5 Port Air Operated Valve





VFA1000/3000/5000 Series



Model Selection by Operating Conditions (1)

Air Operated Valve: Single Unit





Model Selection by Operating Conditions (2)

Air Operated Valve: Manifold





* Not available with the VFA5000.

⁵ Port Air Operated Valve Body Ported/Single Unit **VFA1000/3000/5000 Series**

Specifications



Ν	lodel	VFA1000	VFA3000	VFA5000		
Fluid			Air			
Operating pressure range 2 position single			0.15 to 1.0			
(MPa)	2 position double/3 position Note 2)	-101.2 kPa to 1.0				
Pilot pressure range	2 position single	(0.4 x P + 0.1) to 1.0, P: Operating pressure				
	2 position double	0.1 to 1.0				
(MFd)	3 position	0.15 to 1.0				
Ambient and fluid ter	mperature (°C)	-10 to 50 (No freezing)				
Lubrication		Not required				
Mounting orientation		Free				
Impact/Vibration resi	300/50					
te 1) Impact resistance: No malfunction to axis and right angle directions of main valve, each one time whe pilot signal ON and OFF. (Values at the initial period)						

Vibration resistance: No malfunction from test with 45 to 2000 Hz one sweep, to axis and right angle direction of main valve, each one time when pilot signal ON and OFF. (Values at the initial period)

Note 2) Except VFA1000

Pilot Pressure Range (Single pilot)



Flow Rate Characteristics/Weights

			Po	rt siza			F	low rate ch	aractoris	tice Note	1)		
			10			1	(P→Δ/B			2			
Valve model	Туре	of actuation	1, 4, 2 (P, A, B)	5, 3 (EA, EB)	C[dm³/ (s/bar)]	b	Cv	Q[I/min/ (ANR)] ^{Note 3)}	., C[dm³/ (s/bar)]	b	Cv	Q[I/min/ (ANR)] ^{Note 3)}	Weight (g) Note 2)
	2 position	Single	ME	M5 x 0.8 0.		0.40	0.13	133	0.52	0.35	0.13	137	97
	2 position	Double		X U.O	0.49	0.40	0.13	133	0.52	0.35	0.13	137	120
	Questition	Single	1/0	MEXOD	0.76	0.22	0.17	184	0.53	0.28	0.13	133	93
VFA1[20-01	2 position	Double	1/0	IVI5 X U.O	0.76	0.22	0.17	184	0.53	0.28	0.13	133	116
	2 position	Single			3.0	0.38	0.78	805	2.8	0.30	0.67	712	135
	2 position	Double			3.0	0.38	0.78	805	2.8	0.30	0.67	712	158
		Closed centre			2.4	0.31	0.64	614	1.8	0.37	0.46	479	
VFA3⊡30-01	3 position	Exhaust centre	1	/8	2.6	0.37	0.70	692	3.0 [2.5]	0.32 [0.28]	0.76 [0.62]	773 [628]	175
		Pressure centre				0.42 [0.44]	0.83 [0.39]	828 [392]	2.4	0.27	0.59	599	
	2 position	Single			4.0	0.36	1.0	1058	3.1	0.32	0.75	798	131
		Double			4.0	0.36	1.0	1058	3.1	0.32	0.75	798	154
	3 position	Closed centre		1/8	2.4	0.45	0.68	678	1.9	0.37	0.47	506	
VFA3□30-02		Exhaust centre	1/4		3.0	0.42	0.82	828	3.1 [2.7]	0.36 [0.29]	0.79 [0.66]	820 [682]	171
		Pressure centre			5.5 [1.4]	0.37 [0.50]	1.4 [0.40]	1465 [412]	2.6	0.32	0.64	670	
	2 position	Single			7.1	0.46	1.9	2021	7.7	0.51	2.2	2282	294
	2 position	Double			7.1	0.46	1.9	2021	7.7	0.51	2.2	2282	329
		Closed centre			6.7	0.46	1.8	1907	6.6	0.41	1.8	1808	
VFA5□20-02	3 position	Exhaust centre	1	/4	7.1	0.42	1.9	1960	8.0 [7.4]	0.45 [0.47]	2.2 [2.1]	2259 [2123]	368
		Pressure centre			6.8 [2.7]	0.51 [0.50]	2.0 [0.78]	2016 [794]	5.7	0.37	1.4	1518	
	2 position	Single			8.8	0.44	2.4	2466	10.0	0.49	2.9	2915	280
	2 position	Double			8.8	0.44	2.4	2466	10.0	0.49	2.9	2915	315
		Closed centre			7.5	0.43	2.0	2086	7.5	0.38	1.9	2011	
VFA5□20-03	3 position	Exhaust centre	3	3/8	8.3	0.40	2.2	2258	10.0 [8.7]	0.48 [0.46]	3.0 [2.4]	2892 [2476]	354
		Pressure centre			9.2 [3.0]	0.50 [0.49]	2.6 [0.85]	2074 [875]	6.1	0.35	1.6	1603	

Note 1) []: Normal position Note 2) Values without bracket Note 3) These values have been calculated according to ISO 6358 and indicate the flow rate under standard conditions with an inlet pressure of 0.6 MPa (relative pressure) and a pressure drop of 0.1 MPa

Construction: Body Ported



3 position closed centre/exhaust centre/pressure centre



3 position exhaust centre

(~)-	ií	(0)
M- N II	-	7M
(EA)5	513 (P)	B(EB)

3 position pressure centre

(A)4 2(B) (EA)5 1 3(EB) (P)

Component Parts

No.	Description	Material	Note
1	Body	Aluminium die-casted	White
2	Pilot plate	Aluminium die-casted	Grey
3 End plate		$\operatorname{Resin} \begin{pmatrix} VFA3130\text{-}F \\ VFA1120\text{-}F \end{pmatrix}$	White
4	Piston	Resin	
5	Spool valve	Aluminium, HNBR	
6	Spring	Stainless steel	

Bracket Assembly Part No.

Description	Part no.		
Bracket (for VFA1000 double)	DXT144-8-1A (With 2 mounting screws)		



(Drawing shows a closed centre type.)

Dimensions: VFA1000 Series/Body Ported



⁵ Port Air Operated Valve Body Ported/Single Unit **VFA1000/3000/5000 Series**

Dimensions: VFA3000 Series/Body Ported



3 position closed centre/exhaust centre/pressure centre VFA3³₅30-⁰¹₀₂□(-P)



Dimensions: VFA5000 Series/Body Ported



3 position closed centre/exhaust centre/pressure centre





5 Port Air Operated Valve VFA3000/5000 Series Single Unit RoHS

Base Mounted

How to Order Valve



Without the sub-plate, two mounting screws and a gasket are included.

5 Port Air Operated Valve Base Mounted/Single Unit **VFA3000/5000 Series**

Specifications





Ν	Nodel	VFA3000	VFA5000		
Fluid		A	ir		
Operating pressure range	perating pressure range2 position single0.15 to 1.0IPa)2 position double/3 position-101.2 kPa to 1.0		o 1.0		
(MPa)			Pa to 1.0		
Pilot pressure range	2 position single	(0.4 x P + 0.1) to 1.0, P: Operating press			
	2 position double	0.1 to 1.0			
(in a)	3 position	0.15 to 1.0			
Ambient and fluid ter	mperature (°C)	-10 to 50 (N	lo freezing)		
Lubrication		Not required			
Mounting orientation	1	Free			
Impact/Vibration resi	stance (m/s ²) Note 1)	300/50			

No malfunction to axis and right angle directions of main valve, each one time when pilot signal ON and OFF. (Values at the initial period) Note 1) Impact resistance:

Vibration resistance: No malfunction from test with 45 to 2000 Hz one sweep, to axis and right angle direction of main valve, each one time when pilot signal ON and OFF. (Values at the initial period)

Pilot Pressure Range (Single pilot)



VFA3000/5000 Series

Flow Rate Characteristics/Weights

						Flo	ow rate cha	racteristics	S Note 1)			
			D ()	1→4/2 (P→A/B)				4/2→5/3 (A/B→EA/EB)				
Valve model Type of		of actuation	Port size	C [dm ³ / (s/bar)]	b	Cv	Q[I/min/ (ANR)] ^{Note 3)}	C [dm³/ (s/bar)]	b	Cv	Q[I/min/ (ANR)] ^{Note 3)}	Weight (g) Note 2)
	2 position	Single		2.8	0.14	0.64	649	2.5	0.18	0.57	592	295 (143)
	2 position	Double		2.8	0.14	0.64	649	2.5	0.18	0.57	592	318 (166)
		Closed centre		2.1	0.22	0.49	509	1.6	0.26	0.41	397	
VFA3⊡40-02	3 position	Exhaust centre	1/4	2.3	0.21	0.53	554	2.8 [2.1]	0.23 [0.26]	0.66 [0.50]	682 [521]	335 (183)
		Pressure centre		2.9 [1.1]	0.16 [0.45]	0.67 [0.32]	679 [311]	2.1	0.23	0.49	512	
	2 position	Single		3.1	0.24	0.76	760	2.6	0.23	0.62	634	278 (143)
	Double		3.1	0.24	0.76	760	2.6	0.23	0.62	634	301 (166)	
		Closed centre		2.2	0.33	0.57	570	1.6	0.34	0.40	418	
VFA3⊡40-03	3 position	Exhaust centre	3/8	2.6	0.27	0.61	649	2.8 [2.3]	0.30 [0.28]	0.68 [0.55]	712 [578]	318 (183)
		Pressure centre		3.4 [1.3]	0.29 [0.48]	0.80 [0.38]	859 [376]	2.2	0.31	0.52	563	
	2 position	Single	1/4	7.3	0.49	2.1	2128	7.3	0.50	2.0	2146	467 (278)
	2 00011011	Double		7.3	0.49	2.1	2128	7.3	0.50	2.0	2146	502 (313)
	3 position	Closed centre		6.6	0.35	1.7	1734	6.3	0.31	1.6	1612	541 (352)
VFA5⊡44-02		Exhaust centre		7.4	0.33	1.9	1918	8.1 [7.4]	0.35 [0.34]	2.1 [1.9]	2391 [1931]	
		Pressure centre		8.0 [2.9]	0.35 [0.48]	2.1 [0.85]	2102 [839]	5.6	0.31	1.5	1433	
	2 position	Single		8.4	0.34	2.2	2192	8.9	0.29	2.3	2249	454 (278)
		Double		8.4	0.34	2.2	2192	8.9	0.29	2.3	2249	489 (313)
		Closed centre		7.3	0.34	2.0	1905	7.1	0.28	1.8	1783	
VFA5⊡44-03	3 position	Exhaust centre	3/8	8.1	0.27	2.0	2022	14.0 [8.3]	0.26 [0.31]	3.4 [2.2]	3473 [2124]	528 (352)
		Pressure centre		8.1 [2.5]	0.33 [0.48]	2.0 [0.74]	2100 [723]	5.7	0.31	1.4	1459	
	2 position	Single		9.4	0.43	2.7	2614	12.0	0.32	3.0	3091	526 (278)
		Double		9.4	0.43	2.7	2614	12.0	0.32	3.0	3091	561 (313)
		Closed centre		7.1	0.41	2.1	1945	7.4	0.32	2.0	1906	
VFA5⊡44-04	3 position	Exhaust centre	1/2	8.6	0.39	2.4	2323	13.0 [8.9]	0.21 [0.40]	3.1 [2.5]	3132 [2421]	600 (352)
		Pressure centre		11.0 [2.6]	0.18 [0.47]	2.6 [0.78]	2606 [746]	6.1	0.35	1.6	1603	

Note 1) []: Normal position Note 2) (): Values without sub-plate Note 3) These values have been calculated according to ISO 6358 and indicate the flow rate under standard conditions with an inlet pressure of 0.6 MPa (relative pressure) and a pressure drop of 0.1 MPa

5 Port Air Operated Valve Base Mounted/Single Unit **VFA3000/5000 Series**

Construction: Base Mounted



2(B) (A)4 Z₿ $\overline{}$

Symbol 2 position single

(EA)5 1 3(EB) (P)

-1>



2 position double



(2) (8) (7

2 position double (A)4 2(B) (EA)5 1 3(EB)

Symbol



3 position exhaust centre (A)4 2(B)

(EA)5 1 3(EB) (P)

3 position pressure centre (A)4 2(B) (EA)5 1 3(EB) (P)

3 position closed centre/exhaust centre/pressure centre



(Drawing shows a closed centre type.)

1

2

3

1/4

3/8

1/2

Component Parts

1 Body Aluminium die-casted White 2 Pilot plate Aluminium die-casted Grey 3 End plate Resin White 4 Piston Resin White	1	I Note	Material	Description	No.
2 Pilot plate Aluminium die-casted Grey 3 End plate Resin White 4 Piston Resin White	•	-casted White	Aluminium die-casted	Body	1
3 End plate Resin White		-casted Grey	Aluminium die-casted	Pilot plate	2
4 Piston Resin	•	White	Resin	End plate	3
			Resin	Piston	4
5 Spool valve Aluminium, HNBR		INBR	Aluminium, HNBR	Spool valve	5
6 Spring Stainless steel		teel	Stainless steel	Spring	6

Sub-plate part no. 1 3 000-71-Series 3 VFA3000 5 VFA5000 Port size VFA3000 VFA5000 Symbol Port size

0

0

0

0

Ο

 Thread type 						
	Rc					
F	G					
N	NPT					
Т	NPTF					

Re	olad	em	ent	Part	s

Na	Description	Part	Nata		
INO.	Description	VFA3000	VFA5000	Note	
7	Gasket	DXT031-30-11	DXT156-9-8	HNBR	
8	Sub-plate	1/4: VF3000-71-1□ 3/8: VF3000-71-2□	1/4: VF5000-71-1□ 3/8: VF5000-71-2□ 1/2: VF5000-71-3□	Aluminium die-casted	
_	Round head combination screw (1 pc.)	DXT031-44-1 (M4 x 39.5, With spring washer)	_	For mounting valve	
_	Hexagon socket head cap screw (1 pc.)	_	AXT620-32-1 (M4 x 48, With spring washer)	For mounting valve	

SMC



M4: 1.4 N·m

VFA3000/5000 Series

Dimensions: VFA3000 Series/Base Mounted



3 position closed centre/exhaust centre/pressure centre VFA3 $_{5}^{4}$ 40- $_{03}^{02}$ (-P)





Dimensions: VFA5000 Series/Base Mounted



3 position closed centre/exhaust centre/pressure centre VFA5³/₅44-⁰²₀₄□(-P)



The dimensions in () are for 1/2 piping port size.

5 Port Air Operated Valve VFA1000/3000/5000 Series Manifold

Body Ported

How to Order Manifold



Note) When placing an order for body ported valve as a single unit, mounting screws for manifold and gasket are not attached. Order them separately, if necessary.



SMC

			<i>,</i>	
Symbol	Port size	VFA1000	VFA3000	VFA5000
M5	M5 x 0.8	0	—	_
01	1/8	0	0	-
02	1/4	_	0	0
03	3/8	_	—	0

⁵ Port Air Operated Valve Body Ported/Manifold **VFA1000/3000/5000 Series**

Manifold Specifications

Series	VFA	1000	VFA3000	VFA	5000
Manifold base model	VV5FA1-30 <u>4 (A), 2 (B) port</u> <u>1/8</u> <u>1 (P) port</u> <u>1/8</u> <u>5/3 (R) port</u> <u>1/8</u> <u>5/3 (R) port</u> <u>1/8</u>	VV5FA1-31 4 (A), 2 (B) port 1/8 EA), 3 (EB) port M5 x 0.8 <u>1 (P) port</u> 1/8	VV5FA3-30 4 (A), 2 (B) port 1/8, 1/4 1/8, 1/4 1/0 5 (R), 3 (R) port 1/4	<u>4 (A), 2 (B) port</u> 1/4, 3/8 VV5FA5-20 4 (A), 2 (B) port 1/4, 3/8 1/4, 3/8 <u>5 (R), 3 (R) port</u> 3/8	VV5FA5-21 1 (P) port 1/2 5 (R), 3 (R) port 1/2 (P) port 3/8
EXH port type	Common EXH	Individual EXH	Common EXH	Common EXH	Common EXH
Applicable valve model	VFA1	1⊡30	VFA3□30	VFA	5□20
Applicable stations	2 to 20	stations	2 to 20 stations	2 to 10 stations	2 to 15 stations
Manifold base Weight: W[g] Stations: n	W = 29n + 21	W = 51n + 35	W = 63n + 64	W = 97n + 80	W = 139n + 550

Note) Supply pressure to 1(P) ports and exhaust pressure from R ports on both sides for 10 stations or more (5 stations or more for the VFA5000).

How to Order Manifold Assembly







Manifold Options

For body ported Blanking plate assembly



Series	Blanking plate assembly part no.
VFA1000	DXT144-13-3A
VFA3000	DXT031-38-5A
VFA5000	VF5000-70-1A

Individual EXH spacer assembly





Sei	ies		• Threa	d type
Symbol	Series	Port size	—	Rc
3	VFA3000	1/8	F	G
5	VFA5000	1/4	Ν	NPT
			Т	NPTF



Series	Valve mounting screw (1 pc.)	Gasket		
VFA1000	Round head combination screw	DXT144-12-2		
VFA3000	(M4 x 39.5, With spring washer)	DXT155-25-7		
VFA5000	Hexagon socket head cap screw AXT620-32-1 (M4 x 48, With spring washer)	DXT156-9-6		

\land Caution

Tightening Torque for Mounting Screw

M4: 1.4N·m

∠\Warning

When mounting a valve or spacer on the manifold base or sub-plate, etc., the mounting orientation is already decided. If mounted in a wrong direction, the equipment to be connected may result in a malfunction. Refer to the dimensions for mounting.

Dimensions: VFA1000 Series







Dimensions (Common to Type 30 and Type 31) n: Stations																			
L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	74.5	102	129.5	157	184.5	212	239.5	267	294.5	322	349.5	377	404.5	432	459.5	487	514.5	542	569.5
L2	64.5	92	119.5	147	174.5	202	229.5	257	284.5	312	339.5	367	394.5	422	449.5	477	504.5	532	559.5

Dimensions: VFA3000 Series

Type 30: VV5FA3-30-□□1-□: Common exhaust



Dimensions n: Station														Stations					
L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	83.5	111	138.5	166	193.5	221	248.5	276	303.5	331	358.5	386	413.5	441	468.5	496	523.5	551	578.5
L2	71.5	99	126.5	154	181.5	209	236.5	264	291.5	319	346.5	374	401.5	429	456.5	484	511.5	539	566.5

⁵ Port Air Operated Valve Body Ported/Manifold **VFA1000/3000/5000 Series**

Dimensions: VFA5000 Series



Type 21: VV5FA5-21-DD1-D: Common exhaust



Dimensions n: Station														Stations
L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15
L1	163	196	229	262	295	328	361	394	427	460	493	526	559	592
L2	128	161	194	227	260	293	326	359	392	425	458	491	524	557

5 Port Air Operated Valve VFA3000/5000 Series Manifold

Base Mounted

How to Order Manifold



How to Order Valve (With a gasket and two mounting screws)



Manifold Specifications



Note) Supply pressure to 1(P) ports and exhaust pressure from R ports on both sides for 10 stations or more (5 stations or more for the VFA5000).

How to Order Manifold Assembly



Refer to page 25 for manifold options.



VFA3000/5000 Series

Manifold Options

For base mounted Blanking plate assembly



Series	Blanking plate assembly part no.
VFA3000	DXT031-38-5A
VFA5000	VF5000-70-2A



Series	Valve mounting screw (1 pc.)	Gasket
VFA3000	Round head combination screw DXT031-44-1 (M4 x 39.5, With spring washer)	DXT031-30-11
VFA5000	Hexagon socket head cap screw AXT620-32-1 (M4 x 48, With spring washer)	DXT156-9-8

Individual EXH spacer assembly



VF3000-75-2A

Sei	ries	
Symbol	Series	Port size
3	VFA3000	1/8
5	VFA5000	1/4
3 5	VFA3000 VFA5000	1/8 1/4

Threa	d type	
—	Rc	
F	G	
Ν	NPT	
т	NPTF	

▲ Caution

Tightening Torque for Mounting Screw

M4: 1.4N-m

▲Warning

When mounting a valve or spacer on the manifold base or sub-plate, etc., the mounting orientation is already decided. If mounted in a wrong direction, the equipment to be connected may result in a malfunction. Refer to the dimensions for mounting.

Dimensions: VFA3000 Series

Type 40: VV5FA3-40-DD2-02D: Common exhaust



Dimensions n: Static														Stations					
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	83.5	111	138.5	166	193.5	221	248.5	276	303.5	331	358.5	386	413.5	441	468.5	496	523.5	551	578.5
L2	71.5	99	126.5	154	181.5	209	236.5	264	291.5	319	346.5	374	401.5	429	456.5	484	511.5	539	566.5

VFA3000/5000 Series

Dimensions: VFA5000 Series

Type 40: VV5FA5-40-□□2-02□: Common exhaust



Dimensions n: Stations									
L n	2	3	4	5	6	7	8	9	10
L1	93	126	159	192	225	258	291	324	357
L2	80	113	146	179	212	245	278	311	344

▲ Safety Instructions

These safety instructions are intended to prevent hazardous situations and/or equipment damage. These instructions indicate the level of potential hazard with the labels of **"Caution," "Warning"** or **"Danger."** They are all important notes for safety and must be followed in addition to International Standards (ISO/IEC) ¹⁾, and other safety regulations.

\wedge	Caution:	Caution indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury.
\triangle	Warning:	Warning indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.
	Danger:	Danger indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury.

▲ Warning

1. The compatibility of the product is the responsibility of the person who designs the equipment or decides its specifications. Since the product specified here is used under various operating conditions, its compatibility with specific equipment must be decided by the person who designs the equipment or decides its specifications based on necessary analysis and test results. The expected performance and safety assurance of the equipment will be the responsibility of the person who has determined its compatibility with the product. This person should also continuously review all specifications of the product referring to its latest catalogue information, with a view to giving due consideration to any possibility of equipment failure when configuring the equipment.

2. Only personnel with appropriate training should operate machinery and equipment.

The product specified here may become unsafe if handled incorrectly. The assembly, operation and maintenance of machines or equipment including our products must be performed by an operator who is appropriately trained and experienced.

3. Do not service or attempt to remove product and machinery/ equipment until safety is confirmed.

- 1. The inspection and maintenance of machinery/equipment should only be performed after measures to prevent falling or runaway of the driven objects have been confirmed.
- When the product is to be removed, confirm that the safety measures as mentioned above are implemented and the power from any appropriate source is cut, and read and understand the specific product precautions of all relevant products carefully.
- 3. Before machinery/equipment is restarted, take measures to prevent unexpected operation and malfunction.

4. Contact SMC beforehand and take special consideration of safety measures if the product is to be used in any of the following conditions.

- 1. Conditions and environments outside of the given specifications, or use outdoors or in a place exposed to direct sunlight.
- 2. Installation on equipment in conjunction with atomic energy, railways, air navigation, space, shipping, vehicles, military, medical treatment, combustion and recreation, or equipment in contact with food and beverages, emergency stop circuits, clutch and brake circuits in press applications, safety equipment or other applications unsuitable for the standard specifications described in the product catalogue.
- An application which could have negative effects on people, property, or animals requiring special safety analysis.
- 4. Use in an interlock circuit, which requires the provision of double interlock for possible failure by using a mechanical protective function, and periodical checks to confirm proper operation.

▲ Caution

 The product is provided for use in manufacturing industries. The product herein described is basically provided for peaceful use in manufacturing industries.

If considering using the product in other industries, consult SMC beforehand and exchange specifications or a contract if necessary. If anything is unclear, contact your nearest sales branch.

1) ISO 4414: Pneumatic fluid power – General rules relating to systems. ISO 4413: Hydraulic fluid power – General rules relating to systems.

IEC 60204-1: Safety of machinery – Electrical equipment of machines. (Part 1: General requirements)

ISO 10218-1: Manipulating industrial robots - Safety. etc.

Limited warranty and Disclaimer/Compliance Requirements

The product used is subject to the following "Limited warranty and Disclaimer" and "Compliance Requirements".Read and accept them before using the product.

Limited warranty and Disclaimer

- 1. The warranty period of the product is 1 year in service or 1.5 years after the product is delivered, whichever is first. ²⁾ Also, the product may have specified durability, running distance or replacement parts. Please consult your nearest sales branch.
- 2. For any failure or damage reported within the warranty period which is clearly our responsibility, a replacement product or necessary parts will be provided. This limited warranty applies only to our product independently, and not to any other damage incurred due to the failure of the product.
- 3. Prior to using SMC products, please read and understand the warranty terms and disclaimers noted in the specified catalogue for the particular products.
- 2) Vacuum pads are excluded from this 1 year warranty. A vacuum pad is a consumable part, so it is warranted for a year after it is delivered. Also, even within the warranty period, the wear of a product due to the use of the vacuum pad or failure due to the deterioration of rubber material are not covered by the limited warranty.

Compliance Requirements

- 1. The use of SMC products with production equipment for the manufacture of weapons of mass destruction (WMD) or any other weapon is strictly prohibited.
- 2. The exports of SMC products or technology from one country to another are governed by the relevant security laws and regulations of the countries involved in the transaction. Prior to the shipment of a SMC product to another country, assure that all local rules governing that export are known and followed.

▲ Caution

SMC products are not intended for use as instruments for legal metrology.

Measurement instruments that SMC manufactures or sells have not been qualified by type approval tests relevant to the metrology (measurement) laws of each country. Therefore, SMC products cannot be used for business or

certification ordained by the metrology (measurement) laws of each country.

▲ Safety Instructions

SMC Corporation (Europe)

Austria	+43 (0)22626228
Belgium	+32 (0)33551464
Bulgaria	+359 (0)2807670
Croatia	+385 (0)1370728
Czech Republic	+420 541424611
Denmark	+45 70252900
Estonia	+372 6510370
Finland	+358 207513513
France	+33 (0)16476100
Germany	+49 (0)61034020
Greece	+30 210 271726
Hungary	+36 23513000
Ireland	+353 (0)1403900
Italy	+39 03990691
Latvia	+371 67817700

(0)2262622800 www.smc.at (0)2807670 www.smc.bg (0)13707288 www.smc.hr 541424611 www.smc.cz 0252900 www.smcdk.com www.smcpneumatics.ee smc@info@smcee.ee 207513513 www.smc.fi 0)164761000 www.smc-france.fr))61034020 www.smc.de . 10 2717265 www.smchellas.gr sales@smchellas.gr www.smc.hu (0)14039000 www.smcautomation.ie sales@smcautomation.ie www.smcitalia.it www.smc.lv

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Lithuania	+370 5 2308118
Netherlands	+31 (0)205318888
Norway	+47 67129020
Poland	+48 222119600
Portugal	+351 214724500
Romania	+40 213205111
Russia	+7 8127185445
Slovakia	+421 (0)413213212
Slovenia	+386 (0)73885412
Spain	+34 945184100
Sweden	+46 (0)86031240
Switzerland	+41 (0)523963131
Turkey	+90 212 489 0 440
UK	+44 (0)845 121 5122

South Africa +27 10 900 1233

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zasales@smcza.co.za

www.smcza.co.za