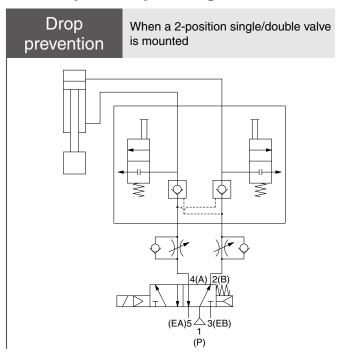
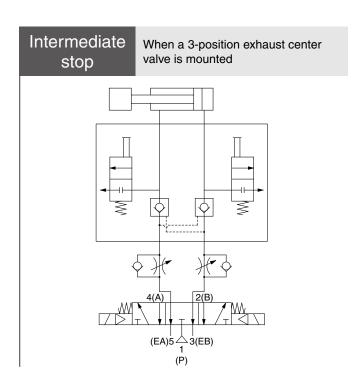
Separate Double Check Block



Drop prevention and temporary intermediate stops of cylinders are possible.

■ Example of Operating Circuit





^{*} Shows the VV71-FPGR-\(\subseteq\)-X299 (with residual pressure release valve)

∆ Caution

Please use the product in accordance with the specifications provided in the catalogs/operation manuals. It is your responsibility to check the suitability for your workpiece and equipment.

Variations

		Applicable bore size [mm]			
		ø40 or less	ø63 or less	ø100 or less	ø140 or less
Model		VQ1000-FPG-□□-□	VQ2000-FPG-□□-□	VV71-FPGR-□-X299	VV72-FPG-06□-X2
Ар	pearance			3. 3.	
Туре	Single unit	•	•	•	•
	Manifold	•	•	● (X296)	_
Residual pressure release valve		•	•	•	_

●: Yes —: None

VQ1000-FPG-□□*-*□/*VQ2000-FPG-*□□*-*□ *VV71-FPGR-*□*-X299/X296 VV72-FPG-06*□*-X2*



How to Order

Double check block with residual pressure release valve

VQ 1 000-FPG-C4M5-Single unit

VQ1000

IN side port size (Refer to the table below.)

VQ2000

OUT side port size (Refer to the table below.)

IN side/OUT side nort size

IN SIGE/OUT SIGE PORT SIZE			
Symbol	Port size VQ1000 VQ20		VQ2000
M5	M5 thread	•	_
01	Rc1/8	_	•
02	Rc1/4	_	•
C3	ø3.2 One-touch fitting	•	_
C4	ø4 One-touch fitting	•	•
C6	ø6 One-touch fitting	•	•
C8	ø8 One-touch fitting	_	•
N3	ø5/32" One-touch fitting	•	_
N7	ø1/4" One-touch fitting	•	•
N9	ø5/16" One-touch fitting	_	•

Option

- P		
Nil	None	
D DIN rail mounting (For manifo		
F With bracket		
N	Name plate	

When 2 or more symbols are specified, indicate them alphabetically.

<Bracket Assembly>

Part no.	Tightening torque
VQ1000-FPG-FB	0.22 to 0.25 N·m
VQ2000-FPG-FB	0.8 to 1.0 N·m

VVQ 1 000 - FPG - 06 Manifold (DIN rail mounting) Body size VVQ1000

VVQ2000

Stations **For VQ1000**

> 01 1 station 16 16 stations

For VQ2000 01 1 station 16 16 stations

<Ordering example>

VVQ1000-FPG-06 ··· 6-station manifold

- VQ1000-FPG-C4M5-D, 3 sets
- VQ1000-FPG-C6M5-D, 3 sets

Double check block single unit

- Select the DIN rail mounting option (symbol "D") for the double check block single unit when ordering.
- * Select the same body size for the double check block and manifold. Different sizes cannot be mixed.

- · Air leakage from the pipe between the valve and cylinder or from the fittings will prevent the cylinder from being able to stop for long periods of time. Check for leakage using a neutral household detergent, such as dish washing soap. Also, check the cylinder's tube gasket, piston seal, and rod seal for air leakage.
- Since One-touch fittings allow slight air leakage, screw piping (with an M5 thread) is recommended when the cylinder is required to perform long intermediate stops.
- · Combining a double check block with a 3-position closed center or pressure center solenoid valve is not possible.
- The M5 fitting assembly comes with the product but is not built into the double check block. After screwing in the M5 fittings, mount the assembly to the double check block.
- · When fittings, etc., are being screwed into the double check block, tighten them with the torque below.

Connection threads	Proper tightening torque [N·m]
M5	0.8 to 1.2
Rc1/8	7 to 9
Rc1/4	12 to 14

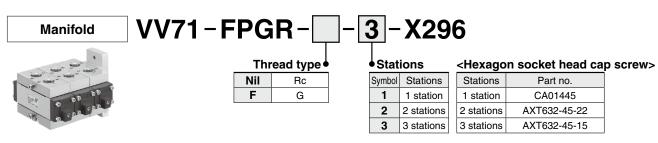
- · If the exhaust of the double check block is restricted too much, the cylinder may not operate properly and may not be able to perform intermediate stops.
- · Set the cylinder load so that the cylinder pressure will be within 2 times that of the supply pressure.



How to Order

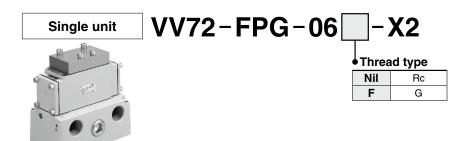
Double check block with residual pressure release valve





* The product number of the single unit does not need to be indicated when ordering the manifold.

Double check block



⚠Caution

- · Air leakage from the pipe between the valve and cylinder or from the fittings will prevent the cylinder from being able to stop for long periods of time. Check for leakage using a neutral household detergent, such as dish washing soap. Also, check the cylinder's tube gasket, piston seal, and rod seal for air leakage.
- · Combining a double check block with a 3-position closed center or pressure center solenoid valve is not possible.
- If the exhaust of the double check block is restricted too much, the cylinder may not operate properly and may not be able to perform intermediate stops.
- Set the cylinder load so that the cylinder pressure will be within 2 times that of the supply pressure.

Specifications

Model	VQ1000-FPG-□□-□	VQ2000-FPG-□□-□	VV71-FRGR-□-X299	VV72-FPG-06□-X2
Fluid	Air			
Proof pressure	1.5 MPa			
Operating pressure range	0.15 to 0.8 MPa		0.1 to 1.0 MPa	
Ambient and fluid temperatures	−5 to 50°C		5 to 60°C	
Sonic conductance [dm3/(s·bar)]	0.6	3.0	3.1	7.2
[Effective area mm ²]	[3]	[15]	[15.5]	[36]
Port size	M5	Rc1/8, 1/4	Rc3/8	Rc3/4
Port size	ø3.2, ø4, ø6, ø5/32, ø1/4	ø6, ø8, ø1/4, ø5/16	G3/8	G3/4
Applicable cylinder size (Reference)	Up to ø40	Up to ø63	Up to ø100	Up to ø140
Pressure difference between the inlet side and outlet side (At a supply pressure of 0.5 MPa)*1	0.1 MPa	0.07 MPa	0.03 MPa	0.02 MPa

st 1 Due to its construction, a pressure difference is generated between the inlet side and outlet side.

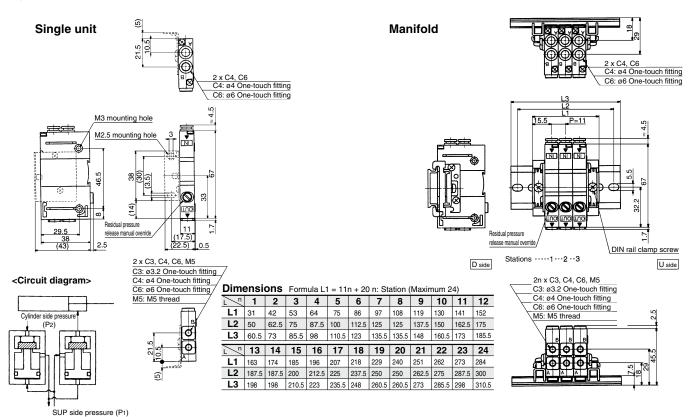


^{*} The same applies to the manifold type.

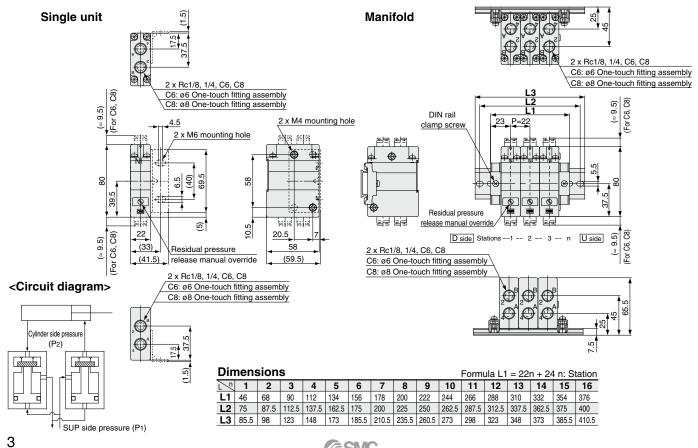
VQ1000-FPG-□□*-*□/*VQ2000-FPG-*□□*-*□ VV71-FPGR-□-X299/X296 VV72-FPG-06□-X2

Dimensions

VQ1000-FPG-□□-□

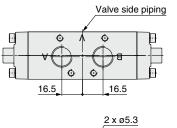


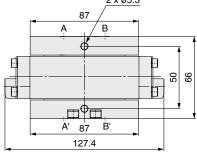


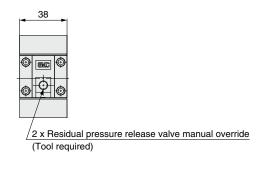


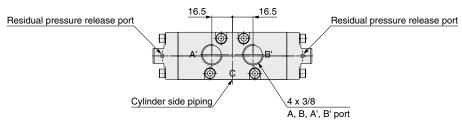
Dimensions

VV71-FPGR-□-**X299**

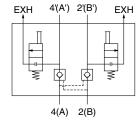








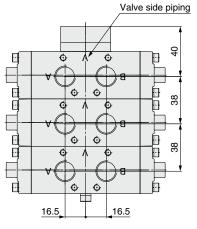
Symbol

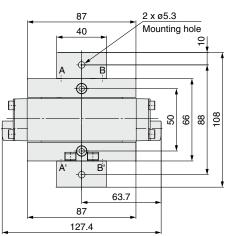


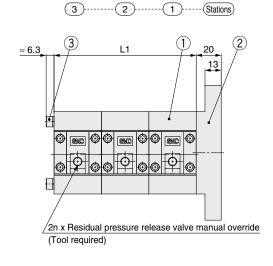


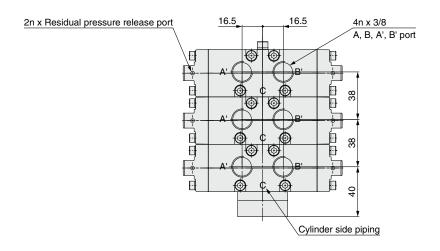
Dimensions

VV71-FPGR-□-**X296**





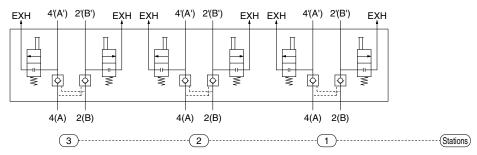




L1 Dimensions

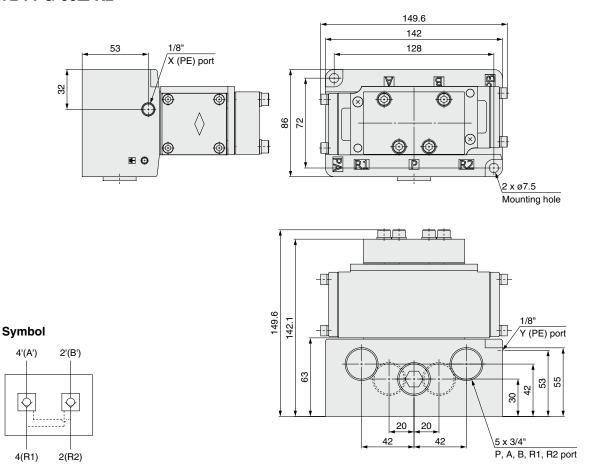
Stations	L1 Dimensions		
1	38		
2	76		
3	114		

Symbol



Dimensions

VV72-FPG-06□-X2



Safety Instructions Be sure to read the "Handling Precautions for SMC Products" (M-E03-3) and "Operation Manual" before use.

SMC Corporation

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