NEW PRODUCTS GUIDE

Vol. 2

Digest version



3 Port Solenoid Valve/Residual Pressure Release Valve with Detection of Main Valve Position VP/VG ······P.01
Fieldbus System (Gateway Decentralized Type) EX500 ······P.03
3 Port 3 Position Valve VEX3 ·····P.06
5 Port Solenoid Valve VQ4000/5000 ······P.07
5 Port Solenoid Valve VQC4000/5000 ·····P.08
Compact Guide Cylinder MGP ······P.09
Compact Guide Cylinder/With Flange MGP P.10
Heat Resistant 2-Color Indicator Solid State Auto Switch/Direct Mounting Type D-M9
Compact Guide Cylinder JMGP ······P.11
Compact Cylinder JCQ ······P.12

Air Cylinder JMB ······P.13
Air Cylinder MB ······P.14
Air Cylinder MB1 ······P.14
Cylinder Speed Checker IN574-95/-73 ·····P.15
Rotary Actuator/Vane Type CRB1 ······P.17
Vacuum Ejector/Body Ported Type ZH ······P.18
Vacuum Unit ZK2 ······P.19
Vacuum Filter AFJ ······P.21
Moisture Control Tube IDK ······P.23
Water Regulator WR110-□-X224/WR110-□-X215 ·······P.24

Water Strainer WF300 ······P.24
3-Screen Display High-Precision Digital Pressure Switch ZSE20(F)/ISE20 ······P.25
Speed Controller with Indicator AS-FS ······P.30
Card Motor LAT3 ·····P.31
4 Axis Step Motor Controller (Parallel I/O) JXC73/83 ······P.32
Step Motor Controller JXC91 ······P.33
Rotary Joint MQR-X229 ·····P.34
Large Size Booster Relay XT240 ······P.34



Safety Standard ISO13849-1 Certified^{*2} (Corresponding to Category 2 to 4)

3 Port Solenoid Valve/

Residual Pressure Release Valve with Detection of Main Valve Position

VP/VG Series

*2. Refer to page 2 for certified products. For details, refer to the **WEB catalog** or the catalog of each product.

RoHS

Refer to page 2 for compliant products

CAT.NAS11-111

With Detection of Main Valve Position

The detecting function of the main valve position detects a mismatch between the input signal and valve operation.



Redundant system can be constructed easily.

When the dual residual pressure release valve is used, if one of the valves fails to operate, the other one releases residual pressure.

Category 3, 4

Dual Residual Pressure Release Valve VP544-X538





Dual Residual Pressure Release Valve VG342-X87



Redundant System

1

A system in which even if one part fails, the whole system will fulfill its required function. This is usually achieved by having dual channels of operation, such as dual valves, dual wiring, dual guard switches etc.

SMC

Highly reliable construction

① The main valve position is detected by transferring the main valve movement directly to the reed safety limit switch with the rod.



1 Long service life: B10d: 10 million times*

② The return spring releases the residual pressure securely regardless of pressure level.

* For VP500/700, safety limit switch made by OMRON

Soft start-up

With soft start-up function (-X555)

VP544-X555



• A function to gradually increase the initial pressure

of the pneumatic system has been added to the

Safety limit switch can be selected.



Conduit (VP series only) and M12 connector (4 pin) types are available.

Made by Rockwell Automation M12 connector with 6 pins is available.

Output Pressure (P2) vs Time Graph



Standards and Enclosure

valve

			Standards																
Series		Safety limit switch	Machinery Directive	Machinery Directive 2006/42/EC					Enclosure										
	gory	manufacturer	Harmonized standards	EN ISO13849-1: 2008 EN ISO13849-2: 2012	EN ISO4414: 2010	CE	CUL	RoHS	Linelooure										
Residual Pressure		OMRON Corporation							IDCE										
Release Valve VP542/742-X536		Rockwell Automation, Inc.	•				. _		105										
Dual Residual Pressure	24	OMRON Corporation]			_ _	. _	_ _	IDGE										
Release Valve VP544/744-X538	3, 4	3,4	3,4	3,4	3,4	3,4	3,4	3, 4	3, 4	3,4	3, 4	Rockwell Automation, Inc.]	•	•	_ .	. _	_ _	1600
Dual Residual Pressure Release Valve with	21	OMRON Corporation		•	•	_ .		_ _ _	ID65										
Soft Start-up Function VP544/744-X555	3,4	Rockwell Automation, Inc.		.	.	_ .	_	_ _ _	1600										
Dual Residual Pressure	0.4	OMRON Corporation]			_ . _	_ _ *												
Release Valve VG342-X87	3, 4	Rockwell Automation, Inc.]			_ — ———————————————————————————————————	_	_ _ _	1640										

* Only port size 3/4"

Series Variations





SMC

Fieldbus System

(Gateway Decentralized Type)

EX500 Series

Gateway Decentralized System 2 added!

For details, refer to the **WEB catalog** or the catalog of each product.

RoHS

CAT.NAS02-26

	Description	Compatible protocol	Number of inputs/outputs	Number of valve manifold and Input Unit connections	Branch cable length	New function
Ne	Gateway Decentralized System 2	EtherNet/IP	128 inputs/ 128 outputs	Max. 16 Units	Max. 20 m	Web server function • Valve operation test • Connection diagnostic • Short-circuit diagnostic
	Gateway Decentralized System	DeviceNet Baggo	64 inputs/ 64 outputs	Max. 8 Units	Max. 10 m	_





Number of inputs/outputs 128 inputs/128 outputs

Number of inputs/outputs per branch: Max. 32 inputs/32 outputs

Max. 8 Units* Number of valve manifold connections

Number of valve manifold connections per branch: Max. 2 Units*

Number of Input Unit connections Max. 8 Units



Max. **20** m

Number of Input Unit connections per branch: Max. 2 Units

Total cable length per branch

* When the number of outputs is set to "16 outputs" using a built-in setting switch of the SI Unit.



SI Unit has a built-in setting switch which switches the number of outputs (32 points / 16 points) of the valve manifold connected to the SI Unit. By setting the number of outputs to 16 points, two valve manifolds can be installed to one branch port.



SI Unit

Web server function

Valve operation test (ON/OFF), connection diagnostic between valve manifold and Input Unit,

and short-circuit diagnostic of input device can be performed on a Web browser.

A password can be used for the valve operation test (ON/OFF) for security.

The location of the error can be identified. Details of the error can be identified on a Web browser.

No need to set the address

I/O mapping for the SI Unit and Input Unit is set by the Gateway Unit automatically. The Unit installation order is not specified. (The upper limit of the inputs / outputs is 32 points for one branch port.)

Accessories can be ordered together.

Accessories including cables and connectors can be ordered together to SMC. Time for selecting parts, ordering and managing lead time can be reduced.

Applicable to output devices other than valve manifold.

By using output block, lights and buzzers can be operated.

Specified valve manifold can be controlled by supplying power from a different system.



By using a Y branch connector, power from a different system







For details, refer to the **WEB catalog** or the catalog of each product.

Intermediate stopping of cylinders up to Ø125* is possible.



* For VEX3³₄2[,] 300 mm/s, horizontal movement

Power consumption: 1 W

3 Manual override options added







For DIN terminal

Variations

		Rody size		Port	Flow rate characteristics*1		Applicable	e cylinder*2	
		Bouy size		size	C [dm³/(s·bar)]	ø 63	ø 80	ø 100	ø 125
dy	VEX312			1/4	3.5		•		
port Dort	VEX332	N. S.		3/8	8.7				
se nted	VEX322	0	0"=	1/4	4.4				
Ba	VEX342	-		1/2	14				

*1 For 2 (A) \rightarrow 3 (R) *2 For 300 mm/s, horizontal movement



Metal Seal Rubber Seal

5 Port Solenoid Valve VQ4000/5000 Series



For details, refer to the **WEB catalog** or the catalog of each product.



Metal Seal Rubber Seal

5 Port Solenoid Valve VQC4000/5000 Series



For details, refer to the **WEB catalog** or the catalog of each product.

Compact and large flow capacity

VQC4000 Possible to drive cylinders up to $\emptyset 160$

VQC5000 Possible to drive cylinders up to Ø180 * When the average speed is 200 mm/s.

VQC4000: 25 mm pitch

C [dm³/(s·bar)]: 7.3*

VQC5000: 41 mm pitch

C [dm3/(s.bar)]: 17*

* 2-position single, rubber seal: 4/2 \rightarrow 5/3 (A/B \rightarrow R1/R2)

Extensive range of protocols available



EtherCAT. CANopen

EtherNet/IP #0050



DeviceNet CC-Link



Power saving

Connector type

manifold

 Power consumption [W]
 Maximum operating pressure [MPa]

 New YQC
 O.A.(u.g.)
 I.D.(u.g.)

 Current product
 O.S.(u.g.)
 O.A.(u.g.)

 Lornent product
 O.S.(u.g.)
 O.A.(u.g.)

 * Low wattage type (): Standard
 * Low wattage type (): Standard

 • Long service life
 100 million cycles

 * cording to SMC life test conditions

 • Conclose the DEGT compliant

 * txept F and P kits

Compact Guide Cylinder

ø12, ø16, ø20, ø25, ø32, ø40, ø50, ø63, ø80, ø100

MGP Series

Consultants Cyclindia International Associations Provide Associationes Provide Associ

- Cylinder with stable lubrication function (Lube-retainer) and Guide unit with Lube-retainer added.
- Shock absorber soft type RJ series type (-XB22) and Spatter resistant specification (-XC88, 89, 91) added.

For details, refer to the **WEB catalog** or the catalog of each product.

CAT.NAS20-219







With air cushion



Water resistant cylinder

SMC

Compact Guide Cylinder

With Flange

Delivery

ø12, ø16, ø20, ø25, ø32, ø40, ø50, ø63, ø80, ø100

MGP Series

Application Example

Compact guide cylinder with flange



For details, refer to the WEB catalog or the catalog of each product.

Plate side flange type added.

Heat Resistant 2-Color Indicator C€ (RoHS) Solid State Auto Switch **Direct Mounting Type D-M9** J Series

15-E644

For details, refer to the WEB catalog or the catalog of each product.

Heat resistant (Max. 302°F [150°C]) type added to the D-M9⁻ compact auto switch. Choice of output types: PNP, NPN



Compact Guide Cylinder

ø12, ø16, ø20, ø25, ø32, ø40, ø50, ø63

JMGP Series

Bore sizes Ø40, Ø50, Ø63 added.

Compact



SMC



For details, refer to the **WEB catalog** or the catalog of each product.

RoHS

CAT.NAS20-238

Compact Cylinder

ø12, ø16, ø20, ø25, ø32, ø40, ø50, ø63

JCQ Series

ø25, 10 mm stroke)

Bore sizes Ø40, Ø50, Ø63 added.

RoHS



For details, refer to the WEB catalog or the catalog of each product.

CAT.NAS20-239

Compact Width shortened **Overall length shortened 5.5** mm JCQ Ø20 JCQ Ø20 0 10 mm stroke mm JCD020-18 **Height shortened** BSMC 2.35 mm 10 mm stroke \$82.T.285a (BSMC 調節 Current product Ø20 Current product ø20 JCQ Ø20 (CDQS series) (CDQS series) Max. % Weight lighter 150 g**⇒82** g (Compared with the current CDQS series,

SMO

Air Cylinder ø32, ø40, vø45, ø50, vø56, ø63, vø67, ø80, vø85, ø100 JMB Series



For details, refer to the WEB catalog or the catalog of each product.

Bore sizes Ø63 to Ø100 added, Ø63 to Ø100 added.



Overall length shortened



Air Cylinder ø32, ø40, ø50, ø63, ø80, ø100, ø125

MB Series

RoHS

For details, refer to the WEB catalog or the catalog of each product.

Non-rotating rod type added. (Single rod, Double rod)

CAT.NAS20-23



Reduced weight by changing the shape of the rod cover and head cover.

Can mount small auto switches on 4 surfaces.

Fastener on auto switch mounting groove for dust-prevention (Option)

SMC

(E (RoHS

Cylinder Speed Checker (Built-in Magnet Cylinder) IN574-95/-73



For details, refer to the **WEB catalog** or the catalog of each product.

14-E641



15



3 Measurement Modes



Time required for stroke (s) Measures the time required for the stroke of the cylinder (rod retraction end to rod extension end). Timing chart (When rod extends) @ SMC Rod retraction end Rod extension end INDER SPEED CHECKER Π Π JU. Rated measurement range Note Field wireable LIGHT -999.9 to 999.9 s connector Y connector red value to distinguish Note) Minus (-) is added to the meas Auto sion and retraction of a cylinde Measurement switch Time required for strok Time Rod extension end: Positive direction timing Rod retraction end: Reverse direction (-) Measurement end **Operation count** (Times) Display **Timing chart** part Measures the operation count of a cylinder for 1 minute. Cylinder SPEED CHECKER Ľ Rated measurement range Note) LIGHT 0 to 999 time Count timing Increase Count (1 time) Increase Count (2 time

Compact: 40 (Width) x 110 (Height) x 20 (Depth) mm With backlight Lightweight: Approx. 65 g (Body)/25 g (Sensor) * Excluding dry cell batteries.

Battery powered: 2A dry cell battery x 2,

Re Eler

continuous use for 15 hours or more.

SMC

With auto power-off function* * If a button is not operated for 15 min. or more, the power supply will turn off automatically.

Vane Type Rotary Actuator 50, 63, 80, 100

CRB1 Series

Compact auto switches are mountable! (D-M9D)

For details, refer to the WEB catalo or the catalog of each product.











RoHS

* Supply pressure: 65 psi [0.45 MPa]

2.0

ZH20D

Vacuum Ejector



3.18 [90]

5.47 [155]

6.92 [196]

Vacuum Unit ZK2 Series

High-noise reduction silencer added

For details, refer to the WEB catalog or the catalog of each product.



Energy saving ejector

Digital pressure switch for vacuum with energy saving function cuts supply air when the pressure reached the desired vacuum.

Air consumption

* Based on SMC's measuring conditions

More efficient ejector

0% increase Suction flow



(Compared to other SMC single stage ejectors)



Compact/Lightweight



Reduced-wiring

D-sub connector/Flat ribbon cable/Individual wiring

High-noise reduction silencer added



Volume 88 cm³ 28% reduction New 59% reduction Weight 81 g Current product ZK2

GSMC

Vacuum Unit ZK2 Series



	Power consumption cost per year	Energizing time per year	Exhaust time	Compressor's consumption per unit time
ZK2/With energy saving function	\$54/year	1,875 h/year	0.6 s	0.19 kWh
Current product	\$770/year	18,750 h/year	6 s	0.27 kWh

Cost conditions

saving

efficiency

· Electric power charge: 15 JPY/kWh, Operating hours: 10 hours/day, Operating days: 250 days/year, When 10 units are used Power consumption of the compressor is the theoretical value from the air consumption of each product at 0.35 MPa.

Improved low noise and suction flow by adoption of a through-hole silencer



Vacuum Filter **AFJ** Series





For details, refer to the WEB catalog or the catalog of each product.

will not stick directly to the pressurized bowl. This can reduce risk of bowl breakage.

Prevents vacuum equipment trouble!



SMC

AFJ40

Large flow type ($\Delta P = 0.6 \text{ psi} [4 \text{ kPa}]$)

Dust

2 types are available for different applications.

Large flow type Dust





Air coming from the IN side is filtered by the element after passing through the deflector.

Water drop removal type



Air coming from the IN side is rotated when passing through the fans in the deflector. Moisture is separated by centrifugal force.





Easy to handle

The element and the bowl are in one piece. Replacement can be done in hand.



Superior visibility: 360°

Use of a transparent bowl guard makes it possible to check the element inside the case from the entire periphery.



Metal related corrosion does not occur.

Resin body does not rust.



Application Examples Collect particles before the ejector to lengthen the ejector life.

• To prevent cleaning water left on the workpiece from entering into the ejector when the pad picks up the workpiece.



* If water droplets enter to the vacuum pressure switch, use a vacuum pressure switch for general fluid. For handling, refer to Common Precautions and the Operation Manual.







For details, refer to the **WEB catalog** or the catalog of each product.



GSMC

Water Regulator WR110-D-X224/WR110-D-X215



For details, refer to the **WEB catalog** or the catalog of each product.

14-E627

Pressure adjustment of water line



Model/Specifications

Model	WR110-□-X224	WR110-□-X215			
Port size	Rc1/8, 1/4	Rc1/8, 1/4, NPT1/8, 1/4			
Fluid ^{*1}	Wa	ater			
Ambient and fluid temperature	23 to 140°F [-5 to 60°C] (No freezing)				
Proof pressure	249 psi [1.72 MPa]				
Maximum operating pressure	116 psi [0.8 MPa]			
Set pressure range psi [MPa]	12 to 57 [0.08 to 0.39] 7 to 100 [0.05 to 0.69				
Pressure gauge port size	Rc1/8, 1/4 Rc1/8, 1/4, NPT1/				
Weight (kg)	0.26				

*1: Cannot be used with deionized water.

*: When using a bracket, order the B21-1P separately.

*: The pressure gauge is optional (sold separately). Refer to the table on the right.

Pressure Gauge/Option (Sold separately)

For details, refer to the WEB catalog.

Model	Pressure range	Indication	Connection	Note	
	psi [MPa]	unit	thread	NOLE	
G46-4-01 to 02-SRB	0 to 58 [0 to 0.4]		R1/8 R1/4		
G46-7-02-SRB	0 to 102 [0.7]	МРа	D1/4	_	
G46-10-02-SRB	0 to 145 [1.0]		n I/4		

*1: Do not apply more pressure than the max. pressure displayed. It may cause a malfunction.

Water Strainer WF300 Series



For details, refer to the **WEB catalog** or the catalog of each product.

14-E628

Mesh: 100/70/50/25 mesh

Removal of foreign matter in water line

Specifications

	Model	Port size	Fluid*1	Proof pressure	Max. operating pressure	Mesh	Ambient and fluid temperature	Weight
ſ	WF300-🗆					100 mesh		
ſ	WF300-□-1-X204	Rc1/4	Water	242 psi	171 psi [1.18 MPa]	70 mesh	41 to 176°F [5 to 80°C]	0.29 kg
ſ	WF300-□-2-X204	3/0 1/2		[1.67 MPa]		50 mesh		
	WF300-□-3-X204	1/2				25 mesh		

* 1: Cannot be used with deionized water.



3-Screen Display

High-Precision Digital Pressure Switch ZSE20(F)/ISE20 Series



For details, refer to the WEB catalog or the catalog of each product.

IP40

CAT.NAS100-114



3 Setting Modes

13 Step Setting Mode 2 Simple Setting Mode 3 Function Selection (detailed setting) Mode

Improved Operability

Visualization of Setting Items



Simple 3 Step Setting

When S button is pressed, and the set value (P_1) is being displayed, the set value (Trigger level) can be set. When S button is pressed, and the hysteresis (H_1) is being displayed, the hysteresis can be set.



Easy Screen Switching

Main screen Measured value (Current pressure value) Sub screen/Left side Label (Display item) Sub screen/Right side Set value (Threshold value) Setting is possible while checking the measured value.



* One arbitrary display mode can be added by setting the function.





SMC

Other Sub Screen Display

Peak value or bottom value; or both values can be displayed in one screen!

* Peak and bottom values are maintained even if the power supply is cut.



* Combination of the displays shown above and the set values can be displayed on the sub screens on both sides.

Convenient Functions

- Secret code setting function The key locking function keeps unauthorized persons from tampering with buttons.
- Power saving function
 Power consumption is reduced by turning off the monitor. (Reduce power consumption by approx. 60%.)
- Resolution switch function It reduces the monitor to flicker.



(Accuracy is not changed, only the displayed values.)

MPa/kPa switch function

Vacuum, compound and/or positive pressure can be displayed in MPa or kPa.



Compact & Lightweight





Mounting

Bracket configuration allows mounting in four orientations.



Introduction of Series

Sei	ries	Rated pressure range	Set pressure range	Withstand pressure	Smallest settable increment	Output	Piping
ZSE20 (Vacuum pressure)		0.0 to –14.6 psi [0.0 to –101.0 kPa] 0	1.45 to –15.2 psi [10.0 to –105.0 kPa]	72.5 psi [500 kPa]	0.0145 psi [0.1 kPa]		
ZSE20F (Compound pressure)		-14.5 to 14.5 psi [-100.0 to 100.0 kPa] 100 kPa 0	15.2 to –15.2 psi [-105.0 to 105.0 kPa]	72.5 psi [500 kPa]	0.0145 psi [0.1 kPa]	NPN or PNP open collector 1 output	M5 Fernale thread, R1/8, NPT1/8
ISE20 (Positive pressure)		-14.5 to 145psi [-0.100 to 1.000 MPa] 1 MPa 0 -0.1 MPa (-100 kPa)	15.2 to 152 psi [-0.105 to 1.050 MPa]	218 psi [1.5 MPa]	0.145 psi [0.001 MPa]		

Speed Controller with Indicator RoHS AS-FS Series

- Universal type added.
- Indicator window direction: 90° and 270° added.

Numerical indication of knob rotation for flow rate



For details, refer to the WEB catalog or the

catalog of each product.

CAT.NAS20-229

reduces flow setting time and setting errors!

Indicator window







Card Motor LAT3 Series

- Maximum stroke 50 mm added
- Maximum load mass improved
- Serial communication Modbus compatible

The transportation, pushing and length measurement systems have been miniaturized through the use of a linear motor.



∕∂SMC

For details, refer to the WEB catalog or the

catalog of each product.



CAT.NAS100-96

4 Axis Step Motor Controller (C ROHS)

(Parallel I/O)

JXC73/83 Series

For details, refer to the **WEB catalog** or the catalog of each product.



4 axis synchronous control
 Linear/circular interpolation





- Positioning/pushing operation
- Step data input (Max. 2048 points)
- Space saving, Reduced wiring

 Absolute/relative position coordinates instructions



EtherNet/IP Direct Input Type

Step Motor Controller JXC91 Series



For details, refer to the **WEB catalog** or the catalog of each product.



EtherNet/IP[™] compatible 10/100 Mbps high-speed communication Dual port connection • Transition wiring of communication cable PLC EtherNet/IP™ PLC Recovery is possible during a disconnection * One or more ring supervisors are required. of the device level ring (DLR)! Ring supervisor In the device level ring type, even though the communication cable is disconnected in one location, EtherNet/IP™ communication can be continued, and the disconnected portion can be Disconnected specified by the ring supervisor. location JXC91 JXC91③ JXC91(4) **JXC91**(2) <Data flow when the communication cable is disconnected> **Application Example** Air and electric system configurations Fieldbus network (EtherNet/IPTM) PLC **Electric Actuator Air Cylinder** EtherNet/IP[™] direct input type EX260 (EtherNet/IP™

Rubber Seal

Rotary Joint MQR-X229 Oldham coupling

RoHS

For details, refer to the WEB catalog or thecatalog of each product.



15-E647



Large Size Booster Relay XT240 Series

RoHS NCO.... For details, refer to the WEB catalog or thecatalog of each product.

Maximum flow rate: Approx. 212 scfm [6000 L/min (ANR)]

14-E635



Global Manufacturing, Distribution and Service Network

Worldwide Subsidiaries

EUROPE

AUSTRIA SMC Pneumatik GmbH (Austria) BELGIUM SMC Pneumatics N.V./S.A. BULGARIA SMC Industrial Automation Bulgaria EOOD CROATIA SMC Industrijska Automatika d.o.o. CZECH SMC Industrial Automation CZ s.r.o. DENMARK SMC Pneumatik A/S **ESTONIA** SMC Pneumatics Estonia FINLAND SMC Pneumatics Finland OY FRANCE SMC Pneumatique S.A. GERMANY SMC Pneumatik GmbH GREECE SMC Hellas EPE HUNGARY SMC Hungary Ipari Automatizálási Kft. IRELAND SMC Pneumatics (Ireland) Ltd. ITALY SMC Italia S.p.A.

LATVIA SMC Pneumatics Latvia SIA LITHUANIA SMC Pneumatics Lietuva, UAB NETHERLANDS SMC Pneumatics BV NORWAY SMC Pneumatics Norway A/S POLAND SMC Industrial Automation Polska Sp.z.o.o. ROMANIA SMC Romania S.r.l. RUSSIA SMC Pneumatik LLC. SLOVAKIA SMC Priemyselná Automatizáciá, s.r.o. **SLOVENIA** SMC Industrijska Avtomatika d.o.o. SPAIN / PORTUGAL SMC España, S.A. SWEDEN SMC Pneumatics Sweden AB SWITZERLAND SMC Pneumatik AG UK SMC Pneumatics (U.K.) Ltd.

ASIA CHINA SMC (China) Co., Ltd. HONG KONG SMC Pneumatics (Hong kong) Ltd. INDIA SMC Pneumatics (India) Pvt. Ltd. JAPAN SMC Corporation MALAYSIA SMC Pneumatics (S.E.A.) Sdn. Bhd. PHILIPPINES SMC Pneumatics (Philippines), Inc. SINGAPORE SMC Pneumatics (S.E.A.) Pte. Ltd. SOUTH KOREA SMC Pneumatics Korea Co., Ltd. TAIWAN SMC Pneumatics (Taiwan) Co., Ltd. THAILAND SMC Thailand Ltd.

NORTH AMERICA

CANADA SMC Pneumatics (Canada) Ltd. MEXICO SMC Corporation (Mexico) S.A. DE C.V. USA SMC Corporation of America

SOUTH AMERICA

ARGENTINA SMC Argentina S.A. BOLVIA SMC Pneumatics Bolivia S.R.L. BRAZIL SMC Pneumaticos do Brazil Ltda. CHILE SMC Pneumatics (Chile) S.A. PERU SMC Corporation Peru S.A.C. VENEZUELA SMC Neumatica Venezuela S.A.

OCEANIA

AUSTRALIA SMC Pneumatics (Australia) Pty. Ltd. NEW ZEALAND SMC Pneumatics (N.Z.) Ltd.

U.S. & Canadian Sales Offices



© 2016 SMC Corporation of America, All Rights Reserved.

All reasonable efforts to ensure the accuracy of the information detailed in this catalog were made at the time of publishing. However, SMC can in no way warrant the information herein contained as specifications are subject to change without notice.