



Master Valve **AR / RB Series**

Small-size non-lubrication type 5-port master valves

- The valves with a port size of M5 to Rc1 are available.
- Two kinds of manifolds, Mono-manifold and Easy manifold, are available.
- AR532 and AR542 come with 4mm and 6mm dia. quick joints.

Specification

Valve Specifications: Sub-plate type and Mono-manifold type

Series	AR532	AR542	AR552	AR562	RB54	RB58
Item						
Port size	Rc1/8	Rc1/4	Rc1/4	Rc3/8	Rc1/4·3/8·1/2	Rc3/4·1
Note 1) Effective sectional area mm ²	4.0	8.2	22	40	Rc1/4:40(35) Rc3/8:50(40) Rc1/2:60(50)	Rc3/4:125(110) Rc1:160(140)
Note 2) Max. working pressure	0.7 MPa					
Proof test pressure	1.05 MPa				1 MPa	
Working temperature range	+5 to +60°C (Atmosphere or working fluid)	+5 to +50°C (Atmosphere or working fluid)			-10 to +80°C (No freezing)	
Vibration resistance/ impact resistance	1373.0 m/s ² (294.2 m/s ² in axial direction)		1373.0 m/s ² (882.6 m/s ² in axial direction)	1373.0 m/s ² (734.5 m/s ² in axial direction)	49 m/s ² ·294 m/s ²	

Note 1) The parenthesized effective sectional areas apply to 3-position valves.

Note 2) The max. working pressure of the bodies is shown. For the pilot pressure, see the separate table (Pilot Working Pressure Range).

Valve Specifications: Direct type and Easy manifold type

Series	AR532	AR542	AR552	AR562	RB54
Item					
Note 1) Port size	M5×0.8 (φ4·φ6)	Rc1/8 (φ4·φ6)	Rc1/4	Rc3/8	Rc1/4·Rc3/8
Note 2) Effective sectional area mm ²	4.2	10.2	25	40	Rc1/4:37(35) Rc3/8:40(35)
Note 3) Max. working pressure	0.7 MPa				
Proof test pressure	1.05 MPa				1 MPa
Working temperature range	+5 to +60°C (Atmosphere or working fluid)	+5 to +50°C (Atmosphere or working fluid)			-10 to +80°C (No freezing)
Vibration resistance/ impact resistance	1373.0 m/s ² (294.2 m/s ² in axial direction)		1373.0 m/s ² (882.6 m/s ² in axial direction)	1373.0 m/s ² (734.5 m/s ² in axial direction)	49 m/s ² ·294 m/s ²

Note 1) The parenthesized port sizes apply to valves with quick joints.

Note 2) The parenthesized effective sectional areas apply to 3-position valves.

Note 3) The max. working pressure of the bodies is shown. For the pilot pressure, see the separate table (Pilot Working Pressure Range).

Common Specifications

Number of ports: 5 ports

Working fluid: Air

Lubrication: Unnecessary (but possible)


Installation method: Free

Recommended lubricant: JIS K2213 Class 1

(equivalent to additive-free)
turbine oil ISO VG32

How to Order


Direct type



AR532 - R NO - F

Mounting plate
No symbol: None
F: With mounting plate (only return type)
Note) The valve will be delivered without the mounting plate mounted.

Sub-plate type



AR532 - R MM - SP

Sub-plate
No symbol: None
SP: With sub-plate
Note) The valve will be delivered without the sub-plate mounted.

Note) The valve will be delivered without the sub-plate mounted.

• Series

Series
AR532
AR542
AR552
AR562

• Switching type

Symbol	Switching type
R	Return
D	Detent

• Port size

Symbol	Port size
AR532	
NO	M5×0.8
VA	With joint on secondary side φ4
VB	With joint on secondary side φ6
WA	With joints on both sides φ4
WB	With joints on both sides φ6
AR542	
N1	Rc 1/8
VA	With joint on secondary side φ4
VB	With joint on secondary side φ6
WA	With joints on both sides φ4
WB	With joints on both sides φ6
AR552	
N2	Rc 1/4
AR562	
N3	Rc 3/8
MM	
Sub-plate type	

How to order Mono-manifold

How to order Mono-manifold

MF532M - O6 A

• Series

Series
MF532M
MF542M
MF552M
MF562M

• No. of stations

Symbol	No. of stations
O2	2 stations
O4	4 stations
O6	6 stations
O8	8 stations
O10	10 stations

• Port size

Symbol	Port size
A	Direct screw piping type
C	With joint φ4
E	With joint φ6

Note) Only MF532M and MF542M Series are provided with joints (C and E).

How to order valve for Mono-manifold

AR532 - R MM

• Series

Series
AR532
AR542
AR552
AR562

• Switching type

Symbol	Switching type
R	Return
D	Detent

How to order seal plate [SZZ]

MF532 - MS

• Symbol

Symbol
MF532
MF542
MF552
MF562

How to order Easy manifold

How to order Easy manifold

MF532E - O6 S

• Series

Series
MF532E
MF542E
MF552E
MF562E

• No. of stations

Symbol	No. of stations
O2	2 stations
O4	4 stations
O6	6 stations
O8	8 stations
O10	10 stations

How to order valve for Easy manifold

AR532 - R NO

• Series

Series
AR532
AR542
AR552
AR562

• Switching type

Symbol	Switching type
R	Return
D	Detent

• Port size

Symbol	Port size
AR532	
NO	M5×0.8
VA	With joint on secondary side φ4
VB	With joint on secondary side φ6
AR542	
N1	Rc 1/8
VA	With joint on secondary side φ4
VB	With joint on secondary side φ6
AR552	
N2	Rc 1/4
AR562	
N3	Rc 3/8

How to order seal plate [SZZ]

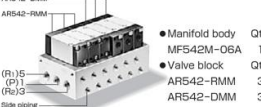
MF532 - ES

• Symbol

Symbol
MF532
MF542
MF552
MF562

How to order manifold

AR542-DMM
AR542-RMM



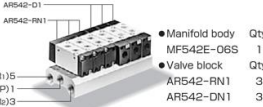
• Manifold body Qty. 1
MF542M-O6A

• Valve block Qty. 3
AR542-RMM
AR542-DMM

(R) 15
(P) 1
(Rc) 3
Side piping (direct screw piping type)

How to order manifold

AR542-D1
AR542-RN1



• Manifold body Qty. 1
MF542E-O6S

• Valve block Qty. 3
AR542-RN1
AR542-DN1

(R) 15
(P) 1
(Rc) 3