Series VQ7-8 Manifold Specifications



Manifold Specifications

NA. 17.1.1	A	Porting s	pecifications		Weight (kg)	
block size	solenoid valve	2(B), 4(A) port size	1(P), 3(R2) 5(R1) port size	Stations		
ISO size 2	Series VQ7-8 ISO size 2	3/8 1/2	1/2 3/4	Max. 10 stations	0.96n + 0.77 (n: Stations)	

Series VQ7-8

DIN Terminal Type



Bottom ported drawing



L Dimension

P, R1, R2 port	L	1	2	3	4	5	6	7	8	9	10	Formula
1/2	L1	120	176	232	288	344	400	456	512	568	624	n: Stations
	L2	136	192	248	304	360	416	472	528	584	640	L1 = 56n + 64 L2 = 56n + 80
3/4	L1	146	202	258	314	370	426	482	538	594	650	n: Stations
	L2	162	218	274	330	386	442	498	554	610	666	$L^{2} = 56n + 90$ $L^{2} = 56n + 106$

○ (): 3/4 Dimensions inside □ are for rubber seals.



ISO Standard Solenoid Valve: Size 2 Metal Seal/Rubber Seal Series VQ7-8

Pre-wired Connector Type



L Dimension

P, R1, R2 port	L	1	2	3	4	5	6	7	8	9	10	Formula
1/2	L1	120	176	232	288	344	400	456	512	568	624	n: Stations
	L2	136	192	248	304	360	416	472	528	584	640	L1 = 561 + 64 L2 = 56n + 80
3/4	L1	146	202	258	314	370	426	482	538	594	650	n: Stations
	L2	162	218	274	330	386	442	498	554	610	666	$L^{1} = 561 + 90$ $L^{2} = 56n + 106$
\sim (): 3/4												

): 3/4 Dimensions inside are for rubber seals. VK

VZ

VF

VFR

VP4

VZS

VFS

VS4

VQ7

EVS

VFN

Series VQ7-8

Manifold Option Parts

Blanking plate assembly AXT512-9A

It is used by attaching on the manifold block for being prepared for removing a valve for maintenance reasons or planning to mount a spare valve, etc.



Block disk (For SUP/EXH passages) AXT512-14-1A (For SUP) AXT512-14-2A (For EXH)

When two or more different high pressures are supplied to one manifold, blocking plates are installed between stations having different pressures.

Also, in cases such as when valve exhaust effects other stations in a circuit, block disks are used for exhaust at stations where the exhaust is to be separated.



Individual SUP spacer VV72-P- $^{03}_{04}$ \Box

• Thread type						
Nil Rc						
F	G					
Т	NPTF					

By mounting individual SUP spacers on a manifold block, it is possible to provide individual supply ports for each valve.



Individual EXH spacer VV72-R-⁰³



By mounting individual EXH spacers on a manifold block, exhaust ports can be provided individually for each valve. (3, 5 common exhaust type)



Block disk (For pilot EXH passage) AZ512-49A

When a valve's pilot valve exhaust effects other valves in a circuit, block disks are used between stations where the pilot exhaust passages are to be separated.



11	
5	
1	
12	

Throttle valve spacer AXT510-32A

A throttle valve spacer is mounted on a manifold block to control cylinder speed by throttling exhaust air flow.









Manifold Option Parts

Double check spacer VV72-FPG

By combining a 3 position exhaust center valve with a double check spacer, an intermediate stopping position of a cylinder can be held for an extended period. It can also be used for drop prevention at the cylinder stroke end when releasing residual supply pressure, by combining it with a 2 position single or double valve.



Silencer box VV72-000-00-SB

This can be provided as a unit on the end plate to reduce manifold exhaust noise and piping labor.



Double che	eck spacer part no.	VV72-FPG			
Applicable solen	Series VS7-8/VSA7-8				
Leakage (cm ^{3/} min (ANR))	One solenoid energized	Р	R1	280	
	(One pilot pressurized)		R2		
	Both solenoids unenergized (Both pilots unpressurized)	-	R1	000	
		Р	R2	280	
		Α	R1	0	
		В	B2	0	

Interface regulator ARB350-00- 🛓

Spacer Interface regulators can be placed on top of the manifold block to reduce the pressure of each of the valves.









Part No.

P reduced pressure	ARB350-00-P
A reduced pressure	ARB350-00-A
B reduced pressure	ARB350-00-B

A Caution

- When combining a pressure center valve and interface regulator with reduced pressure at ports A and B, use model ARB310-^A_B.
- When combining a reverse pressure valve and interface regulator, use model ARB310-A
 - Further, it cannot be used with reduced pressure at port P.
 - . When combining a double check valve and an interface regulator, use a manifold or sub-plate as a basis, and stack them in the following order; the perfect spacer \rightarrow the interface regulator \rightarrow the valve.
 - When a closed center valve is combined with the interface regulator's A, B port regulation, note that it cannot be used for intermediate stops of a cylinder because there is leakage from relief port on the regulator.



Manifold Option Parts



Manifold Option Parts



Dimensions inside () are for sub-plate aperture Rc 3/8 and 1/2. Dimensions inside are for sub-plate aperture Rc 3/4.

Manifold Option Parts/Mounting Bolt Part No.



VQ7-8 Mounting Bolt Part No.



Note 2) There is no limitation on the mounting position for spacer (1).

Series VQ7-8

Exploded View of Manifold





ISO Standard Solenoid Valve: Size 2 Metal Seal/Rubber Seal Series VQ7-8

Exploded View of Manifold



<End Plate Assembly>



Replacement Parts (For manifold block)

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>

