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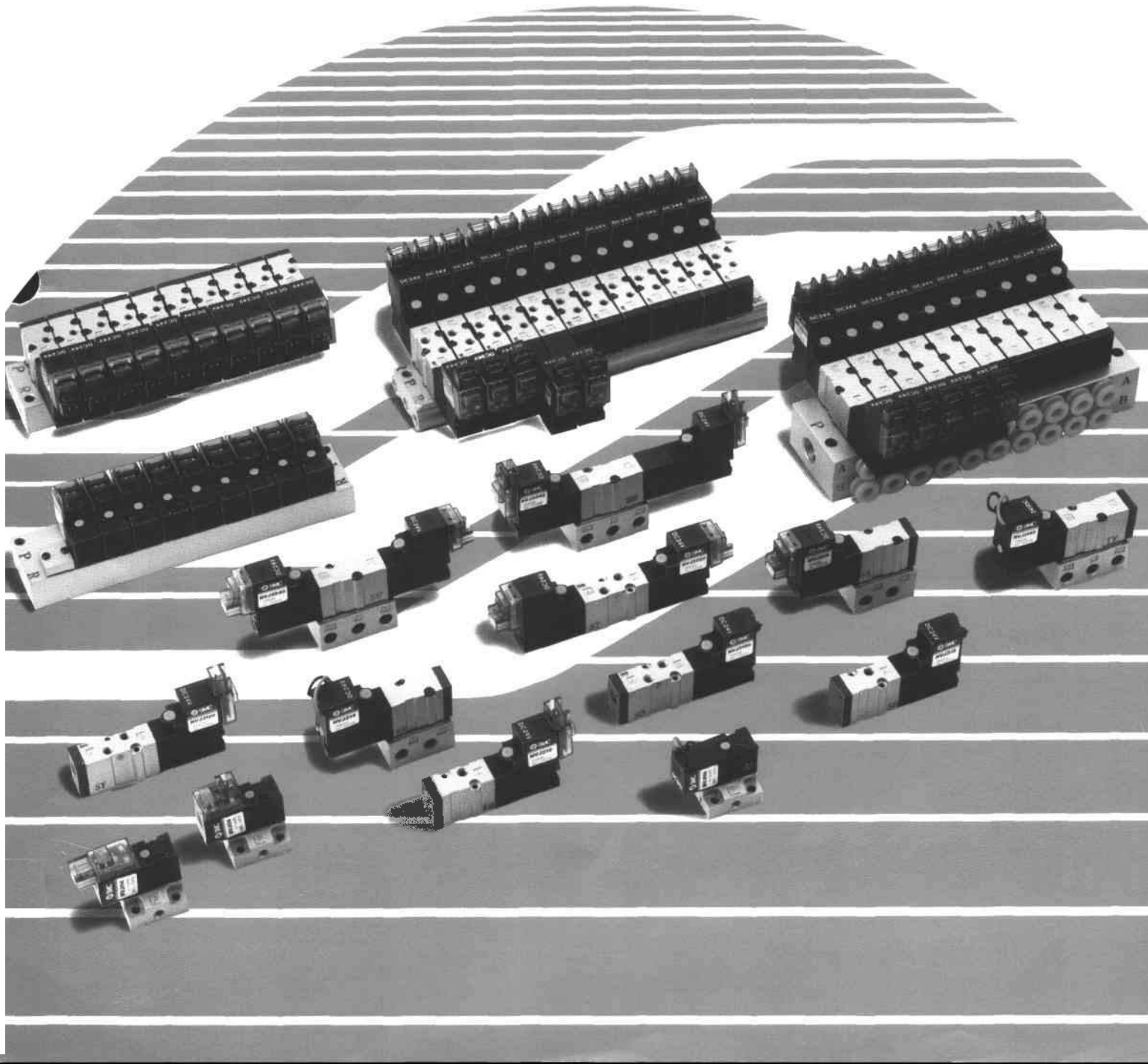
Find the *SMC NVJ314-BMZ* at our website: *Click HERE*

SMC

SMC Pneumatics, Inc.

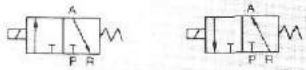
NVJ 100, 300, 3000

3•5 Port Solenoid Valve/Rubber Seal Type

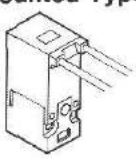


Variation of Series: NVJ

3 Port Direct Solenoid Operated Series: NVJ100



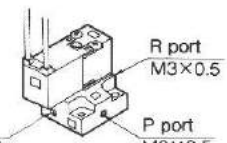
Base Mounted Type



NVJ114 is used as a pilot valve for NVJ300 and NVJ3000

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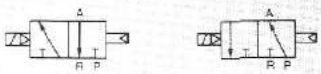
With Subplate



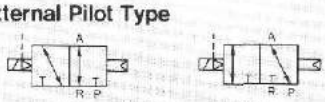
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3 Port Solenoid Pilot Operated Series: NVJ300

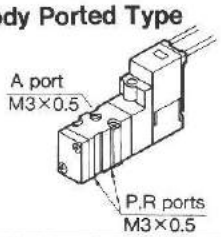
Internal Pilot Type



External Pilot Type

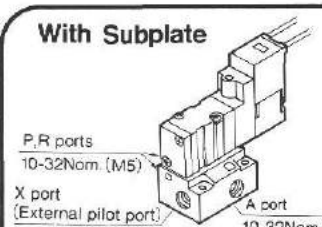


Body Ported Type



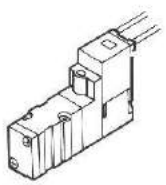
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With Subplate



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Base Mounted Type



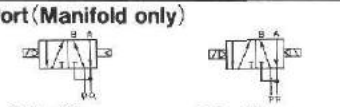
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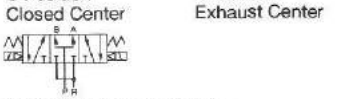
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Refer to page 20

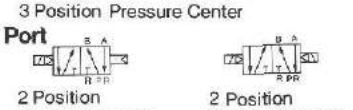
4,5 Port Solenoid Pilot Operated Series: NVJ3000

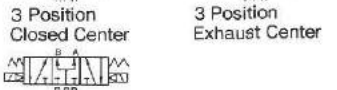
4 Port (Manifold only)



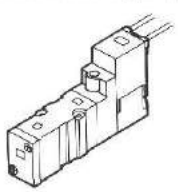


5 Port





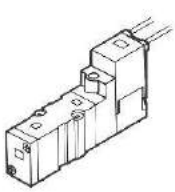
Base Mounted Type (4 Port)



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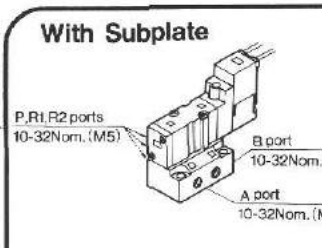
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Base Mounted Type (5 Port)



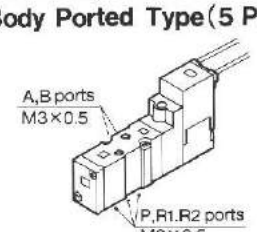
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With Subplate



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Body Ported Type (5 Port)



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Rubber Seal Type
Series: NVJ100•300•3000

1WDC: Power consumption

3 Port, Direct Solenoid Operated Series: NVJ100



Cv Factor: 0.008 (NVJ114)

Width 10mm

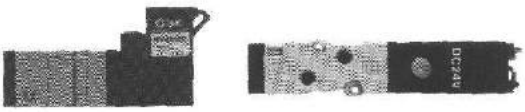
3 Port, Solenoid Pilot Operated Series: NVJ300



Cv Factor: 0.1
(Base Mounted Type With Subplate)

Width 10mm

4•5 Port, Solenoid Pilot Operated Series: NVJ3000



Cv Factor: 0.1
(2 Position Base Mounted Type With Subplate)

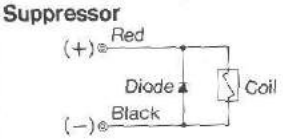
Width 10mm

NVJ100:
Can be used for vacuum application.
NVJ300:
Only external pilot type can be used for vacuum application.

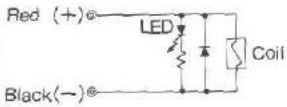
24VDC 12VDC	1W (0.45W)†
6VDC 5VDC 3VDC	1W
110VAC*	1.4W

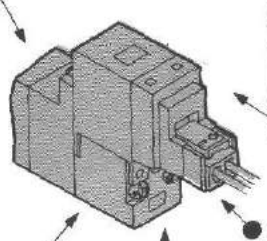
*rectified
†optional low power

With Surge Voltage Suppressor



With Indicator Light and Surge Voltage Suppressor



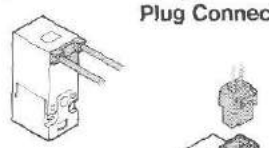


● Surge Voltage Protection Circuit

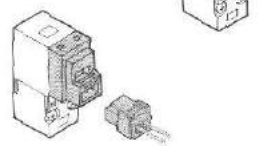
● Electrical Entry

No copper in contact with media.

Grommet **M Type Plug Connector**

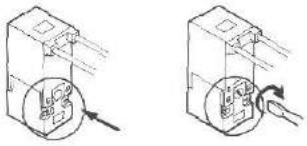


L Type Plug Connector



● Manual Override

Non-Locking Push Type **Slotted locking Type**



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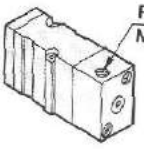
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Air Operated Valve: NVJA

3 Port Air Operated Valves
Series: NVJA300

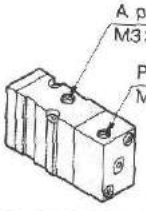


Base Mounted Type



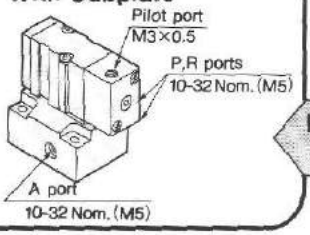
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Body Ported Type



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With Subplate



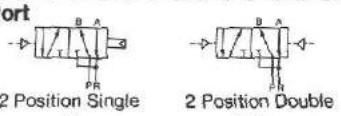
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Manifold

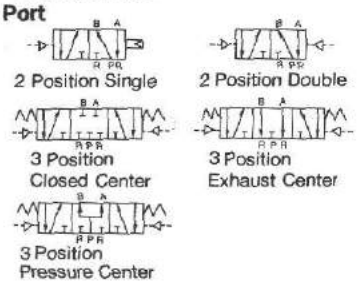
Same as NVJ300 Series manifold base Type 20, 41, S41, 42, S42.

4 Port, 5 Port Air Operated Valves
Series: NVJA3000

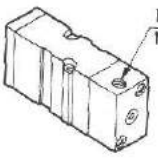
4 Port



5 Port

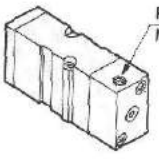


Base Mounted Type (5 Port)



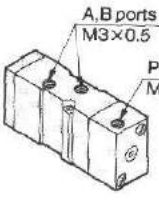
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Base Mounted Type (4 Port)



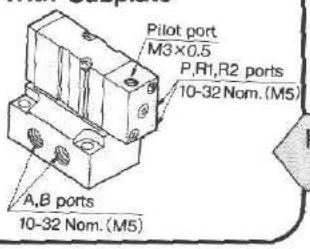
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Body Ported Type (5 Port)



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With Subplate



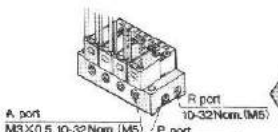
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Manifold

Same as NVJ3000 Series.

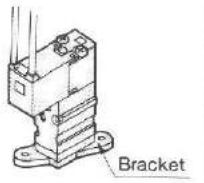
Manifold

Common EXH. Manifold / Side Ported

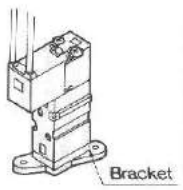


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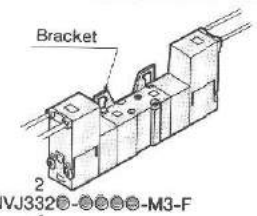
Optional Accessory / Bracket



NVJ3©2-©©©©-M3-F
NVJ3©2M-©©©©-M3-F



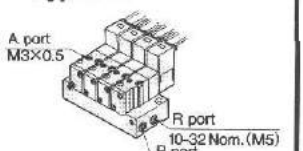
NVJ312©-©©©©-M3-F
(For Single Solenoid Only)



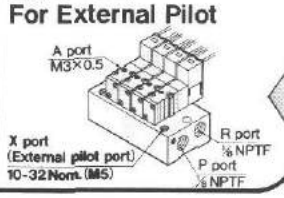
NVJ332©-©©©©-M3-F
(For Double Solenoid)

Common EXH. Manifolds / Top Ported

Type 20

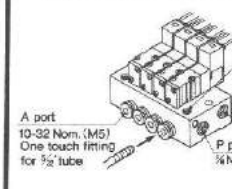


Type 20R / For External Pilot

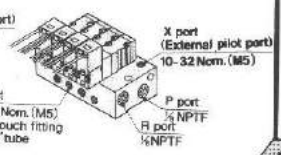


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Type 42R / For External Pilot

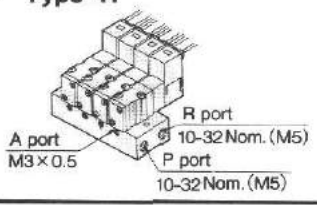


Type S42R / For External Pilot

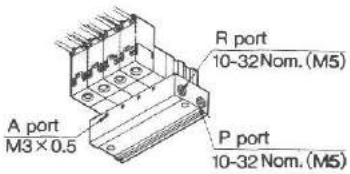


Common EXH. Manifolds / Side Ported

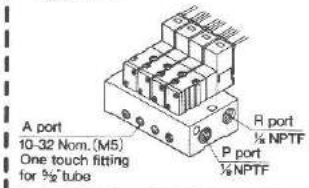
Type 41



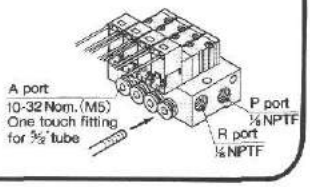
Type S41



Type 42



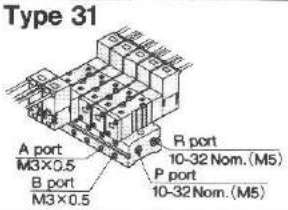
Type S42



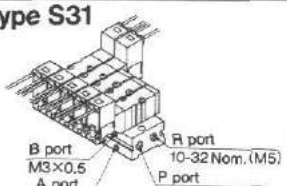
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Common EXH. Manifolds / Side Ported

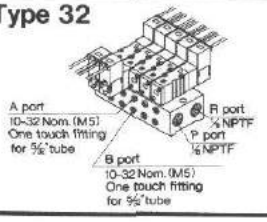
Type 31



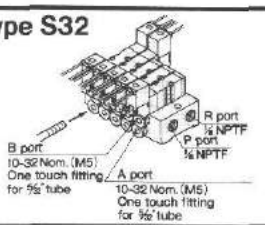
Type S31



Type 32



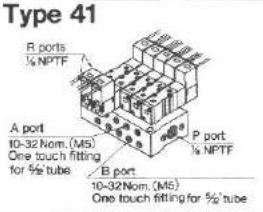
Type S32



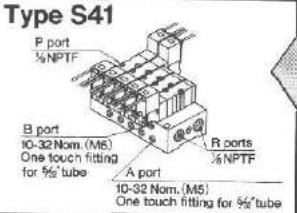
Page 22

Common EXH. Manifolds / Side Ported

Type 41



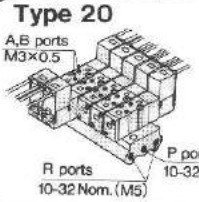
Type S41



Page 22

Common EXH. Manifold / Top Ported

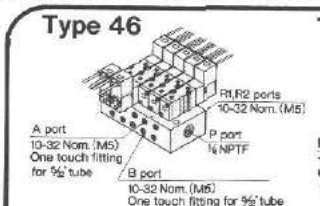
Type 20



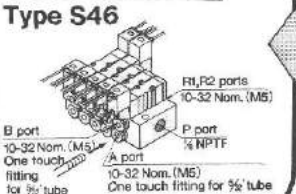
Page 22

Individual EXH. Manifolds / Side Ported

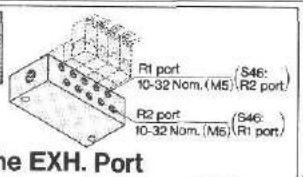
Type 46



Type S46



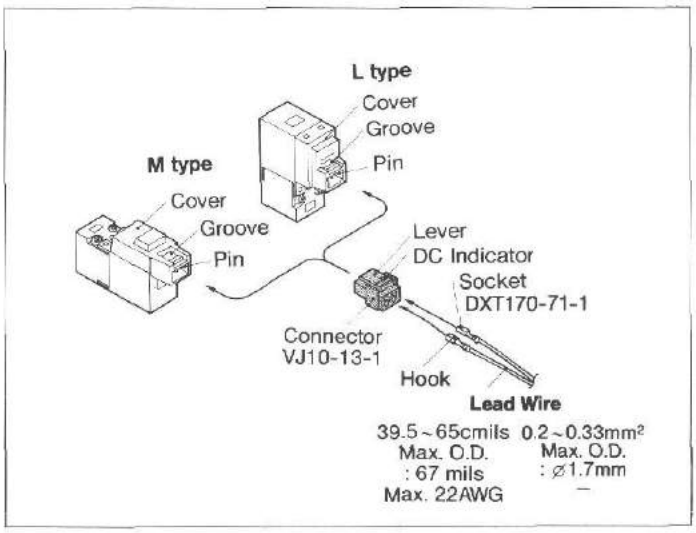
Page 22



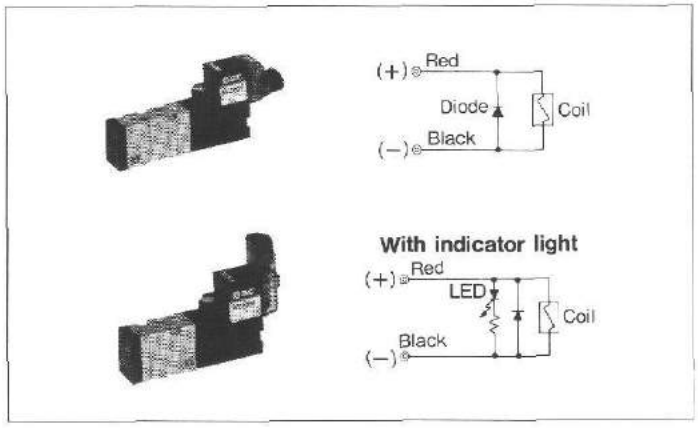
The EXH. Port of Type 46 (Type S46)

Connection/Disconnection of Plug

❶Connection—Push the connector straight on to the pins of the solenoid, making sure the lip of the lever is securely positioned in the groove of the solenoid cover.
❷Disconnection——Press the lever against the connector and pull the connector away from the solenoid.



Surge Voltage Protection Circuit



Correctly connect the lead wires to ⊕ (plus) and ⊖ (minus) indications on the connector.
Wrong connection may result in a burnt diode or switching element; great care is needed.
Solenoids, whose lead wires have been pre-wired, are plus side red and minus side black.

Plug Connector Type Lead Wire Length

Standard length is 12 inch, but the following lengths are also available: 24, 40, 60, 80, 100 and 120 inch.

How To Order

Connector Ass'y Number

VJ10−20−4A−6

(110VAC: **VJ10-36-3A-***)

Lead wire length

Nil	12 inch (300mm) Std.
6	24 inch (600mm)
10	40 inch (1000mm)
15	60 inch (1500mm)
20	80 inch (2000mm)
25	100inch (2500mm)
30	120inch (3000mm)

Note: 110VAC type valve must be used with connector with rectifier only. Not voltage interchangable

● When ordering both the valve and connector ass'y, include both valve and connector ass'y product numbers.
Example) 80 inch lead wire length

NVJ3120-5LO-M3
VJ10-20-4A-20

Common Exhaust for Main Valve and Pilot Valve

VJ3○○M, VJ3○○3 valves are available with a common exhaust for the pilot valve exhaust and the main valve exhaust.

Exhaust air from the pilot valve will flow to the main valve exhaust port. Exhaust air from the main valve will not enter the pilot valve side due to a check valve.

Applications:

- Elimination of air contamination which pilot exhaust would create.
- Elimination of pilot exhaust noise.
- Prevention of dust entry into valve when used in extremely dusty environments.

Common exhaust type valves are of great advantage when used with the common type manifolds. Please install exhaust cleaner (Series NAMC) when used in this manner. Take care of the piping so that common exhaust air does not become restricted.

Manifold Mounting of NVJ300 & NVJ3000

NVJ300 series is mountable on the manifold base of NVJ3000, NVV5J3, Refer to page⓴.

sage of NVJ3000 as a 3 Way Valve

e NVJ3000 may be used as a N.C. or N.O. 3 way valve by
igging one of the A, B ports.
sure not to plug the exhaust ports.
n be used when a double solenoid, 3 way valve is required.

ıg Position		B Port	A Port
onstruction		N.C.	N.O.
Actuation	Single	(X) plug B A R P R	(X) plug B A R P R
	Double	(X) plug B A R P R	(X) plug B A R P R

iping

Make sure that chips, cutting oil, dust, etc, are cleaned up fore piping.
When using a NVJ33OO or NVJA33OO closed center type, ke sure there's no leakage between the fitting and valve, inder ports or the piping.
astening torque.

hread	Proper fastening torgue in-lbs
3	0.78
-32UNF (Nom.) M5	13.0~17.3
NPTF	60.7~78.0

M1.7 mounting screw pitch : 0.35mm

uality of Operating Fluid

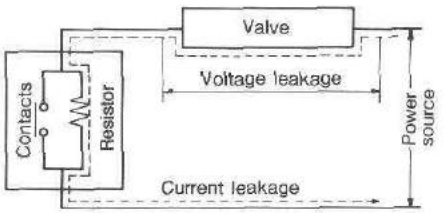
A filter of about 5μm is adequate.
Remove drainage from the system because large quantity of ainage causes pneumatic product malfunction as well as vironmental contamination.
r added convenience, the use of an auto drain is recommended.
When there is a large amount of carbon powder from the mpressor, it causes valve malfunction.
ease change the compressor oil or install a mist separator.

Lubrication

❶The valve has been factory lubricated for life, and does not require lubrication in service.
❷If a lubricant is used in the system, use turbine oil type #1 (ISO VG32). If a lubricant has been used in the system, continue to lubricate as the original lubricant applied during manufacturing may have been washed away.

Leakage Voltage

Note that when using resistor in parallel with a contact, the leakage voltage may increase due to the leakage current flowing through the resistor.



※ Leakage voltage must be no more than 3% of the rated voltage.

Operating Conditions

❶Avoid applications where exposed to corrosive gases, chemical solutions or vapors, sea water, etc.
❷When installing the valve in a place which is temporarily exposed to water droplets or oil, use a protective barrier or cover.

Energization Time

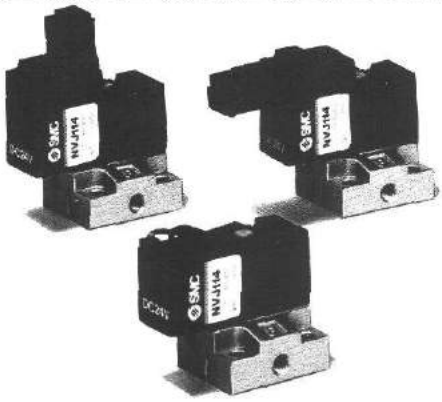
The double solenoid valve must be energized for at least 0.1 seconds to ensure proper operation.

Low Temperature Application

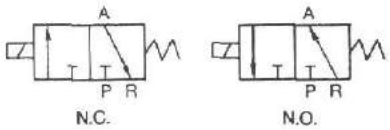
May be used down to 26°F if the air is sufficiently free of moisture.
Please use an appropriate dryer to ensure dry air, preventing the valve from freezing.

Cv0.008

3 Port Solenoid Valve
Series: NVJ100



Symbol



Model

Model	Type of actuation	Operating pressure range PSI (kgf/cm²)	Vacuum application		Cv factor	Weight lbs (gf)	
			P port	R port		Grommet type	L, M Plug connector type
NVJ114	N.C.	0~100(0~7)	10 Torr~85 PSI (10 Torr~6kgf/cm²)	10 Torr~0 PSI (10 Torr~0kgf/cm²)	0.008	0.048 (22)	0.055 (25)
NVJ114A		0~57(0~4)	10 Torr~40 PSI (10 Torr~3kgf/cm²)	10 Torr~0 PSI (10 Torr~0kgf/cm²)	0.012	⟨⟨ Without subplate 0.022 (10) ⟩⟩	⟨⟨ Without subplate 0.029 (13) ⟩⟩
NVJ124	N.O.	0~100(0~7)	10 Torr~0 PSI (10 Torr~0kgf/cm²)	10 Torr~85 PSI (10 Torr~6kgf/cm²)	0.008		
NVJ124A		0~71(0~5)	10 Torr~0 PSI (10 Torr~0kgf/cm²)	10 Torr~57 PSI (10 Torr~4kgf/cm²)	0.012		

Note) In case of NVJ124○, supply air to "R" port, "P" port will be the exhaust port.

Solenoid Specifications

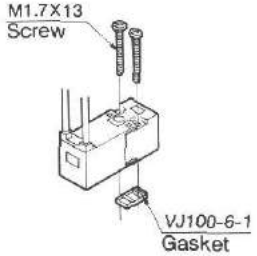
Fluid	Air and inert gases
Ambient and fluid temperature	Max. 120°F (50°C)
Response time	10ms
Max. operating frequency	20c/s
Manual override	Non-locking type, slotted locking type
Lubrication	Not required
Mounting position	Free
Impact/Vibration resistance	15G/3G (8.3~2000Hz)
Enclosure	Dust-proof

Specifications

Electrical entry	Grommet (G) (H), plug connector (L or M)
Voltage †	24VDC, 12VDC, 6VDC, 5VDC, 3VDC, 110VAC*
Allowable voltage	±10% of rated voltage
Coil insulation	Class A
Power Consumption	1W (LED: 1.2W) / 0.45W (LED: 0.5W)
Surge voltage suppressor	Diode
Indicator light	LED

** Rectified. † 24VAC available as special order.*

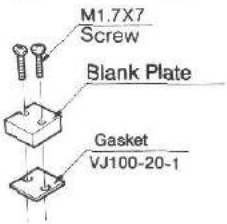
Proper Combinations of Solenoid Valve, Gasket and Base



Applicable base
- Subplate
- NVV3J1-S41 type manifold base

Blank Plate Assembly

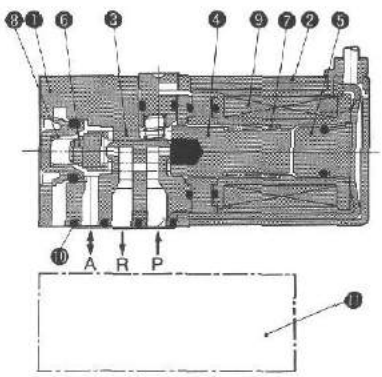
Blank Plate Ass'y.
VJ100-19-1A



Applicable base
- Subplate
- NVV3J1-S41 type manifold base

Construction/Parts List

N.C.



(1WDC type shown)

Main Parts

No.	Parts name	Material	Notes
1	Body	PBT resin	Black
2	Cover	Polyacetal	Black
3	Push rod	Polyacetal	—
4	Armature ass'y	NBR. Stainless steel	—
5	Core	Stainless steel	—
6	Exhaust poppet	NBR	—
7	Return spring	stainless steel	—
8	Poppet spring	Stainless steel	—
9	Coil ass'y	—	—

Spare parts

No.	Part name	Material	Parts No.
10	Gasket	NBR	VJ100-6-1
11	Subplate	Zinc die cast	VJ100-17-1

ow To Order

Voltage

5	24VDC
6	12VDC
V	6VDC
S	5VDC
R	3VDC
D3	110VAC*

* Rectified. 24VAC available also.

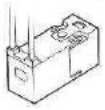
Indicator light and surge voltage suppressor

Nil	Without indicator light and surge voltage suppressor
S	With surge voltage suppressor
Z	With indicator light and surge voltage suppressor

S and Z not available for grommet. 110VAC includes S option (do not specify).

Port size

—: Without subplate



M3: With subplate VJ100-17-1



(With gasket only)

ase Mounted type (Normal open) **NVJ124** — 5 M S

ase Mounted type (Normal closed) **NVJ114** — 5 M S

l: Cv: 0.008
Operating pressure range
0~100 PSI
(Same for the pilot valve of NVJ300, NVJ3000)

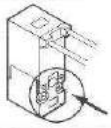
: Cv: 0.012
Operating pressure range
0~57 PSI

: 0.45W type
(24, 12 VDC only)

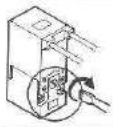
t available for normal open or in conjunction with A type.

Manual override

—: Non-locking push type



B: Slotted locking type



Electrical entry

G: Grommet Lead wire length :12 inch (300mm)



L: L type connector with lead wire length :12 inch (300mm)



LO: L type plug connector without connector



*H: Grommet Lead wire length 24 inch (600mm)



M: M type connector with lead wire length :12 inch (300mm)



MO: M type plug connector without connector



* Special Order Only.

w to order

nnector ass'y number

J10-20-4A- ( )

0VAC: **VJ10-36-3A-***) †

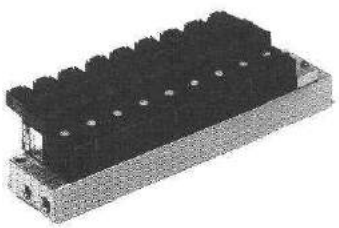
Lead wire length

–	12 inch (300mm) Std.
6	24 inch (600mm)
10	40 inch (1000mm)
15	60 inch (1500mm)
20	80 inch (2000mm)
25	100 inch (2500mm)
30	120 inch (3000mm)

† Not voltage interchangeable

● When ordering the valve and connector ass'y include both the valve and connector ass'y product numbers.
Example) 80 inch lead wire length
NVJ114-5LO-M3
VJ10-20-4A-20

eries: NVJ100 Manifold



Specifications

P(SUP), R(EXH) type	Common supply, Common exhaust
Stations	2 to 20

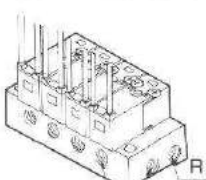
● Please order the appropriate valves and/or blank plate ass'y with manifold base.
(Example) **NVV3J1-S41-03-M5** NVJ114-5MZ·····2 VJ100-19-1A·····1

● It is impossible to mount NVJ114O and NVJ124O together on the same manifold base.

● In case of NVJ124O manifold type, supply air to "R" port of manifold base, "P" port of manifold base will be the exhaust port.

ow To Order

pe S41



R port 10-32Nom. (M5)

P port 10-32Nom. (M5)

ort ×0.5, 10-32Nom. (M5)

NVV3J1-S41- ( ) - ( )

Stations

02	2 stations
:	:
20	20 stations

A port size

*M3	M3×0.5
M5	10-32Nom(M5×0.8)

*Special order

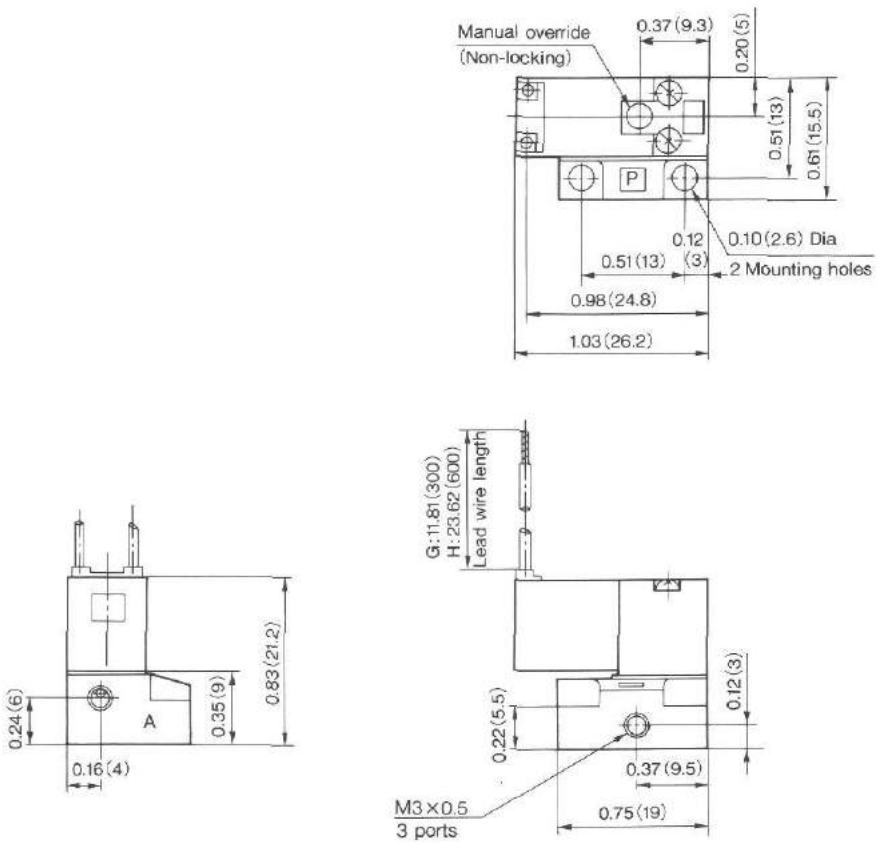
Applicable valves
NVJ114O-OOOO
NVJ114A-OOOO
NVJ124-OOOO
NVJ124A-OOOO

Applicable blank plate ass'y
VJ100-19-1A

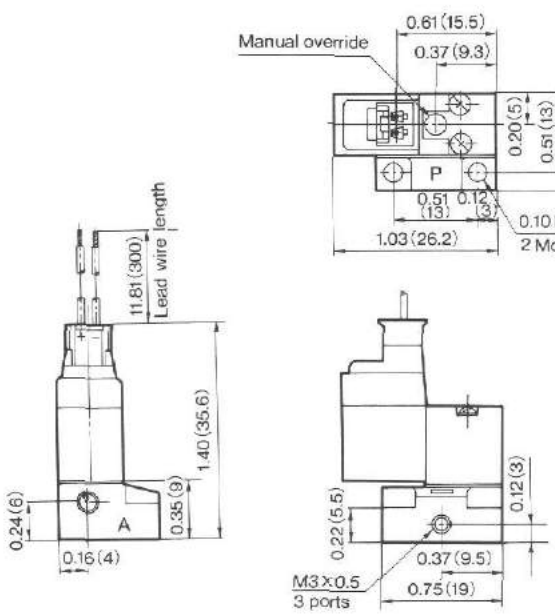
Dimensions

inch (mm)

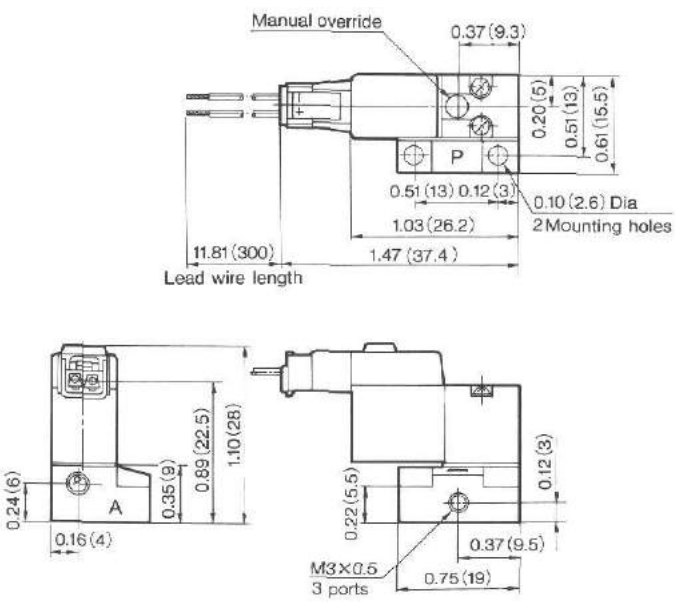
Grommet : NVJ114⊙-⊙G⊙-M3 : NVJ124⊙-⊙G⊙⊙-M3
: NVJ114⊙-⊙H⊙-M3 : NVJ124⊙-⊙H○⊙-M3



L Type Plug Connector : NVJ114⊙-⊙L⊙⊙-M3
: NVJ114⊙-⊙L⊙⊙-M3



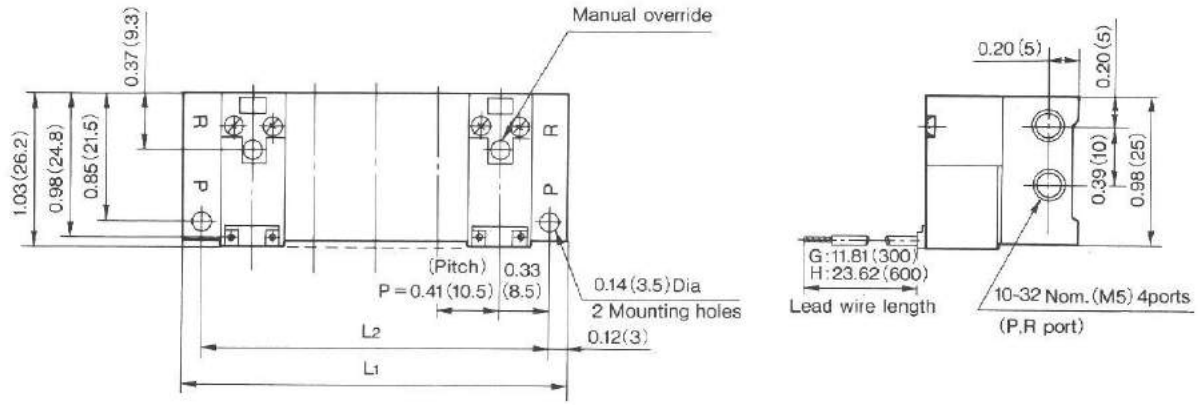
M Type Plug Connector : NVJ114⊙-⊙M⊙⊙-M3
: NVJ114⊙-⊙M⊙⊙-M3



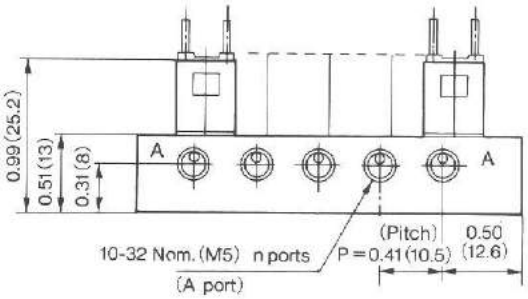
ype S41 Manifold: Side Ported/NVV3J1-S41-(Stations)-M3/M5

inch (mm)

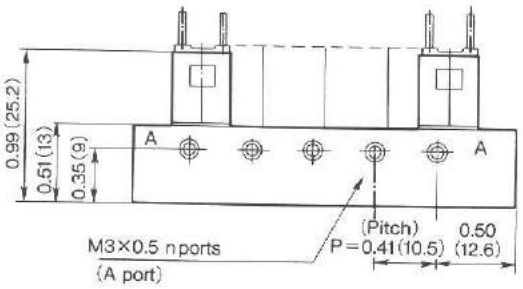
ommet (G)、(H)



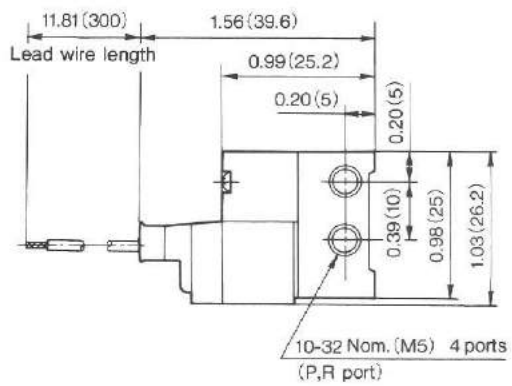
〈 In Case of M5 〉



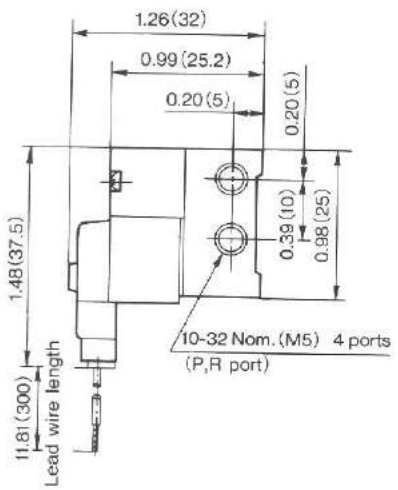
〈 In Case of M3 〉



Type Plug Connector (L)



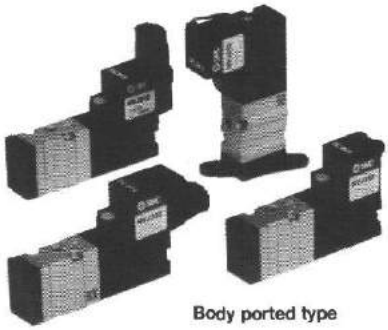
M Type Plug Connector (M)

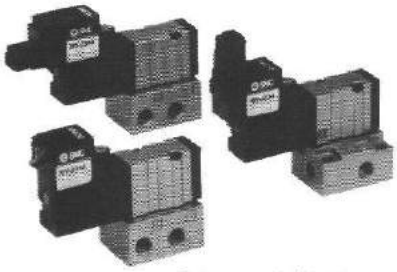


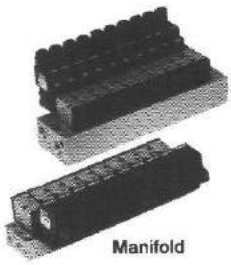
ations (n)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	1.32 (33.5)	1.73 (44)	2.15 (54.5)	2.56 (65)	2.97 (75.5)	3.39 (86)	3.80 (96.5)	4.21 (107)	4.63 (117.5)	5.04 (128)	5.45 (138.5)	5.87 (149)	6.28 (159.5)	6.69 (170)	7.11 (180.5)	7.52 (191)	7.93 (201.5)	8.35 (212)	8.76 (222.5)
	1.08 (27.5)	1.50 (38)	1.91 (48.5)	2.32 (59)	2.74 (69.5)	3.15 (80)	3.56 (90.5)	3.98 (101)	4.39 (111.5)	4.80 (122)	5.22 (132.5)	5.63 (143)	6.04 (153.5)	6.46 (164)	6.87 (174.5)	7.28 (185)	7.70 (195.5)	8.11 (206)	8.52 (216.5)

Cv 0.1

3 Port Solenoid Valve
Series: NVJ300


Body ported type


Base mounted type

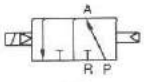

Manifold

Symbol

Internal pilot type



N.C.



N.O.

External pilot type



N.C.



N.O.

Model

Body type	Model	Type of actuation	Port size	Cv factor	Weight lbs(gf)	
					Grommet type	L, M Plug connector type
Body ported type	**NVJ312, 312M, 312R**	N.C.	M3×0.5 (M3×0.5)	0.05 (0.05)	0.057(26)	0.064(29)
	NVJ322, 322M, 322R	N.O.				
Base mounted type with subplate	**NVJ314, 314M, 314R**	N.C.	10-32Nom.(M5) (10-32Nom.(M5)) B3T	0.1 (0.08)	0.103(47) 〈Without subplate〉 0.057 (26)	0.110(50) 〈Without subplate〉 0.064 (29)
	NVJ324, 324M, 324R	N.O.				

Note) B3T: One touch fitting for 5/32" tube.
[ ]: In case of manifold.

Specifications

Fluid		Air and inert gases	
Operating pressure range	Internal pilot type	20~100 PSI (1.5~7kgf/cm²)	
	External pilot type	Main supply pressure	10Torr~100PSI (10Torr~7kgf/cm²)
		External pilot pressure	20~100PSI (1.5~7kgf/cm²)
Ambient and fluid temperature		Max.120°F(50°C)	
Response time		15ms	
Max. operating frequency		10 c/s	
Manual Override		Non-locking push type, Slotted locking type	
Pilot exhaust		Individual pilot exhaust Common exhaust for main & pilot valve	
Lubrication		Not required	
Mounting position		Free	
Impact/vibration resistance		15G/3G (8.3~2000Hz)	
Enclosure		Dust proof	

Solenoid Specifications

Electrical entry	Grommet(G) (H) Plug connector (L or M)
Voltage †	24VDC, 12VDC, 6VDC, 5VDC, 3VDC, 110VAC*
Allowable Voltage	±10% of rated voltage
Coil insulation	Class A or equivalent
Power Consumption	1W (LED: 1.2W) / 0.45W (LED: 0.5W)
Surge voltage suppressor	Diode
Indicator light	LED

* Rectified. † 24VAC available as special order.

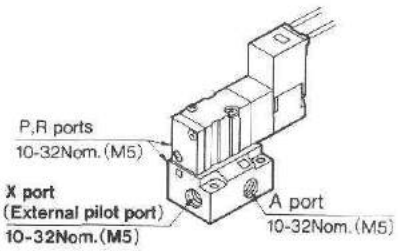
With Bracket

Valve model number	**NVJ3○2-○○○○-M3-F** **NVJ3○2M-○○○○-M3-F**

Note) Bracket factory installed only.

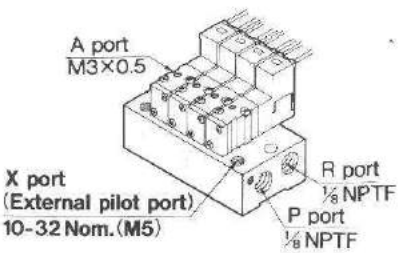
xternal Pilot Type/ NVJ300R

external pilot supply is required when main valve pressures are ver than 20 PSI. The case of body ported external pilot type, is ailable in manifold mount only.



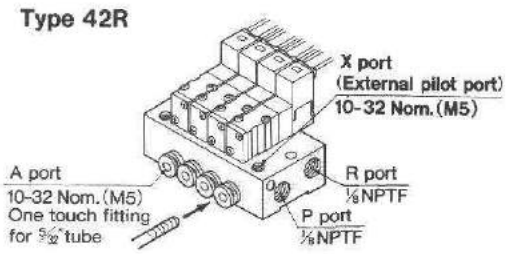
〈Subplate〉

Type 20R

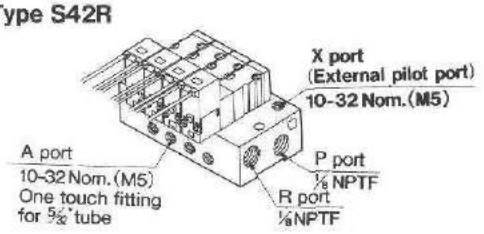


〈Manifold〉

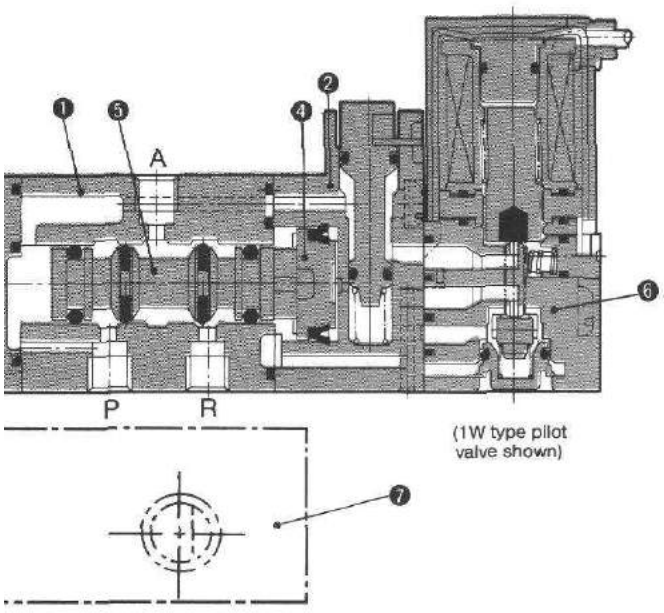
Type 42R



Type S42R

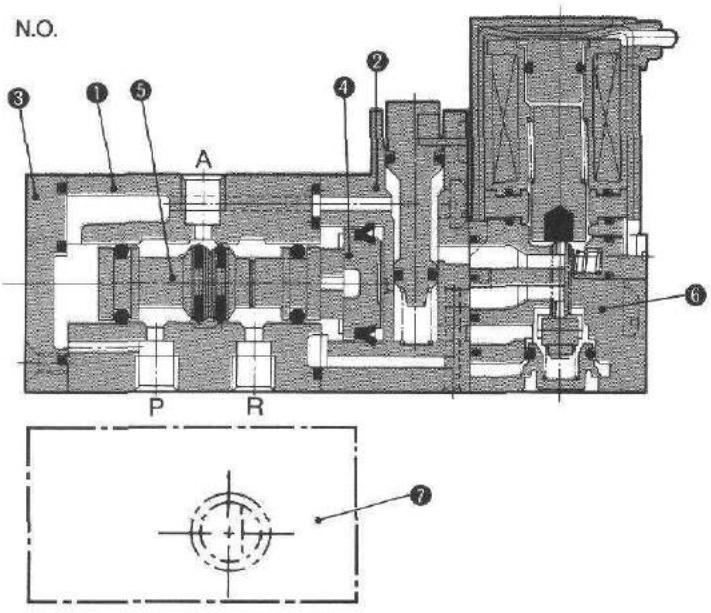


onstruction/Parts List



(1W type pilot valve shown)

N.O.



in Parts

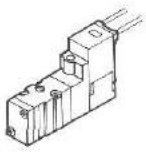
	Part name	Material	Notes
	Body	Zinc die cast	Platium silver
	Piston Plate	PBT resin	Black
	End cover	PBT resin	Black
	Piston	Polyacetal	
	Spool ass'y	Aluminium·NBR	

Spare Parts

No.	Part name	Material	Part No.
6	**Pilot valve ass'y**		NJV114O-OOOO
7	**Subplate**	Zinc die cast	VJ300-9-1

Subplate includes gasket and mounting screws.

How to Order



For type **20,20R** manifold.

Type of actuation

1	Normal closed
2	Normal open

Voltage

5	24VDC
6	12VDC
V	6VDC
S	5VDC
R	3VDC
D3	110VAC*

* Rectified. 24VAC available also.

Indicator light & surge voltage suppressor

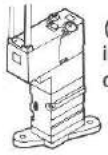
—	Without indicator light and surge voltage suppressor
S	With surge voltage suppressor
Z	With indicator light and surge voltage suppressor

S and Z not available for grommet. 110VAC type includes S (do not specify).

Bracket

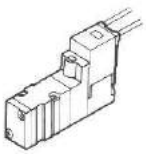
—: Without bracket

F: With bracket
VJ3000-13-3



(Factory installed only)

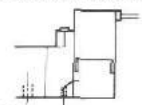
Body Ported Type	**NVJ3**	**1**	**2**		—	**5**	**M**			—	**M3**	—	
Base Mounted Type	**NVJ3**	**1**	**4**			**5**	**M**						



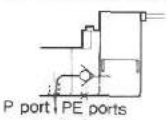
For type **41,S41,42, S42,42R,S42R** manifold.

Body option

—: Standard type: individual pilot exhaust



M: Common exhaust for main and pilot valve



The pilot exhaust is connected to the main exhaust port via a check valve.

R: External pilot type

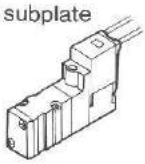


NVJ3○2R is only available to manifold.

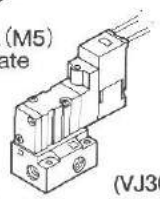
Y: 0.45W type (24, 12 VDC only)

Port size

—: Without subplate



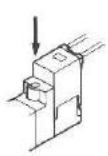
M5: 10-32 Nom. (M5) With subplate



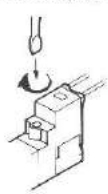
(VJ300-9-1)

Manual override

—: Non-locking push type



B: Slotted locking type



Electrical entry

G: Grommet
Lead wire length
: 12 inch (300mm)



L: L type plug connector with lead wire length: 12 inch (300mm)



LO: L type plug connector without connector



***H**: Grommet
Lead wire length
: 24 inch (600mm)



M: M type plug connector with lead wire length: 12 inch (300mm)



MO: M type plug connector without connector



* Special Order Only.

How to order

Connector ass'y number

VJ10-20-4A- ☐
(110VAC: **VJ10-36-3A-***) †

Lead wire length

—	12 inch (300mm) Std.
6	24 inch (600mm)
10	40 inch (1000mm)
15	60 inch (1500mm)
20	80 inch (2000mm)
25	100inch (2500mm)
30	120inch (3000mm)

† Not voltage interchangable

● When ordering both the valve and connector ass'y include both the valve and connector assembly product numbers.
Example) 80 inch lead wire length
NVJ312-5LO-M3
VJ10-20-4A-20

eries: NVJ300 Manifold

pecifications

SUP), R (EXH) type	Common supply, common exhaust
ations	2 to 20

Please order the appropriate valves and/or blank plate ass'y with manifold base.

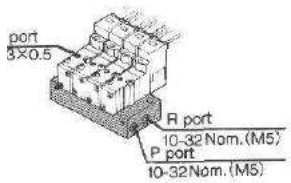
(Example) **NVV3J3-20-03**
NVJ312-5LZ-M3·····2
VJ300-10-2A·····1

NVV3J3-42R-03-B3T
NVJ314R-5G·····2
VJ300-10-1A·····1

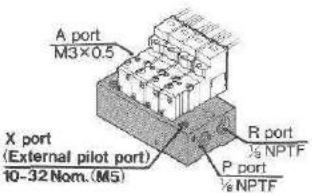
ype and How to Order

pe 20 and 20R

Type 20



Type 20R



Internal pilot type
NVV3J3-20-05-○
External pilot type
NVV3J3-20R-05

Stations

02	2 stations
:	:
20	20 stations

Bracket

–	w/o bracket
F	w/bracket

Note) If there are more than 10 stations, supply air from both sides of manifold and exhaust from both sides of manifold.

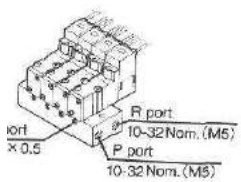
Applicable valves
Type 20
NVJ312-OOOO-M3
NVJ312O-OOOO-M3
NVJ322-OOOO-M3
NVJ322O-OOOO-M3

Type 20R
NVJ312R-OOOO-M3
NVJ322R-OOOO-M3

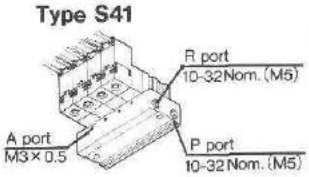
Applicable blank plate Ass'y
VJ300-10-2A

pe 41 and S41 (Internal pilot type)

Type 41



Type S41



NVV3J3-○41-05-M3

Position of A port

–	End cover side
S	Solenoid side

Station

02	2 stations
:	:
20	20 stations

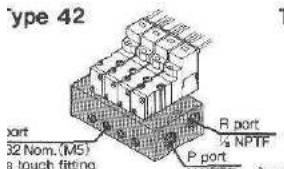
Note) If there are more than 10 stations, supply air from both sides of manifold and exhaust from both sides of manifold.

Applicable valves
NVJ314-OOOO
NVJ314O-OOOO
NVJ324-OOOO
NVJ324O-OOOO

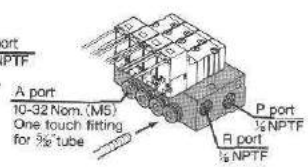
Applicable blank plate Ass'y
VJ300-10-1A

pe 42,42R,S42 and S42R

Type 42



Type S42



NVV3J3-○42○-05-M5

Position of A port

–	End cover side
S	Solenoid side

–	Internal Pilot Type
R	External Pilot Type

Station

02	2 stations
:	:
20	20 stations

A port size

M5	10-32 Nom. (M5)
B3T	One touch fitting for 5/32" tube

Note) If there are more than 8 stations, supply air from both sides of manifold and exhaust from both sides of manifold.

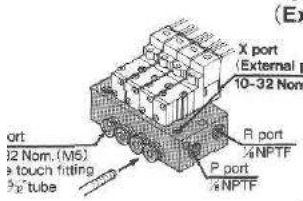
Applicable valves
Type 42 & S42
NVJ314-OOOO
NVJ314O-OOOO
NVJ324-OOOO
NVJ324O-OOOO

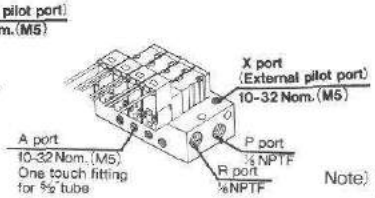
Typ 42R & S42R
NVJ314R-OOOO
NVJ324R-OOOO

Applicable blank plate Ass'y
VJ300-10-1A

ype 42R
External pilot type)

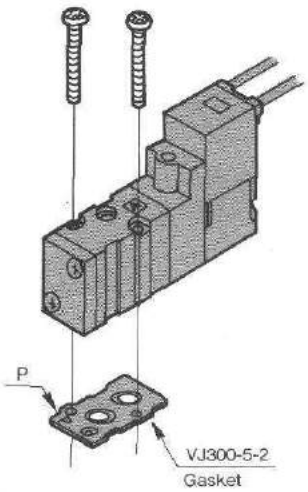
Type S42R
(External pilot type)





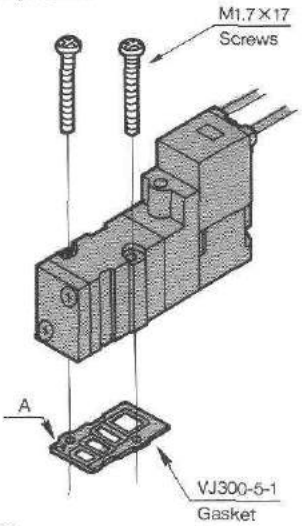
Proper Combinations of Solenoid Valve, Gaskets and Manifold/Subplate Base

Body Ported Type
(NVJ 3○2
NVJ 3○2M,3○2R)



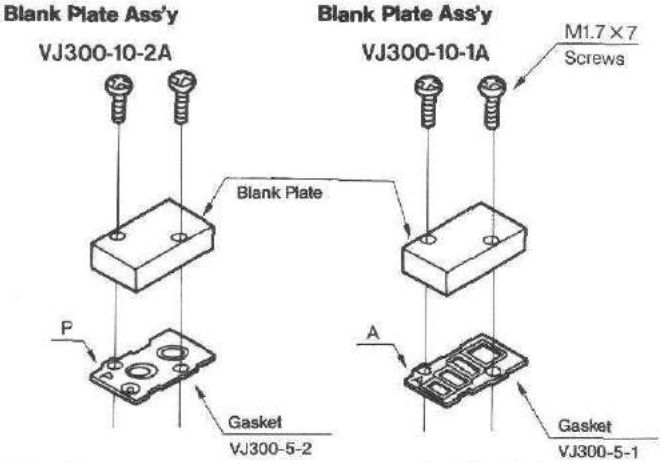
Applicable base
NVV3J3-20
NVV3J3-20R

Base Mounted Type
(NVJ 3○4
NVJ 3○4M,3○4R)



Applicable base
Subplate (VJ300-9-1)
NVV3J3-41
NVV3J3-S41
NVV3J3-42
NVV3J3-S42
NVV3J3-42R
NVV3J3-S42R

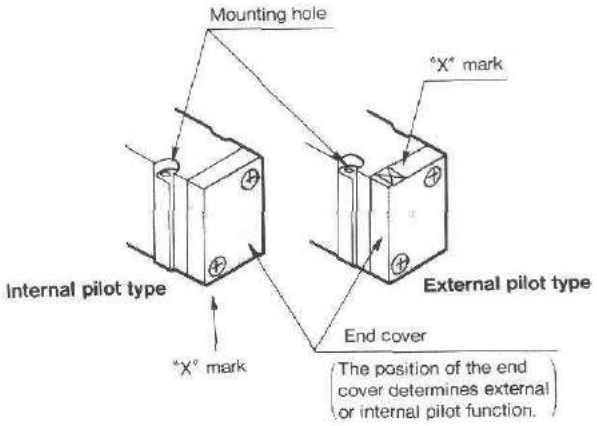
Proper Combination of Blank Plate Ass'y & Manifold Base



Applicable base
NVV3J3-20
NVV3J3-20R

Applicable base
Subplate (VJ300-9-1)
NVV3J3-41
NVV3J3-S41
NVV3J3-42
NVV3J3-S42
NVV3J3-42R
NVV3J3-S42R

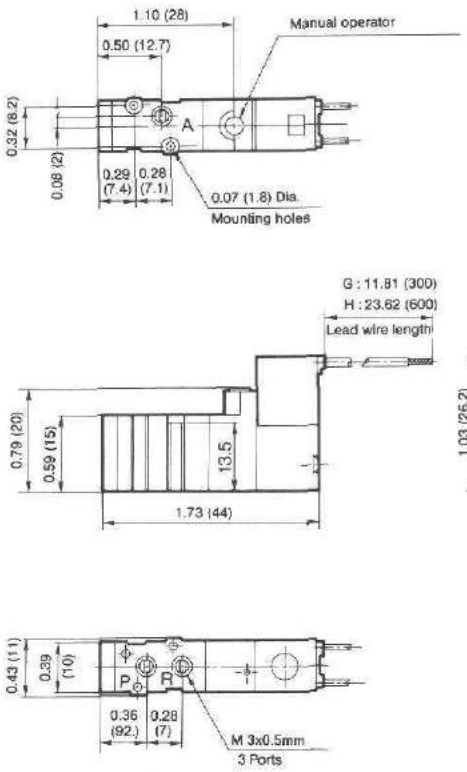
Difference Between Internal Pilot Type and External Pilot Type



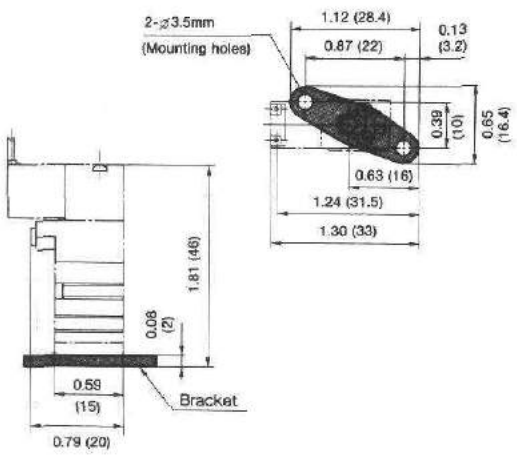
ody Ported Type

inch (mm)

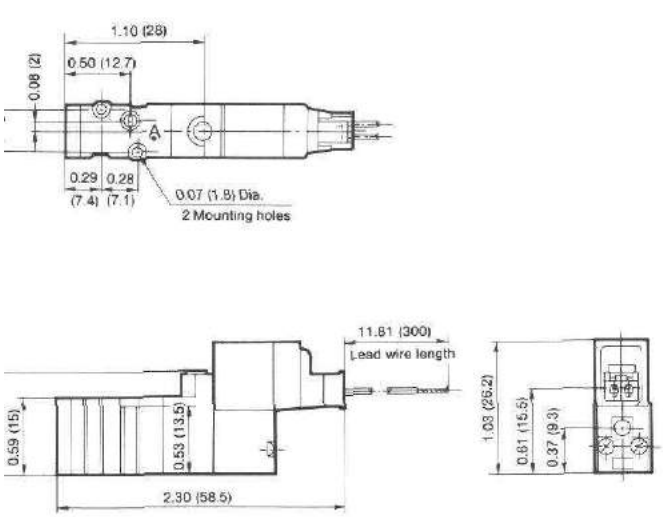
mmet : NVJ3○2○-○G○-M3
NVJ3○2○-○H○-M3



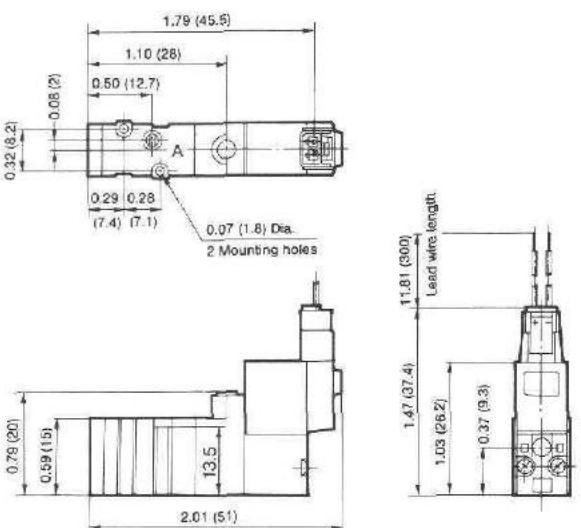
With Foot Bracket (F)
Note: Factory installed only.



ype Plug Connector : NVJ3○2○-○L○○-M3



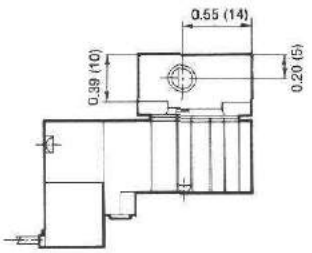
M Type Plug Connector : NVJ3○2○-○M○○-M3

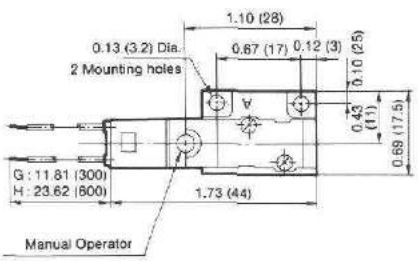


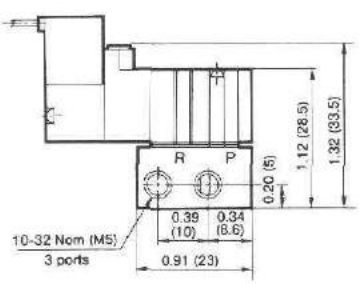
Base Mounted Type with Subplate

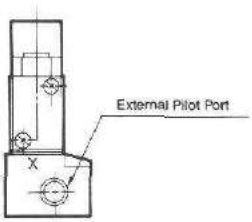
inch(mm)

Grommet : NVJ3○4○-○G○-M5
NVJ3○4○-○H○-M5

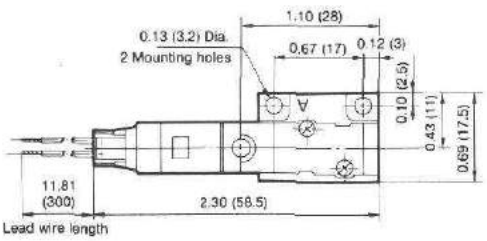


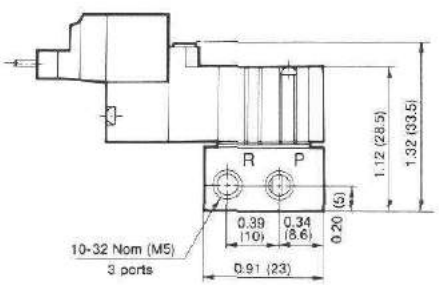




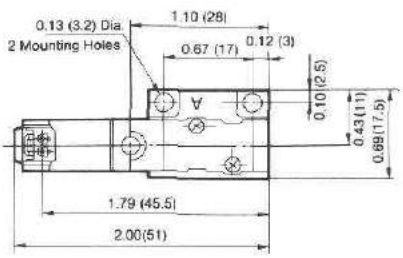


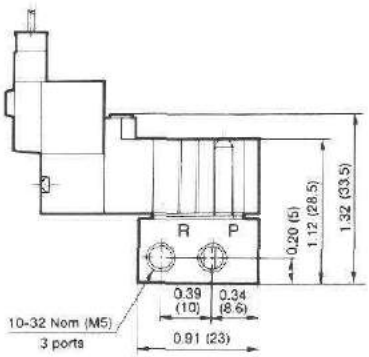
L Type Plug Connector : NVJ3○4○-○L○○-M5





M Type Plug Connector : NVJ3○4○-○M○○-M5

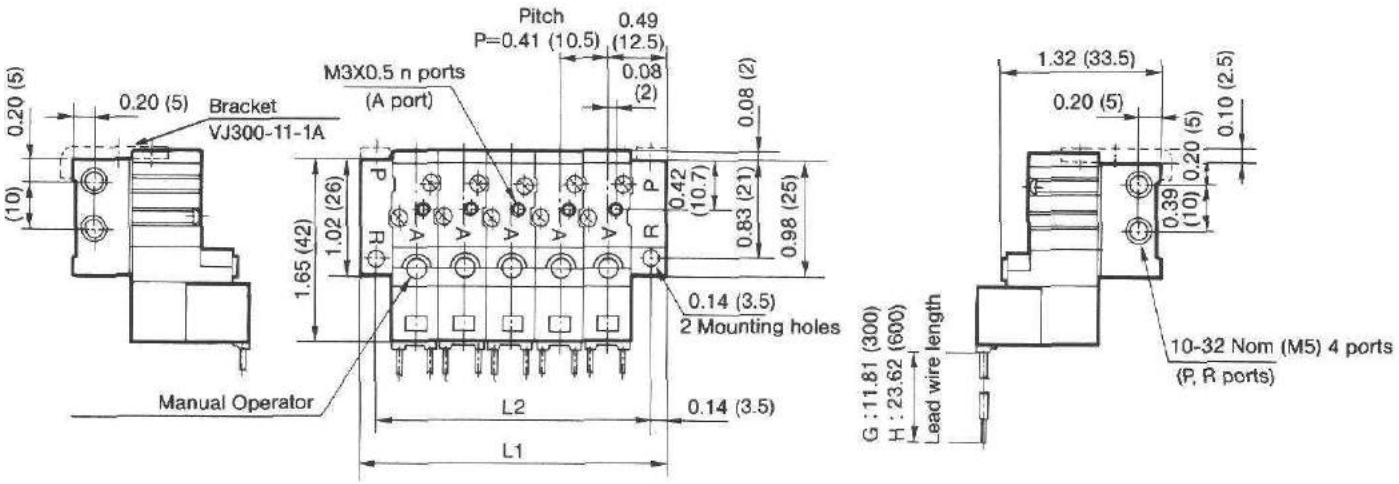




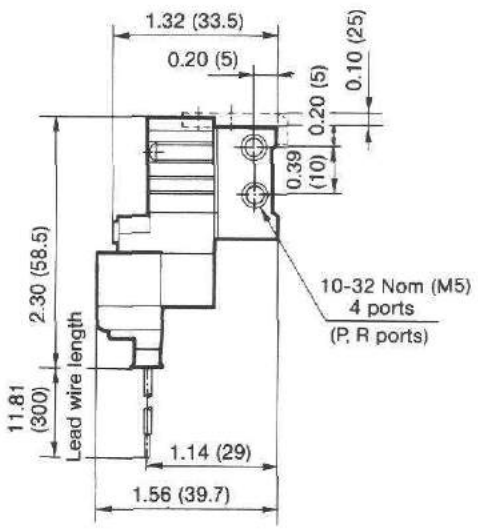
ɹpe 20 Manifold : Top Ported/ NVV3J3-20-(Stations)

inch (mm)

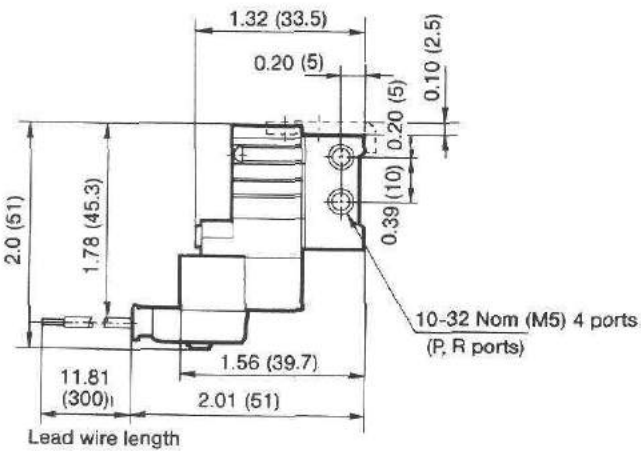
ɪmmet (G)、(H)



Type Plug Connector (L)



M Type Plug Connector (M)

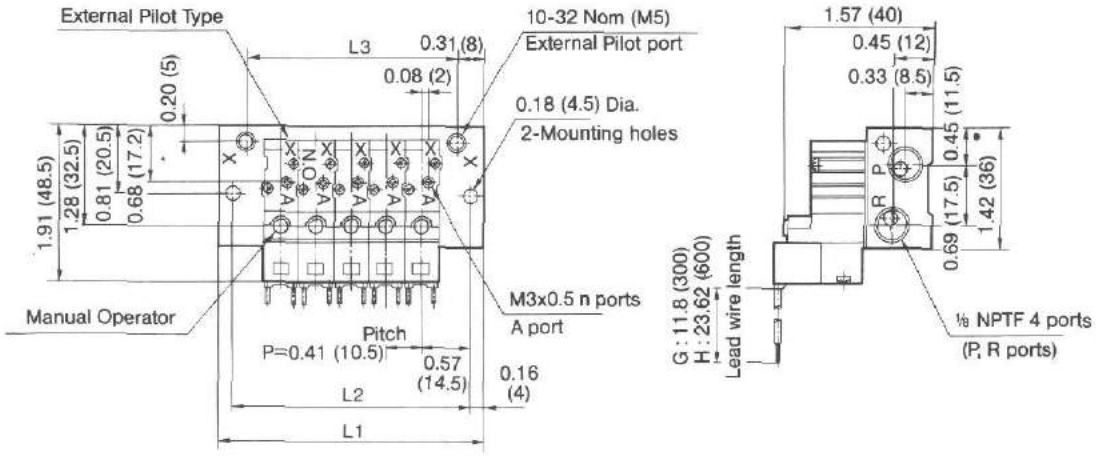


ɪtions (n)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	1.40 (35.5)	1.81 (46)	2.22 (56.5)	2.64 (67)	3.05 (77.5)	3.46 (88)	3.88 (98.5)	4.29 (109)	4.70 (119.5)	5.12 (130)	5.53 (140.5)	5.94 (151)	6.36 (161.5)	6.77 (172)	7.19 (182.5)	7.60 (193)	8.01 (203.5)	8.43 (214)	8.84 (224.5)
	1.12 (28.5)	1.54 (39)	1.95 (49.5)	2.36 (60)	2.78 (70.5)	3.19 (81)	3.60 (91.5)	4.02 (102)	4.43 (112.5)	4.84 (123)	5.26 (133.5)	5.67 (144)	6.08 (154.5)	6.50 (165)	6.91 (175.5)	7.32 (186)	7.74 (196.5)	8.15 (207)	8.56 (217.5)

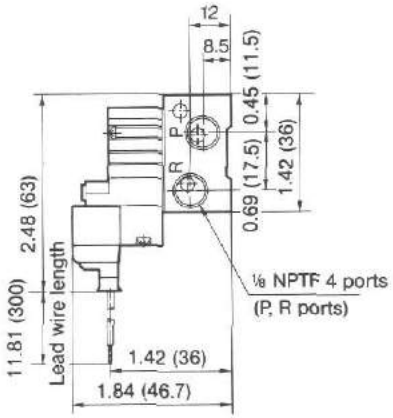
Type 20R Manifold : Top Ported (External Pilot)/ NVV3J3-20R-(Stations)

inch(mm)

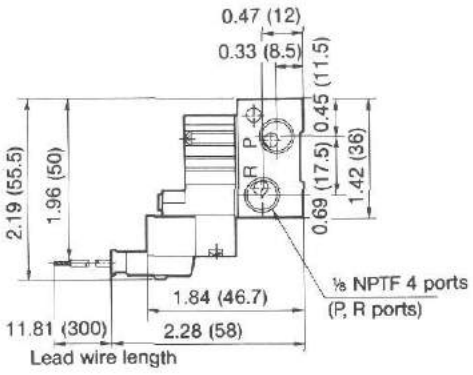
Grommet (G)、(H)



L Type Plug Connector (L)



M Type Plug Connector (M)

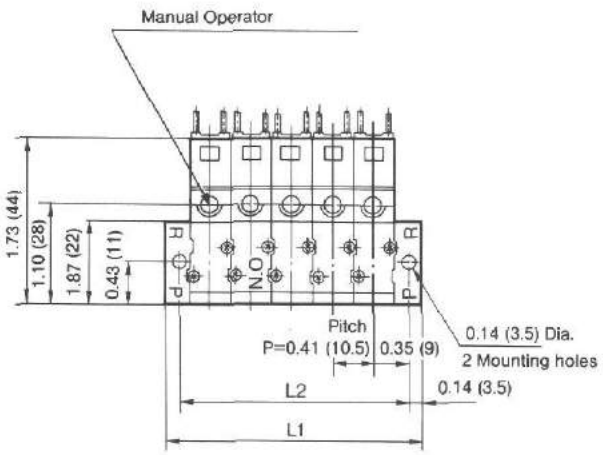


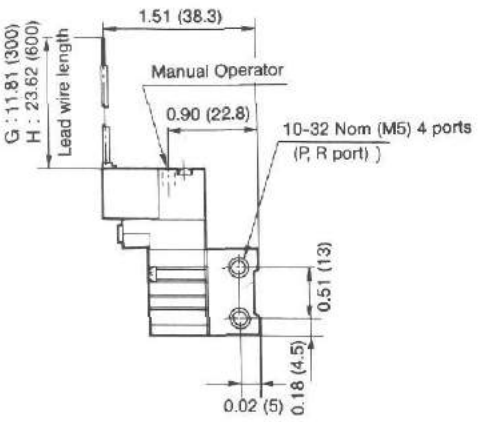
Stations (n)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	1.87 (47.5)	2.28 (58)	2.70 (68.5)	3.11 (79)	3.52 (89.5)	3.94 (100)	4.35 (110.5)	4.76 (121)	5.18 (131.5)	5.59 (142)	6.00 (152.5)	6.42 (163)	6.83 (173.5)	7.24 (184)	7.66 (194.5)	8.07 (205)	8.48 (215.5)	8.90 (226)	9.31 (236.5)
L2	1.56 (39.5)	1.97 (50)	2.38 (60.5)	2.80 (71)	3.21 (81.5)	3.62 (92)	4.04 (102.5)	4.45 (113)	4.86 (123.5)	5.28 (134)	5.69 (144.5)	6.10 (155)	6.52 (165.5)	6.93 (176)	7.34 (186.5)	7.76 (197)	8.17 (207.5)	8.58 (218)	9.00 (228.5)
L3	1.24 (31.5)	1.65 (42)	2.07 (52.5)	2.48 (63)	2.89 (73.5)	3.31 (84)	3.72 (94.5)	4.13 (105)	4.55 (115.5)	4.96 (126)	5.37 (136.5)	5.79 (147)	6.20 (157.5)	6.61 (168)	7.03 (178.5)	7.44 (189)	7.85 (199.5)	8.27 (210)	8.68 (220.5)

Type 41 Manifold : Side Ported/ NVV3J3-41-(Stations)-M3

inch(mm)

Grommet (G)、(H)

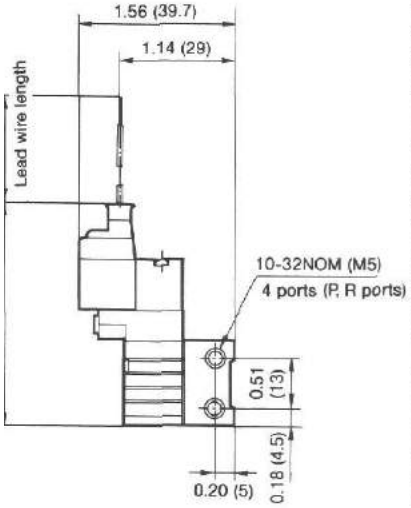




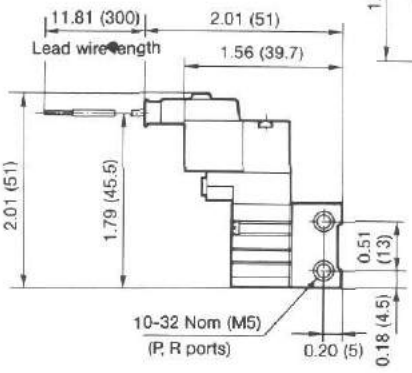
Type S41/ Side Ported

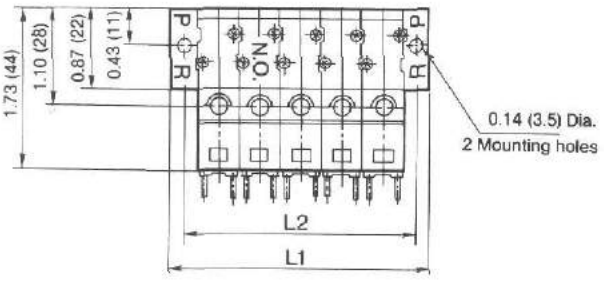
NVV3J3-S41-(Stations)-M3

L Type Plug Connector (L)



M Type Plug Connector (M)



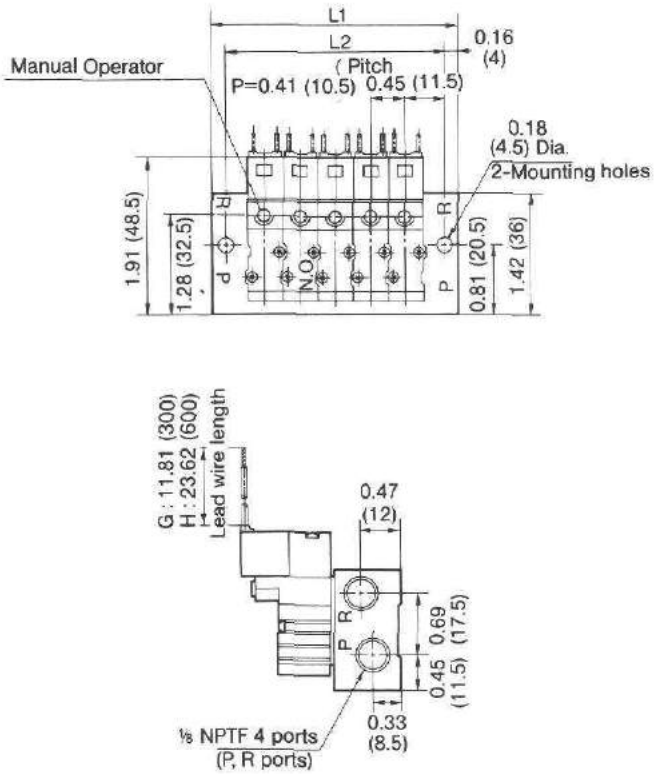


Stations (n)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	1.40 (35.5)	1.81 (46)	2.22 (56.5)	2.64 (67)	3.05 (77.5)	3.46 (88)	3.88 (98.5)	4.29 (109)	4.70 (119.5)	5.12 (130)	5.53 (140.5)	5.94 (151)	6.36 (161.5)	6.77 (172)	7.19 (182.5)	7.60 (193)	8.01 (203.5)	8.43 (214)	8.84 (224.5)
L2	1.12 (28.5)	1.54 (39)	1.95 (49.5)	2.36 (60)	2.78 (70.5)	3.19 (81)	3.60 (91.5)	4.02 (102)	4.43 (112.5)	4.84 (123)	5.26 (133.5)	5.67 (144)	6.08 (154.5)	6.50 (165)	6.91 (175.5)	7.32 (186)	7.74 (196.5)	8.15 (207)	8.56 (217.5)

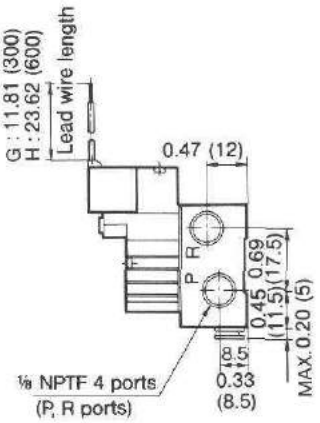
Type 42 Manifold : Side Ported / NVV3J3-42-(Stations)-M5, B3T

inch (mm)

Grommet (G)、(H)



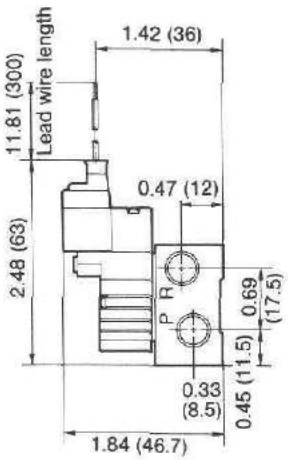
<In Case Of B3T>



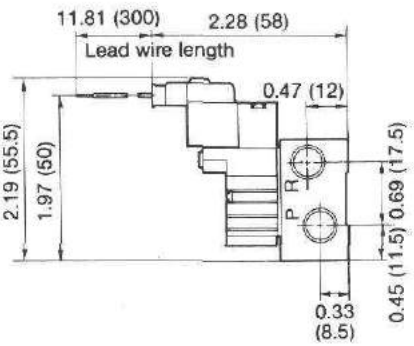
Type S42 / Side Ported

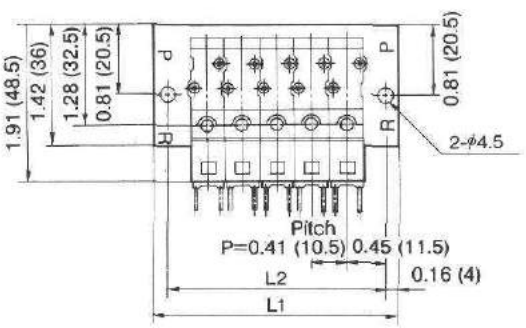
NVV3J3-S42-(Stations)-M5、B3T

L Type Plug Connector (L)



M Type Plug Connector (M)



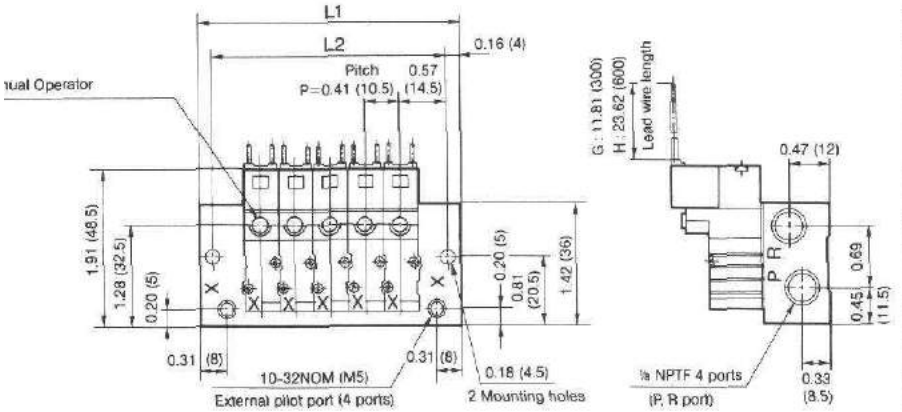


Stations (n)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	1.63 (41.5)	2.05 (52)	2.46 (62.5)	2.87 (73)	3.29 (83.5)	3.70 (94)	4.11 (104.5)	4.53 (115)	4.94 (125.5)	5.35 (136)	5.77 (146.5)	6.18 (157)	6.59 (167.5)	7.01 (178)	7.42 (188.5)	7.83 (199)	8.25 (209.5)	8.66 (220)	9.07 (230.5)
L2	1.32 (33.5)	1.73 (44)	2.15 (54.5)	2.56 (65)	2.97 (75.5)	3.39 (86)	3.80 (96.5)	4.21 (107)	4.63 (117.5)	5.04 (128)	5.45 (138.5)	5.87 (149)	6.28 (159.5)	6.69 (170)	7.11 (180.5)	7.52 (191)	7.93 (201.5)	8.35 (212)	8.76 (222.5)

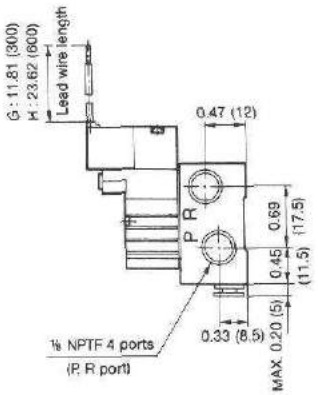
ype 42R Manifold : Side Ported / NVV3J3-42R-(Stations)-M5, B3T

inch(mm)

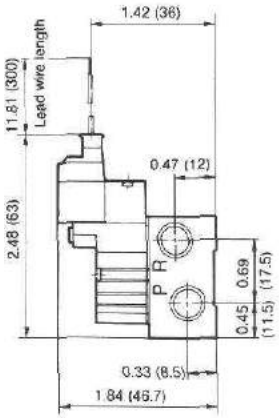
ommet (G)、(H)



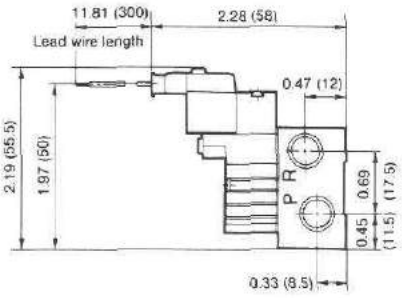
<In Case Of B3T>



Type Plug Connector (L)

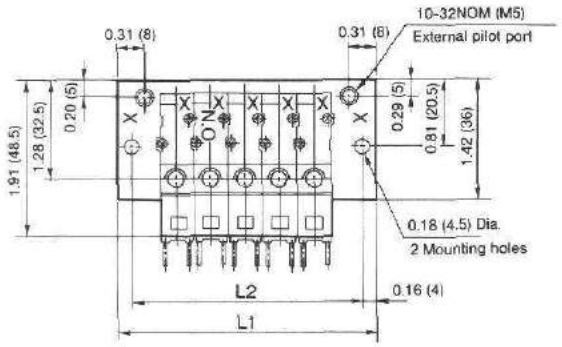


M Type Plug Connector (M)



Type S42R / Side Ported

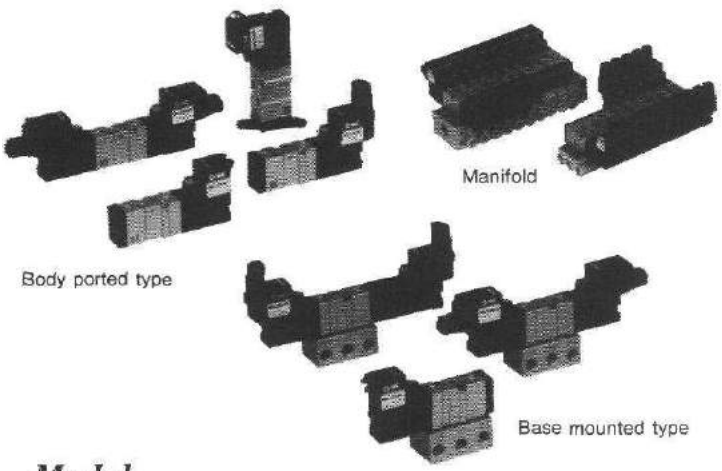
NVV3J3-S42R-(Stations)-M5、B3T



ations (n)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	1.87 (47.5)	2.28 (58)	2.70 (68.5)	3.11 (79)	3.52 (89.5)	3.94 (100)	4.35 (110.5)	4.76 (121)	5.18 (131.5)	5.59 (142)	6.00 (152.5)	6.42 (163)	6.83 (173.5)	7.24 (184)	7.66 (194.5)	8.07 (205)	8.48 (215.5)	8.90 (226)	9.31 (236.5)
	1.56 (39.5)	1.97 (50)	2.38 (60.5)	2.80 (71)	3.21 (81.5)	3.65 (92)	4.04 (102.5)	4.45 (113)	4.86 (123.5)	5.28 (134)	5.69 (144.5)	6.10 (155)	6.52 (166.5)	6.93 (176)	7.34 (186.5)	7.76 (197)	8.17 (207.5)	8.58 (218)	9.00 (228.5)

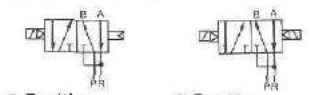
Cv 0.1

5 Port Solenoid Valve
Series: NVJ3000

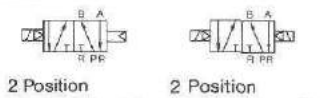


Symbol

4 Port (Manifold only)



5 Port



Model

Body type	Model	Type of actuation	Port size	Cv factor	Weight lbs (gf)	
					Grommet type	*L, M Plug connector type*
Body ported type	NVJ312○	2 position single solenoid	M3×0.5 [M3×0.5]	0.05 [0.05]	0.066 (30)	0.073 (33)
	NVJ322○	2 position double solenoid			0.090 (41)	0.103 (47)
	NVJ332○	3 position closed center			0.097 (44)	0.110 (50)
	NVJ342○	3 position exhaust center				
	NVJ352○	3 position pressure center				
4 port Base mounted type (manifold only)	NVJ313○	2 position single solenoid	M3×0.5 / 10-32 Nom. (M5) One touch fitting for 5/32" tube	0.05 / 0.067	0.066 (30)	0.073 (33)
	NVJ323○	2 position double solenoid			0.090 (41)	0.103 (47)
	NVJ333○	3 position closed center			0.097 (44)	0.110 (50)
	NVJ343○	3 position exhaust center				
	NVJ353○	3 position pressure center				
5 port Base mounted type	NVJ314○	2 position single solenoid	10-32 Nom. (M5) [10-32 Nom. (M5) One touch fitting for 5/32" tube]	0.1 [(S) 41: 0.08 (S) 46: 0.055]	0.123 (59) 《0.066 (30)》	0.130 (59) 《0.073 (33)》
	NVJ324○	2 position double solenoid			0.147 (67) 《0.090 (41)》	0.161 (73) 《0.103 (47)》
	NVJ334○	3 position closed center			0.154 (70) 《0.097 (44)》	0.167 (76) 《0.110 (50)》
	NVJ344○	3 position exhaust center				
	NVJ354○	3 position pressure center				

[ ]: In case of manifold. 《 》: Without subplate

Specifications

Fluid		Air and inert gas
Operating pressure range	2 position single solenoid	20~100 PSI (1.5~7kgf/cm²)
	2 position double solenoid	14~100 PSI (1~7kgf/cm²)
	3 position	28~100 PSI (2~7kgf/cm²)
Ambient & fluid temperature		Max 120°F (50°C)
Response time	2 position	15ms
	3 position	30ms
Max operating frequency	2 position	10c/s
	3 position	3c/s
Manual Override		Non-locking push type, Slotted locking type
Pilot exhaust		Individual pilot exhaust Common exhaust for main & pilot valve
Lubrication		Not required
Mounting position		Free
Impact/vibration resistance		15G/3G (8.3~2000Hz)
Enclosure		Dust proof

Solenoid Specifications

Electrical entry	Grommet (G) (H), Plug connector (L or M)
Voltage †	24VDC, 12VDC, 6VDC, 5VDC, 3VDC, 110VAC*
Allowable voltage	±10% rated voltage
Coil insulation	Class A or equivalent
Power Consumption	1W (LED: 1.2W) / 0.45W (LED: 0.5W)
Surge voltage suppressor	Diode
Indicator light	LED

* Rectified. † 24VAC available as special order.

With Bracket

Applicable type	Valve model number
For single solenoid type	**NVJ312○-○○○○-M3-F (Factory installed only)**
For double solenoid type	**NVJ322○-○○○○-M3-F** **NVJ332○-○○○○-M3-F** **NVJ342○-○○○○-M3-F**

(note) Bracket part number (For double solenoid type): VJ3000-13-1
If a double solenoid type bracket is desired for single solenoid valve, order the double solenoid valve type bracket and single solenoid valve without a bracket.
Example) NVJ3120-5M-M3 VJ3000-13-1

lanifold Mounting of NVJ300 and NVJ3000 Series

/J300 Series is mountable on the manifold base of the /J3000, NVV5J3.

In case of type NVV5J3-20

sert the plug (VJ3000-33-1) into the R port, which is not used r a 3 way valve.

plicable Valve : **NVJ312, NVJ312M**
NVJ322, NVJ322M

For type NVV5J3-31,S31, NVV5J3-32,S32, and /V5J3-46,S46

ount NVJ300 in the usual fashion.

tlet port of a 3 way valve will be B port of the manifold base

plicable Valve : **NVJ314, NVJ314M**
NVJ324, NVJ324M

For type NVV5J3-41,S41

sert the plug (VJ3000-33-1) into the R port, which is not ed for a 3 way valve.

tlet port of a 3 way valve will be B port of the manifold base.

plicable Valve : **NVJ314, NVJ314M**
NVJ324, NVJ324M

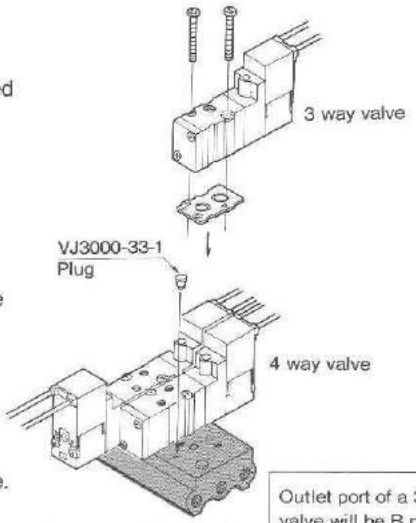


Illustration : **NVV5J3-20**

Outlet port of a 3 way valve will be B port of the manifold base.

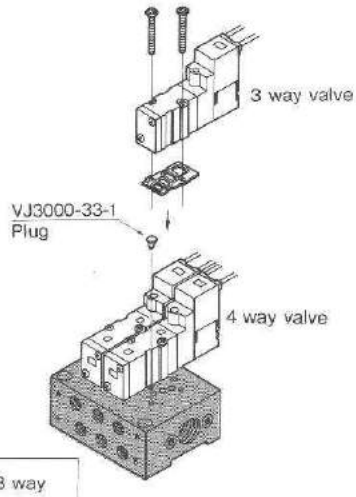
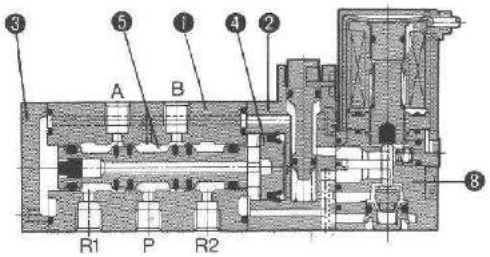


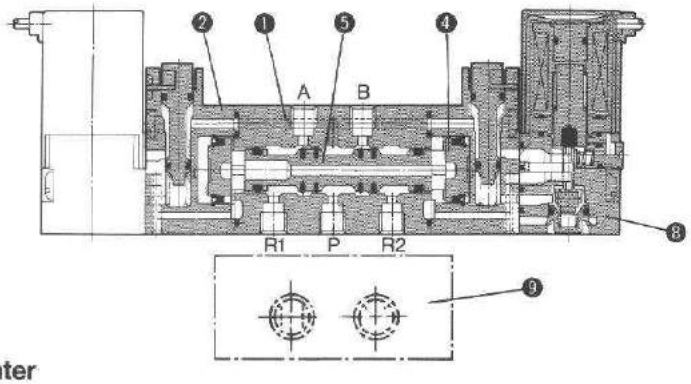
Illustration : **NVV5J3-41**

onstruction/Parts List

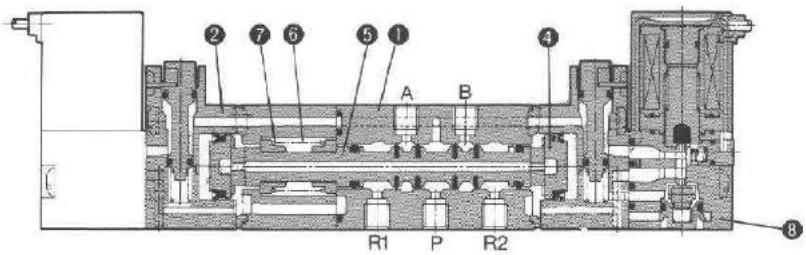
Position Single Solenoid



2 Position Double Solenoid



Position Closed Center/Exhaust Center/Pressure Center



(1W type pilot valve shown)

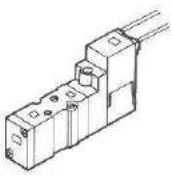
in Parts

).	Part name	Material	Notes
	Body	Zinc die cast	Platinum silver
	Piston plate	PBT resin	Black
	End cover	PBT resin	Black
	Piston	Polyacetal	—
	Spool ass'y	—	—
	Return spring	Stainless steel	—
	Spring washer	Nylon	—

Spare Parts

No.	Part name	Material	Parts No.
8	**Pilot Valve ass'y**	—	NVJ114-OOOO
9	**Subplate**	Zinc die cast	VJ3000-22-1

How to Order



For type **20** manifold.

•Type of actuation

1	2 position, single solenoid
2	2 position, double solenoid
3	3 position, closed center
4	3 position, exhaust center
5	3 position, pressure center

•Voltage

5	24VDC
6	12VDC
V	6VDC
S	5VDC
R	3VDC
D3	110VAC*

* Rectified. 24VAC available also.

•Indicator light and surge voltage suppressor

—	Without indicator light and surge voltage suppressor
S	With surge voltage suppressor
Z	With indicator light & surge voltage suppressor

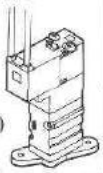
S and Z not available for grommet. 110VAC type includes S (do not specify).

•Bracket

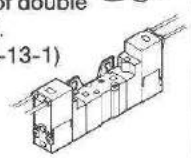
—: Without bracket

F: With bracket VJ3000-13-3

In case of single solenoid. (factory installed only)



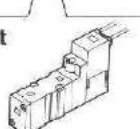
In case of double solenoid. (VJ3000-13-1)



If a double solenoid type bracket is desired for single solenoid valve, please order the double solenoid valve type bracket and a single solenoid valve W/O a bracket.
(Ex) NVJ3120-5M-M3
VJ3000-13-1

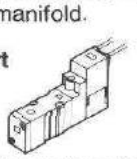
Body Port Type	**NVJ3**	**1**	**2**	**0**			**5**	**M**				**M3**							
Base Mounted Type (4 Port)	**NVJ3**	**1**	**3**	**0**			**5**	**M**				**(Manifold only)**							
Base Mounted Type (5 Port)	**NVJ3**	**1**	**4**	**0**			**5**	**M**											

4 Port



For type **31,S31,32, S32** manifold.

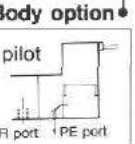
5 Port



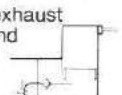
For subplate/type **41, S41,46,S46** manifold.

Body option•

O: Individual pilot exhaust



3: Common exhaust for main and pilot valve



(The pilot exhaust is connected to the main exhaust via a check valve)

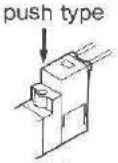
Power consumption•

Nil: Standard 1WDC (1.2 w/LED)

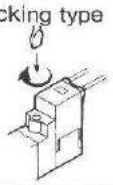
Y: 0.45W type (24, 12 VDC only)

•Manual

—: Non-locking push type

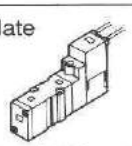


B: Slotted locking type

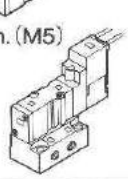


•Port size

—: Without subplate



M5: With 10-32 Nom. (M5) subplate (VJ3000-22-1)



Electrical entry•

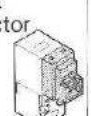
G: Grommet :12 inch lead wire



L: L type plug connector with lead wire length :12 inch (300mm)



LO: L type plug connector without connector



***H**: Grommet Lead wire length :24 inch (600mm)



M: M type plug connector with lead wire length :12 inch (300mm)



MO: M type plug connector without connector



* Special Order Only.

How to order

Connector ass'y number

VJ10-20-4A- ( )

(110VAC: **VJ10-36-3A-***)

Lead wire length•

—	12 inch (300mm)
6	24 inch (600mm)
10	40 inch (1000mm)
15	60 inch (1500mm)
20	80 inch (2000mm)
25	100 inch (2500mm)
30	120 inch (3000mm)

•When ordering both the valve and connector ass'y include both the valve and connector ass'y product numbers.
Example) 80 inch lead wire length
NVJ3120-5LO-M3
VJ10-20-4A-20

Series: NVJ3000 Manifold

Specifications

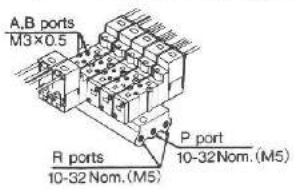
Valve stations	2 to 20

Type and How to Order

Common Supply, Common Exhaust Type

Note: If there are more than 10 stations supply air from both sides of manifold and exhaust from both sides of manifold.

Type 20 (for 5 port body ported type)



NVV5J3-20-05

Stations	
02	2 stations
:	:
20	20 stations

Applicable valves

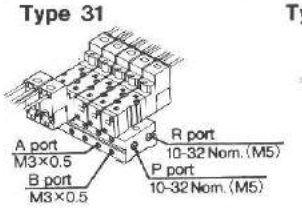
NVJ3□20□-□□□□-M3
NVJ3□23□-□□□□-M3

Applicable blank plate ass'y

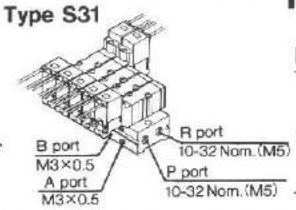
VJ3000-21-2A

Type 31 & S31 (for 4 port base mounted type)

Type 31



Type S31



NVV5J3-□31-05-M3

Position of A,B port	
—	End cover side of single solenoid type
S	Solenoid side of single solenoid type

Stations	
02	2 stations
:	:
20	20 stations

Applicable valves

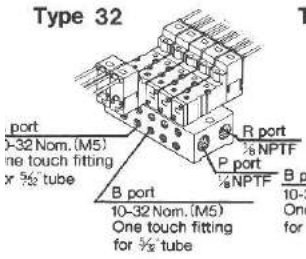
NVJ3□30□-□□□□
NVJ3□33□-□□□□

Applicable blank plate ass'y

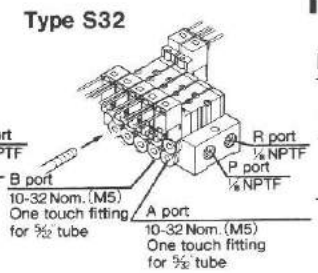
VJ3000-21-1A

Type 32 & S32 (for 4 port base mounted type)

Type 32



Type S32



NVV5J3-□32-05-M5

Position of A,B port	
—	End cover side of single solenoid type
S	Solenoid side of single solenoid type

Stations	
02	2 stations
:	:
20	20 stations

A,B port size	
M5	10-32Nom. (M5)
B3T	One touch fitting for 5/32" tube

Applicable valves

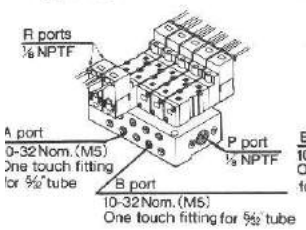
NVJ3□30□-□□□□
NVJ3□33□-□□□□

Applicable blank plate ass'y

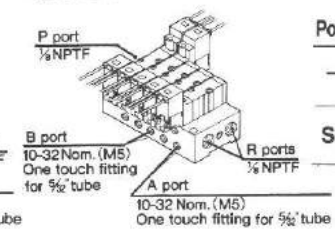
VJ3000-21-1A

Type 41 & S41 (for 5 port base mounted type)

Type 41



Type S41



NVV5J3-□41-05-B3T

Position of A,B port	
—	End cover side of single solenoid type
S	Solenoid side of single solenoid type

Stations	
02	2 stations
:	:
20	20 stations

A,B port size	
M5	10-32Nom. (M5)
B3T	One touch fitting for 5/32" tube

Applicable valves

NVJ3□40□-□□□□
NVJ3□43□-□□□□

Applicable blank plate ass'y

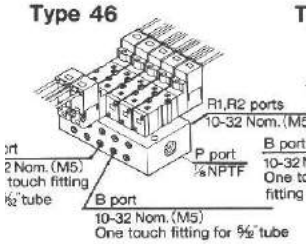
VJ3000-21-1A

Common Supply, Individual Exhaust Type

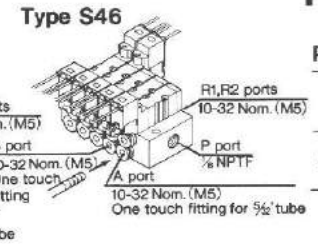
Note: If there are more than 10 stations, supply air from both sides of manifold and exhaust from both sides of manifold.

Type 46 & S46 (for 5 port base mounted type)

Type 46



Type S46



NVV5J3-□46-05-B3T

Position of A,B port	
—	End cover side of single solenoid type
S	Solenoid side of single solenoid type

Stations	
02	2 stations
:	:
20	20 stations

A,B port size	
M5	10-32 Nom. (M5)
B3T	One touch fitting for 5/32" tube

Applicable valves

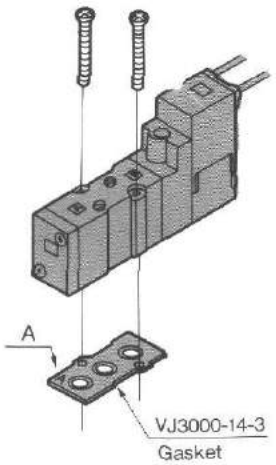
NVJ3□40□-□□□□
NVJ3□43□-□□□□

Applicable blank plate ass'y

VJ3000-21-1A

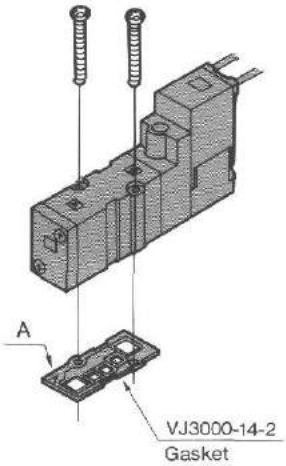
Proper Combinations of Solenoid Valves, Gaskets & Manifold Base

5 Port Body Ported Type
(NVJ3○2○)



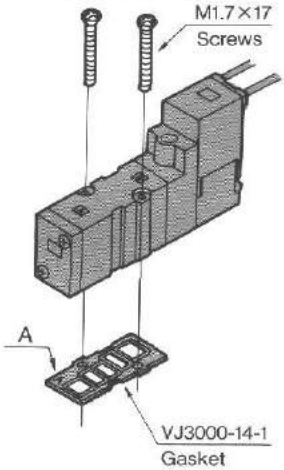
Applicable base
NVV5J3-20

4 Port Base Mounted Type
(NVJ3○3○)



Applicable base
NVV5J3-31
NVV5J3-S31
NVV5J3-32
NVV5J3-S32

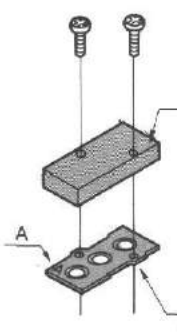
5 Port Base Mounted Type
(NVJ3○4○)



Applicable base
Subplate (VJ3000-22-1)
NVV5J3-41
NVV5J3-S41
NVV5J3-46
NVV5J3-S46

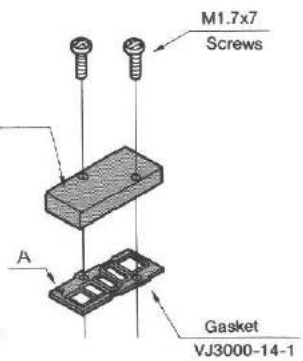
Proper Combination of Blank Plate Ass'y & Manifold Base

Blank Plate Ass'y
VJ3000-21-2A



Applicable base
NVV5J3-20

Blank Plate Ass'y
VJ3000-21-1A



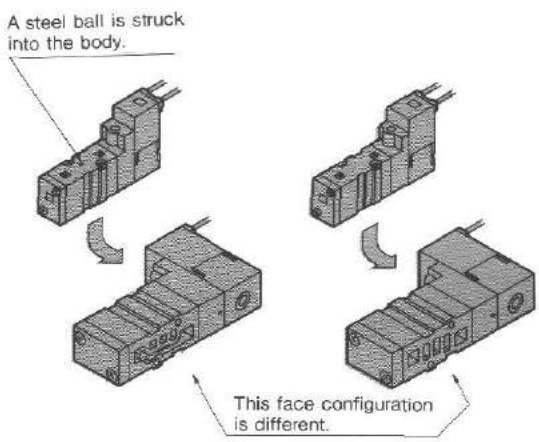
Applicable base
Subplate (VJ3000-22-1)
NVV5J3-41
NVV5J3-S41
NVV5J3-46
NVV5J3-S46
NVV5J3-31
NVV5J3-S31
NVV5J3-32
NVV5J3-S32

Note: Manifold gasket VJ3000-14-2 can be used with the following manifold bases.
NVV5J3-31
NVV5J3-S31
NVV5J3-32
NVV5J3-S32

Difference Between NVJ3○3○ and NVJ3○4○

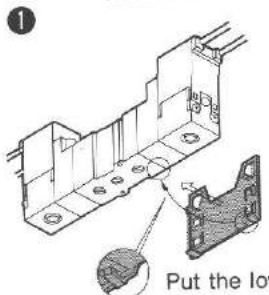
NVJ3○3○
(4 Port)

NVJ3○4○
(5 Port)

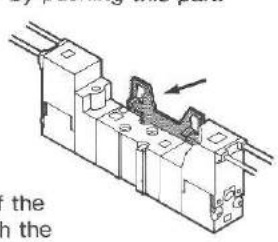


How to Mount Bracket (VJ3000-13-1)

❶



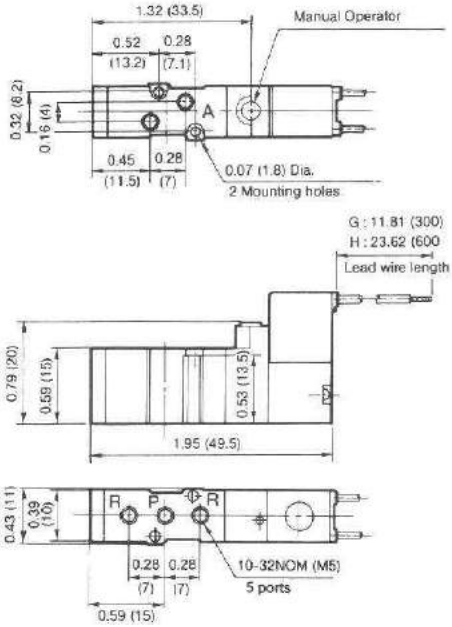
❷ Put the hooks of the bracket in the groove of the body by pushing this part.



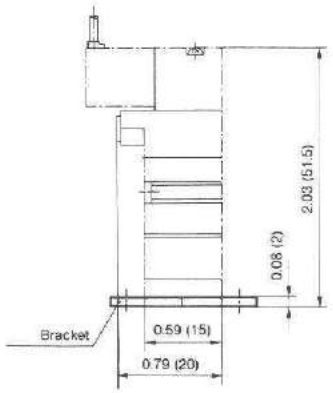
Body Ported Type : Single Solenoid

inch (mm)

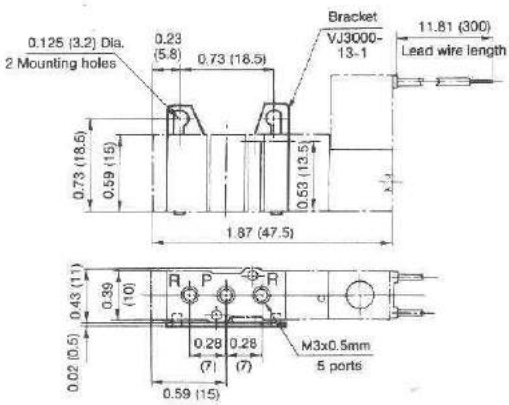
rommet (G) : NVJ3120○-○G○-M3
NVJ3120○-○H○-M3



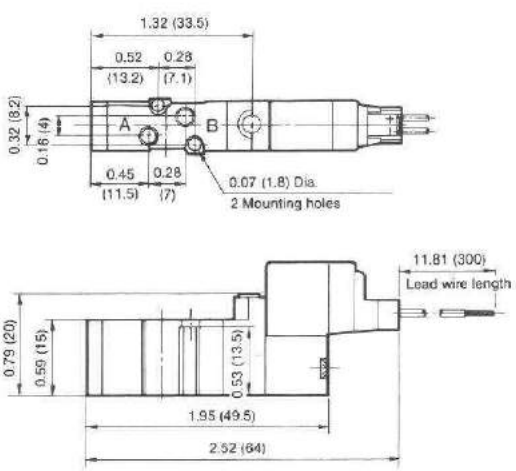
With Foot Bracket (F) (NVJ312○)
(for foot type bracket order with "F" suffix)
Note: Factory installed only.



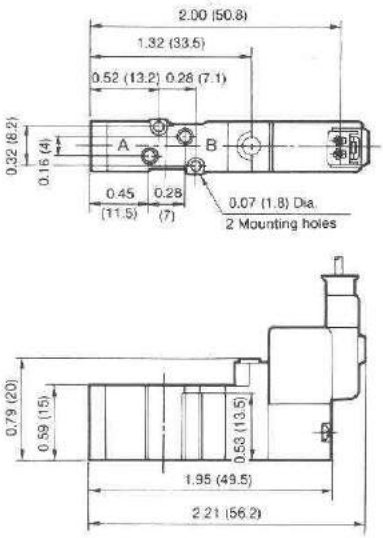
Body Bracket (F) NVJ3(2,3,4,5)2○
VJ3000-13-1



Type Plug Connector : NVJ3120○-○L○○-M3



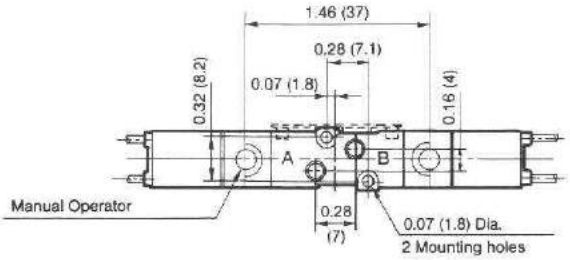
M Type Plug Connector : NVJ3120○-○M○○-M3

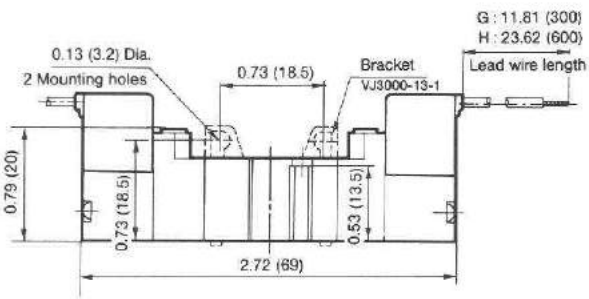


Body Ported Type : Double Solenoid

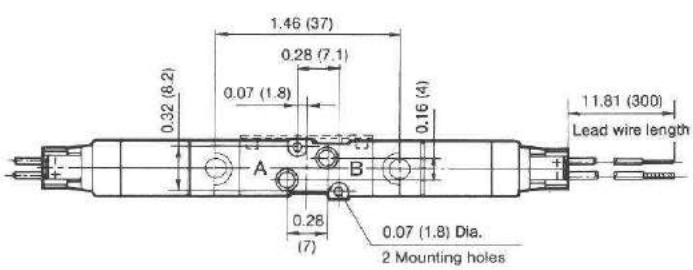
inch(mm)

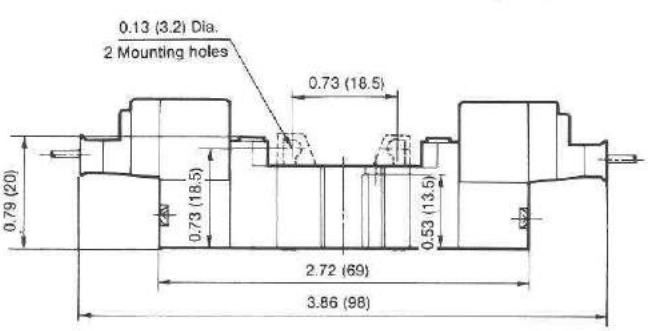
Grommet (G) : NVJ3220○-○G○-M3
(H) : NVJ3220○-○H○-M3



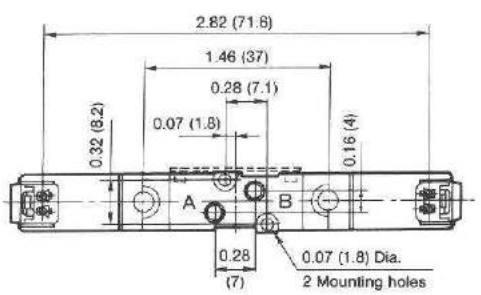


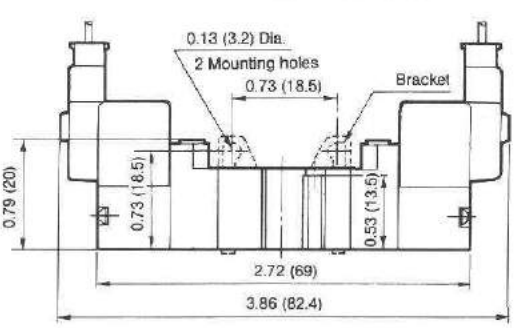
L Type Plug Connector (L) : NVJ3220○-○L○○-M3





M Type Plug Connector (M) : NVJ3220○-○M○○-M3

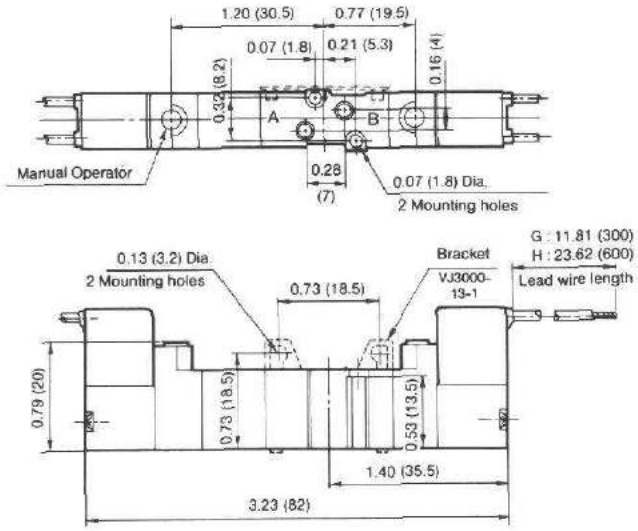




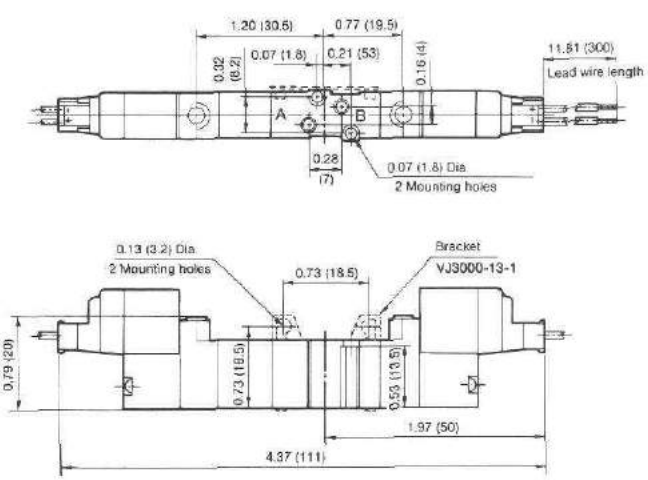
ody Ported Type : 3 Position

inch (mm)

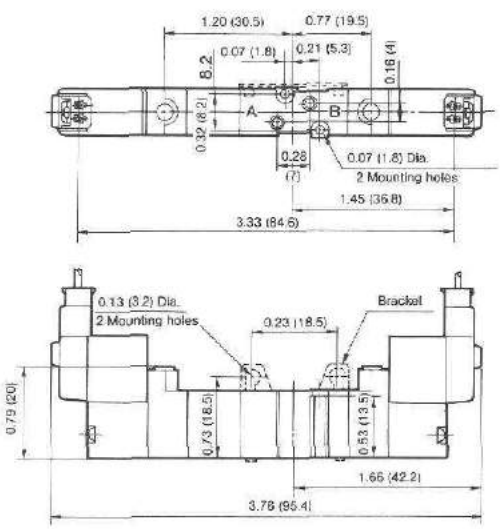
ommet (G) : NVJ3320○-○G○-M3, NVJ3420○-○G○-M3, NVJ3520○-○G○-M3
(H) : NVJ3320○-○H○-M3, NVJ3420○-○H○-M3, NVJ3520○-○H○-M3



Type Plug Connector (L) : NVJ3320○-○L○○-M3
NVJ3420○-○L○○-M3
NVJ3520○-○L○○-M3



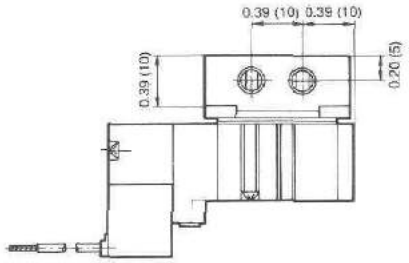
M Type Plug Connector (M) : NVJ3320○-○M○○-M3
NVJ3420○-○M○○-M3
NVJ3520○-○M○○-M3

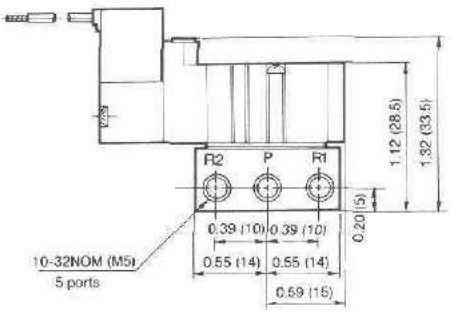


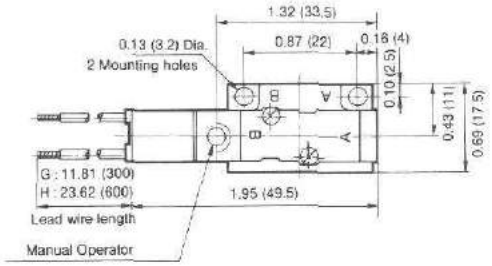
Base Mounted Type with Subplate/2 Position Single Solenoid

inch(mm)

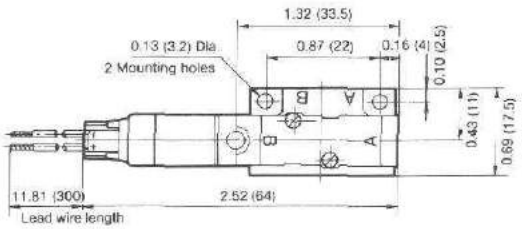
Grommet (G) : NVJ3140○-○G○-M5
(H) : NVJ3140○-○H○-M5

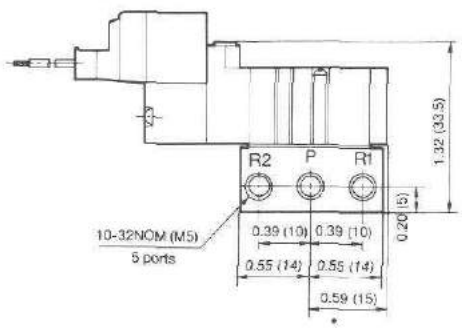




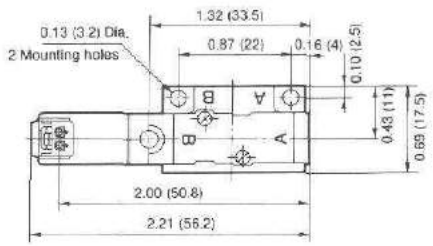


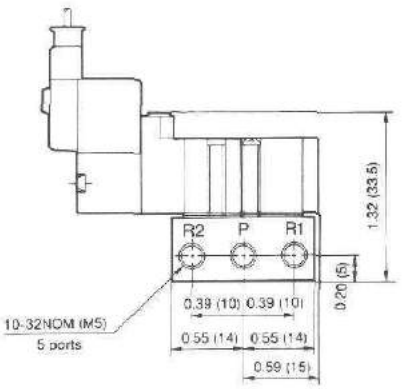
L Type Plug Connector (L) : NVJ3140○-○L○○-M5





M Type Plug Connector (M) : NVJ3140○-○M○○-M5

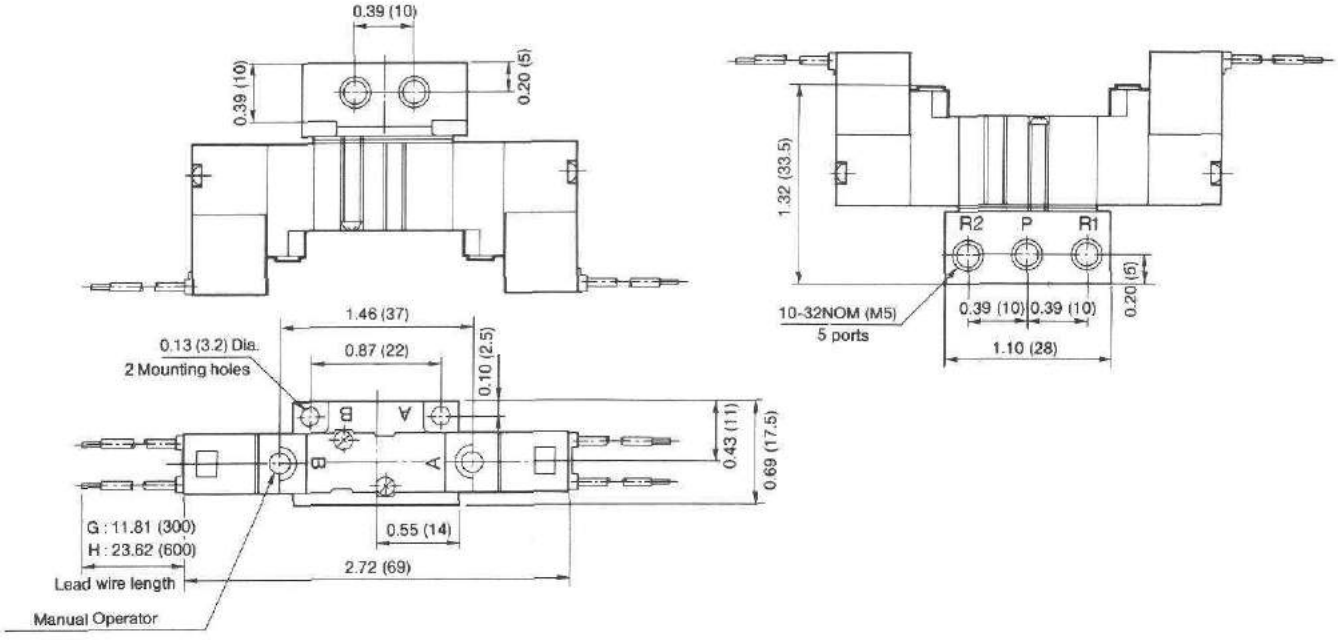




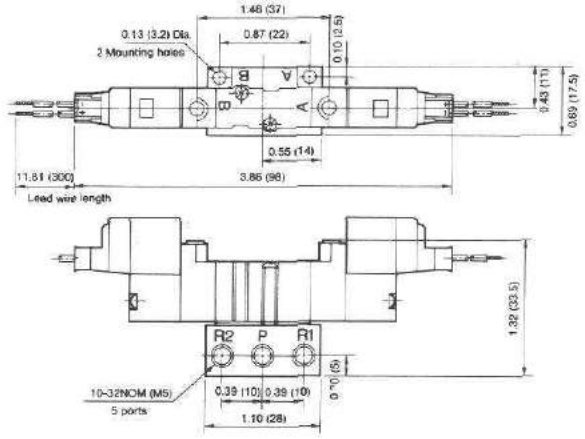
ase Mounted Type with Subplate/2 Position Double Solenoid

inch (mm)

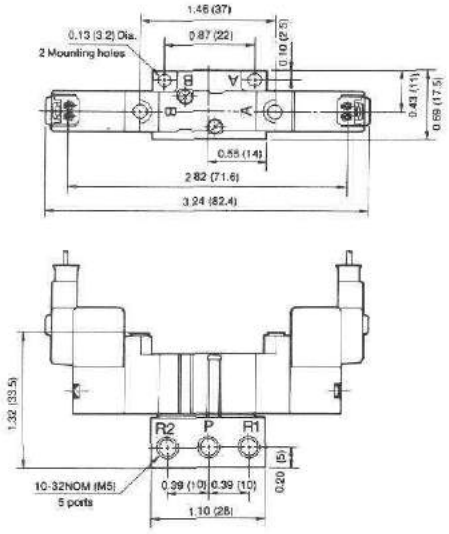
ɔmmet (G) : NVJ3240○-○G○-M5
(H) : NVJ3240○-○H○-M5



ɣpe Plug Connector (L) : NVJ3240○-○L○○-M5



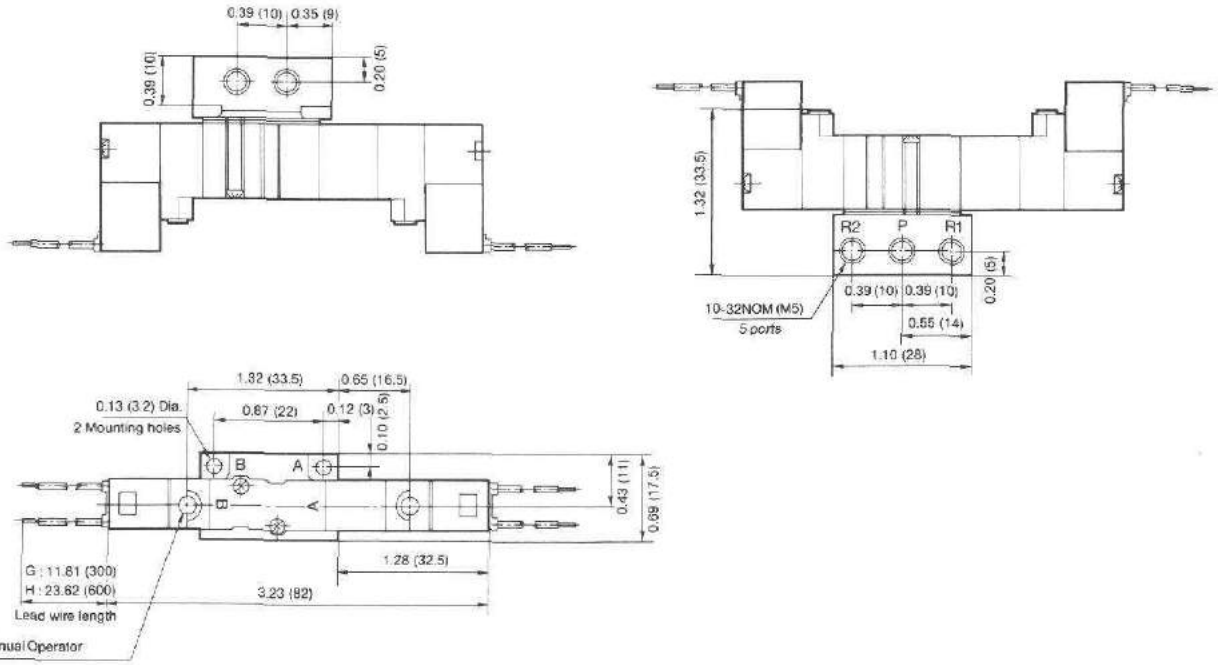
M Type Plug Connector (M) : NVJ3240○-○M○○-M5



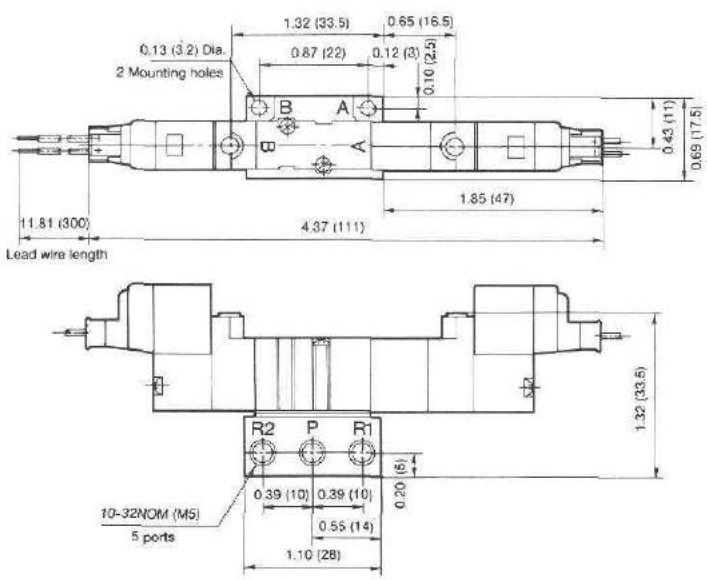
Base Mounted Type with Subplate/3 Position

inch(mm)

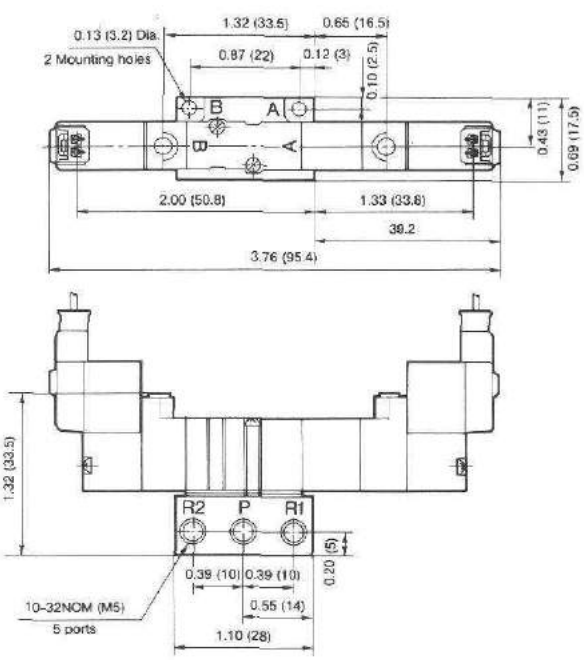
Grommet (G) : NVJ3340○-○G○-M5, NVJ3440○-○G○-M5, NVJ3540○-○G-M5
(H) : *NVJ3340*○-○H○-*M5*, *NVJ3440*○-○H○-*M5*, *NVJ3540*○-○*H-M5*



L Type Plug Connector (L) : NVJ3340○-○L○○-M5
NVJ3440○-○L○○-M5
NVJ3540○-○L○○-M5



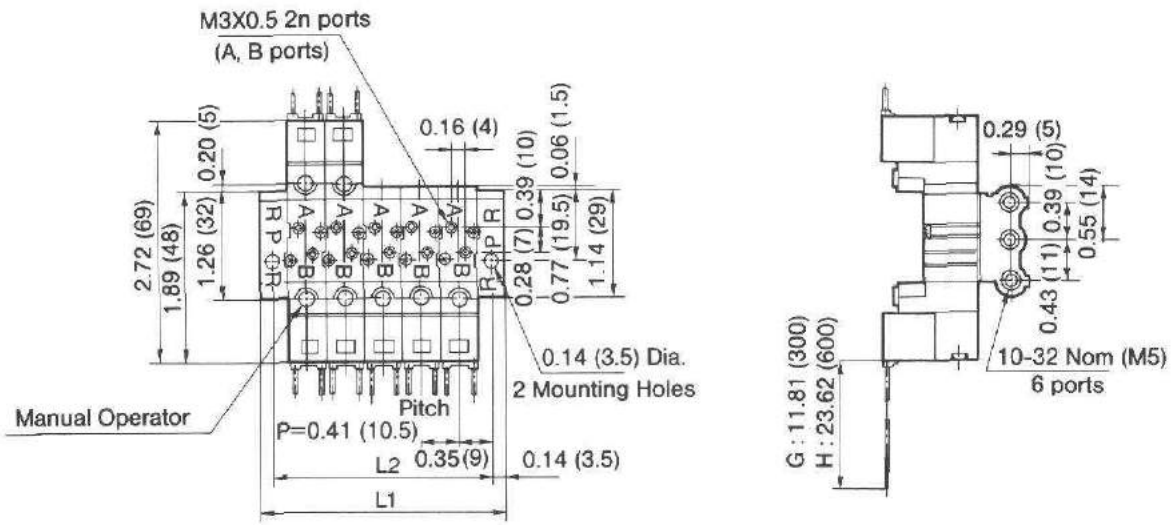
M Type Plug Connector (M) : NVJ3340○-○M○○-M5
NVJ3440○-○M○○-M5
NVJ3540○-○M○○-M5



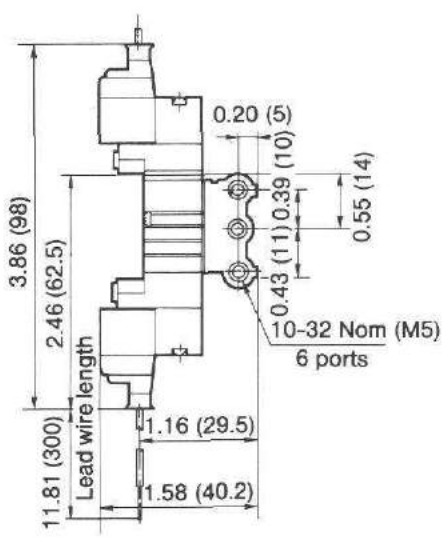
ype 20 Manifold : Top Ported/ NVV5J3-20-(Stations)

inch (mm)

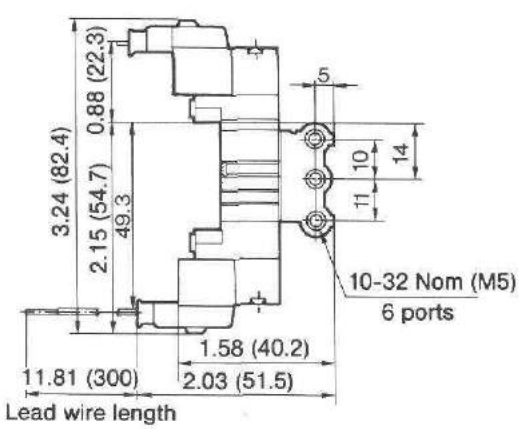
ommet (G)、(H)



Type Plug Connector (L)



M Type Plug Connector (M)

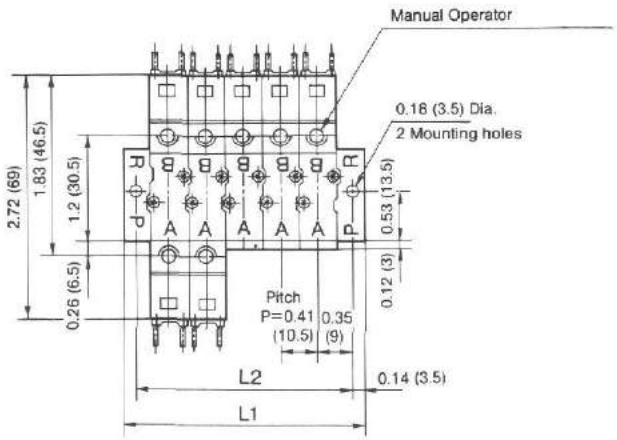


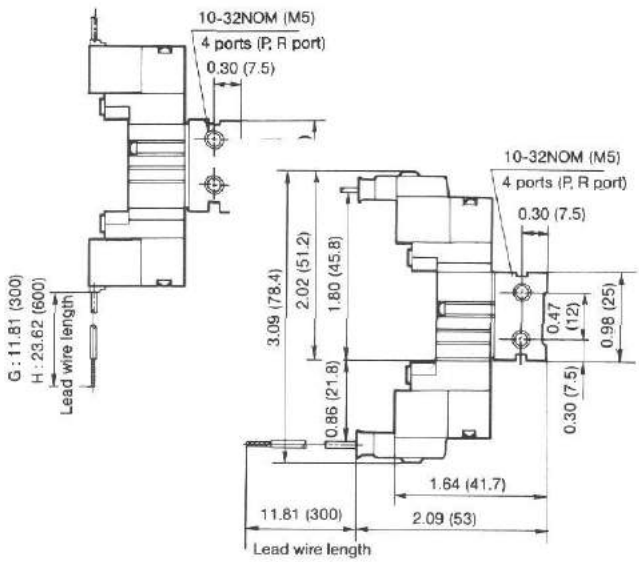
ations (n)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	1.40 (35.5)	1.81 (46)	2.22 (56.5)	2.64 (67)	3.05 (77.5)	3.46 (88)	3.88 (98.5)	4.29 (109)	4.70 (119.5)	5.12 (130)	5.53 (140.5)	5.94 (151)	6.36 (161.5)	6.77 (172)	7.19 (182.5)	7.60 (193)	8.01 (203.5)	8.43 (214)	8.84 (224.5)
	1.12 (28.5)	1.54 (39)	1.95 (49.5)	2.36 (60)	2.78 (70.5)	3.19 (81)	3.60 (91.5)	4.02 (102)	4.43 (112.5)	4.84 (123)	5.26 (133.5)	5.67 (144)	6.08 (154.5)	6.50 (165)	6.91 (175.5)	7.32 (186)	7.74 (196.5)	8.15 (207)	8.56 (217.5)

Type 31 Manifold : Side Ported / NVV5J3-31-(Stations)-M3

inch (mm)

Grommet (G)、(H)

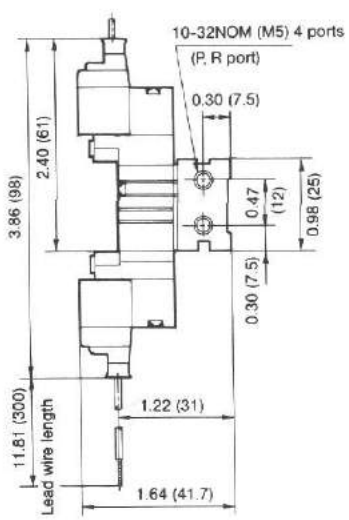




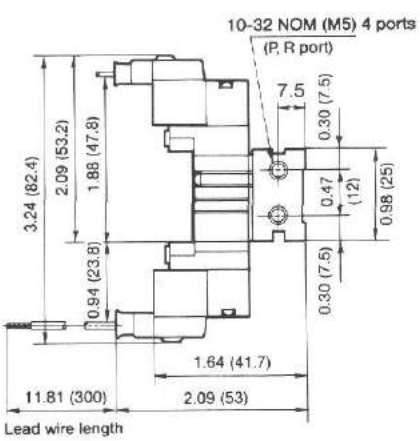
Type S31 / Side Ported

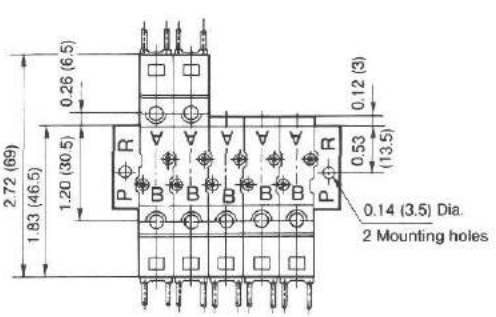
NVV5J3-S31-(Stations)-M3

L Type Plug Connector (L)



M Type Plug Connector (M)



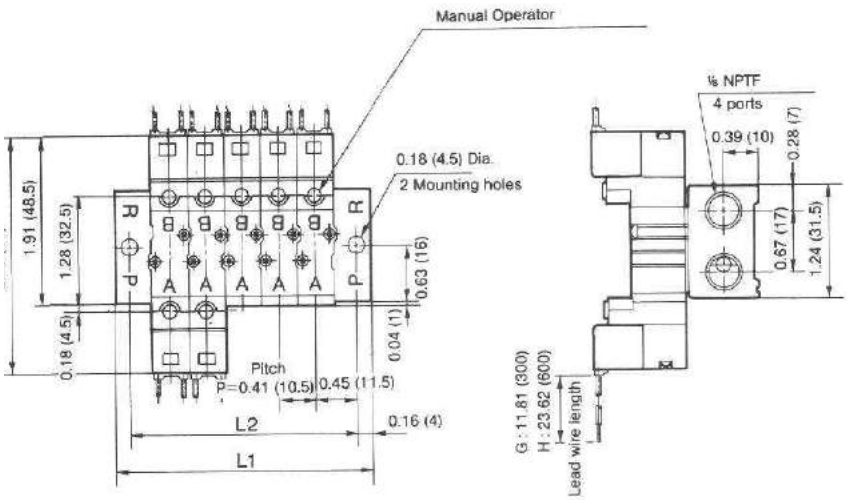


Stations (n)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	1.40 (35.5)	1.81 (46)	2.22 (56.5)	2.64 (67)	3.05 (77.5)	3.46 (88)	3.88 (98.5)	4.29 (109)	4.70 (119.5)	5.12 (130)	5.53 (140.5)	5.94 (151)	6.36 (161.5)	6.77 (172)	7.19 (182.5)	7.60 (193)	8.01 (203.5)	8.43 (214)	8.84 (224.5)
L2	1.12 (28.5)	1.54 (39)	1.95 (49.5)	2.36 (60)	2.78 (70.5)	3.19 (81)	3.60 (91.5)	4.02 (102)	4.43 (112.5)	4.84 (123)	5.26 (133.5)	5.67 (144)	6.08 (154.5)	6.50 (165)	6.91 (175.5)	7.32 (186)	7.74 (196.5)	8.15 (207)	8.56 (217.5)

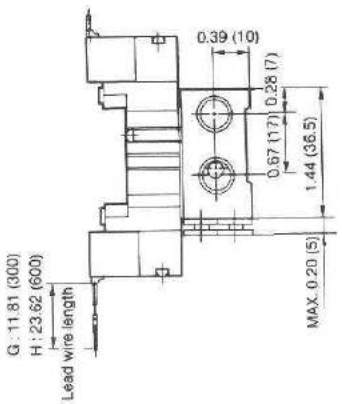
ype 32 Manifold : Side Ported/ NVV5J3-32-(Stations)-M5, B3T

inch (mm)

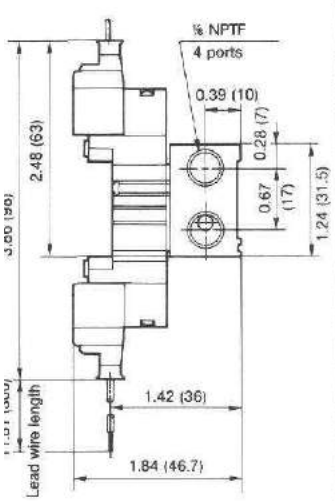
ommet (G)、(H)



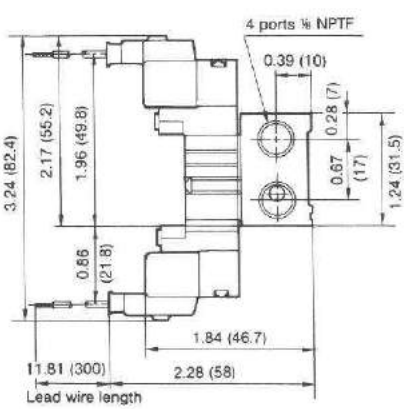
< In Case of B3T >



Type Plug Connector (L)

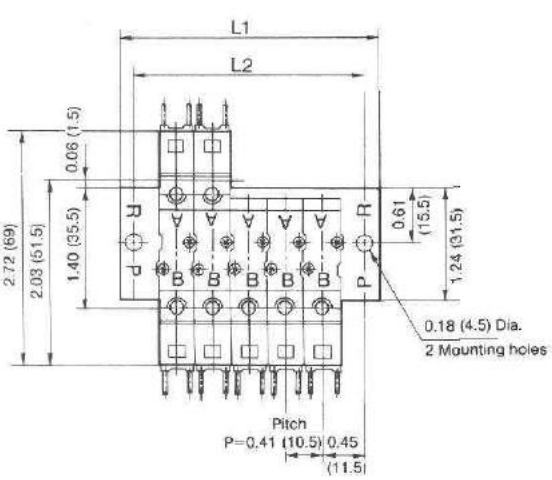


M Type Plug Connector (M)



Type S32/ Side Ported

NVV5J3-S32-(Stations)-M5、B3T



5

tations (n)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	1.63 (41.5)	2.05 (52)	2.46 (62.5)	2.87 (73)	3.29 (83.5)	3.70 (94)	4.11 (104.5)	4.53 (115)	4.94 (125.5)	5.35 (136)	5.77 (146.5)	6.18 (157)	6.59 (167.5)	7.01 (178)	7.42 (188.5)	7.83 (199)	8.25 (209.5)	8.66 (220)	9.07 (230.5)
2	1.32 (33.5)	1.73 (44)	2.15 (54.5)	2.56 (65)	2.97 (75.5)	3.39 (86)	3.80 (96.5)	4.21 (107)	4.63 (117.5)	5.04 (128)	5.45 (138.5)	5.87 (149)	6.28 (159.5)	6.69 (170)	7.11 (180.5)	7.52 (191)	7.93 (201.5)	8.35 (212)	8.76 (222.5)

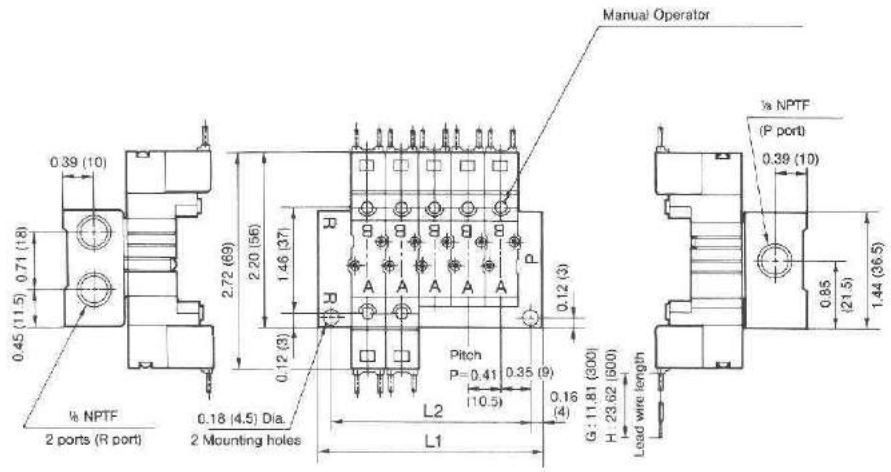
3T

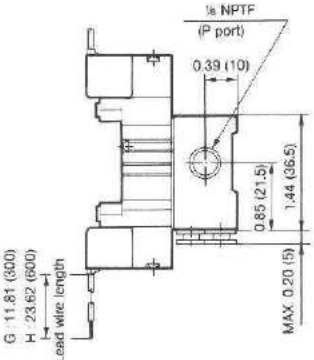
tations (n)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	1.67 (42.5)	2.09 (53)	2.50 (63.5)	2.91 (74)	3.33 (84.5)	3.74 (95)	4.15 (105.5)	4.57 (116)	4.98 (126.5)	5.39 (137)	5.81 (147.5)	6.22 (158)	6.63 (168.5)	7.05 (179)	7.46 (189.5)	7.87 (200)	8.29 (210.5)	8.70 (221)	9.11 (231.5)
2	1.32 (33.5)	1.73 (44)	2.15 (54.5)	2.56 (65)	2.97 (75.5)	3.39 (86)	3.80 (96.5)	4.21 (107)	4.63 (117.5)	5.04 (128)	5.45 (138.5)	5.87 (149)	6.28 (159.5)	6.69 (170)	7.11 (180.5)	7.52 (191)	7.93 (201.5)	8.35 (212)	8.76 (222.5)

Type 41 Manifold : Side Ported / NVV5J3-41-(Stations)-M5, B3T

inch (mm)

Grommet (G)、(H)

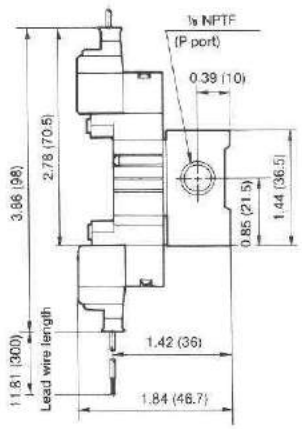




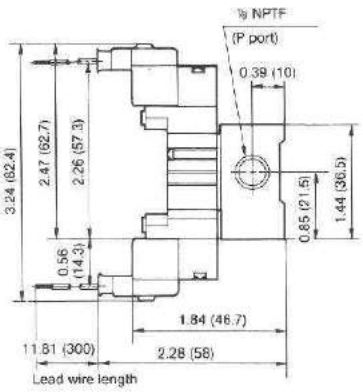
Type S41 / Side Ported

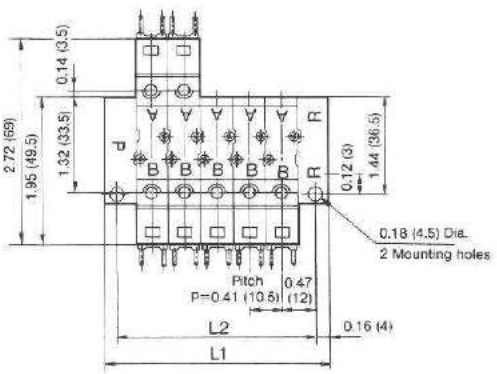
NVV5J3-S41-(Stations)-M5、B3T

L Type Plug Connector (L)



M Type Plug Connector (M)



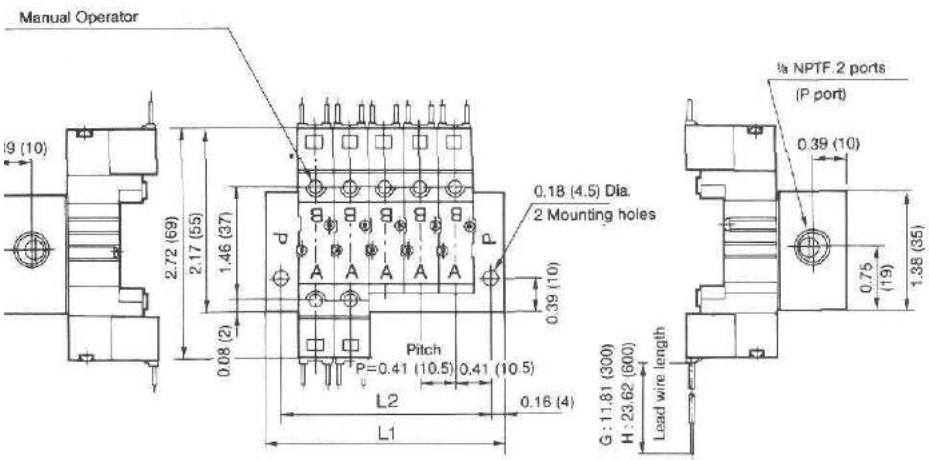


Stations (n)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	1.56 (39.5)	1.97 (50)	2.38 (60.5)	2.80 (71)	3.21 (81.5)	3.62 (92)	4.04 (102.5)	4.45 (113)	4.86 (123.5)	5.28 (134)	5.69 (144.5)	6.10 (155)	6.52 (165.5)	6.93 (176)	7.34 (186.5)	7.76 (197)	8.17 (207.5)	8.58 (218)	9.00 (228.5)
L2	1.24 (31.5)	1.65 (42)	2.07 (52.5)	2.48 (63)	2.89 (73.5)	3.31 (84)	3.72 (94.5)	4.13 (105)	4.55 (115.5)	4.96 (126)	5.37 (136.5)	5.79 (147)	6.20 (157.5)	6.61 (168)	7.03 (178.5)	7.44 (189)	7.85 (199.5)	8.27 (210)	8.68 (220.5)

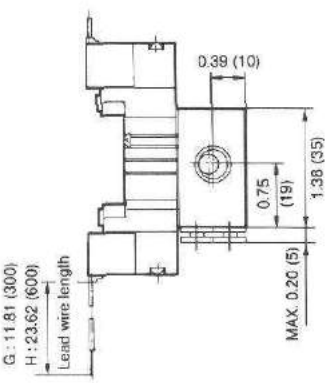
ype 46 Manifold : Side Ported/ NVV5J3-46-(Stations)-M5, B3T

inch(mm)

ommet (G)、(H)



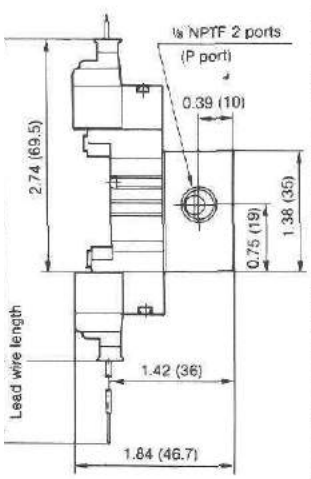
〈 In Case of B3T〉



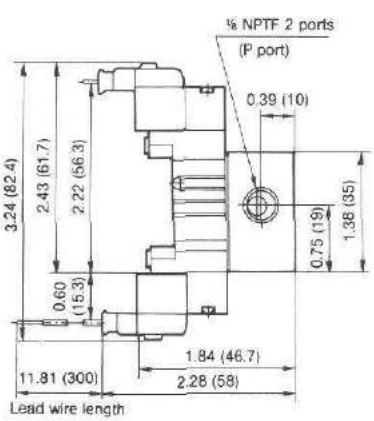
Type S46/ Side Ported

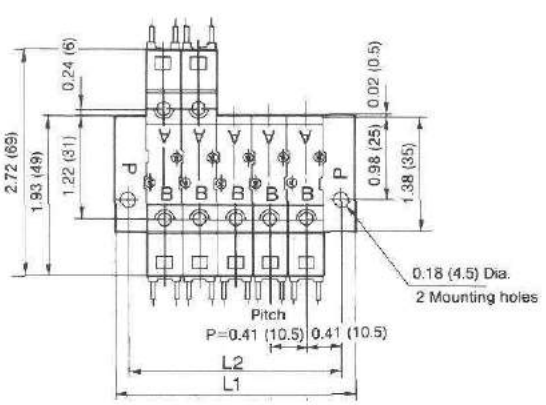
NVV5J3-S46-(Stations)-M5, B3T

Type Plug Connector (L)



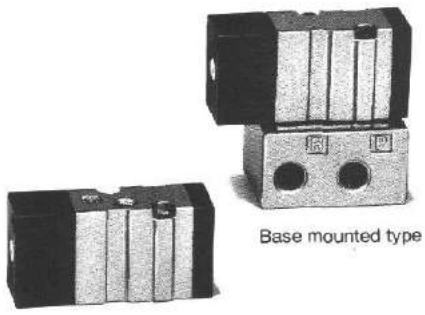
M Type Plug Connector (M)



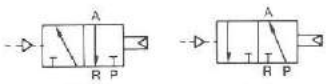


ations (n)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	1.56 (39.5)	1.97 (50)	2.38 (60.5)	2.80 (71)	3.21 (81.5)	3.62 (92)	4.04 (102.5)	4.45 (113)	4.86 (123.5)	5.28 (134)	5.69 (144.5)	6.10 (155)	6.52 (165.5)	6.93 (176)	7.34 (186.5)	7.76 (197)	8.17 (207.5)	8.58 (218)	9.00 (228.5)
	1.24 (31.5)	1.65 (42)	2.07 (52.5)	2.48 (63)	2.89 (73.5)	3.31 (84)	3.72 (94.5)	4.13 (105)	4.55 (115.5)	4.96 (126)	5.37 (136.5)	5.79 (147)	6.20 (157.5)	6.61 (168)	7.03 (178.5)	7.44 (189)	7.85 (199.5)	8.27 (210)	8.68 (220.5)

Cv 0.05, 0.1
3 Port Air Operated Valves
Series: NVJA300



Symbol



Model

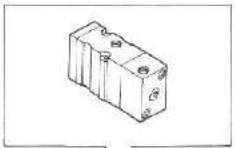
Body type	Model	Type of actuation	Port size	Cv factor	Pilot port size	Weight lbs (gf)
Body ported type	**NVJA312-M3**	N.C.	M3×0.5 [M3×0.5]	0.05 (0.05)	M3×0.5	0.04 (18)
	NVJA322-M3	N.O.				
Base mounted type with subplate	**NVJA314-M5**	N.C.	10-32 Nom. (M5) [10-32Nom. (M5) B3T]	0.1 [0.08]		0.086 (39) ⟨Without subplate⟩ ⟨0.04 (18)⟩
	NVJA324-M5	N.O.				

Note) B3T : One touch fitting for ⅝" tube.
[ ] : In case of manifold.

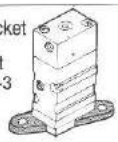
Specifications

Fluid	Air and inert gases
Operating pressure range	20~100PSI (1.5~7kgf/cm²)
Pilot pressure range	P~100PSI (P~7kgf/cm²) P : supply pressure
Ambient and fluid temperature	Max. 120°F (50°C)
Lubrication	Not required
Mounting position	Free
Impact/vibration resistance	15G/3G (8.3~2000Hz)

How To Order



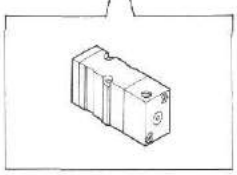
—: Without bracket
F: With bracket VJ3000-13-3 (Factory installed only)



• Bracket

Body Ported Type **NVJA3 ① 2–M3–○**

Base Mounted Type **NVJA3 ② 4–□**

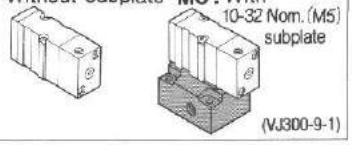


• Type of actuation

1	Normal closed
2	Normal open

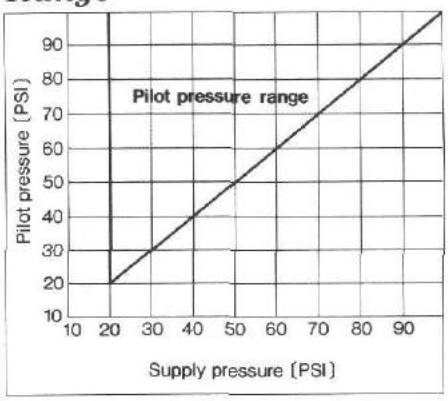
• Port size

—: Without subplate **M5**: With 10-32 Nom. (M5) subplate



(VJ300-9-1)

Operating Pilot Pressure Range



anifold Base: How to Order

ıe as NVJ300 series. Manifold base type 20, 41, S41, 42 and S42 are available. (Refer to page 10).

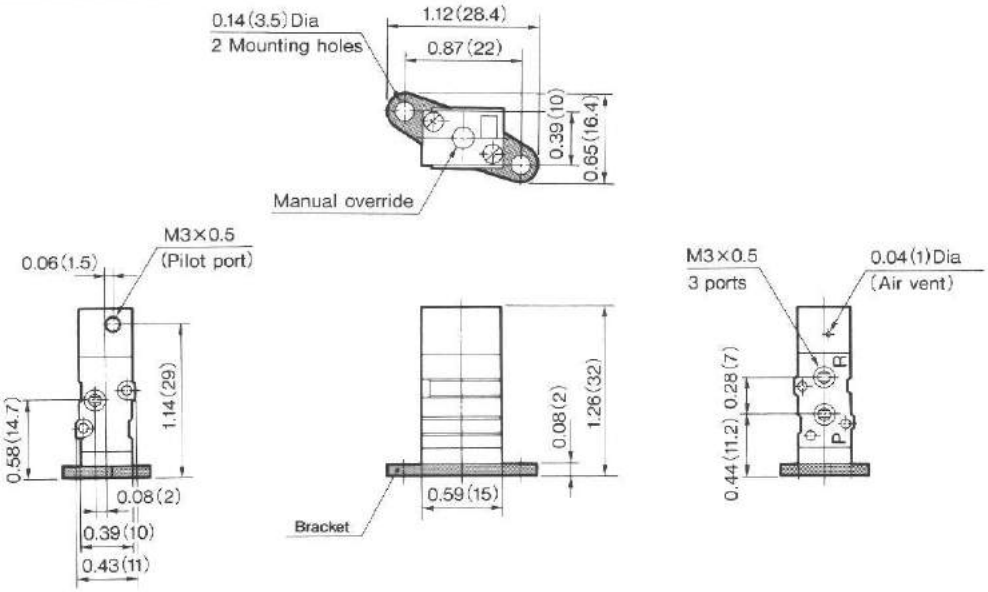
ase order the appropriate valves and/or blanking plate ass'y with the manifold base.
(ample) **NVV3J3-41-03-M3**

1 pc.....NVJA314
1 pc.....NVJA324
1 pc.....VJ300-10-1A

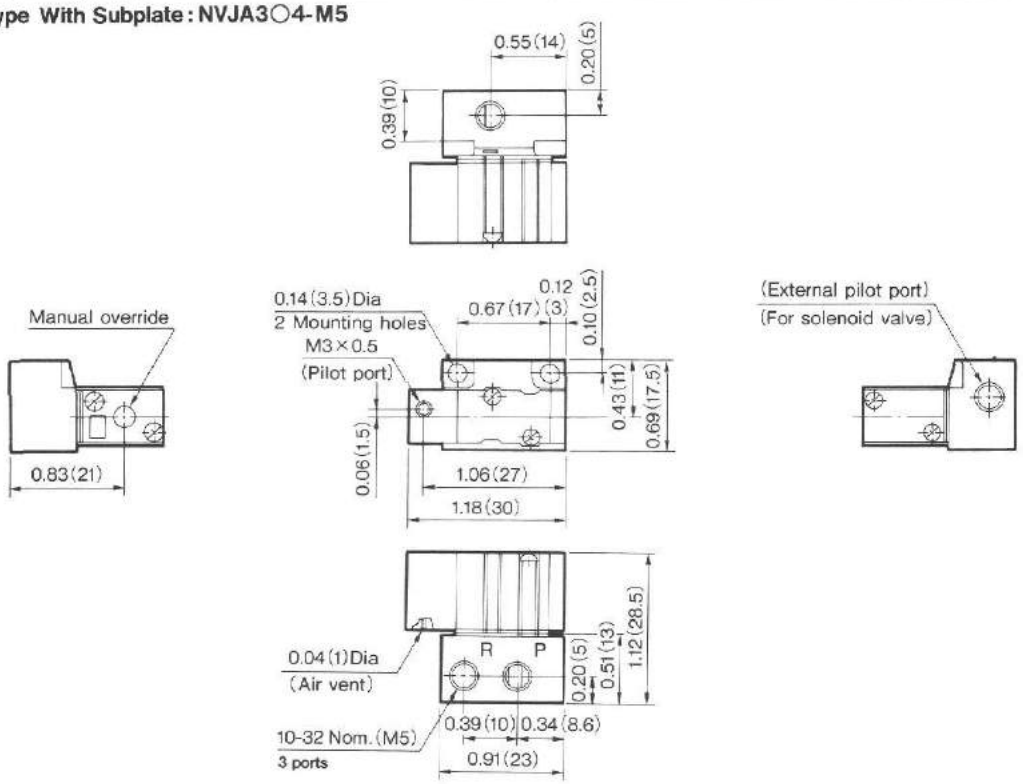
imensions

inch (mm)

dy Ported Type: NVJA3○2-M3 (-F)

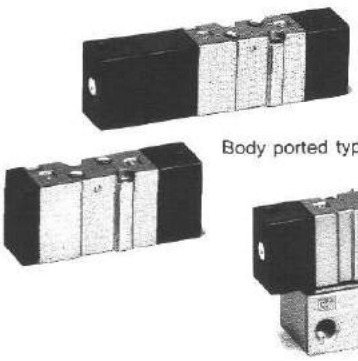


se Mounted Type With Subplate: NVJA3○4-M5



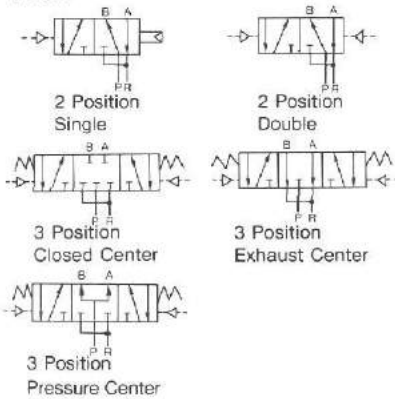
Cv 0.05, 1

5 Port Air Operated Valve
Series: NVJA3000

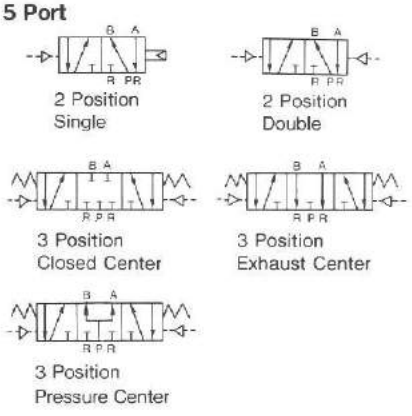


Symbol

4 Port



5 Port



Model

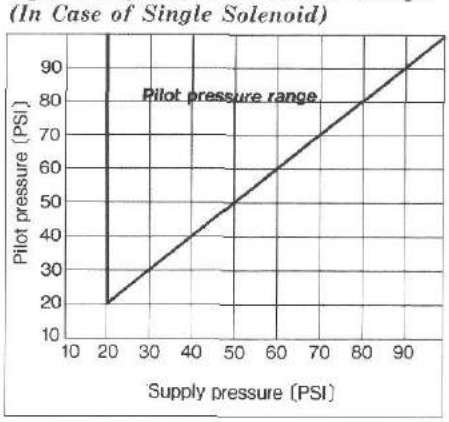
Body type	Model	Type of actuation	Port size	Cv factor	Pilot port size	Weight lbs (gf)
Body ported type	**NVJA3120**	2 position single	M3×0.5 [M3×0.5]	0.05 [0.05]	M3×0.5	0.048 (22)
	NVJA3220	2 position double				0.055 (25)
	NVJA3320	3 position closed center				0.062 (28)
	NVJA3420	3 position exhaust center				
	NVJA3520	3 position pressure center				
4 port Base mounted type (manifold only)	**NVJA3130**	2 position single	[M3×0.5 / 10-32 Nom. (M5) One touch fitting for 5/32" tube]	[0.05 / 0.067]	M3×0.5	0.048 (22)
	NVJA3230	2 position double				0.055 (25)
	NVJA3330	3 position closed center				0.062 (28)
	NVJA3430	3 position exhaust center				
	NVJA3530	3 position pressure center				
5 port Base mounted type	**NVJA3140**	2 position single	10-32 Nom. (M5) [10-32 Nom. (M5) One touch fitting for 5/32" tube]	1.0 [(S) 41 : 0.08 (S) 46 : 0.055]	M3×0.5	0.106 (48) 《0.048 (22)》
	NVJA3240	2 position double				0.112 (51) 《0.055 (25)》
	NVJA3340	3 position closed center				0.119 (54) 《0.062 (28)》
	NVJA3440	3 position exhaust center				
	NVJA3540	3 position pressure center				

《 》: Without subplate

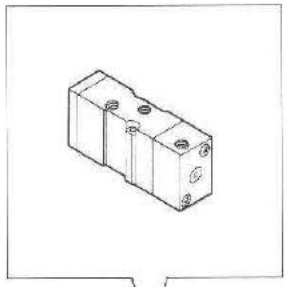
Specifications

Fluid		Air and inert gases
Operating pressure range	2 position single	20~100PSI (1.5~7kgf/cm²)
	2 position double	0~100PSI (0~7kgf/cm²)
	3 position	0~100PSI (0~7kgf/cm²)
Pilot pressure range	2 position single	P~100PSI (P~7kgf/cm²) P:Supply pressure
	2 position double	14~100 (1~7kgf/cm²)
	3 position	28~100 (2~7kgf/cm²)
Ambient and fluid temperature		Max. 120°F (50°C)
Lubrication		Not required
Mounting position		Free
Impact/Vibration resistance		15G/3G (8.3~2000Hz)

Operating Pilot Pressure Range
(In Case of Single Solenoid)



ow to Order

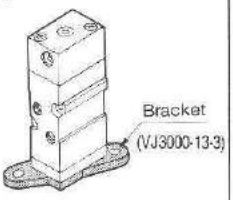


•Bracket

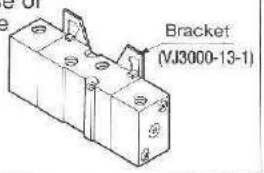
F : With bracket

In case of single

(factory installed only)

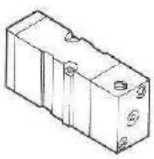


In case of double

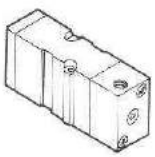


Body Ported Type	NVJA3 (1) 20–M3–( )
Port/Base Mounted Type	NVJA3 (2) 30 (Manifold only)
Port/Base Mounted Type	NVJA3 (3) 40–( )

4 port



5 port

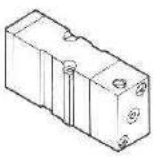


•Type of actuation

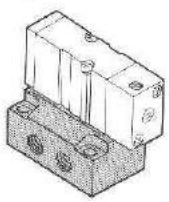
1	2 position single
2	2 position double
3	3 position closed center
4	3 position exhaust center
5	3 position pressure center

• Port size

—: Without subplate



M5: With 10-32 Nom. (M5) subplate



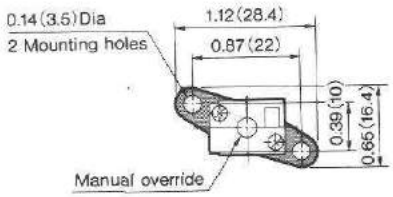
(VJ3000-22-1)

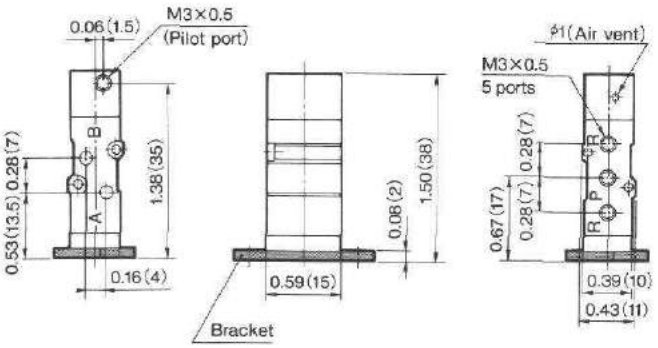
anifold Base: How to Order

ne as NVJ3000 series (Refer to page 22).

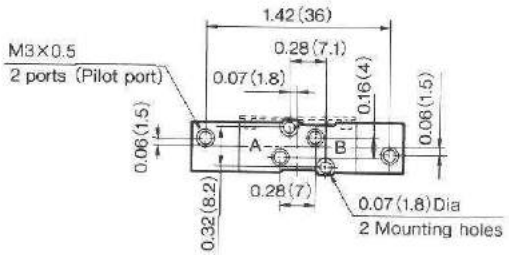
Body Ported Type

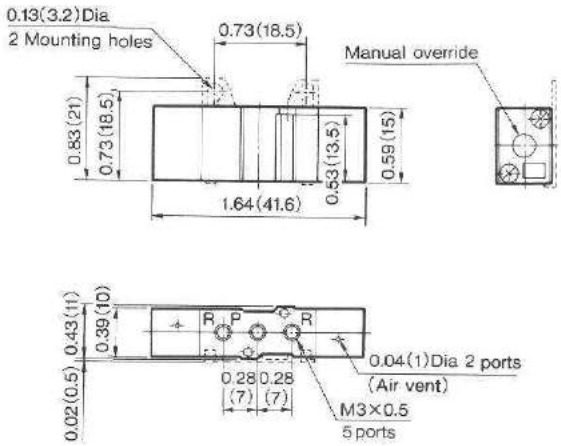
2 Position Single : NVJA3120-M3(-F)



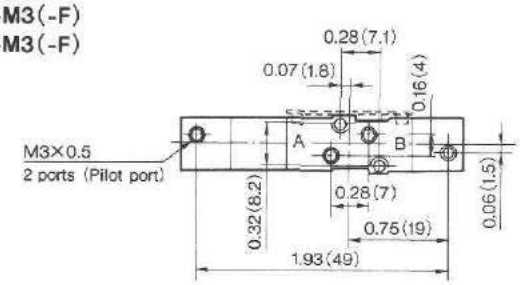


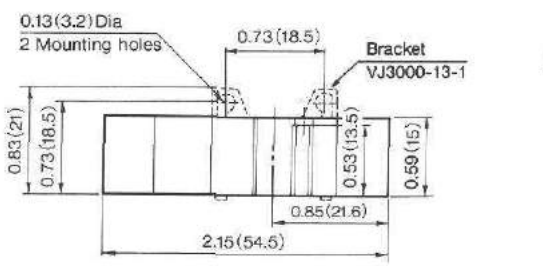
2 Position Double : NVJA3220-M3(-F)

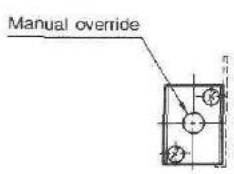


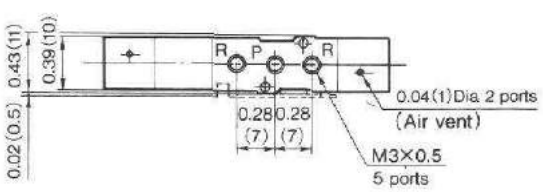


3 Position : NVJA3320-M3(-F)
NVJA3420-M3(-F)
NVJA3520-M3(-F)



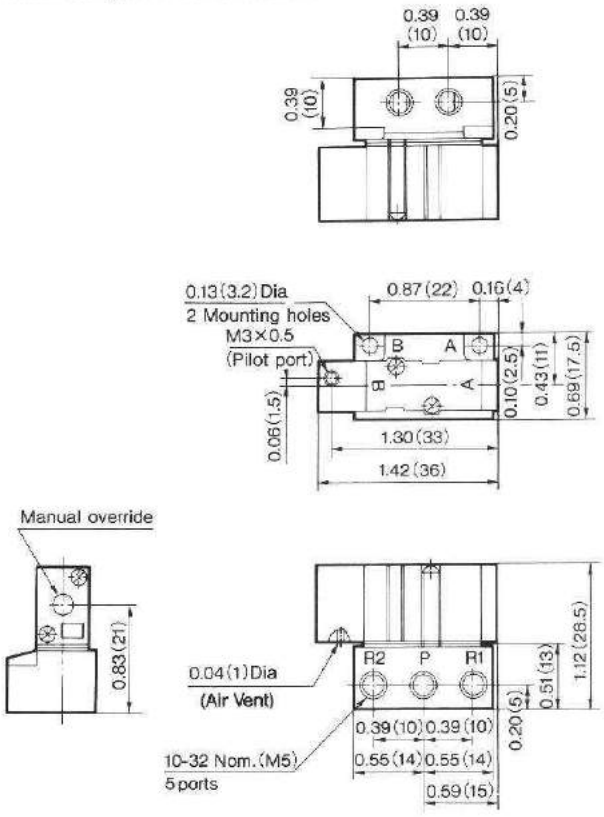




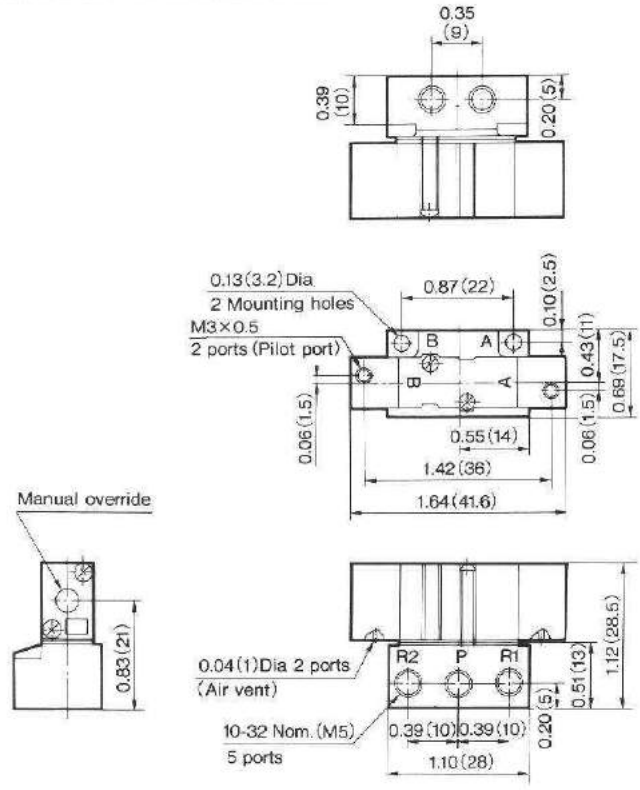


ase Mounted Type with Subplate

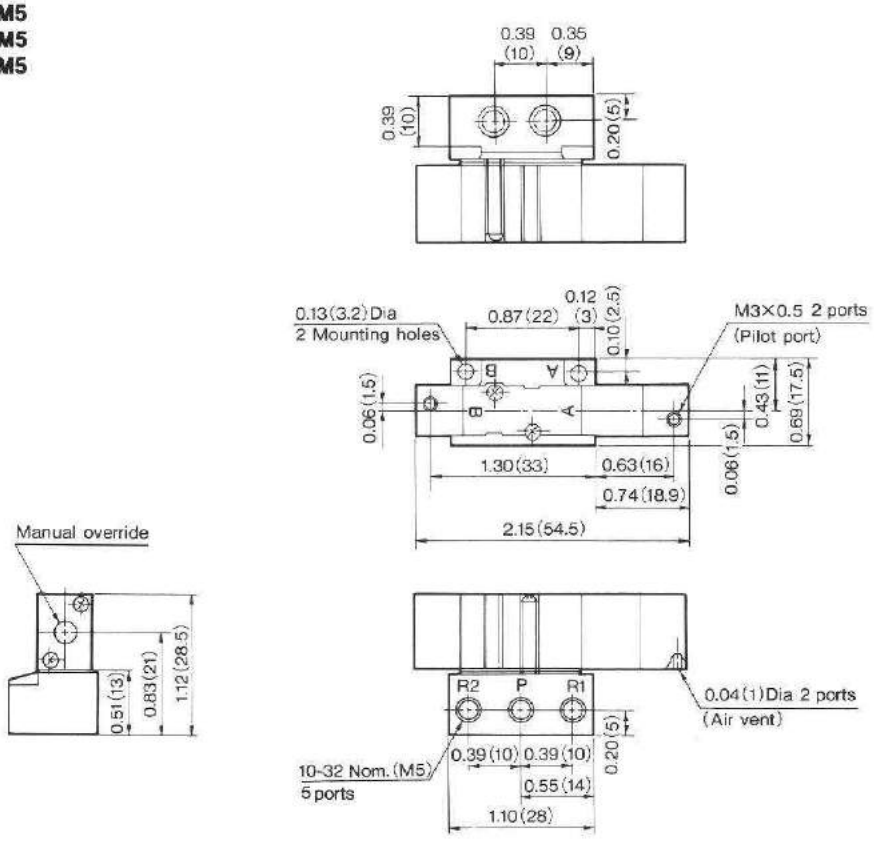
osition Single : NVJA3140-M5



2 Position Double : NVJA3240-M5



osition : NVJA3340-M5
NVJA3440-M5
NVJA3540-M5



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