

SMC Products for Fluid Control Universal 2 port valves for various standard fluids





In this leaflet we present you our solutions for fluid control.

**SMC – a company that supports you throughout the world.** With sales offices in 82 countries and major manufacturing and warehouse facilities in Asia, the USA and Europe, plus local production capabilities, we can support our customers throughout the world.

Our experts are always on-hand to provide you with tailor-made advice to help you find the perfect solution. This focus on technical support and customer care is driven by a network of over 7951 sales engineers and around 1400 R&D specialists. Our commitment towards R&D and product innovation remains constant and this investment in both people and product development has been recognised by organisations such as Forbes who regularly listed us as being one of the Most Innovative Companies in the world.

**SMC – an organisation that recognises the importance of availability.** All the products shown in this leaflet are available from stock held in our European Central Warehouse. To keep the order to delivery process to a minimum, these products can be shipped to you immediately ensuring maximum lead time reduction.

For all the above, USE SMC Fluid control valves.

**UNIVERSAL** 



valves for various standard fluids

valves, optimized for specific fluids





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Fluid	STAINLESS STEEL	BRASS/BRONZE	ALUMINIUM	PBT RESIN	PPS RESIN	NBR	FKM/FPM	EPDM/EPR	PTFE	Direct Operated	Pilot Operated	Air Operated
Air										VX2, VDW	VXD, VXZ	VNB, VXB
Low Vacuum (1)										VX2, VDW		VNB, VXB
Medium Vacuum (2)										VX2, VDW		VXB
Ethyl Alcohol (3)										VX2	VXD, VXZ	
Ethylene Glycol										VX2	VXD, VXZ	VNB
Caustic Soda (25%)										VX2	VXD, VXZ	
Argon										VX2, VDW	VXD, VXZ	VNB, VXB
Helium										VX2, VDW	VXD, VXZ	VNB, VXB
Nitrogen Gas										VX2, VDW	VXD, VXZ	VNB, VXB
Carbon Dioxide										VX2, VDW	VXD, VXZ	VNB
Light Oil										VX2	VXD, VXZ	VNB, VXB
Silicone Oil (4)										VX2	VXD, VXZ	VNB, VXB
Brake Fluid										VX2	VXD, VXZ	VNB
Deionized water (DI)										VX2, VDW	VXD, VXZ	
Water										VX2, VDW	VXD, VXZ	VNB, VXB
Hot Water (up to 99 °C)										VX2	VXD, VXZ	VNB, VXB
Coolants											SGC	SGCA
Steam										VX2	VXS	VND, VXB

- Recommended options, consult SMC for other combinations.
- (1) Low vacuum level from 100 Pa.abs to atmospheric pressure.
- (2) Medium vacuum level from 0.1 to 100 Pa.abs low vacuum level.
- (3) Highly flammable fluids. When possible, use metal body and connect to an earth wire to avoid an accumulation of static electricity.
- (4) Operating with solenoid valves, the kinematic viscosity must not exceed 50 mm²/s.

(The selection is a guide. Specific process conditions can render an initially valid option inadequate)

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# Direct Operated Solenoid Valves



# Compact Direct Operated 2 Port Solenoid Valve for General Use Series VDW10/20

- Ultra compact 2 port valves for air, vacuum and fluids.
- Body materials: Aluminium, Resin, Brass and Stainless Steel.
- Piping variations: thread and one-touch fitting.
- Low weight.
- IP65 enclosure.
- Oil free option available.
- $\bullet$  Fluid temperature 1 to 50 °C (for water)
- Ambient temperature -10 to 50 °C





Stocked iter	ns for fast deliv	ery								
Fluid	Part Number	Valve type	Max. operating P differential [MPa]	Cv	Kv [m³/h]	Orifice diameter [mm]	Port size	Body/seal material	Voltage	Electrical entry
	VDW10AA		0.9	0.04	0.03	1	M5			
Air	VDW10EA		0.9	0.04	0.03	ı	Ø 4 mm	PPS resin/NBR		
All	VDW20DA		0.7	0.07	0.06	1.6	Ø 4 mm	FF3 TesiT/NDN		
	VDW20GA			0.07	0.00	1.0	Ø 6 mm			
	VDW12GA		0.9	0.04	0.03	1	M5	Brass/NBR	24 V DC	Grommet**
Water/Air	VDW12HA	N.C.	0.4	0.07	0.06	1.6	M5			
Water/Air	VDW22NAA	IN.C.	0.7	0.07	0.06	1.6	G 1/8	DIASS/INDN	24 V DC	Grommet
	VDW22PAA		0.4	0.18	0.15	2.3	G 1/8			
Vacuum (Oil free)	VDW14HA		0.4*	0.07	0.06	1.6	M5	Brass/FKM		
vacuum (On nee)	VDW24WAA		0.2*	0.30	0.26	3.2	G 1/8	DI a55/FINIVI		
DI Water/Gas	VDW22UAM		0.7	0.07	0.06	1.6	G 1/8	SUS/FKM		
Di Water/Gas	VDW22VAM		0.4	0.18	0.15	2.3	G 1/8	(Oil free)		

<sup>\*</sup> Pressurized port 1. Used with vacuum: 0.1 Pa·abs to atmospheric pressure.

Stocked items could be subject to change without prior notice

# Direct Operated 2 Port Solenoid Valve for General Use Series VX2

- Range of two port valves for air, medium vacuum and fluids.
- Body materials: Aluminium, Resin, Brass and Stainless steel.
- Piping variations: thread and one-touch fitting.
- Low power consumption & Low-noise construction.
- N.C., N.O. options.
- Oil free option available.
- Fluid temperature up to 60 °C (high temperature version available)
- Ambient temperature -20 to 60 °C





Stocked iter	ns for fast deliv	ery								
Fluid	Part Number	Valve type	Max. operating P differential [MPa]	Cv	Kv [m³/h]	Orifice diameter [mm]	Port size	Body/seal material	Voltage	Electrical entry
	VX210HG		1.0	0.23	0.20	2	Ø 6 mm			
	VX210J <b>G</b>		0.6	0.35	0.30	3	Ø 6 mm			
Air	VX210MG		0.6	0.41	0.35	3	Ø8mm	PBT resin/NBR		
	VX220H <b>G</b>		1.0	0.47	0.40	4	Ø8mm			
	VX230HG		1.0	0.70	0.60	5	Ø 10 mm			
	VX212A <b>G</b> AXB		1.0	0.23	0.20	2	G 1/8	Brass/NBR	24 V DC	DIN terminal
\\\(\alpha\) = \(\alpha\) \\(\alpha\) = \(\alpha\) = \(\alpha\) \\(\alpha\) = \(\alpha\)	VX212EGAXB		0.6	0.42	0.36	3	G 1/4			
Water/Air	VX222A <b>G</b> AXB	N.C.	1.0	0.63	0.54	4	G 1/4	Braco, NBN		(With surge
	VX232D <b>G</b> AXB	IV.C.	1.0	0.75	0.64	5	G 3/8		24 1 00	voltage
	VX214FGAXB		0.2*	0.62	0.53	5	G 1/4			suppressor)
Vacuum (Oil free)	VX224EGAXB		0.15*	1.08	0.93	7	G 3/8	Brass/FKM		
	VX234G <b>G</b> A		0.1*	2.21	1.90	10	G 1/2			
DI Water/Gas	VX212HGKXB		1.0	0.23	0.20	2	G 1/8			
	VX212MGKXB		0.6	0.42	0.36	3	G 1/4	SUS/FKM		
	VX222HGKXB		1.0	0.63	0.54	4	G 1/4	(Oil free)		
	VX232LGKXB		1.0	0.75	0.64	5	G 3/8			

<sup>\*</sup> Pressurized port 1. Used with vacuum: 0.1 Pa-abs to atmospheric pressure.

Note) For other voltages replace G by L (230 V AC) or Z1V (24 V AC) in the part numbers above.

Stocked items could be subject to change without prior notice







<sup>\*\*</sup> Standard lead wire length: 300 mm

# Pilot Operated Solenoid Valves



### Pilot Operated 2 Port Solenoid Valve for General Use **Series VXD**

- Body materials: Aluminium, Resin, Brass and Stainless steel.
- Piping variations: thread and one-touch fitting.
- Low-noise construction.
- Sizes from 1/4" to 1".
- N.C., N.O. options.

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- Oil free option available.
- Fluid temperature up to 60 °C (high temperature version available)
- Ambient temperature -20 to 60 °C



Stoc	ked items for fa	st delive	ery								
Fluid	Part Number	Valve type	Min. operating P differential [MPa]	Max. operating P differential [MPa]	Cv	Kv [m³/h]	Orifice diameter [mm]	Port size	Body/seal material	Voltage	Electrical entry
Air	VXD230D <b>G</b>			0.7	1.3	1.12		Ø 10 mm	PBT resin/NBR		
All	VXD230FG			0.7	1.5	1.29	10	Ø 12 mm	PDT resin/NDR		
	VXD232A <b>G</b> A			0.5	1.9	1.63	10	G 1/4			
14/-1/	VXD242GGA			1.0	4.5	3.86	15	G 3/8	Brass/NBR	24 V DC	DIN terminal (With surge
Water/	VXD242HGA			1.0	5.5	4.72	15	G 1/2			
Air	VXD252LGA	N.C.		1.0	9.5	8.15	20	G 3/4			
	VXD262NGA	IV.C.	0.02	1.0	13.0	11.15	25	G 1		24 V DC	voltage
	VXD232D <b>G</b> K			0.5	1.9	1.63	10	G 1/4			suppressor)
DI Water/	VXD242J <b>G</b> K			1.0	4.5	3.86	15	G 3/8	SUS/FKM		
Gas	VXD242K <b>G</b> K			1.0	5.5	4.72	15	G 1/2	(Oil free)		
L Gas –	VXD252MGK			1.0	9.5	8.15	20	G 3/4	(Oii free)		
	VXD262P <b>G</b> K			1.0	13.0	11.15	25	G 1			

Note) For other voltages replace G by L (230 V AC) or Z1V (24 V AC) in the part numbers above.

Stocked items could be subject to change without prior notice

# Zero Differential Pressure Type Pilot Operated 2 Port Solenoid Valve **Series VXZ**

- Body materials: Aluminium, Resin, Brass and Stainless steel.
- Piping variations: thread and one-touch fitting.
- Low-noise construction.
- Sizes from 1/4" to 1".
- N.C., N.O. options.
- Oil free option available.
- Fluid temperature up to 60 °C (high temperature version available)
- Ambient temperature -20 to 60 °C





<b>(1</b> ) <sub>C</sub>											
Stoc	ked items for fa	ast deliv	ery								
Fluid	Part Number	Valve type	Min. operating P differential [MPa]	Max. operating P differential [MPa]	Cv	Kv [m³/h]	Orifice diameter [mm]	Port size	Body/seal material	Voltage	Electrical entry
Air	VXZ230CG			0.7	1.7	1.46	10	Ø 10 mm	PBT resin/NBR		
Air	VXZ230EG			0.7	2.0	1.72	10	Ø 12 mm	PBT resin/NBR		
	VXZ232A <b>G</b> A			0.7	1.9	1.63	10	G 1/4			
	VXZ232B <b>G</b> A			0.7	2.4	2.06	10	G 3/8	Brass/NBR		DIN terminal
Water/	VXZ242F <b>G</b> A			0.7	5.3	4.55	15	G 1/2			
Air	VXZ252HGA	N.C.		1.0	9.2	7.89	20	G 3/4		24 V DC	(With surge
	VXZ262K <b>G</b> A	IN.C.	0	1.0	10.2	8.75	25	G 1		24 V DC	voltage
	VXZ232C <b>G</b> K			0.7	1.9	1.63	10	G 1/4			suppressor)
DI Water/	VXZ232D <b>G</b> K			0.7	2.4	2.06	10	G 3/8	SUS/FKM		
Gas	VXZ242G <b>G</b> K			0.7	5.3	4.55	15	G 1/2	(Oil free)		
Gao	VXZ252J <b>G</b> K			1.0	9.2	7.89	20	G 3/4	(On nee)		
	VXZ262LGK			1.0	10.2	8.75	25	G 1			

Note) For other voltages replace G by L (230 V AC) or Z1V (24 V AC) in the part numbers above.

Stocked items could be subject to change without prior notice







# Air Operated Valves



# Air Operated 2 Port Valve for General Use **Series VNB**

- A wide variety of suitable fluids, due to body and seal options.
- Robust poppet construction.
- Sizes from 1/8" to 2".
- N.C., N.O., C.O. options.
- External pilot solenoid option.
- Fluid temperature up to 60 °C (high temperature version available)
- Ambient temperature -5 to 60 °C





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Fluid	Part Number	Valve type	Max. operating P differential [MPa]	Cv	Kv [m³/h]	Orifice diameter [mm]	Port size	Body/seal material
	EVNB104A-F8A		1.0	1.1	0.94	7	G 1/4	
	EVNB104A-F10A		1.0	1.1	0.94	7	G 3/8	
	EVNB204A-F15A		1.0	2.6	2.23	11	G 1/2	
	EVNB304A-F20A		1.0	5.4	4.63	14	G 3/4	
	EVNB404A-F25A		1.0	7.0	6.01	16	G 1	
	EVNB604A-F40A		1.0	19.0	16.30	28	G 1 1/2	
General Use	EVNB704A-F50A	N.C.	1.0	29.0	24.88	33	G 2	Bronze/NBR
	EVNB201A-F10A		0.5	4.0	3.43	15	G 3/8	
	EVNB201A-F15A		0.5	4.8	4.12	15	G 1/2	
	EVNB301A-F20A		0.5	7.4	6.35	20	G 3/4	
	EVNB401A-F25A		0.5	12.0	10.30	25	G 1	
	EVNB601A-F40A		0.5	28.0	24.02	40	G 1 1/2	
	EVNB701A-F50A		0.5	43.0	36.89	50	G 2"	

Stocked items could be subject to change without prior notice

# **Angle Seat Valve for General Use Series VXB**

- Our most compact angle seat valve (height 99.8 mm, port size 3/8").
- Body materials: stainless steel (316L) and bronze available.
- Operating pressure range up to 1.6 MPa.
- Sizes from 3/8" to 3/4".

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- Fluid temperature up to 180 °C.
- Ambient temperature -20 to 60 °C.





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Fluid	Part Number	Valve type	Max. operating P differential [MPa]	Cv	Kv [m³/h]	Orifice diameter [mm]	Port size	Body/seal material
	VXB215AA		1.0	3.5	3	11	G 3/8	
	VXB215BA		0.6	5.4	4.63	14	G 1/2	Bronze / FKM
	VXB215CA		0.4	7.6	6.52	18	G 3/4	
	VXB215DA		1.0	3.5	3	11	G 3/8	
Steam	VXB215EA		0.6	5.4	4.63	14	G 1/2	SUS / FKM
Water	VXB215FA		0.4	7.6	6.52	18	G 3/4	
Air	VXB215AHA	N.C.	1.6	3.5	3	11	G 3/8	
Alf	VXB215BHA		1.2	5.4	4.63	14	G 1/2	Bronze / FKM
	VXB215CHA		0.6	7.6	6.52	18	G 3/4	
	VXB215DHA		1.6	3.5	3	11	G 3/8	
	VXB215EHA		1.2	5.4	4.63	14	G 1/2	SUS / FKM
	VXB215FHA		0.6	7.6	6.52	18	G 3/4	

Stocked items could be subject to change without prior notice







# Valves for Specific Fluids



### Valves for Specific fluids

#### Pilot Operated 2 Port Solenoid Valve for Dry Air

#### Series VQ20/30

• High speed response, high frequency operation possible, and long operating life.



Mat	Material		Port size	Orifice dia.
Body	Seal	type	1 011 3120	[mm]
Resin AL	HNBR	N.C.	Ø 6 to Ø 12	VQ20: 3.4 VQ30: 4.8

#### 2 Port Solenoid Valve for Dust Collector **Series VXF2**

• Wide range of piping options. Large orifice sizes and large discharge flow rate.



Mat	erial	Valve	Port size	Orifice dia.
Body	Seal	type	1 011 3120	[mm]
AL	NBR FKM	N.C.	3/4" to 4"	22 to 100

### 5.0 MPa Pilot Operated 2/3 Port Solenoid Valve

#### **Series VCH**

• Low response time and long service life ideal for PET industry.



Mat	erial	Valve	Port size	Orifice dia.
Body	Seal	type	1 011 3126	[mm]
Brass AL	Polyure- thane elastomer	N.C. N.O.	1/2" to 1"	16 to 18

### 2 Port Valve for Dust Collector (Air Operated)

#### **Series VXFA2**

• Wide range of piping options. Large orifice sizes and large discharge flow rate.



Material		Valve	Port size	Orifice dia.
Body	Seal	type	1 011 0120	[mm]
AL	NBR FKM	N.C.	3/4" to 4"	22 to 100

#### Coolant -

#### Air Operated / External Pilot Solenoid 2 **Port Valve**

#### **Series SGC**

Valve type

N.C

• Cutting oil, coolant for machine tool, etc. up to 1.6 MPa.



### N.O. Air Operated / External Pilot Solenoid 2/3 Port Valve for High Pressure **Series SGH**

3/8" to 1"

• Coolant valve for high pressure coolant (up to 3 MPa/7 MPa) that is ideal for lubrication, dust blowing and cooling.

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9 to 25

Valve type	Port size	Orifice dia. [mm]
N.C. N.O.	3/8" to 1"	6 to 17

#### Steam

### **Direct Operated 2 Port Solenoid Valve Series VX2**

• Compact dimensions and low-noise construction



Material Valve		Port size	Orifice dia.	
Body	Seal	type	1 011 3120	[mm]
Brass Stainless steel	FKM	N.C. N.O.	1/8" to 1/2"	2 to 10

#### Air Operated 2 Port Valve Series VND

• Air pilot operated robust poppet design. Temperatures up to 180 °C.





Material		Valve	Port size	Orifice dia.
Body	Seal	type	1 011 3120	[mm]
Bronze Stainless	PTFE	N.C. N.O.	1/8" to 2"	7 to 50

#### Pilot Operated 2-Port Solenoid Valve **Series VXS**

• Zero pressure differential operation. Compact and lightweight.



Mat	erial	Valve	Port size	Orifice dia.
Body	Seal	type	1 011 3120	[mm]
Brass Stainless steel	FKM	N.C.	1/4" to 1"	10 to 25

#### **Angle Seat Valve** Series VXB

• Compact angle seat valve up to 1.6 MPa.



Mat	erial	Valve	Port size	Orifice dia.
Body	Seal	type	1 011 3120	[mm]
Bronze Stainless steel		N.C.	3/8" to 3/4"	11 to 18

### Chemicals

### Compact Direct Operated 2/3 Port Solenoid Valve **Series LVM**

• Meeting the most advanced needs of life science equipments and analyzers, thanks to minimal dead space and isolating separating diaphragm design.



Material		Valve	Port size	Orifice dia.
Body	Seal	type	1 011 0120	[mm]
PFA PEEK	EPDM FKM FFKM	N.C. N.O. Universal	M5 M6 1/4-28 UNF	1.1 to 2

#### Air Operated High Purity Chemical Valve **Series LV**

• Prevents micro-bubbles and low particle generation. Perfect for the most demanding industries as photovoltaic or electronic.



Mat	erial	Valve	Port size	Orifice dia.
Body	Seal	type		[mm]
PFA PFS Stainless steel	NBR EPDM PTFE	N.C. N.O. C.O. <sup>(1)</sup>	1/8" to 1"	2 to 22

(1) Double acting



For more information about these series please consult SMC

# Valves for Specific Applications



# Valves for specific applications for Expert

#### **Direct Operated 3 Port Solenoid Valve Series VX3**

• For air, gas, vacuum, water, steam, oil. Ideal for pilot applications.



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### Air Operated 2/3 Port Valve **Series VXA**

• For air, gas, vacuum, water, oil. Ideal for pilot applications and suitable to be used in narrow spaces due to its swivel actuator.



### 2 Port Solenoid Valve / Energy Saving Type **Series VXE**

• The power consumption (when holding) is substantially reduced (down to approx. 1/3 of standard valve's value). Coil heat reduction.



Mat	erial	Valve	Port size	Orifice dia.
Body	Seal	type	1 011 3120	[mm]
Brass Stainless Steel	NBR FKM EPDM PTFE	N.C. N.O. C.O.	1/8 to 3/8"	1.5 to 4

#### Air Operated / External Pilot Solenoid 2 **Port Valve Series VNA**

• For compressed air and air-hydro circuit control.



Material		Valve	Port size	Orifice dia.
Body	Seal	type	1 011 0120	[mm]
AL	NBR FKM	N.C. N.O.	1/8" to 1/2"	10 to 50
	EPDM	C.O.		

### **Direct Operated 2 Port Solenoid Valve for** High Pressure **Series VX2**

• For air, water and oil up to 3.0 MPa.



Material Valve		Port size	Orifice dia.	
Body	Seal	type	1 011 3120	[mm]
Brass Stainless Steel	NBR FKM	N.C.	1/8" to 3/8"	1.2 to 4

Model	Valve type	Port size	Orifice dia. [mm]
VXA21/22	N.C./N.O.	1/8" to 1/2"	3 to 10
VXA31/32	C.O.	1/8" to 3/8"	1.5 to 4

#### 2 Port Solenoid Valve with Built-in Y-strainer Series VXK

• Space saving and reduced piping labour for air, water, oil and steam.



Material		Valve	Port size	Orifice dia.
Body	Seal	type	1 011 0120	[mm]
Brass	NBR FKM EPDM PTFE	N.C. N.O.	1/8 to 3/8"	2 to 8

# Pilot Operated 2 Port Solenoid Valve for High Pressure

**Series VXH** 

• For air, water and oil up to 2.0 MPa.



Mate	Material Val		Port size	Orifice dia.
Body	Seal	type	1 011 3120	[mm]
Brass	NBR	N.C.	1/4" to 1/2"	10

Mat	Material		Port size	Orifice dia.
Body	Seal	type	1 011 0120	[mm]
Brass Stainless Steel	NBR FKM EPDM PTFE	N.C.	1/8" to 1"	2 to 25

#### Pilot Operated 2 Port Solenoid Valve **Series VXR**

• Water hammer relief type for water and oil.



Material

Seal

NBR

Body

**Series PVQ** 



#### Bronze 1/2" to 2" 20 to 50 N.O. **Compact Proportional Solenoid Valve**

NC

• Control the flow rate smoothly according to the current. For air and inert gas.

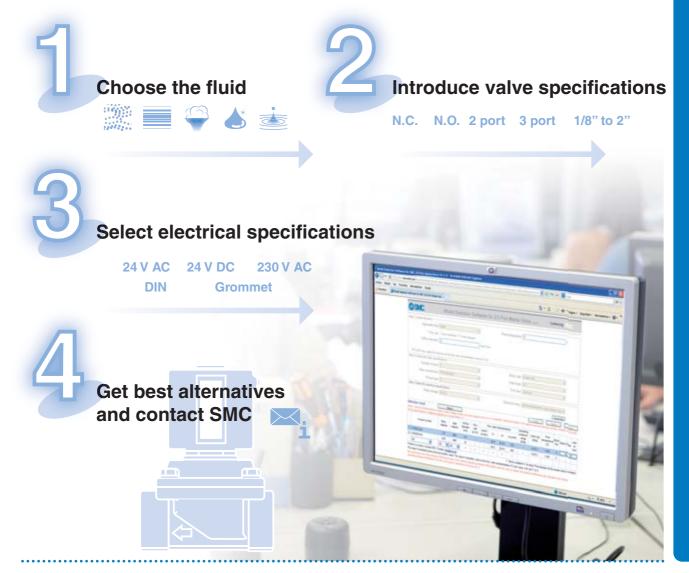


Material		Valve	Port size	Orifice dia.
Body	Seal	type	1 011 3120	[mm]
Brass Stainless Steel	FKM	N.C.	M5 to 1/8"	0.3 to 4



for more information about these series please consult SMC

 Get your valve in only 4 simple steps using the 2 Port Valve selector at www.smc.eu:





### SMC CORPORATION (Europe)

Austria \*\* +43 (0)2262622800 www.smc.at office@smc.at **2** +370 5 2308118 Lithuania info@smclt.lt www.smclt.lt Belgium **2** +32 (0)33551464 info@smcpneumatics.be www.smconeumatics.be Netherlands **2** +31 (0)205318888 info@smcpneumatics.nl www.smcpneumatics.nl **\*** +359 (0)2807670 office@smc.bg www.smc-norge.no Bulgaria www.smc.bg Norway **2** +47 67129020 post@smc-norge.no Croatia **2** +385 (0)13707288 www.smc.hr office@smc.hr Poland **2** +48 222119600 www.smc.pl office@smc.pl Czech Republic **\*** +420 541424611 www.smc.cz office@smc.cz **2** +351 226166570 Portugal postpt@smc.smces.es www.smc.eu **\*** +45 70252900 smc@smcdk.com **\*** +40 213205111 Denmark www.smcdk.com Romania www.smcromania.ro smcromania@smcromania.ro **2** +372 6510370 Estonia www.smcpneumatics.ee smc@smcpneumatics.ee Russia **2** +7 8127185445 www.smc-pneumatik.ru info@smc-pneumatik.ru Finland **\*** +358 207513513 www.smc.fi smcfi@smc.fi **\*** +421 (0)413213212 Slovakia office@smc.sk www.smc.sk **\*** +33 (0)164761000 info@smc-france.fr France www.smc-france.fr Slovenia **\*** +386 (0)73885412 office@smc si www.smc.si **2** +49 (0)61034020 info@smc.de Germany www.smc.de **\*** +34 902184100 Spain www.smc.eu post@smc.smces.es www.smchellas.gr **2** +30 210 2717265 sales@smchellas.gr Greece Sweden **\*** +46 (0)86031200 post@smc.nu Hungary **\*** +36 23511390 www.smc.hu office@smc.hu **\*** +41 (0)523963131 Switzerland www.smc.ch info@smc.ch **2** +353 (0)14039000 Ireland www.smcpneumatics.ie sales@smcpneumatics.ie **2** +90 212 489 0 440 Turkey www.smcpnomatik.com.tr info@smconomatik.com.tr **\*** +39 0292711 www.smcitalia.it mailbox@smcitalia.it Italy **\*** +44 (0)845 121 5122 UK www.smcpneumatics.co.uk sales@smcpneumatics.co.uk **\*** +371 67817700 info@smclv.lv Latvia www.smclv.lv

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