



Contact our sales office for delivery dates and prices as this is a special model.

SP031X-054E
P: IQ

 **P.G.Information** (Specialized Product)

Explosion Proof 5 Port Solenoid Valve

Certified by NEPSI (Chinese Agency)

50-VFE3000/5000-X50

SMC CORPORATION
4-14-1,SOTO-KANDA,
CHIYODA-KU,
TOKYO 101-0021, JAPAN
URL <http://www.smcworld.com>

■Features:

NEPSI* certified model (*: National Supervision and Inspection Centre for Explosion Protection and Safety of Instrumentation)



■Specifications

Fluid	Air	
Operating pressure range	2-position single/3-position	0.15 to 0.9MPa
	2-position double	0.1 to 0.9MPa
Ambient and fluid temperature	- 10 to 50°C (No freezing)	
Response time (Note)	2-position single/ double	45ms or less
	3-position	50-VFE3000: 60ms or less 50-VFE5000: 70ms or less
Max. operating frequency	2-position single/ double	5Hz
	3-position	2Hz
Lubrication	Not required	
Override	Non-locking push type、Push-turn locking D type	
Mounting orientation	Unrestricted	

Note: Based on dynamic performance test, JIS B8375-1981 (0.5 MPa, at rated voltage, without surge voltage suppressor)

• Solenoid Specifications

*: Option

Rated voltage	AC (50/60 Hz)		100 V, 200 V, 12 V*, 24 V*, 32 V*, 48 V*, 110 V*, 120 V*, 220 V*, 240 V*
	DC		24 V, 6 V*, 12 V*, 30 V*, 48 V*, 75 V*, 100 V*, 110 V*, 120 V*, 125 V*
Allowable voltage fluctuation	-15 to 10% of rated voltage		
Apparent power	AC	Inrush	9.1 VA (50 Hz), 7.8 VA (60 Hz)
		Holding	6.2 VA (50 Hz), 4.6 VA (60 Hz)
Power consumption	DC	3.5 W (rated voltage of 6, 12, 24 V) (Note)	
Explosion proof construction	Explosion proof construction d2G4, Exd II BT4		
Lead inlet type	Conduit proof pressure threads connection type, pressure-resistant packing type		
Electrical entry	Conduit terminal		
Coil insulation	Class B (130°C)		

Note: 4 W for other voltages

• Flow-rate Characteristics

50-VFE3000

Port size	Type of actuation	Flow-rate characteristics					
		1→4/2 (P→A/B)			4/2→5/3 (A/B→EA/EB)		
		C [dm ³ /(s·bar)]	b	Cv	C [dm ³ /(s·bar)]	b	Cv
1/8	Single solenoid	3.0	0.38	0.78	2.8	0.30	0.67
1/4		4.0	0.36	1.0	3.1	0.32	0.75
1/8	Double solenoid	3.0	0.38	0.78	2.8	0.30	0.67
1/4		4.0	0.36	1.0	3.1	0.32	0.75
1/8	Closed center	2.4	0.31	0.64	1.8	0.37	0.46
1/4		2.4	0.45	0.68	1.9	0.37	0.47
1/8	Exhaust center	2.6	0.37	0.70	3.0 (2.5)	0.32 (0.28)	0.76 (0.62)
1/4		3.0	0.42	0.82	3.1 (2.7)	0.36 (0.29)	0.79 (0.66)
1/8	Pressure center	3.0 (1.4)	0.42 (0.44)	0.83 (0.39)	2.4	0.27	0.59
1/4		5.5 (1.4)	0.37 (0.50)	1.4 (0.40)	2.6	0.32	0.64

Note (): Normal position

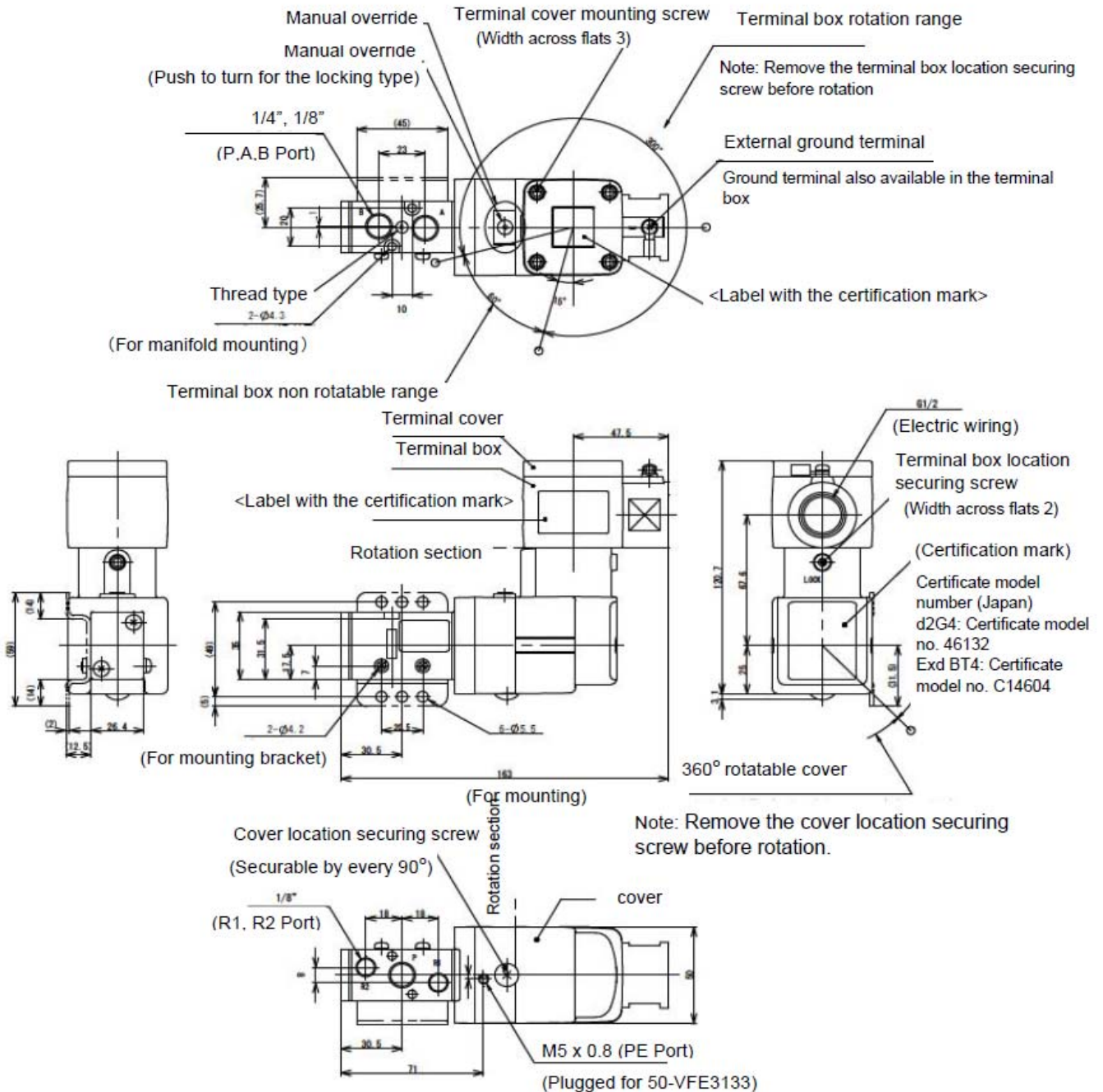
50-VFE5000

Port size	Type of actuation	Flow-rate characteristics					
		1→4/2 (P→A/B)			4/2→5/3 (A/B→EA/EB)		
		C [dm ³ /(s·bar)]	b	Cv	C [dm ³ /(s·bar)]	b	Cv
1/4	Single solenoid	7.1	0.46	1.9	7.7	0.51	2.2
3/8		8.8	0.44	2.4	10	0.49	2.9
1/4	Double solenoid	7.1	0.46	1.9	7.7	0.51	2.2
3/8		8.8	0.44	2.4	10.0	0.49	2.9
1/4	Closed center	6.7	0.46	1.8	6.6	0.41	1.8
3/8		7.5	0.43	2.0	7.5	0.38	1.9
1/4	Exhaust center	7.1	0.42	1.9	8.0 (7.4)	0.45 (0.47)	2.2 (2.1)
3/8		8.3	0.40	2.2	10 (8.7)	0.48 (0.46)	3.0 (2.4)
1/4	Pressure center	6.8 (2.7)	0.51 (0.50)	2.0 (0.78)	5.7	0.37	1.4
3/8		9.2 (3.0)	0.50 (0.49)	2.6 (0.85)	6.1	0.35	1.6

Note (): Normal position

■Dimensions: mm

50-VFE3130-*T-20-X50



Caution To ensure the safest possible operation of this product, please be sure to thoroughly read the "Safety Instructions" in our "Best Pneumatics" catalog before use.