ISO Standard Solenoid Valve/SIZE① **Rubber Seal** Series VP7-6





With interface regulator

	_	Single solenoid (FG-S)	Double solenoids (FG-D)	Reverse pressure (YZ-S)*	Reverse pressure (YZ-D)*
	2 position	14 12 12 M 513	14 4 2 12 513	14 4 2 12 513	14 4 2 12 12 513
	_	Closed centre (FHG-D)	Exhaust centre (FJG-D)	Double pilot check (FPG-D)	Pressure centre (FIG-D)*
]	3 position	14 4 2 12 12 12 513	14 4 2 12 70 + 13 12 513	14 4 2 12 7 5 1 3	14 4 2 12 12 12 12 13 13 13 13 13 13 13 13 13 13 13 13 13

*Option

Standard Specifications

		Air
Single	2 position	0.15 to 0.9
Double	2 position	0.1 to 0.9
	3 position	0.15 to 0.9
emperature		Max. 50°C
		Non-locking
Electrical entry DIN connector		DIN connector
ubrication		Turbine oil class 1(ISO VG32) Non-lube operation possible.
/ibration resistance ⁽¹⁾ 300		300/50m/s ²
	Double	Double 2 position 3 position emperature

Note 1) Shock resistance: No malfunction resulted from the impact test using a drop impact tester.

The test was performed on the axis and right angle direction of the main valve and armature, for both energized and de-energized states.

Vibration resistance: No malfunction occurred in a one-sweep test between 8.3 and 2000Hz.

Test was performed at both energized and de-energized states to the axis and right angle direction of the main valve and armature. (value in the initial stage.)

Pilot Valve Specifications

AXT511B-4
12V DC
0.15
0.15

Note 1) At rated voltage

Accessories

Mounting screw (Including washer)	TA-B-5 X 35	
Gasket	AXT500-13	

Options

Protection circuit	Surge voltage suppressor		
Reverse pressure (1)	R ₁ /R ₂ port pressurized,		
Hevelse pressure .	R1=P1 pressure, R2=P2 pressure		



Note1) Operate under the condition of P1>P2 when "YZ-S" is used.

Interface Regulator (Options)

Model	Regulation port	Note
ARB250-00-P	Р	Pofor to p 1 0 2
ARB250-00-A	Α	Refer to p.1.9-3 for specifications.
ARB250-00-B	В	lor opcomoations.

Model

No. of positions	Model	Effective area (1/4 with sub-plate) (mm²) (Nt/min)	Max. operating (1) frequency (c/s)	Response time (S)	Weight ⁽³⁾ (kg)
2 (Single)	VP7-6-FG-S-□-Q	30 (1639.11)	5	0.04 or less	0.53
2 (Double)	VP7-6-FG-D-□-Q	30 (1639.11)	5	0.04 or less	0.73
3 (Closed centre)	VP7-6-FHG-D-□-Q	28.8 (1570.40)	3	0.06 or less	0.73
3 (Exhaust centre)	VP7-6-FJG-D-□-Q	28.8 (1570.40)	3	0.06 or less	0.73
3 (Double pilot check)	VP7-6-FPG-D-□-Q	20 (1079.65)	3	0.06 or less	1.13
3 (Pressure centre)*	VP7-6-FIG-D-□-Q	20 (1079.65) [14.4 (785.2)]	3	0.06 or less	0.73

Note 1) Min. operating frequency: Based on JIS B8375 (once in 30 days). Note 2) According to JIS B8375-1975 dynamic performance test. (0.5MPa, Coil temperature: 20°C,

At rated voltage, Without surge voltage suppressor)

Note 3) Without sub-plate. (Sub-plate: 0.37kg)

Note 4) []: In normal position.

Permits Long Period Intermediate Stops.

Mounting a double pilot check spacer makes it possible to keep a cylinder in the mid stroke position for a long time without influence of air leakage between spool valves.



⚠ Caution

For 3 position double pilot check valve, make sure that there is no leakage from the piping between valve and cylinder or from the fitting parts, checking it with solvent like neutral detergent solution. Leakage from sealant of cylinder should be checked. If any leakage occurs, cylinder piston may not stop at the mid position and be movable when the valve is de—energized.

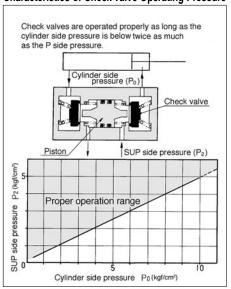
Note:

Please note that single subplates and manifolds have changed colour from platinium silver to white as standard. Valves will remain platinium silver.

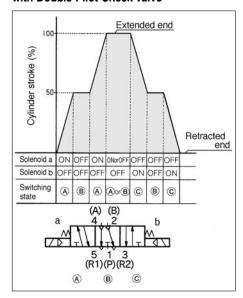
Double Pilot Check Spacer Specifications

Part number	VV71-FPG			
Applicable solenoic	Applicable solenoid valve			Exhaust center)
	Solenoid on one side	Solenoid on one side		50 or less
	being energized		R2	50 01 less
Leakage	Solenoid on both sides being de-energized	Р	R1	50 or less
cm ³ /min(ANR)		Г	R2	50 01 less
		Α	R1	0
		В	R2	0

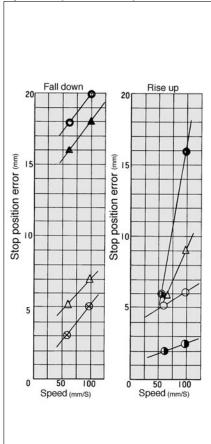
Characteristics of Check Valve Operating Pressure



Mid Stroke Cylinder Position Holding Circuit with Double Pilot Check Valve

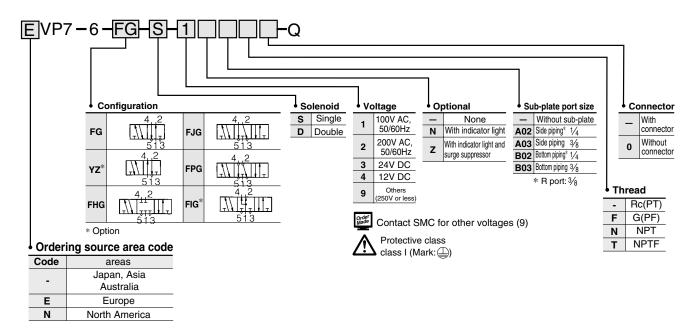


Cylinder Speed and Stop Position Error



	nder		Cylinder	Loadir	ng ratio	
ø50-450 st ø80-450 st		pressure	load	ø50	ø80	
<u> </u>		0.2MPa	25kg	51%	28%	
	$\overset{-}{\otimes}$	5	25	25	11	
-0-	-0-	2	35	72	39	
-&-	-&-	5	35	36	16	

How to Order



Precautions

Be sure to read before handling. Refer to p.0-33 to 0-36 for Safety Instruction and common precautions.

⚠ Caution

DIN connector(Wiring)

•Solenoids are connected to the male pin terminal on the DIN connector terminal block as follows. Connect to each terminal block on the connector part.



Terminal	
1	A side
2	B side
3	СОМ
Ť	Ground

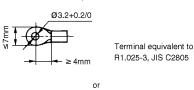
Either+COM or -COM is applicable.

Applicable cable

Core wire effective sectional area: 0.5 to 1.5mm²

Cable O. D.: ø6.8 to ø10

 Applicable crimp style terminal As shown below;

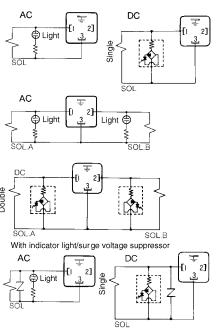


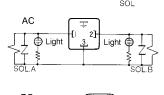


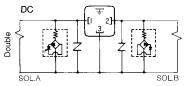
●Appropriate tightening torque of the connector part Connector fixing thread 0.5 to 0.6 Nm Terminal thread 0.5 to 0.6Nm

Indicator Light/Surge Voltage Suppressor

With indicator light







SMC

Interface Regulator Specifications

Specifications

Model	ARB250				
Applicable solenoid	/alve	VP7-6			
Regulation port		Α	В	Р	
Max.operating pres	sure	1	1.0MPa ⁽¹⁾		
Set pressure range	Э	0.1 to	0.1 to 0.83MPa (2)		
Ambient and fluid t	emp	5 to 60° (3)			
Gauge port size			1/8		
Weight (kg)			0.55		
Supply eff. area (mm ²)	P–A	15	16	13	
S at P1=0.7MPa, P2=0.5MPa	P–B	16	16	11	
Exhaust eff. area (mm²) A–EA S at P2=0.5MPa B–EB		25			
			18		

Note 1) Solenoid valve max. operating press. : 0.9MPa Note 2) Set within the solenoid valve operating pressure range.

Note 3) Solenoid valve: Max. 50°C
Note 4) Effective area shown in the above table is the synthesized value with 2 position (single)

type. Note 5) Interface regulator: Pressurize only from P port of the base except when used with

reverse pressure valve.

•Use the ARB210 or ARB310 model to combine a pressure center valve and the A and B port pressure reduction of an interface

regulator.

•Use the ARB210 or ARB310 model to combine a reverse pressure valve and an interface regulator. The P port pressure reduction cannot be used.

To use a double pilot check valve and an

interface regulator, use a manifold or a sub-plate the standard and stack in the following order: as the double pilot check interface, an interfacer regulator, and the valve.

•When a closed center valve is combined

with the A and B port pressure reduction of an interface regulator, it cannot be used for intermediate stops of the cylinder because of the leakage from the relief port of the regulator.

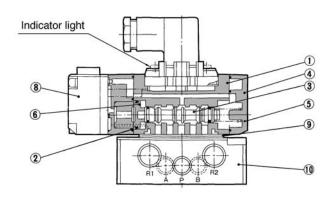
How to Calculate Flow Rate

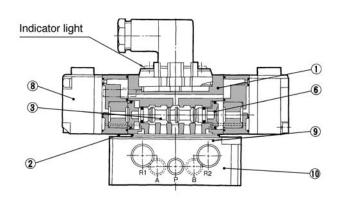
Refer to p.0-36 for flow rate calculation.

Construction

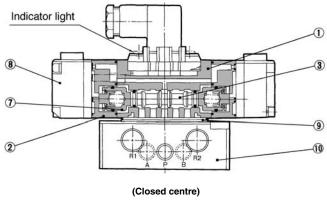
Single: VP7-6-FG-S-□□-Q

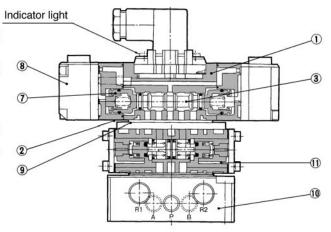
Double: VP7-6-FG-D-□□-Q





Closed centre: VP7-6-FHG-D-□□-Q Exhaust centre: VP7-6-FJG-D-□□-Q Pressure centre: VP7-6-FIG-D-□□-Q Double pilot check: VP7-6-FPG-D-□□-Q





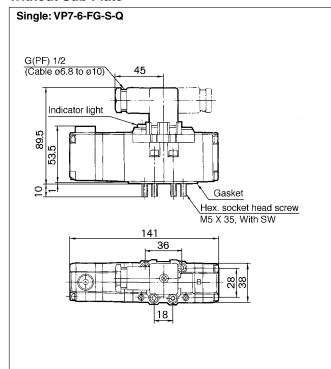
Component Parts

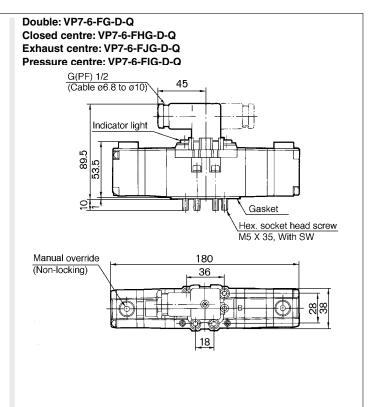
No.	Description	Material		
1	Body	Aluminum die cast		
2	Adapter plate	Aluminum die cast		
3	Spool valve	Aluminum, NBR		
4	End cover	Aluminum die cast		
5	Spool spring	Stainless steel		
6	Piston	Resin		
7	Piston ass'y	Aluminum and others		

Replacement Parts

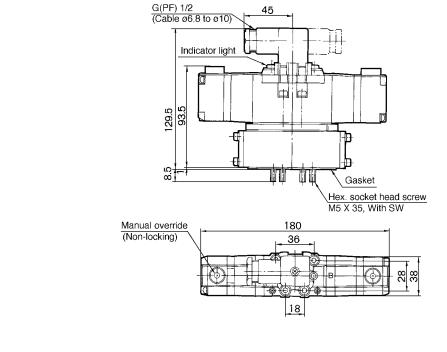
No.	Description	Part No.	Material
8	Pilot valve ass'y	AXT511B-□	
9	Gasket	AXT500-13	NBR
10	Sub-plate	VS7-1-□	Aluminum die cast
11)	Double pilot check spacer	VV71-FPG	

Without Sub-Plate



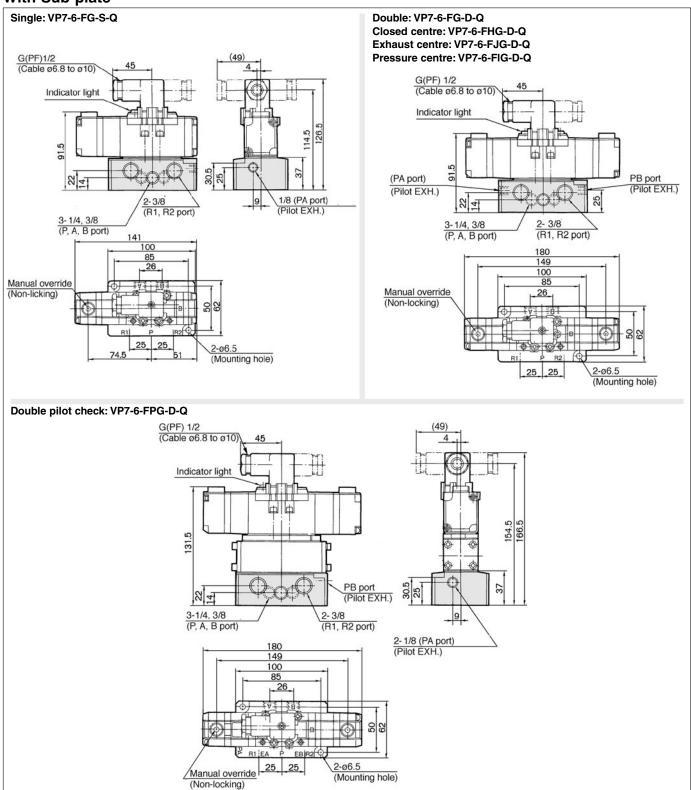


Double pilot check: VP7-6-FPG-D-Q

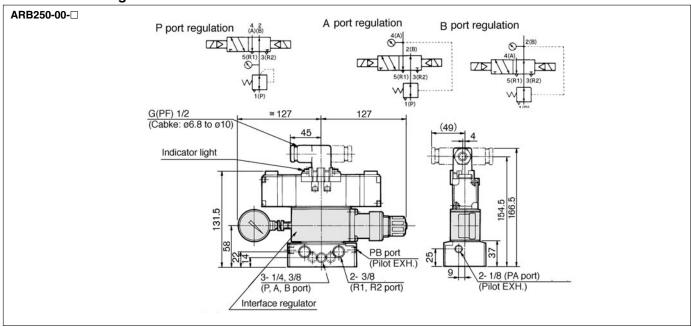


VP7-6

With Sub-plate



With Interface Regulator



Sub-plate: Series VS7-1

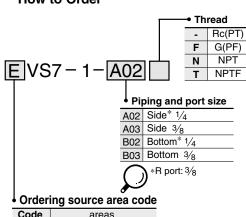




Applicable solenoid valve	ISO size 1	
Sub-plate size	ISO size 1	
District*	Side piping,1/4 3/8	
Piping*	Bottom piping,1/4 3/8	
Weight	0.37kg	

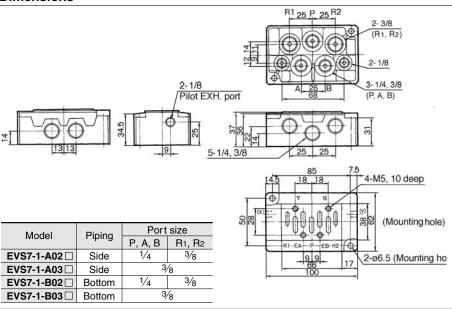


How to Order

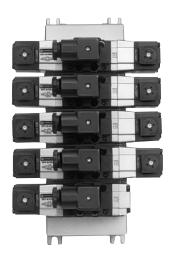


Code	areas
	Japan, Asia
-	Australia
E	Europe
N	North America

Dimensions



Series VP7-6 Manifold



Note:

Please note that single subplates and manifolds have changed colour from platinium silver to white as standard. Valves will remain platinium silver.

Specifications

Manifold block size		ISO size 1
Applicable solenoid valve		ISO size 1 series
Station		1 to 10 stations*
District	A, B port	1/4, 3/8 One-touch fitting ø6, ø8, ø10
Piping	P, R1, R2 port	1/4, 3/8 One-touch fitting ø12
Individual SUP spacer		W71-P-□(02: ¹ / ₄ , 03: ³ / ₈ , C10:ø10)
Individual EXH spacer		VV71-R-□(02: 1/4, 03: 3/8, C12:ø12)
Block plate (For multiple pressure supply)		AXT502-14
Blank plate		AXT502-9A

^{*}Stations including control unit. (Control unit: equivalent to 2 stations.)

Series VV71 manifold provides a wide variety of functions and piping methods. Most suitable type to the operation purpose can be found in the product line-

Common Exhaust

Air supply and exhaust to each valve are performed with P and R ports which run through the connected manifold. This is the most popular among users.



Multi Level Pressure Supply

Two or more different levels of pressure are supplied into one manifold.

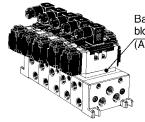
 Place a block plate("AXT502-14")among stations whose pressure levels are different.
 If supplying two different levels of P pressure, place it from the right/left directions of manifold.
 If ">2",useanIndividualSUPspacer ("VV71-P-□").

Bottom Piping/1/4, 3/8(A/B port)

In case piping from the side disturbs the sight or in case there is no enough space for side piping, A/B port can be piped from the bottom of manifold.

Main Exhaust Back Pressure Block

• If the number of stations simultaneously operated is large it may cause trouble with back pressure of the main exhaust. Mounting back pressure block plate ("AXT503–37A") makes it possible to prevent the influence of main exhaust back pressure.



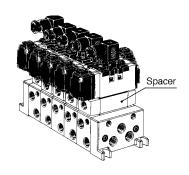
Back pressure block plate (AXT503-37A)

Individual Exhaust

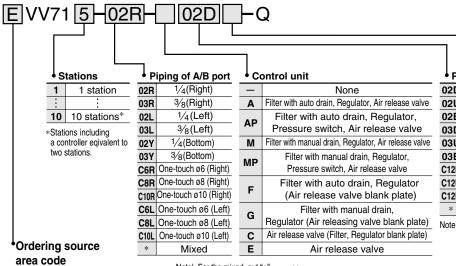
Releases air individually with an individual exhaust spacer("VV71-R-□")on manifold block.

Individual Supply

● Supplies P pressure individually with an individual supply spacer("VV71-P-□") on manifold block.







Piping of P/R1/R2 port 02D $1/_4$ (Bottom) 02U 1/₄ (Top) 02B 1/4(Both sides) 3/8 (Bottom) 03D 03U 3/₈(Top) 3/8(Both sides) 03B C12D One-touch ø12 (Bottom) One-touch ø12 (Top) C12U One-touch ø12 (Both sides) C12B Mixed

9 (250V or less) Contact SMC for other voltages (9)

Protective class

class I (Mark: 4)

Rated coil voltage of

W/o air release valve

100V AC, 50/60Hz

200V AC, 50/60Hz

24V DC

12V DC

Others

air releasing valve

1

2

3

4

Note) For mixed, put an "*" and indicate piping specifications separately.

Australia Ε Europe Ν North America

areas

Japan, Asia

Note) For the mixed, put "*" mark and indicate

piping specifications separately.

Manifold exploded view see page 1.9-23 for details.

Manifold Control Unit

Piping can be simplified by mounting control equipment like air filters, regulators, air release valve and the like to a manifold as a unit.

Control units

Code

Symbol for ordering Control equipment	_	A	ΑP	М	MP	F	G	С	E
Air filter with auto drain		0	0			0			
Air filter with manual drain				0	0		0		
Regulator		0	0	0	0	0	0		
Air release valve		0	0	0	0			0	0
Pressure switch			0		0				
Blank plate (Air release valve)						0	0		
Blank plate (Filter, Regulator)								0	
No. of necessary manifold blocks for mounting		2	2	2	2	2	2	2	1

Control Unit Specifications

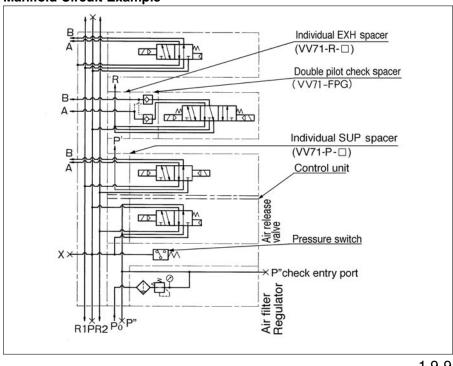
Air filter (With auto	drain/With manual drain)
Filtration	5μm
Regulator	
Set pressure (Secondary pressure)	0.05 to 0.85MPa
Pressure switch	
Pressure setting range	0.1 to 0.7MPa
Contact structure	1ab
Rated current	(induced load) 125V AC 3A, 250V AC 2A
Air release valve (Single only)
Operating pressure range	0.15 to 0.9MPa

Options

Blank plate Blank plate AXT502-18A (For air release valve adapter plate) MP2 (For controller/Filter regulator) MP3 (For pressure switch) Air release valve adapter plate AXT502-17A VAW-A (Adapter plate/Filter with)			AXT502-9A (For manifold)
Blank plate adapter plate) MP2 (For controller/ Filter regulator) MP3 (For pressure switch) Air release valve adapter plate VAW-A (Adapter plate/Filter with)			AXT502-18A
Air release valve adapter plate MP2 (For controller/Filter regulator) MP3 (For pressure switch) AXT502-17A VAW-A (Adapter plate/Filter with			l ,
MP2 (For controller/ Filter regulator) MP3 (For pressure switch) Air release valve adapter plate AXT502-17A VAW-A (Adapter plate/Filter with)		Blank plate	adapter plate)
Air release valve adapter plate MP3 (For pressure switch) AXT502-17A VAW-A (Adapter plate/Filter with)			MP2 (For controller/
Air release valve adapter plate AXT502-17A VAW-A (Adapter plate/Filter with			Filter regulator)
adapter plate AXT502-17A VAW-A (Adapter plate/Filter with			MP3 (For pressure switch)
VAW-A (Adapter plate/Filter with		Air release valve	AVT500 17A
(Adapter plate/Filter with		adapter plate	AX1302-17A
` ' '			VAW-A
			(Adapter plate/Filter with auto drain cock/Regulator)
		Controller	VAW-M(Adapter plate/
			Filter with manual drain
VAW-M(Adapter plate/			cock/Regulator)
VAW-M(Adapter plate/ Filter with manual drain		Pressure switch	IS3100-02 (2-M5 X 12)

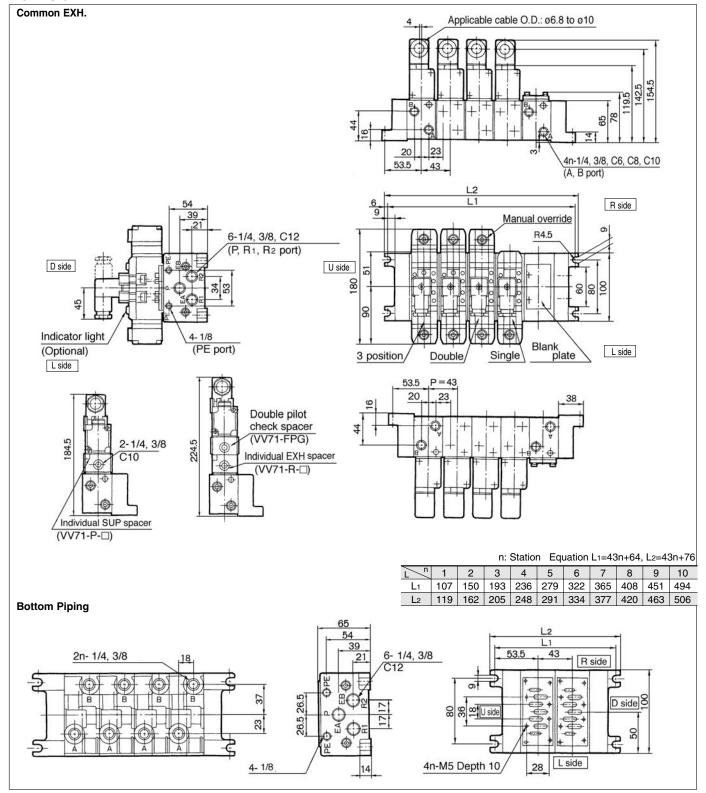
Spacer for rev	erse pressure	AXT502-21A-1 (3/8)
Spacer for R ₁ /R	2/Individual EXH	VV71-R2-03
Interface sp	eed control	AXT503-23A
Adapter plat cylinder	e for lock up	AXT502-26A
With interface regulator	Relief	P (P port regulation) ARB250-00- A (A port regulation) B (B port regulation)
Main EXH. back	press. proof block	AXT503-37A
Silencer for	pilot EXH.	AN110-01
Residual press. rel	ease valve interface	VV71-R-AB
Individual SUF residual press	spacer with release valve	VV71-PR-□ 02: 1/ ₄ 03: 3/ ₈
Double pilot ch residual press.	eck spacer with release valve	VV71-FPGR

Manifold Circuit Example

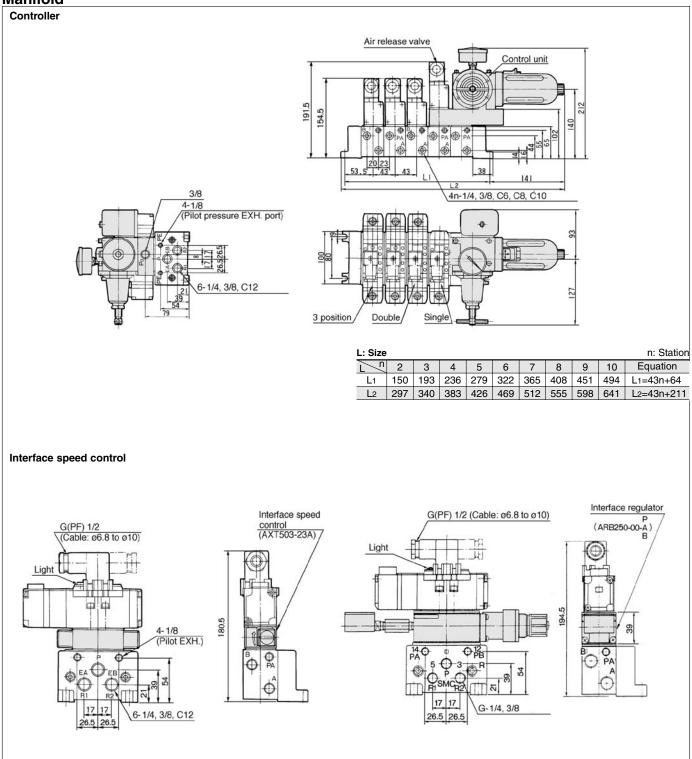


VP7-6

Manifold



Manifold



ISO Standard Solenoid Valve/SIZE 2 **Rubber Seal** Series VP7-8





With interface regulator

	Single solenoid (FG-S)	Double solenoid (FG-D)	Reverse pressure* (YZ-S)	Reverse pressure* (YZ-D)
2 position	14 4 2 12 513	14 4 2 12 12 513	14 4 2 12 513	14 4, 2 12 ZD 313
	Closed centre (FHG-D)	Exhaust centre (FJG-D)	Double pilot check (FPG-D)	Pressure centre* (FIG-D)
3 position	14 4 2 12 12 M 12 513	14 4 2 12 12 12 12 513	14 4 2 12	14 4 2 12 12 513

^{*}Option

Standard Specifications

Fluid			Air	
Operating pressure	Single	2 position	0.15 to 0.9	
Operating pressure (MPa)	Double	2 position	0.1 to 0.9	
(IVII a)	Double	3 position	0.15 to 0.9	
Ambient and fluid to	emperature		Max. 50°C	
Manual operation			Non-locking	
Electric entry			DIN connector	
Lubrication			Turbine oil class 1 (ISOVG32), Non-lube operation possible.	
Shock/Vibration res	sistance (1)		300/50m/s ²	



Note 1) Shock resistance: No malfunction resulted from the impact test using a drop impact tester.

The test was performed on the axis and right angle direction of the main valve and armature, for both energized and de-energized states. Vibration resistance: No malfunction occurred in a one-sweep test between 8.3 and 2000Hz.

Test was performed at both energized and de-energized states to the axis and right angle direction of the main valve and armature. (value in the initial stage.)

Pilot Valve Specifications

Part No.	AXT511C-1	AXT511C-2	AXT511C-3	AXT511C-4	
Rated voltage (V)	100V AC 50/60Hz	200V AC 50/60Hz	24V DC	12V DC	
Inrush current (A)(1)	0.049/0.043	0.024/0.021	0.075	0.15	
Holding current (A)(1)	0.031/0.020	0.015/0.01	0.075	0.15	
Allowable voltage (V)	85 to 110% of rated voltage				
Coil insulation		Class B (130°C) or equivalent		



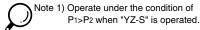
Note 1) At rated voltage

Accessories

Mounting screw (washer)	TA-B-6 X 45
Gasket	AXT510-13

Option

Protection circuit	Surge voltage suppressor
Reverse pressure (1)	R1/R2 port pressurized, R1=P1 pressure, R2=P2 pressurization



Interface Regulator (Options)

Model	Regulation port	Note
ARB350-00-P	Р	Pofor to p 1 0 14
ARB350-00-A	Α	Refer to p.1.9-14 for specifications.
ARB350-00-B	В	Tor specifications.

Model

No. of positions	Model	Effective area (3/8With sub-plate) (mm²)(Nt/min)	Max. operating frequency (c/s)	Response time (S)	Weight (3) (kg)
2(Single)	VP7-8-FG-S-□	65 (3533.40)	5	0.05 or less	0.92
2(Double)	VP7-8-FG-D-□	65 (3533.40)	5	0.05 or less	1.12
3(Closed centre)	VP7-8-FHG-D-□	57.6 (3140.80)	3	0.07 or less	1.12
3(Exhaust centre)	VP7-8-FJG-D-□	57.6 (3140.80)	3	0.07 or less	1.12
3(Double pilot check)	VP7-8-FPG-D-□	40 (2159.30)	3	0.07 or less	1.52
3(Pressure centre)*	VP7-8-FIG-D-□	57 (3111.36) [30.6 (1668.,55)]	3	0.07 or less	1.12

Note 1) Min. operating frequency: According to JIS B8375 (once in 30 days).

Note 2) According to JIS B8375-1975 dynamic performance test.(0.5MPa, Coil temperature: 20°C, At rated voltage, Without surge voltage suppressor)

Note 3) Without sub-plate. (Sub-plate: 0.68kg)

Note 4) []: In normal position.

Permits Long Period Intermediate Stops.

Mounting a double pilot check spacer makes it possible to keep a cylinder in the mid stroke position for a long time without influence of air leakage between spool valves.



For 3 position double pilot check valve, make sure that there is no leakage from the piping between valve and cylinder or from the fitting parts or so, checking it with solvent like neutral detergent solution. Leakage from sealant of cylinder should be checked. If any leakage occurs, cylinder piston may not stop at the mid position and be movable when the valve is de-energized.

Note:

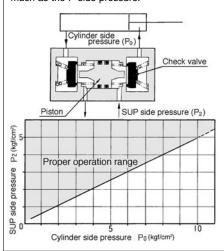
Please note that single subplates and manifolds have changed colour from platinium silver to white as standard. Valves will remain platinium silver.

Double Pilot Check Spacer Specifications

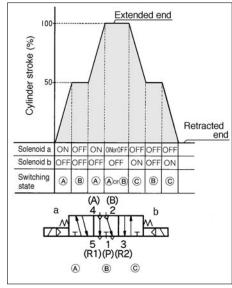
Part number			VV72	-FPG
Applicable solenoi	Applicable solenoid valve		7-8-FJG-D (I	Exhaust center)
	Solenoid on one side	Р	R1	50 or less
	being energized		R2	50 of less
Leakage		Р	R1	50 or less
cm ³ /min (ANR)	cm³/min (ANR) Solenoid on both sides		R2	50 01 less
	being de-energized	peing de-energized A	R1	0
			R2	

Characteristics of Check Valve Operating Pressure

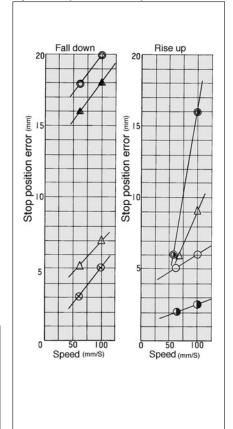
Check valves are operated properly as long as the cylinder side pressure is below twice as much as the P side pressure.



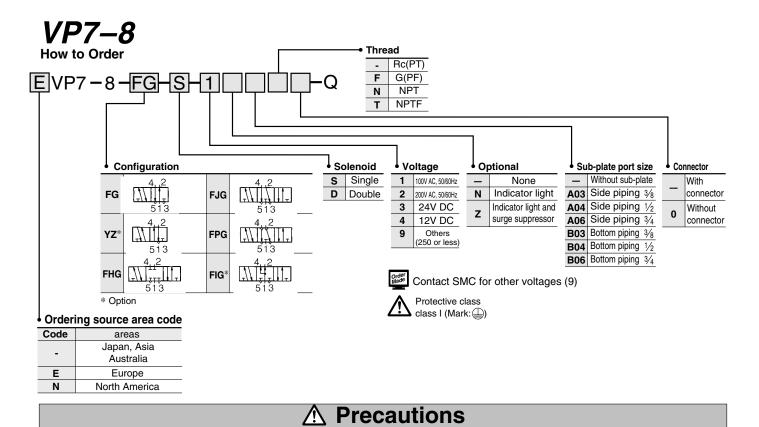
Mid Stroke Cylinder Position Holding Circuit with Double Pilot Check Valve



Cylinder Speed and Stop Position Error



Cylii	nder	Supply Cylinder		Load ratio	
ø50-450 st	ø80-450 st	pressure	load	ø50	ø80
-0-	-0 $-$	0.2MPa	25kg	51%	28%
	$-\otimes$	0.5	25	25	11
_	-0-	0.2	35	72	39
—A—		0.5	35	36	16



Be sure to read before handling. Refer to p.0-33 to 0-36 for Safety Instruction and common precautions.

⚠ Caution

DIN connector (Wiring)

 Solenoids are connected to the male pin terminal on the DIN connector terminal block as follows. Connect to each terminal block on the connector part.



Terminal	
1	A side
2	B side
3	COM
÷	Ground

Either +COM or -COM is applicable.

• Applicable cable

Core wire effective sectional area: 0.5 to 1.5mm2

Cable O.D.: ø6.8 to ø10

Applicable crimp style terminal

As shown below



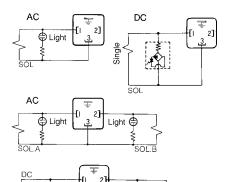


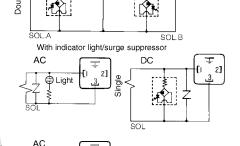
Appropriate tightening torque of the connector part

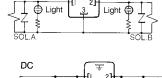
Connector fixing thread: 0.5 to 0.6Nm Terminal thread: 0.5 to 0.6Nm

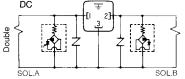
Indicator Light/Surge Suppressor

With indicator light









Interface Regulator Specifications

Specifications

Model		,	ARB350)
Applicable solenoid valve			VP7-8	
Regulation port		Α	В	Р
Max. operating pres	sure	1.	1.0MPa ⁽¹⁾	
Set pressure range)	0.1 to	0.83M	Pa ⁽²⁾
Ambient and fluid t	emp.	5 to 60° (3)		
Gauge port size		1/8		
Weight (kg)			0.83	
Supply eff. area (mm²)	P→A	40	31	27
S at P1=0.7MPa, P2=0.5MPa	Р→В	31	34	27
Exhaust eff. area (mm²)	A→EA		60	
S at P2=0.5MPa	В→ЕВ		53	

- Note 1) Solenoid valve max. operating pressure:
- Note 2) Set within the solenoid valve operating pressure range.
- Note 3) Solenoid valve: Max. 50°C
- Note 4) Effective area shown in the above table is the synthesized value with 2 position (single) type.

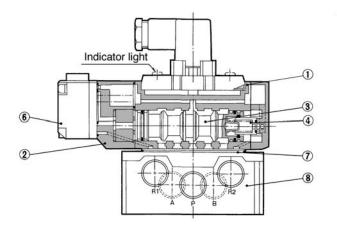
 •interface regulator: Pressurize only from P
- Note 5) port of the base except when used with reverse pressure valve.
 - Use the ARB210 or ARB310 model to combine a pressure center valve and the A and B port pressure reduction of an interface regulator.
 - •Use the ARB210 or ARB310 model to combine a reverse pressure valve and an interface regulator. The P port pressure reduction cannot be used.
 - ●To use a double pilot check valve and an interface regulator, use a manifold or a subplate the standard and stack in the following order: as the double pilot check interface, an interfacer regulator, and the valve.
 - •When a closed center valve is combined with the A and B port pressure reduction of an interface regulator, it cannot be used for intermediate stops of the cylinder because of the leakage from the relief port of the regulator.

How to Calculate Flow Rate

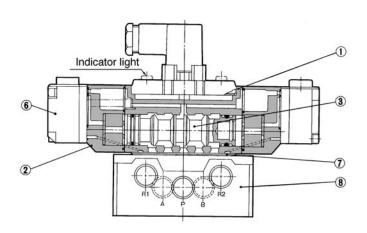
Refer to p.0-36 for flow rate calculation.

Construction

Single: VP7-8-FG-S-□-Q



Double: VP7-8-FG-D-□□-Q

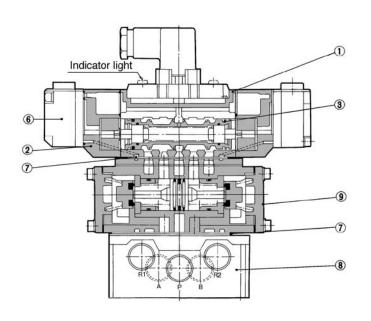


Closed centre: VP7-8-FHG-D-D-□□-Q Exhaust centre: VP7-8-FJG-D-□□-Q

Pressure centre: VP7-8-FIG-D-□-Q

(Closed centre)

Double pilot check: VP7-8-FPG-D-□□-Q



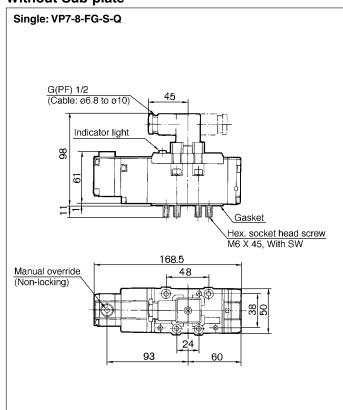
Component Parts

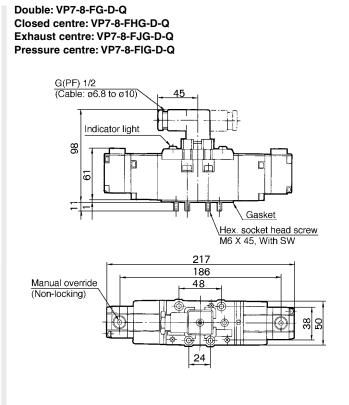
No.	Description	Material
1	Body	Aluminum die cast
2	Adapter plate	Aluminum die cast
3	Spool ass'y	Aluminum, NBR, etc.
4	End cover	Aluminum die cast
(5)	Spool spring	Stainless steel

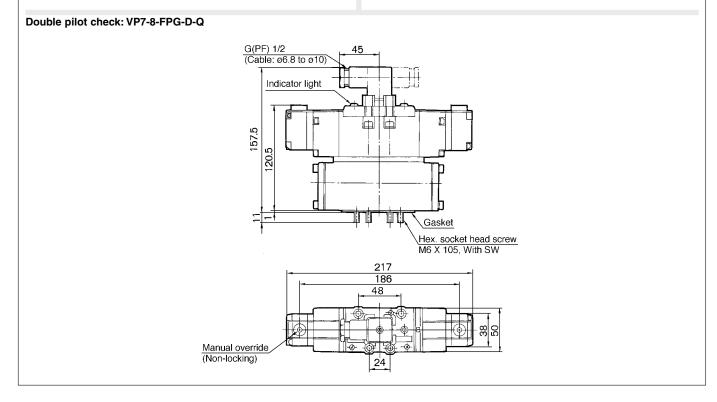
Replacement Parts

No.	Description	Part No.	Material
6	Pilot valve ass'y	AXT511C-□	
7	Gasket	AXT510-13	NBR
8	Sub-plate	VS7-2-□	Aluminum
9	Double pilot check spacer	VV71-FPG	

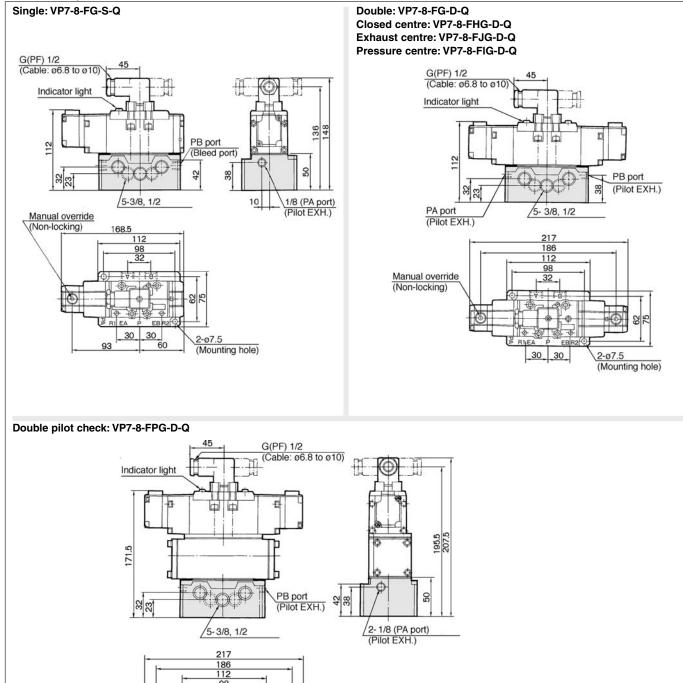
Without Sub-plate







With Sub-plate

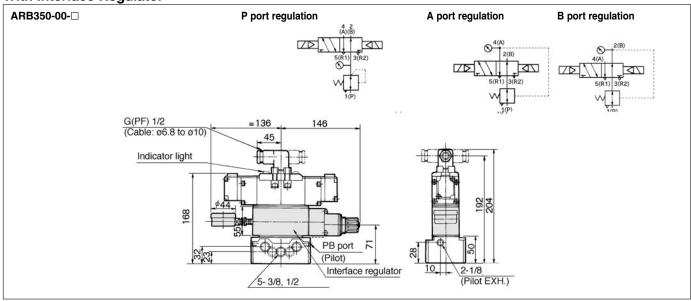


2-ø7.5 (Mounting hole)

30 30

Manual override (Non-locking)

With Interface Regulator



Sub-plate: Series VS7-2

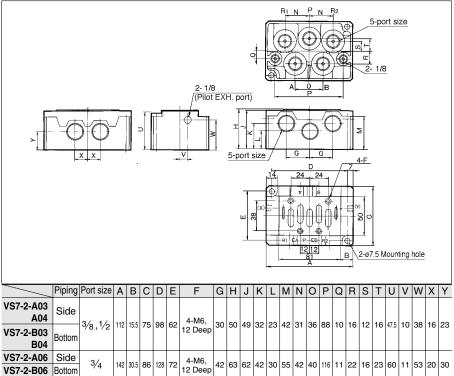


How to Order

Specifications

Applicable solenoid valve	ISO size 2
Sub-plate size	ISO size 2
Dia is a	Side piping: 3/8 1/2, 3/4
Piping	Bottom piping: 3/8 1/2, 3/4
Weight	0.68 (3/8 ,1/2) 1.29 (3/4)
	(10)

Dimensions



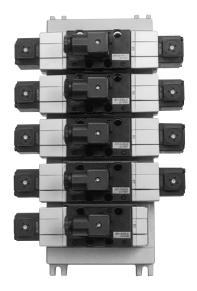
Note:

Please note that single subplates and manifolds have changed colour from platinium silver to white as standard. Valves will remain platinium silver.



Series VP7-8

Manifold



Note:

Please note that single subplates and manifolds have changed colour from platinium silver to white as standard. Valves will remain platinium silver. **Specifications**

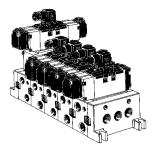
Manifold block size		ISO size 2
Applicable Solenoid valve		ISO size 2 series
Stations		1 to 10 stations
District	A/B port	3/8 1/2
Piping	P/R1/R2 port	1/2 3/4
Individual SUP Spacer	•	VV72-P-□ (03: 3/ ₈ , 04: 1/ ₂)
Individual EXH Spacer		VV72-R-□ (03: 3/ ₈ , 04:1/ ₂)
		AXT512-14-1A(For P port)
Block plate (For multiple pr	essure supply)	AXT512-14-2A(For R1/R2 port)
Blank plate		AXT512-9A

VV72

manifold gives a wide variety of functions and piping methods. Most suitable type for the operation can be found in the product line—up.

Common Exhaust

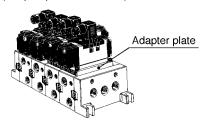
Air supply and exhaust to each valve are performed with P and R ports which runs through the connected manifold.



V Type

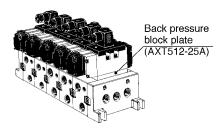
Type that valves of different body sizes can be combined.

(Adapter plate: VV72-V-1)



Main Exhaust Back Pressure Block

If the number of stations simultaneously operated is large it may cause a trouble with back pressure of the main exhaust. Mounting back pressure block plate ("AXT512–25A")makes it possible to prevent the influence of main exhaust back pressure.



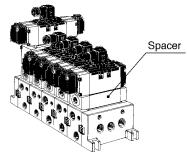
Individual Exhaust

R ports are independent for each valves.

● Releases air individually with an individual exhaust spacer ("VV72-R-□") on manifold block.

Individual Supply

● Supplies P pressure individually with an individual supply spacer ("VV72-P—□") on manifold block.



Multi Level Pressure Supply

Two or more different levels of pressure are supplied into one manifold.

● Place a block plate("AXT512-14-1A") among stations whose pressure levels are different. If supplying two different levels of P pressure, place it from the right/left directions of manifold. If more than two, use an Individual SUP spacer("VV72-P-□").

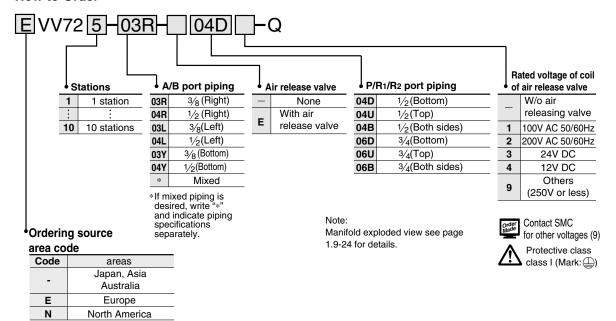
Bottom Piping (3/8, 1/2)

In case piping from the side obstructs view the sight or in case there is not enough space for side piping A/B port can be piped from the bottom of manifold.



VP7-8

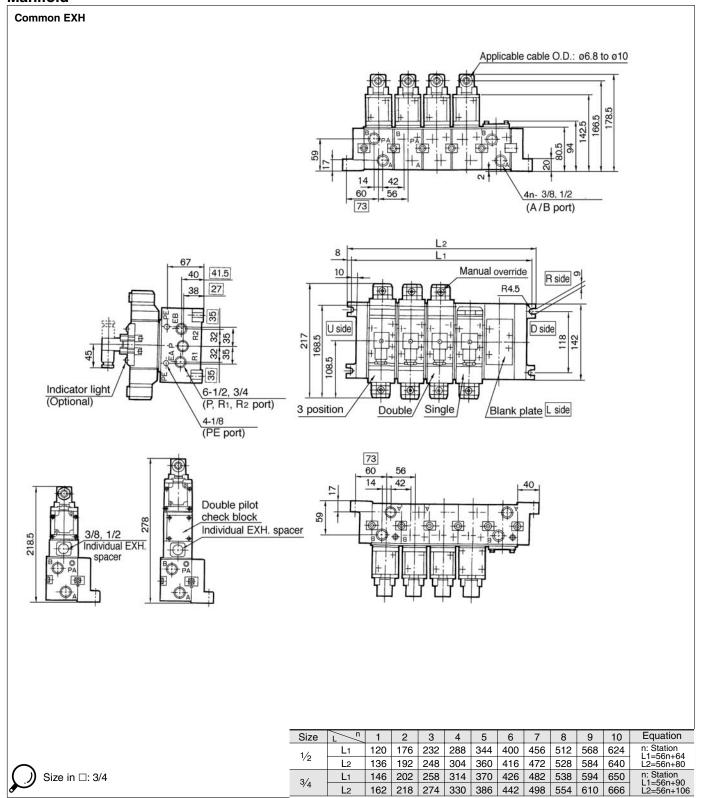
How to Order



Options

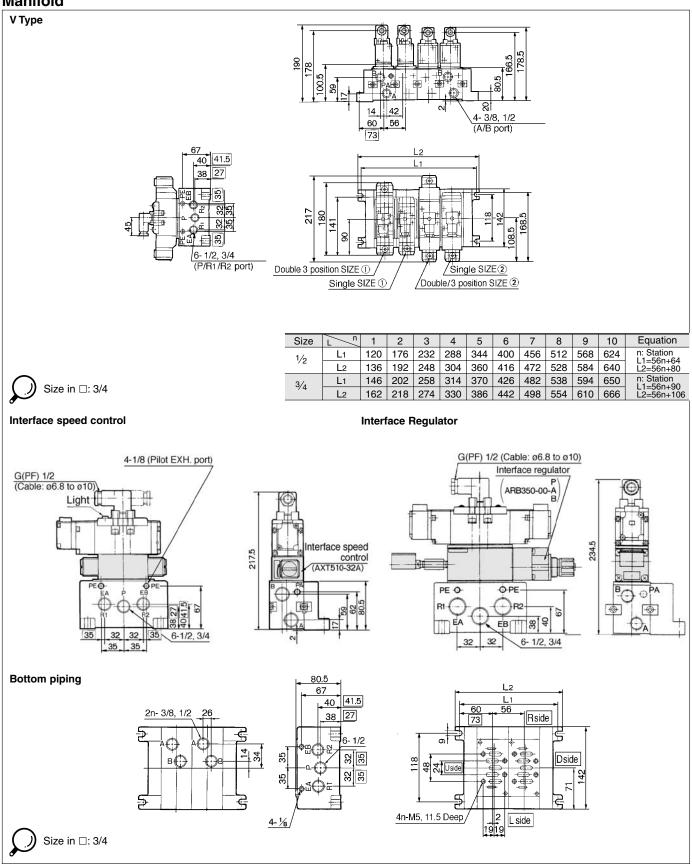
<u>optiono</u>		
		AXT512-9A
Blank plate		AXT512-18A For air releasing valve adapter plate
Air release valve	adapter plate	AXT512-17A
With interface regulator	Relief	P(P regulation) ARB350-00-A(A regulation) B(B regulation)
Spacer for reverse pressure		AXT512-19A-1(3/8) AXT512-19A-2(1/2)
Spacer for R ₁ /R ₂ individual EXH.		VV72-R2-04
Interface speed control		AXT510-32A
Main EXH. back pressure block plate		AXT512-25A
Silencer for pilot EXH.		AN110-01

Manifold

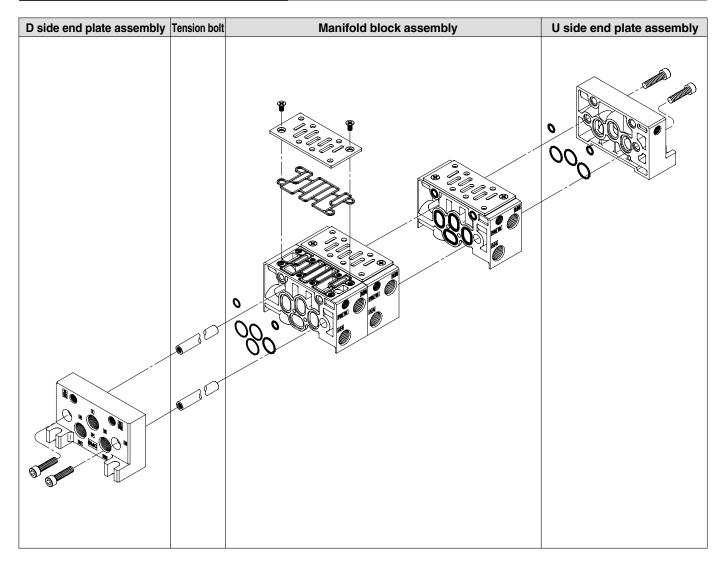


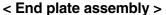
VP7-8

Manifold



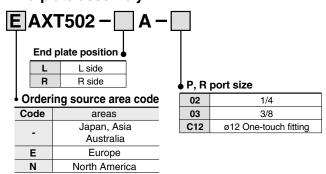
Manifold Exploded View VP7-6



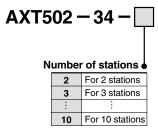


North America

N

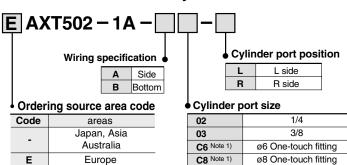


<Tension bolt part number >



Note) These tie-rods are solid pieces for each number of stations.

< Manifold block assembly> * This manifold block assembly includes tension bolts for a single station addition.



C10 Note 1) Ø10

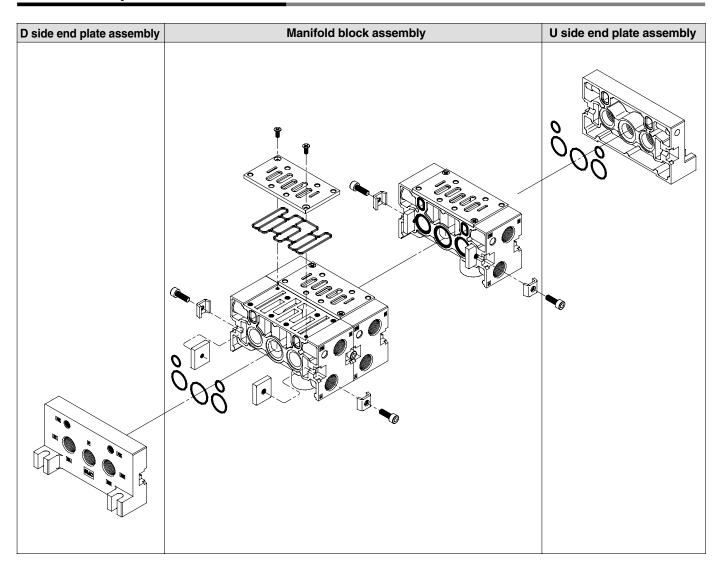
< Manifold block replacement parts >

Part No.	Description	Qty.	Material
AXT502-19	O-ring	4	NBR
AXT502-20	O-ring	2	NBR
AXT502-22-2	Plate	1	SPCC
AXT502-31	Gasket	1	NBR
M4 X 8	Oval countersunk head screw	2	SWRH3

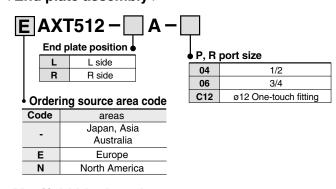


ø10 One-touch fitting

Manifold Exploded View VP7-8



< End plate assembly >



< Manifold block replacement parts>

Cindimola biook replacement partes				
Part No.	Description	Qty.	Material	
AXT512-13	O-ring	2	NBR	
AS568-022	O-ring	1	NBR	
AS568-020	O-ring	2	NBR	
AXT512-5	Gasket	1	NBR	
AXT512-4	Plate	1	SPCC	
M4X10	Oval countersunk head screw	2	SWRH3	
AXT512-6-1	Connection fitting A	2		
AXT512-6-4	Connection fitting B	2		
AXT512-6-3	Hexagon socket head screw	2		

<Manifold block assembly>

