Two Hand Control Valve
Series *VR51*

How to Order

Silencer (Accessory)

Flame resistant One-touch fitting

With bracket (Option)

Back side mounting

VR51−C06
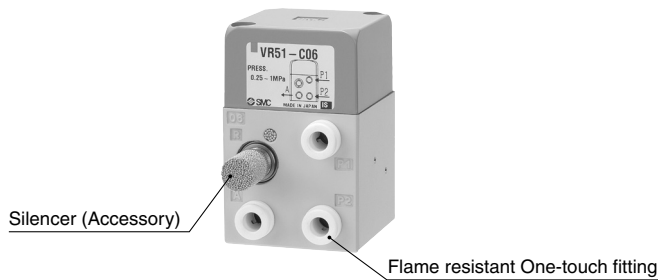
Bottom mounting

VR51 – C06 B

Two hand control valve

Option

Nil	None
B	With bracket

Connection piping size

C06	Flame resistant One-touch fitting ø6
C07	Flame resistant One-touch fitting ø1/4

Specifications

Fluid		Air		
Operating pressure		0.25 to 1 MPa		
Proof pressure		1.5 MPa		
Ambient and fluid temperature		−5 to 60°C (with no freezing)		
Flow characteristics		$C[dm^3/(s\cdot bar)]$	b	Cv
	P→A	0.3	—	—
	A→R	1.0	0.12	0.25
Port size	Metric size	ø6		
	Inch size	ø1/4		
Applicable tubing material Note)		Nylon, Soft nylon, Polyurethane, Flame resistant (FR) soft nylon, FR double layer, FR double layer polyurethane		
Weight		340 g		
Accessory	Silencer	Part No.: AN101-01		
Option	Bracket	Part No.: VR51B		

Note) In the case of using soft nylon or polyurethane tubing, use caution when the maximum operating pressure of the tubing is used.
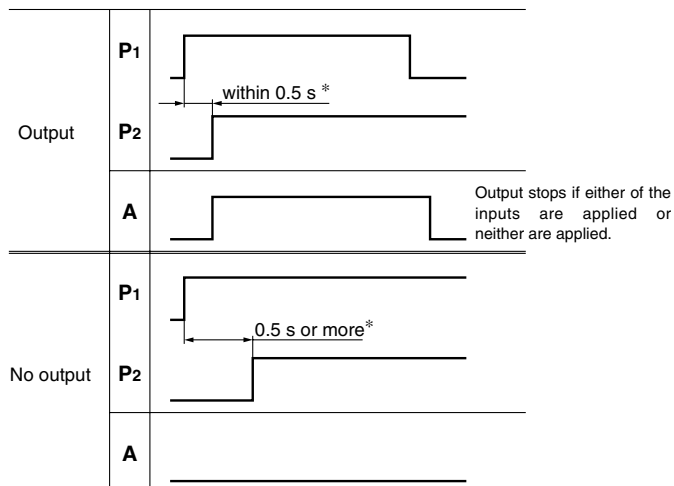
Example of a Basic Circuit Diagram

Two Hand Control Valve

Push button operated valve

Cylinder

Push button operated valve

Air operated valve

SMC
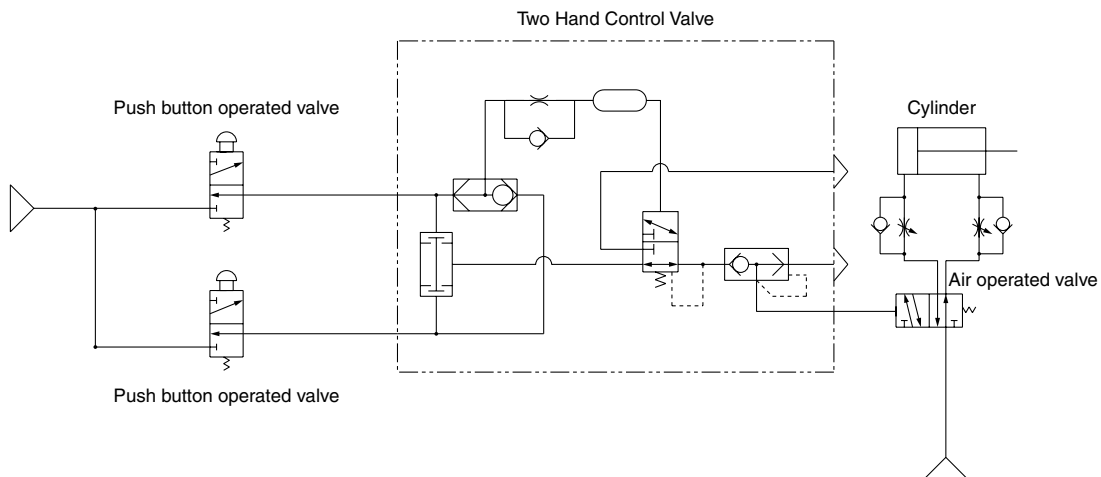
Construction
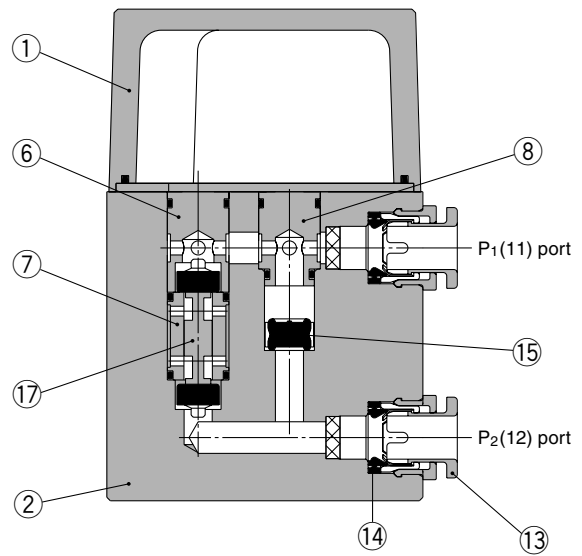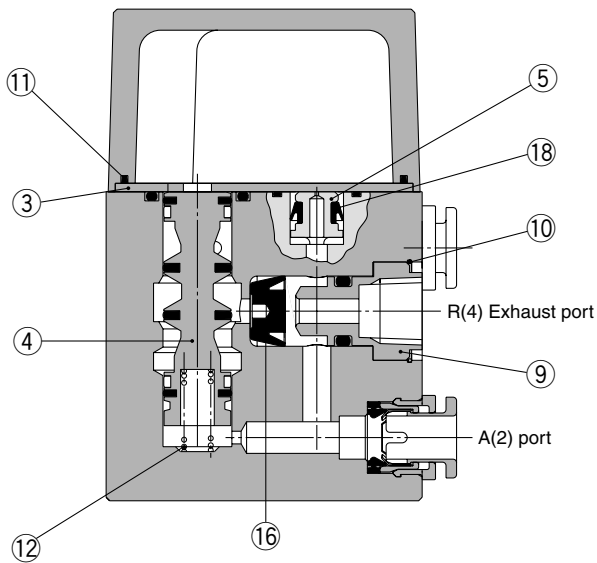
Component Parts

No.	Description	Material	Note
1	Cover	Diecast aluminum	Urban gray
2	Body	Diecast aluminum	Urban white
3	Plate	Rolled steel	Nickel plated
4	Spool valve	Aluminum alloy	
5	Orifice	Brass	Electroless nickel plated
6	Valve seat	Aluminum alloy	
7	Valve guide B	Aluminum alloy	
8	Valve guide A	Aluminum alloy	
9	Guide	Brass	Electroless nickel plated

No.	Description	Material	Note
10	Clip	Stainless steel	
11	Gasket	H-NBR	
12	Spring	Stainless steel	
13	Cassette assembly		
14	Seal	NBR	
15	Valve	H-NBR	
16	Valve	NBR	
17	Valve	H-NBR	
18	U-shaped seal	H-NBR	

Timing of Motion

∗ The time lag for operation is different depending on the operating pressure. The higher the operating pressure, the shorter the time lag, and vice versa. When the operating pressure is 1 MPa, the time lag will be within approximately 0.1 seconds.
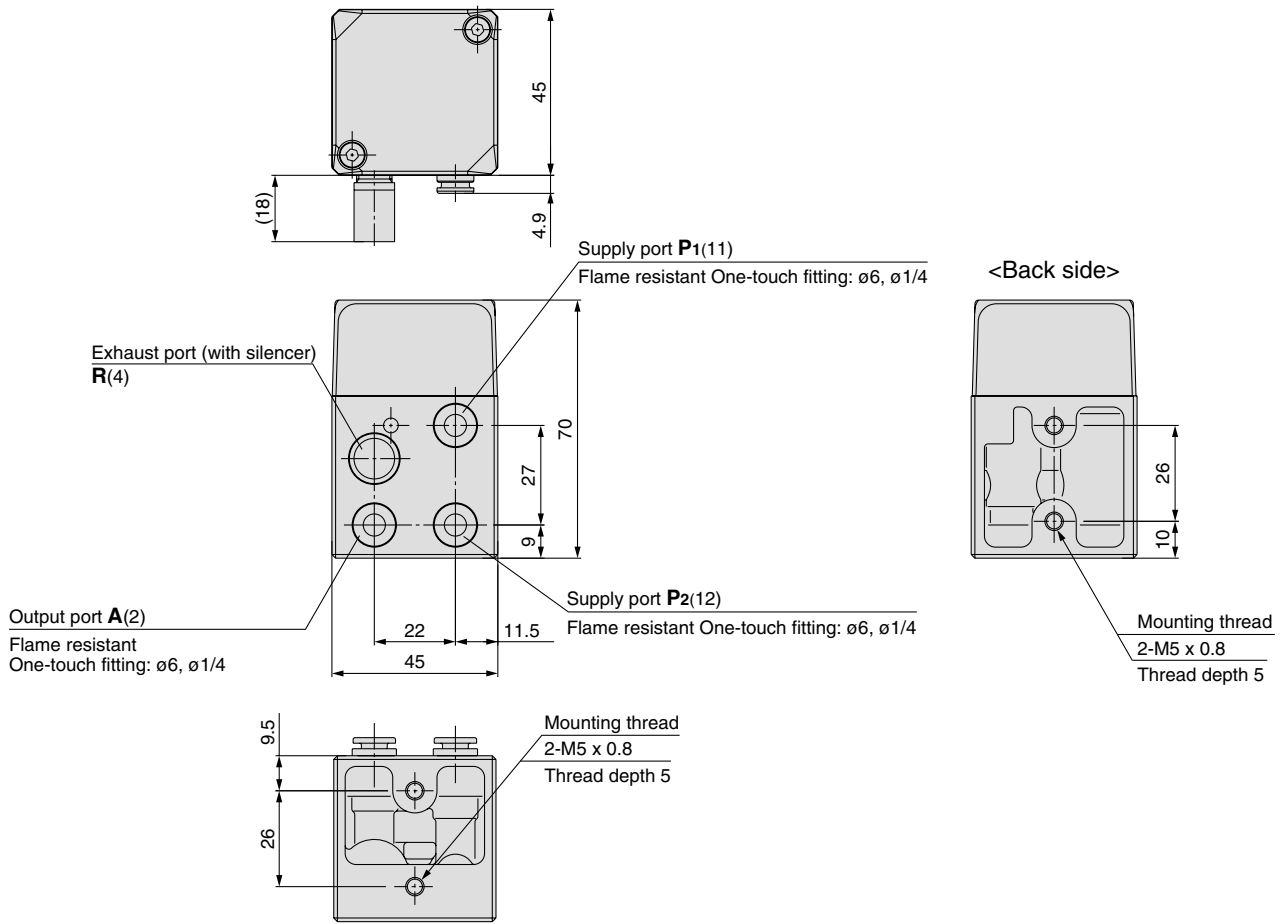

Output stops if either of the inputs are applied or neither are applied.

Circuit Diagram

Series VR51

Dimensions

45

(18)

4.9

Supply port **P₁**(11)
Flame resistant One-touch fitting: ø6, ø1/4

<Back side>

Exhaust port (with silencer)
R(4)

70

27

9

26

10

Output port **A**(2)
Flame resistant
One-touch fitting: ø6, ø1/4

Supply port **P₂**(12)
Flame resistant One-touch fitting: ø6, ø1/4

Mounting thread
2-M5 x 0.8
Thread depth 5

22

11.5

45

9.5

26

Mounting thread
2-M5 x 0.8
Thread depth 5
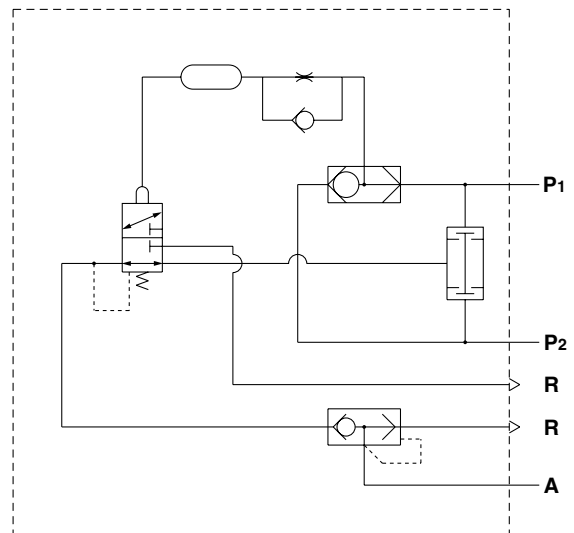
Bracket mounting dimensions

10.4

66

54

7.5

30

42

2-ø6.5

2-ø6.5

42

30

8

54

66

10.4

Back side mounting

Bottom mounting

3

SMC