

Product Profile

Explosion Proof Solenoid Valve

Series 50-VFE/50-VPE

Explosion proof solenoid valve
5 port/50-VFE3000, 5000
3 port/50-VPE500, 700

■ **Quality of explosion proof spec. Conforming to International Standard (IEC standard) as well**

Type of explosion proof construction: Withstand pressure explosion proof construction

d2G4 (Certificate model no. T46132)

Exd II BT4 (Certificate model no. TC14604)

* This product is conforming to the conventional explosion-proof construction standard for the electric machine and apparatus (bulletin no. 16 pronounced by Japanese Labor Ministry in 1969) and the new standard (technical standard newly established based on International Electrotechnical Commission (IEC standard 79)).

■ **Waterproof**

Conforming to JIS F 8001 Class 3 Sprinkle Test

■ **Exhausting equipment for pilot valve not required.**

Common exhaust type for main and pilot valve (50-VFE3000)

In order to protect the environment, exhaust from a pilot valve is discharged through common exhaust.

■ **Possible to be into manifold (50-VFE3000, 50-VFE5000)**

Can deal with the manifold type up to 10 stations at the maximum.

■ **As a selector valve, divider valve, or able to use for vacuum applications. (50-VPE500, 50-VPE700)**

If it is changed to external pilot method, universal porting will be available the same like direct type. And it can be used in the vacuum applications.



Series 50-VFE



Series 50-VPE

Specifications: 50-VFE3000/5000

Series		50-VFE3000	50-VFE5000
Fluid		Air	
Operating pressure range	2 position single/3 position	0.15 to 0.9 MPa	
	2 position double	0.1 to 0.9 MPa	
Ambient and fluid temperature		Max. 50°C	
Response time	2 position single/double	45 ms or less ^{Note)}	45 ms or less ^{Note)}
	3 position	60 ms or less ^{Note)}	70 ms or less ^{Note)}
Max. operating frequency	2 position single/double	5 Hz	5 Hz
	3 position	2 Hz	2 Hz
Lubrication		Not required	
Manual override		Non-locking push type, Push-turn locking type D	
Mounting orientation		Unrestricted	
Pilot valve EXH		Individual exhaust Common exhaust type for main and pilot valve	Individual exhaust Pilot common exhaust

Note) Based on dynamic performance test, JIS B 8375-1981. (0.5 MPa, at rated voltage, without surge voltage suppressor.)

Specifications: 50-VPE500/700

Fluid		Air	
Type of actuation		N.C. or N.O. (Convertible)	
Pilot type		Internal pilot	External pilot
Operating pressure range	0.2 to 0.8 MPa	Supply pressure	-101.2 kPa to 0.8 MPa
		External pilot pressure	0.2 to 0.8 MPa
Ambient and fluid temperature		Max. 50°C	
Response time		45 ms or less (at 0.5 MPa) ^{Note)}	
Max. operating frequency		5 Hz	
Lubrication		Not required	
Manual override		Non-locking push type	
		Push-turn locking type D	
Mounting orientation		Unrestricted	

Note) Based on dynamic performance test, JIS B 8374-1981. (At rated voltage, without surge voltage suppressor.)

Refer to the separate catalog CAT.ES11-59 for the detailed specifications.

- SJ
- SY
- SV
- SYJ
- SZ
- VP4
- S0700
- VQ
- VQ4
- VQ5
- VQC
- VQZ
- SQ
- VFS
- VFR
- VQ7