MODEL
NVFS5000

Position	Number Of Solenoid	Type Plug-In	Port Size (NPTF)	Cv Factor	Response Time (ms)
2 Position	Single	NVFS5100	3/8 1/2 3/4	4.4 5.4 5.7	45 or less
	Double	NVFS5200	3/8 1/2 3/4	4.4 5.4 5.7	25 or less
3 Position	Closed Center	NVFS5300	3/8 1/2 3/4	3.7 4.6 4.8	55 or less
	Exhaust Center	NVFS5400	3/8 1/2 3/4	3.9 4.8 5	55 or less
	Pressure Center	NVFS5500	3/8 1/2 3/4	3.9 4.8 4.9	55 or less
	Perfect (Double Check)	NVFS5600	3/8 1/2 3/4	2.2 2.7 2.8	60 or less

SYMBOLS

2 position	3 position
Single	Closed center
	
Double	Exhaust center
	
	Pressure center
	
	Perfect (double check)
	

TECHNICAL SPECIFICATIONS STANDARD

Valve	Fluid		Air and Inert Gas
	Max Operating Pressure		150 PSI (1MPa)
	Min Operating Pressure		15 PSI (0.15MPa)
	Ambient & Fluid Temperature		Note 1) 14~140°F (-10~60°C)
	Lubrication		Note 2) Not Required
	Pilot Operator Manual Override		Non Locking Push Type (Flush)
	Protection Construction		Dust Proof
Electrical	Rated Voltage	AC	110VAC50/60Hz, 220V50/60Hz, 24V50/60Hz
		DC	12V, 24V
	Allowable Voltage Range		-15 ~ 10% Rated Voltage
	Coil Insulation		Class B or Equivalent
	Apparent Power AC (Power Consumption)	InRush	5.0VA/60Hz, 5.6VA/50Hz
		Holding	2.3VA(1.5W)/60Hz, 3.4VA(2.1W)/50Hz
	Power Consumption DC		1.8W
	Electrical Entry	Plug In	Conduit Terminal (Base Access)

TECHNICAL SPECIFICATIONS OPTIONAL

Pilot Type		External Pilot Type
Manual Override	Main Valve	Direct Manual Override Type
	Pilot Operator	Non Locking Push Type (Extended), Lock Type (Tool), Lock Type (Lever)
Voltage	AC	100V50/60Hz, 200V50/60Hz
	DC	6V, 48V, 100V
Porting		Bottom Ported Subplate
Option		W/Indicator Light & Surge Voltage Suppressor

Note 1) Use Dry Air at Low Temperature
Note 2) Use Turbine Oil No 1 (ISOVG32), if lubricated

HOW TO ORDER NVFS5000

NVFS 5 ○ 0 ○ ○ — ○ F ○ ○ — ○ ○

POSITION
1 .....2 Position Single
2 .....2 Position Double
3 .....3 Position Closed Center
4 .....3 Position Exhaust Center
5 .....3 Position Pressure Center
6 .....3 Position Perfect

BODY TYPE
0 .....Plug-In Type

MANUAL OPTION
0 .....Standard
1 .....Std & Direct Manual (Special Order)

PILOT OPERATOR
- .....Internal
R .....External (Special Order)

VOLTAGE
1 .....100VAC (Special Order)
2 .....200VAC (Special Order)
3 .....110VAC
4 .....220VAc
5 .....24VDC
6 .....12VDC
9 .....Others (Special Order)

ELECTRICAL ENTRY
F .....Through Base

OPTIONS
- .....None
Z .....With Indicator Light and Surge Voltage Suppressor

MANUAL OVERRIDE
- .....Non Locking Push Type (Flush)
*A ...Non Locking Push Type (Extended)
B .....Lock Type (Screw Type)
*C ...Lock Type (Lever)

Note) * Special Order

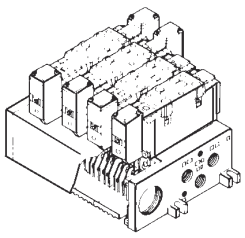
PORTING
- .....Side
*B ...Bottom
Note) *1/8 NPTF Only

PORT SIZE
- .....Without Subplate
03T ...3/8 NPTF
04T ...1/2 NPTF
06T ...3/4 NPTF

HOW TO ORDER MANIFOLD

Plug-in Type: With Terminal Block

●Lead wires of solenoid valve are connected with the terminals on upper surface of terminal block, corresponding lead wires from power source can be wired at the bottom of terminal block.



NVV5FS5 – 01T – 06 1 – 04T

Series NVFS5000 Manifold valve

Plug-in type With terminal block

Stations

02	2 stations
⋮	⋮
10	10 stations

Symbol

Suffix	Port specifications		Porting specifications (A, B)
	P	EA, EB	
1	Common	Common	Side
※2			※ Bottom
	Mixed		

※Special order

Port size

Suffix	P, EA, EB	A, B
04T	¾ NPTF	½ NPTF
06T		¾ NPTF

※Bottom ported 1/2NPTF only.

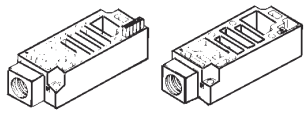
HOW TO ORDER MANIFOLD / OPTION PARTS ASSEMBLY

Manifold / Option Part's Ass'y

SUP Relocation spacer

An individual SUP spacer on manifold block can form individual P port for the valve.

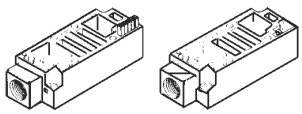
Body type	Plug-in type
Part No.	NVVFS5000-P-04T-1



EXH Relocation spacer

An individual EXH spacer on manifold block can form individual R port for the valve

Body type	Plug-in type
Part No.	NVVFS5000-R-04T-1



SUP gallery block disc

When supplying manifold with more than one pressure, insert block disc in between stations subjected to different pressures.

Body type	Plug-in type
Part No.	AXT628-12A

SUP block disc

EXH gallery block disc

When valve exhaust affects the other stations on the circuit or when externally piloted, dual pressure valve is used on a standard manifold, insert EXH block disc(s) in between stations to separate valve exhaust.

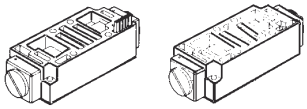
Body type	Plug-in type
Part No.	AXT512-14-1A

EXH block disc

Interface speed control

Needle valve on the manifold block can control cylinder speed by throttling exhaust.

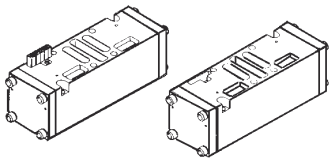
Body type	Plug-in type
Part No.	NVVFS5000-20A-1



Double Check "Perfect" spacer

The concurrent use of perfect spacer with built-in double check valve can stop the cylinder at mid-position and hold for extended time without being affected by normal air leakage across the spool seals.

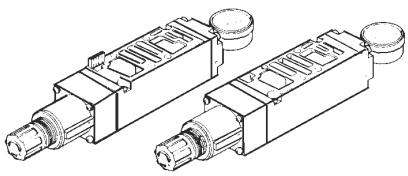
Body type	Plug-in type
Part No.	NVVFS5000-22A-1



Interface regulator

Spacer type regulating valve on manifold block can regulate the pressure to the valve.

Body type	Plug-in type
Pressure Regulation P	NARBF5000-N0-P-1
Pressure Regulation A	NARBF5000-N0-A-1
Pressure Regulation B	NARBF5000-N0-B-1



Blank plate

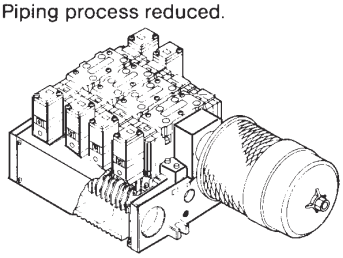
When disassembling valve for maintenance purposes or when spare manifond stations are required, install Blank plate on the manifold block.

Body type	Plug-in type
Part No.	VVFS5000-10A

Manifold Options

With Exhaust Cleaner Plug-in type

- Valve exhaust noise damping: 35dB or more.
- Oil mist collection: Rate of collection 99.9% or more.
- Piping process reduced.



For more information, Please refer to catalog N233