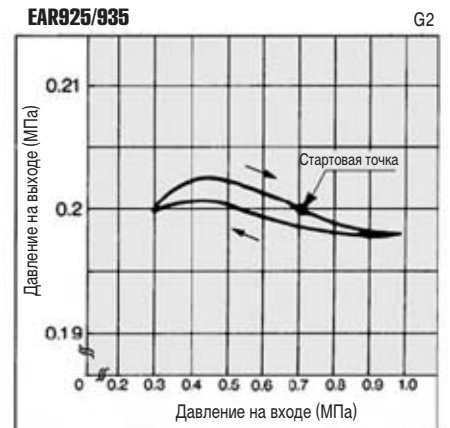
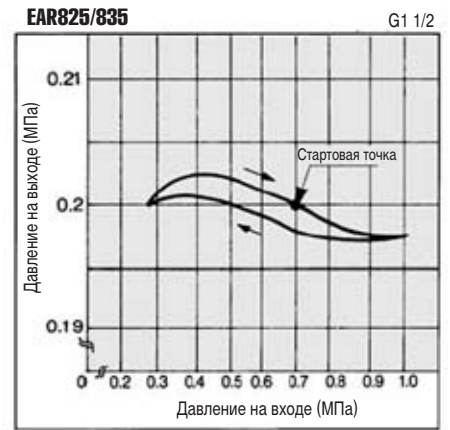
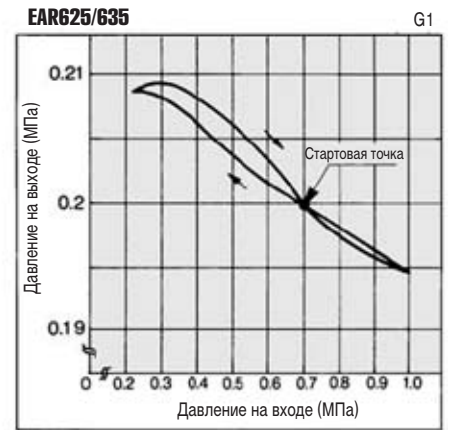
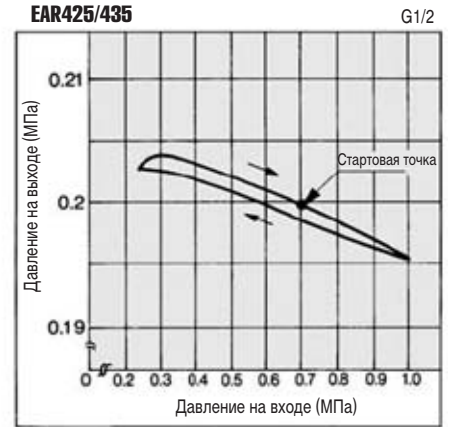
## Характеристики расхода

Давление на входе: 0.7 МПа



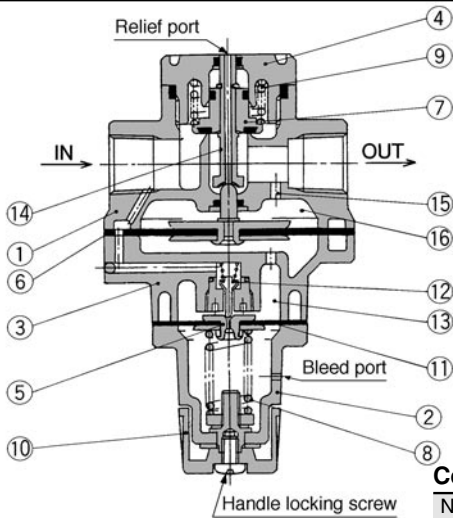
## Характеристики давления

Давление на входе: 0.7 МПа  
Давление на выходе: 0.2 МПа  
Расход: 20 норм.л/мин



# Pilot Operated Regulator **AR425 to 935**

## Construction



When handle ⑩ is turned clockwise to compress pressure adjustment spring ⑧, the pressure from the IN side passes through diaphragm ①, opens pilot valve ⑫, and enters upper pilot chamber ⑬. This pressure and the force generated by pressure adjustment spring ⑧ act as resistance, resulting in equilibrium. Then, this pressure passes through diaphragm ⑥ of the main valve and stem ⑭, and pushes valve (main valve) ⑦ open, thus guiding the pressure to the OUT side. At the same time, the pressure passes through feedback hole ⑮, and enters diaphragm chamber ⑯, thus establishing the OUT side pressure (secondary pressure).

### Component Parts

No.	Description	Material	Note
①	Body	ADC*	Painted silver
②	Bonnet	ADC	Painted silver
③	Chamber	ADC	Painted silver
④	Valve guide	ZDC*	Painted silver

\*In case of AR825/835/925/935, the material is AC2A-F.

## ⚠ Precautions

Be sure to read before handling. Refer to p.0-26 and 0-27 for Safety Instructions and common precautions on the products mentioned in this catalogue, and refer to p.1.0-2 and 1.0-13 for precautions on every series.

### Mounting/Adjustment

#### ⚠ Warning

- ① Set up the regulator while verifying the pressure that is indicated on the primary and the secondary pressure gauges. Turning the handle excessively could damage the internal parts.
- ② The pressure gauge that is provided with AR\*35 for setting a pressure between 0.02 to 0.2MPa is the 0.2MPa style. To prevent damage to the pressure gauge, make sure that a pressure that exceeds 0.2MPa is not applied.
- ③ Install the valve guide (on the opposite side of the handle) 60mm away from the ground surface to facilitate maintenance inspection.
- ④ Do not use the regulator with flow exceeding the Max. flow indicated in "Flow Characteristics" as this can cause failure in pressure adjustment.

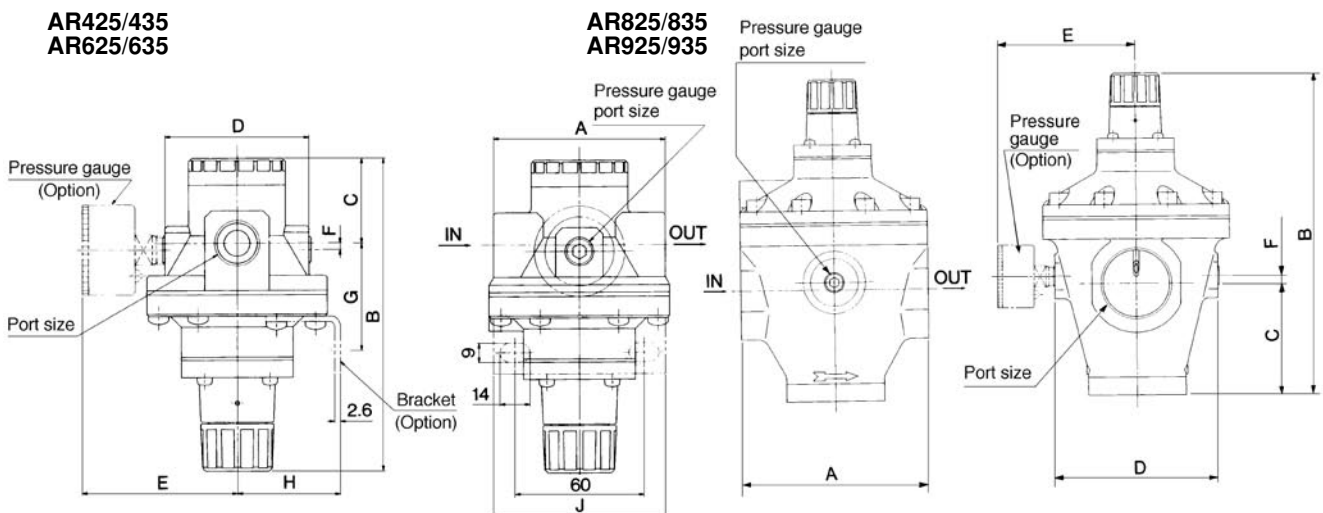
#### ⚠ Caution

- ① Release the lock to adjust the pressure. After the adjustment, engage the lock. Failure to observe this procedure could damage the handle or cause the secondary pressure to fluctuate. (Lock operating method)  
Loosen the handle locking screw to release the lock, and tighten it to lock it.
- ② To use this product between the solenoid valve and the actuator, contact SMC.

### Replacement Parts

No.	Description	Material	Part No.			
			AR425/435	AR625/635	AR825/835	AR925/935
⑤	Exhaust valve ass'y	—	132586A	132586A	132586A	132586A
⑥	Main valve side diaphragm ass'y	—	132581A	132659A	13275A	13285A
⑦	Valve ass'y	—	132572A	132653A	132752A	132829A
⑧	Adjusting spring	SWPB	135053(AR425) 135025(AR435)	135053(AR625) 135025(AR635)	135053(AR825) 135025(AR835)	135053(AR925) 135025(AR935)
⑨	Valve spring	SUS304	135211	132656	132713	13289

## Dimensions



Model	Port size	Pressure gauge port size	A	B	C	D	E	F	Bracket dimensions			Bracket part No.
									G	H	J	
AR425/435	1/4, 3/8, 1/2	1/4	80	145.5	39.5	67	73	3	46.5	48	80	B24P
AR625/635	3/4, 1	1/4	98	155	43	78	78.5	7	85	52	90	B25P
AR825/835	1 1/4, 1 1/2	1/4	126	216	75	110	94.5	5	—	—	—	—
AR925/935	2	1/4	160	241	90	140	109.5	10	—	—	—	—