

Operators for Actuating Valves (Air Pilot Type)

(mm)

Model 34A
Air pilot (medium pressure) type

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

Symbol	Maximum operating pressure... 0.9MPa [9.2kgf/cm ²] [131psi.]
	Proof pressure 1.35MPa [13.8kgf/cm ²] [196psi.]
	Body material..... Brass (nickel plated)
	Lubrication..... Required
	Mass 29g [1.02oz.]

Minimum pilot pressure MPa [psi.]		0.2 [29]	0.4 [58]	0.7 [107]
Applicable valve	Air pressure 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 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 valve. Use in timer circuits, etc., in which pilot pressure in circuits gradually builds up and accumulates.

Symbol	Operating pressure range... 0.22~0.9MPa [2.2~9.2kgf/cm ²] [32~131psi.]
	Operating pressure 0.25±0.03MPa [2.5±0.3kgf/cm ²] [36±4psi.]
	Proof pressure 1.35MPa [13.8kgf/cm ²] [196psi.]
	Body material..... Brass (nickel plated)
	Lubrication..... Required
	Mass 132g [4.66oz.]

Operating pressure range... 0.22~0.9MPa [2.2~9.2kgf/cm²] [32~131psi.]

Operating pressure 0.25±0.03MPa [2.5±0.3kgf/cm²] [36±4psi.]

Proof pressure 1.35MPa [13.8kgf/cm²] [196psi.]

Body material..... Brass (nickel plated)

Lubrication..... Required

Mass 132g [4.66oz.]

Model 34AR
Air pilot self return type

● This operator provides a special function, in that it is immediately activated 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.

Symbol	Operating pressure range 0.27~0.9MPa [2.8~9.2kgf/cm ²] [39~131psi.]
	Operating pressure..... 0.27MPa [2.8kgf/cm ²] [39psi.]
	Proof pressure 1.35MPa [13.8kgf/cm ²] [196psi.]
	Body material..... Brass (nickel plated)
	Lubrication..... Required
	Mass 122g [4.30oz.]

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 ²] [131psi.]
	Proof pressure 1.35MPa [13.8kgf/cm ²] [196psi.]
	Body material..... Brass (nickel plated)
	Lubrication..... Required
	Mass 90g [3.17oz.]

Minimum pilot pressure MPa [psi.]		0.2 [29]	0.4 [58]	0.7 [102]
Applicable valve	Air pressure (main) 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.

Operating principles

Normal condition Operating condition

Remark: Application example is on p.849.

Operating principles

Normal condition Operating condition 1 Operating condition 2

Remark: Application example is on p.849.