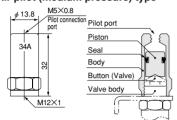
(mm)



# Operators for Actuating Valves (Air Pilot Type)

Model **34A** 

### Air pilot (medium pressure) type



• When the pilot port receives a pneumatic signal, it switches the

l	Symbol	Maximum operating pressure 0.9MPa {9.2kgt/cm²}
	Symbol	[131psi.]
	<u>i_</u>	Proof pressure1.35MPa {13.8kgf/cm²}
		[196psi.]
	!   j	Body material Brass (nickel plated)
		Lubrication Required
		Mass29g [1.02oz.]

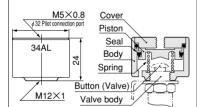
#### Minimum pilot pressure MPa [psi.]

Applicable MPa [psi.]	0.2 [29]	0.4 [58]	0.7 [107]
2P	0.4 [58] (0.25 [36])	0.54 [78] (0.26 [38])	0.72 [104] (0.29 [42])
3P	0.24 [35]	0.26 [38]	0.34 [49]
4P	0.24 [35]	0.25 [36]	0.25 [36]
4PP	0.08 [12]	0.08 [12]	0.08 [12]

Note: Figures in parentheses () are for when the A port is open to the atmosphere

Model

#### **34AL** Air pilot (low pressure) type



When the pilot port receives a pneumatic signal, it switches the valve

	Symbol	Maximum operating pressure	0.9MPa {9.2kgf/cm <sup>2</sup> } [131psi.]
	AL	Proof pressure	1.35MPa {13.8kgf/cm²}
			[196psi.] Brass (nickel plated)
		Lubrication Mass	Required 90g [3.17oz.]

#### Minimum pilot pressure MPa [psi.]

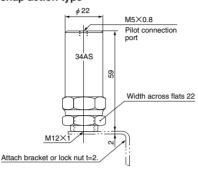
Air pressure(main) Applicable MPa [psi.]	0.2 [29]	0.4 [58]	0.7 [102]	
2P	0.07 [10] (0.05 [7])	0.1 [15] (0.05 [7])	0.12 [17] (0.06 [9])	
3P	0.05 [7]	0.05 [7]	0.06 [9]	
4P	0.05 [7]			
4PP	0.03 [4]			
ES		0.03 [4]		

Note: Figures in parentheses ( ) are for when the A port is open to the atmosphere

Model

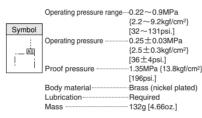
# **34AS**

Air pilot snap action type

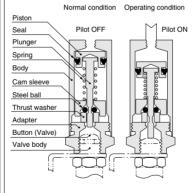


●When the pneumatic signal applied to this operator builds up pressure to 0.25±0.03MPa [36±4psi.], it immediately activates (snap action), and switches the

Use in timer circuits, etc., in which pilot pressure in circuits gradually builds up and accumulates



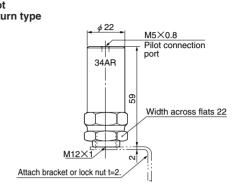
#### **Operating principles**



Remark: Application example is on p.849.

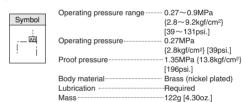
## Model **34AR**

Air pilot self return type

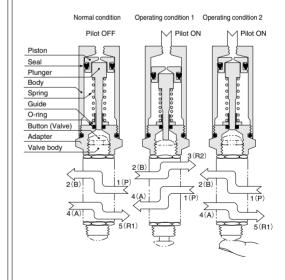


- This operator provides a special function, in that it is upon receiving air pilot pressure of at least 0.27MPa [39psi.], and then returns to its original position after about 0.5 seconds, even if the pilot pressure is applied continuously
- When combined with a holding type valve(4PP), the valve can return to its original position even if the air pilot is only applied on one side.

  • Mainly used in one-shot circuits, this operator can help to build a simple circuit.
- •Give the air pilot plenty of flow rate margin. It cannot be used by gradually building up the pressure



#### Operating principles



Remark: Application example is on p.849.

TAC AIR VALVES