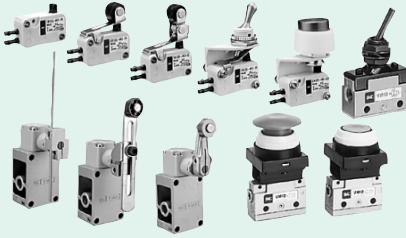


Equipment for Emitting Signals

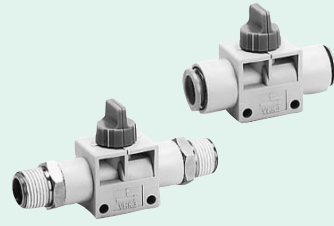
Mechanical Valves Page 5-6-2



Mechanical Valves
VM1000, VM100, VM200, VM400
VZM500, VZM400
VFM300, VFM200
VM800

Transmitters

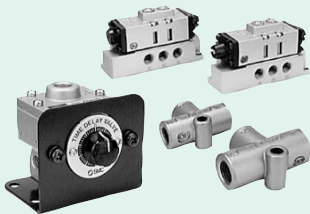
VR Page 5-7-1



Relay Valve: **VR4151/4152**
 Shuttle Valve: **VR1210/1220**
 Time Delay Valve: **VR2110**
 Pneumatic Indicator: **VR3100/3110**
 Pneumatic-electric Relay: **VR3200/3201**

Finger Valve

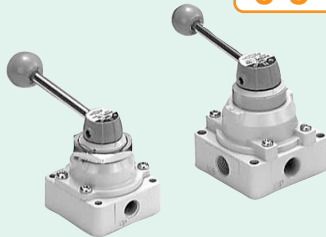
VHK Page 5-8-1



2/3 port valve of selector type

Hand Valve

VH Page 5-8-7



Pressure Relief 3 Port Valve

VHS Page 5-8-17



For countermeasures against residual pressure

Multi Regulator Valves


VEX1/3/5 Page 5-9-2



Regulator Valve: **VEX1**
 Regulator + Directional control valve
 3 Position Valve: **VEX3**
 Directional control valve + Directional control valve
 Economy Valve: **VEX5**
 Directional control valve + Control

Silencers/Exhaust Cleaners

AN, AN□1, AMC Page 5-10-2



Silencers: **AN**
AN: Noise reduction effect 35 dB (A) or more
AN□1: Noise reduction effect 40 dB (A), 38 dB(A)
 Exhaust Cleaner: **AMC**
AMC: Noise reduction effect 35 dB (A) or more
 Oil mist collection: 99.9%

5

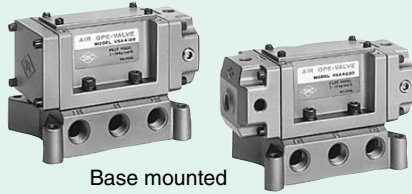
3/4/5 Port Air Operated Valves

4/5 Port

VSA4□20/4□30/4□40

Page
5-3-35

Metal seal



Base mounted

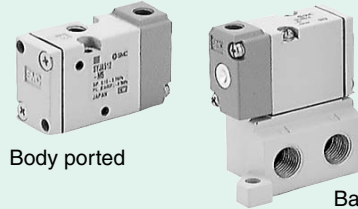
Model	Sonic conductance: C	Applicable cylinder size
VSA4□20	6.4 dm ³ /(s·bar)	ø80
VSA4□30	11 dm ³ /(s·bar)	ø100
VSA4□40	17 dm ³ /(s·bar)	ø140

3 Port

SYJA300/500/700

Page
5-4-3

Rubber seal



Body ported

Base mounted

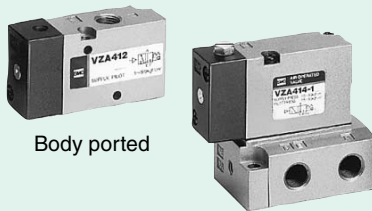
Model	Sonic conductance: C
SYJA300	3.6 dm ³ /(s·bar)
SYJA500	1.2 dm ³ /(s·bar)
SYJA700	2.7 dm ³ /(s·bar)

3 Port

VZA200/400

Page
5-5-1

Metal seal



Body ported

Base mounted

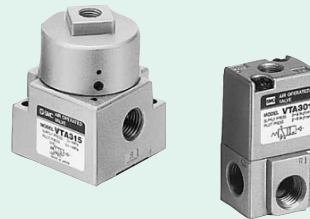
Model	Sonic conductance: C
VZA200	1.0 dm ³ /(s·bar)
VZA400	2.4 dm ³ /(s·bar)

3 Port

VTA301/315

Page
5-5-5

Rubber seal



Model	Sonic conductance: C
VTA301	0.6 dm ³ /(s·bar)
VTA315	1.7 dm ³ /(s·bar)

3 Port

VGA342

Page
5-5-3

Rubber seal



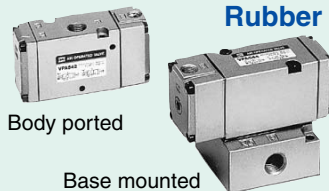
Model	Sonic conductance: C
VGA342	38 dm ³ /(s·bar)

3 Port

VPA300/500/700

Page
5-5-13

Rubber seal



Body ported

Base mounted

Model	Sonic conductance: C
VPA300	4.1 dm ³ /(s·bar)
VPA500	9.3 dm ³ /(s·bar)
VPA700	16 dm ³ /(s·bar)

3 Port

VPA3145/3165/3185

Page
5-5-25

Rubber seal



Model	Sonic conductance: C
VPA3145	26 dm ³ /(s·bar)
VPA3165	330 mm ² *
VPA3185	670 mm ² *

C and S in the table are the representative values for either 2 position single 4/2 → 5/3 (A/B → EA/EB) or 2 → 3 (A → R).

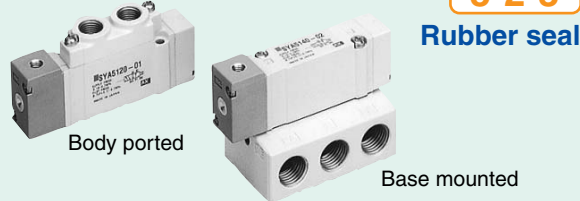
* Values in terms of effective area (S)

4/5 Port Air Operated Valves

5 Port

SYA3000/5000/7000

Page
5-2-3

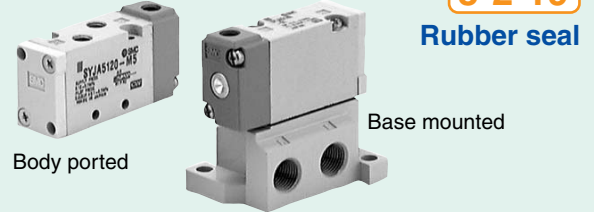


Model	Sonic conductance: C	Applicable cylinder size
SYA3000	1.1 dm ³ /(s·bar)	ø40
SYA5000	2.8 dm ³ /(s·bar)	ø63
SYA7000	4.5 dm ³ /(s·bar)	ø80

4/5 Port

SYJA3000/5000/7000

Page
5-2-19

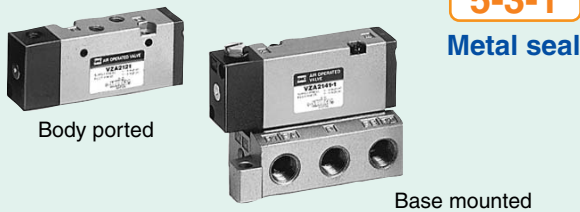


Model	Sonic conductance: C	Applicable cylinder size
SYJA3000	0.46 dm ³ /(s·bar)	ø25
SYJA5000	0.83 dm ³ /(s·bar)	ø40
SYJA7000	2.9 dm ³ /(s·bar)	ø50

4/5 Port

VZA2000/4000

Page
5-3-1

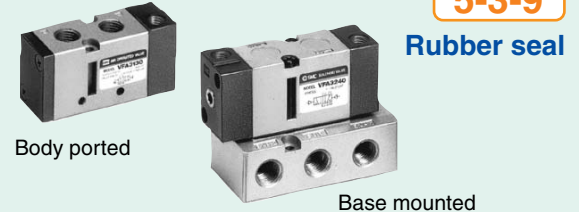


Model	Sonic conductance: C	Applicable cylinder size
VZA2000	1.0 dm ³ /(s·bar)	ø40
VZA4000	2.4 dm ³ /(s·bar)	ø50

5 Port

VFA3000/5000

Page
5-3-9

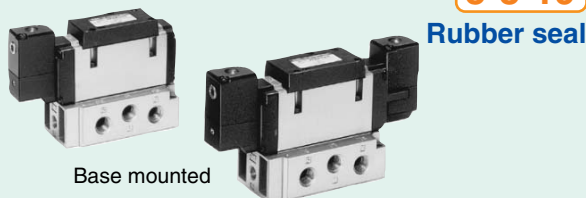


Model	Sonic conductance: C	Applicable cylinder size
VFA3000	3.1 dm ³ /(s·bar)	ø63
VFA5000	12 dm ³ /(s·bar)	ø140

5 Port

VFRA3000/4000

Page
5-3-19

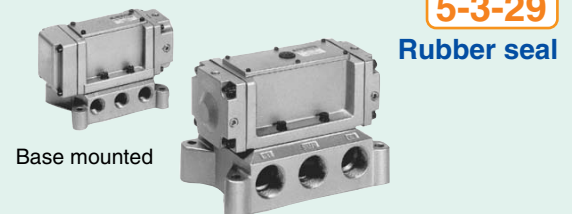


Model	Sonic conductance: C	Applicable cylinder size
VFRA3000	8.7 dm ³ /(s·bar)	ø100
VFRA4000	14 dm ³ /(s·bar)	ø125

Large Size 5 Port

VPA4□50/4□70

Page
5-3-29



Model	Sonic conductance: C	Applicable cylinder size
VPA4□50	21 dm ³ /(s·bar)	ø140
VPA4□70	300 mm ² *	ø300

⦿ C and S in the table are the representative values for 2 position single 4/2 → 5/3 (A/B → EA/EB).

* Values in terms of effective area (S)

Air Operated Valves/All Air System Equipment

4/5 Port Air Operated Valves



SYA3000/5000/7000	P. 5-2-3
SYJA3000/5000/7000	P. 5-2-19
VZA2000/4000	P. 5-3-1
VFA3000/5000	P. 5-3-9
VFRA3000/4000	P. 5-3-19
VPA4□50/4□70	P. 5-3-25
VSA4□20/4□30/4□40	P. 5-3-35

3 Port Air Operated Valves



SYJA300/500/700	P. 5-4-3
VZA200/400	P. 5-5-1
VTA301/315	P. 5-5-5
VGA342	P. 5-5-11
VPA300/500/700	P. 5-5-13
VPA3145/3165/3185	P. 5-5-25

All Air System Equipment



Mechanical Valves	P. 5-6-2
Transmitters	P. 5-7-1
Finger Valve	P. 5-8-1
Hand Valve	P. 5-8-7
Pressure Relief 3 Port Valve	P. 5-8-17
Pressure Relief 3 Port Valve with Locking Holes	P. 5-8-19

Power Valves/Silencers



■ Power Valves	
Regulator Valve: VEX1	P. 5-9-2
3 Position Valve: VEX3	P. 5-9-22
Economy Valve: VEX5	P. 5-9-30
■ Silencers	
Silencer: AN	P. 5-10-2
Exhaust Cleaner: AMC	P. 5-10-11

Full Stroke Time & Speed at the End.....	P. 5-1-2
Flow Characteristics.....	P. 5-1-10