NEW PRODUCTS GUIDE

Digest version

Vol. 4



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Compact Cylinder with Linear Guide

ø12, ø16, ø20, ø25

MXZ Series



For details, refer to the **Web Catalog** or the catalog.





- Design and assembly time is reduced due to integration of a linear guide to the cylinder.
- Lightweight workpieces such as electronic boards can be stopped, positioned and clamped.



Compact Cylinder with Linear Guide MXZ series



Deflection

Compact and Space-saving

Height /at 10 mm stroke [mm]									
Bore size	MXZ	МХН	MGP	СQМ					
12	44	56.5* ¹	53	41.5					
16	45	66	59	41.5					
20	49.5	78	69	52					
25	54	_	75.5	55.5					

*1 Compared with bore size of ø10

Width [mm]										
Bore size	MXZ	МХН	MGP	CQM						
12	23	20*1	26	25						
16	26	25	30	29						
20	30	32	36	36						
25	33.5	—	42	40						

*1 Compared with bore size of ø10

Depth [mm]											
Bore size	MXZ	МХН	MGP	CQM							
12	37.4	47*1	58	25							
16	40.9	53.5	64	29							
20	49.4	64.5	83	36							
25	57.4	—	93	40							

*1 Compared with bore size of ø10

Mounting

Through-hole mounting



Tap mounting







Variations Standard stroke [mm] Bore size Series Option [mm] 40 50 20 30 12 ____ _ _ 16 _ _ _ _ Port location MXZ selectable 20 25 SMC

Air Slide Table ø6, ø8, ø12, ø16, ø20, ø25 MXQ Series





For details, refer to the Web Catalog or the catalog.

- The centralized adjuster of the functional option is available as standard.
- Made to order options have been added.
 - Dual stroke specification · Side adjuster specification · Combined use of shock absorber + metal stopper, etc.

Reduced in height

10%*1reduction (Current model: **30**mm*1)

Product weight

298 g*1 22%*1reduction (Current model: 380g*1)

Allowable kinetic energy

0.07 lbf [0.09 J]*1 improvement (Current model: 0.05 lbf [0.055 J]*1)

*1 Comparison between the double-ported type and the current MXQ12-30 (without adjuster)



Reduced in height and weight with thinner table

Thin table made of special stainless steel

• Durable material with the same strength as the current model

2 combinations of guide and cylinder bore size available



Air Slide Table MXQ Series Variations

	Bore size						Body	ody option Functional option									e.				
												tion	11 (A	11-11-0							i i i
			6	8	12	16	20	25	Standard type	Symmetric type	Shorter total length type	Cylinder with stable lubrication funct (Lube-retainer)	With buffer	With end lock	Axial piping	With buffer, end lock	With buffer, axial piping	Centralized adjuster	Centralized adjuster (Symmetric type)	Buffer, Centralized adjuster	Buffer, Centralized adjuster (Symmetric type)
D	ouble-ported typ MXQ⊟A	e	•	•	•	•	•	•													
		Stroke	10 20 30 40 50	10 20 30 40 50 75	10 20 30 40 50 75 100	10 20 30 40 50 75 100 125	10 20 30 40 50 75 100 125 150	10 20 30 40 50 75 100 125 150	•	_	•	•	•	•	•	•	•	•	•	•	•
	Low thrust with high rigidity type MXQ⊟B		•	•	•	•	•														
		Stroke	10 20 30 40 50 75	10 20 30 40 50 75 100	10 20 30 40 50 75 100 125	10 20 30 40 50 75 100 125 150	10 20 30 40 50 75 100 125 150		•	•	•	_	_	_	_	_	_	_	_	_	_
Sir	ngle side-ported ty MXQ⊡C	pe		•	•																
-		Stroke		10 20 30 40 50 75	10 20 30 40 50 75 100		_	_	•	•	•	_	•	•	•	•	•	•	•	•	•
int	Height terchangeable typ MXQ□	pe	•	•	•	•	•	•													
-		Stroke	10 20 30 40 50	10 20 30 40 50 75	10 20 30 40 50 75 100	10 20 30 40 50 75 100 125	10 20 30 40 50 75 100 125	10 20 30 40 50 75 100 125	•	•	•	_	•	•	•				•	•	•

Air Slide Table MXQ series

	Adj	juster o	option		Auto switch	Made to order															
Metal stopper with bumper	Shock absorber	Rubber stopper	Metal stopper	Extension stroke end/ Retraction stroke end mounting	Solid state/Reed	PTFE grease (-X7)	Grease for food processing equipment (-X9)	Long adjustment bolt (10 mm longer adjustment range) (-X11)	Long adjustment bolt (20 mm longer adjustment range) (-X12)	Long adjustment nut and bolt (-X28)	Without built-in auto switch magnet (-X33)	Fluororubber seal (-X39)	Anti-corrosive guide unit (-X42)	EPDM seal (- X45)	Low-speed specification (15 to 50 mm/s) (-X580)	End plate compatible with the current MXQ series (-X2100)	Heat-resistant specification (-10 to 100°C) (-X2128)	Dual stroke specification	Side adjuster specification	Combined use of shock absorber + metal stopper (S	Extension stroke end adjuster fixed from the axial direction (-X2202)
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	_	•	•	_	_	•
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	_	•	_	_	_	•
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	_	•	_	_	_	•
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	_	•	•	•



SMC



NAAMS Standards Compliant Power Clamp Cylinder 050, 063

CKZ3N-X2742A(Base Type) -X2568 (With Manually Operated Handle) For details, refer to the **Web Catalog** or the catalog.



Weight reduced by up to **38**%

• Aluminum body with greatly reduced weight

• Suitable for robot material handling

Bore size	CKZ2N ⇒ New CKZ3N-X2742A	Reduction rate
50	5.1 kg 🔿 3.2 kg	37% reduction
63	7.2 kg ➡ 4.4 kg	38% reduction

* Arm opening angle: 135°, Arm position: R



Wide Type Parallel Style Air Gripper 010, 016, 020, 025



For details, refer to the **Web Catalog** or the catalog.



MHL2 Series



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- Dust resistant option now available. (Made to Order: -X85, -X86□)
- Closing width adjusting option now available. (Made to Order: -X28)
- Small auto switches can be directly mounted.
- Mounting brackets are not required. This reduces assembly labor.
- Direct mounting is possible with the changed groove shape.
- \cdot Solid state auto switch: D-M9 \Box

Performance and mounting dimensions are interchangeable with the current model.



Wide Type Parallel Style Air Gripper MHL2 Series

Lightweight

Lightweight body by changing the body shape

			[g]
Model	MHL2-□Z	MHL2	Reduction rate
MHL2-10D	280	280	0.0%
MHL2-16D	525	585	10.3%
MHL2-20D	940	1025	8.3%
MHL2-25D	1565	1690	7.4%



Built-in dust protection mechanism (Standard)

A scraper with a dust lip is adopted for all rod rotating parts.

Dust resistant option now available. (Made to order)

- In micro-powder (10 to 100 μ m) environments \rightarrow With double Lube-retainer (-X85) * Prevents particles and foreign matter from entering the gripper.
- The Lube-retainer ensures a consistent film of grease, improving gripper endurance.
- \bullet In dusty environments \rightarrow With heavy duty scraper + Lube-retainer (-X86[])
- * Applicable for environments containing particles or foreign matter. Grease film is formed on the rod due to the Lube-retainers so that the endurance is improved.
- * Seal material can be NBR or fluororubber.





Fingers synchronized by a rack and pinion mechanism



Double-end type oil-impregnated resin bearings are used for all shafts.

A large amount of gripping force is provided through the use of a double piston mechanism, while maintaining a compact design.

An auto switch can be mounted at 4 locations.

Series Variations

Sorioo Action Bore size [mm]		m]		Mode to order				
Series	Action	10	16	20	25	32	40	
MHL2-□Z	Double acting	•	•	•	•	*1	*1	-X4: Heat resistant (14 to 212°F [-10 to 100°C]) -X5: Fluororubber seal New -X28: With bolt for adjusting the closing width -X50: Without magnet -X53: Ethylene propylene rubber seal (EPDM) -X63: Fluorine grease -X79: Grease for food processing machines: Fluorine grease -X79A: Grease for food processing machines: Aluminum complex soap base grease -X79A: Grease for food processing machines: Aluminum complex soap base grease New -X85: Fine-particle proof specification (MHL2-□Z only) New -X86: With heavy duty scraper + Stable lubrication function (Lube-retainer) (NBR seals) (MHL2-□Z only) New -X86A: With heavy duty scraper + Stable lubrication function (Lube-retainer) (Fluororubber seals) (MHL2-□Z only)
								*1 For bore size of ø32 and ø40, refer to the Web Catalog for the current model.

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Rod End (Piston Rod End Bracket)

Thread size: M4 to M48

KJ D Series

Smooth rotation that can adjust the centering automatically.

Spherical slide bearing

RoHS



Actuating cylinder

For details, refer to the Web Catalog

Allowable inclination angle: 19°

(KJ36D, Pin shape: Round bar)



Can be used in various applications, not limited to connecting to a cylinder.

Applicable cylinders

CJ2 series: Ø10, Ø16 CM2 series: Ø20 to Ø40 CG1 series: Ø20 to Ø100 CA2 series: Ø40 to Ø100 MB series: Ø32 to Ø125 MB1 series: Ø32 to Ø125 CQ2 series: Ø12 to Ø100 C85 series: Ø8 to Ø25 C75 series: Ø32, Ø40 C76 series: Ø32, Ø40 C95 series: Ø160 to Ø250 C96 series: Ø32 to Ø125 Can be used as an auxiliary bracket for the oscillating mechanism.

Rod end

Reduces the design and assembly labor of the oscillating mechanism.



Centering Unit MACM Series



For details, refer to the Web Catalog or the catalog.

Alignment and positioning of transferred workpieces



Centering Unit MACM Series

<Application Examples>

Conveyor Line

1 Transferred workpieces are stopped

Workpieces transferred at an angle are stopped at an alignment point (stops where the centering unit is installed).



2 Centering unit rises

Cylinder rises to lift the workpiece (separates roller conveyor from workpiece).



3 Workpiece alignment/table lock

Alignment cylinder corrects skewed workpieces and realigns them. After alignment, the table of the centering unit is locked to maintain the corrected position even after the adjustment cylinders are released.



4 Centering unit descends/workpiece is transferred to next step



Liquid Crystal Cassette Transfer

1 Stops in front of rack

2 Is stored in rack

Is transferred to and stopped in front of the rack where skewed liquid crystal cassettes are to be stored





3 Alignment of cassette/table lock

The alignment cylinder corrects skewed workpieces and aligns the liquid crystal cassettes.

After alignment, the table of the centering unit is locked to maintain the corrected position even after the alignment cylinders are released.







Modules can be combined flexibly.

• Number of valves, digital inputs/outputs

Solenoid valve	Max. 32 valves
Digital input	Max. 128 inputs
Digital output	Max. 64 outputs

- I/O modules can be connected and removed one by one.
- Up to 8 modules can be connected in any order.



In-line Type Vacuum Ejector RoHS ZU A Series



For details, refer to the **Web Catalog** or the catalog.

Compact and Lightweight New female thread type 0.D.) Ø10.4 /(Current model ø12.8) Weight 3.9 g/(Current model 6.5 g) Overall 52 mm /(Current model 59 mm) **59** mm **52** mm Actual size 7 mm shorter (11% reduction) ø**10.4** ø**12.8** Current model ZU05 61610 new

Variations

Model	Nozzle size	Vacuum press	ure reached *1	Max. suction flow rate	scfm [L/min (ANR)]	Air consumption	Dort oizo
Model	[mm]	Type S	Type L	Type S	Type L	scfm [L/min (ANR)]	FULLSIZE
ZU05 🗆 A	0.5	–13 psi	–7 psi	0.25 [7]	0.46 [13]	0.49 [14]	ø6 One-touch fitting
ZU07⊟A	0.7	[–90 kPa]	[–48 kPa]	0.39[11]	0.56 [16]	0.99 [28]	Rc1/8

*1 Supply pressure: 65 psi [0.45 MPa]



Step Motor Controller JXCE1/91/P1/D1 Series



For details, refer to the **Web Catalog** or the catalog.

RoHS

We check the reaction type We check the reaction type

ONUMERICAL MONITORING AVAILABLE

Numerical information, such as the current speed, current position, and alarm codes, can be monitored on the PLC.



Trademark

EtherNet/IP[™] is a trademark of ODVA. DeviceNet[™] is a trademark of ODVA.



EtherCAT $^{\tiny(\! B\!)}$ is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.

Air Tank for Booster Regulator Compliant with ASME Standards VBAT-X105

For details, refer to the Web Catalog or



Compliant with ASME standards

ASME Section VIII-Division 1 Miniature pressure vessels: UM stamp

Series Variations

Matorial		Tank c	apacity	
Wateria	5 L	10 L	22 L	38 L
Carbon steel			•	•
Stainless steel				

ASME standards compliant safety valve included (UV stamp)

Manufacturer's certificate of compliance included (FORM U-3A)

Compact connections are possible with booster regulators.





the catalog.

as their design safety standards. These products can be used in the following countries by submitting a notification of use (application) in each country.

[Central and South America] Argentina, Bolivia, Chile, Venezuela, Brazil, Mexico

[Asia/Oceania] Pakistan, Taiwan, Hong Kong, India, Philippines, New Zealand

Compatible with all series 🗸

Overseas Standards Compliant Product Variations

Main country/region	Law	Part no.	Material	Tank capacity
EU	CE Marking/Simple Pressure Vessels Directive	VBAT⊡-Q	Carbon steel	5 L/10 L/20 L/38 L
China	Regulations on Safety Supervision of Special Equipment/ Simple Pressure Vessels Safety and Technical Regulations	VBATD-X104	Carbon steel/ Stainless steel	5 L/10 L/20 L* ¹ /38 L
South Korea	Occupational Safety and Health Act/KC Certification*2	VBATD-X101	Carbon steel/ Stainless steel	5 L/10 L/20 L/38 L

* Refer to the Web Catalog for details about models, specifications, etc.

*1 The capacity of the VBAT -X104 carbon steel tank is 22 L.

*2 The VBAT -X101 is not within the coverage of the High Pressure Gas Safety Control Act in South Korea as the maximum operating pressure is 140 PSI [0.97 MPa].



Main Line Filter Compressed Air Preparation Filter AFF Series



For details, refer to the **Web Catalog** or the catalog.



Space-saving design, Labor-saving in piping!

Water droplets and solid particles can be removed with just one AFF. A separate filter for removing water droplets (water separator, AMG series) is not necessary any more. Space and piping work are reduced.





SMC

Main Line Filter AFF Series



3 sizes are available.

Model with 388 scfm [11.0 m³/min] flow capacity added. More choices available depending on the flow rate of customer.



王

Easier replacement of the element

Stopper function prevents the bowl from falling.

The bowl does not fall even if the bolts are removed. It is not necessary to hold the bowl for removing the bolts. Safe and secure mounting and removing of the bowl with both hands is possible.

The lightweight stainless bowl with reduced thickness means easier element replacement.



Remove the 4 securing bolts.

Bolt









An end cap with slits is used for the element.

The end cap with slits eliminates the accumulation of drain water. Even high velocity fluid is not spattered. Results in compact bowl design.



Nominal

Auto Drain Valve AD402-A Series





For details, refer to the Web Catalog or the catalog.

Longer life & Higher resistance to foreign matter

Improved foreign matter resistance



Increase in condensate discharge

Reduction of operation frequency due to increased condensate discharge

 Condensate discharge: Max. 3.38 oz/cycle [100 cm³/cycle] (3 times compared with the current model)

Double layer design

- Better visibility & environmental resistance
- The bowl is covered with a transparent bowl guard.

With manual discharge mechanism

N.O.: Black N.C.: Gray

SMC





Resin bowl guard has reduced the weight by 22%



Reduced required maintenance space

Aftercooler

Air tank Air dryer

Only 30 mm of space is required underneath for maintenance, allowing more compact installation.

Mounting example

Compressor



30 mm





Material: Polycarbonate Easier maintenance

using a tool.

Release the lock by sliding the lock button down while holding the body.

Then, rotate the bowl guard and pull down for removal.

One-touch mounting and removal

of the bowl is possible without

Better environmental resistance: Transparent bowl guard can protect the inner bowl!

Windows on the bowl guard have been removed and the inner bowl is instead covered with a polycarbonate transparent bowl guard. Now, even if the environment changes and the bowl is exposed to corrosive chemical or oil splash, the foreign matter will not stick directly to the pressurized bowl. This can reduce risk of bowl breakage.



Better visibility: 360°

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



Amount of condensate can be monitored from any direction.



Amount of condensate can be monitored from the slit.

Options

Bowl material can be selected according to the operating environments.



Bleed valve equipped type can be selected.



SMC

27

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E CE

Start-up valve for low speed air supply to gradually raise initial pressure in an air

AV2000-A/3000-A/4000-A/5000-A Series

gradually raise initial pressure in an air system and for quick exhaust by cutting off air supply

Power consumption: 0.35 W

* At 12/24 VDC

Current model: 1.8 W (80% reduction)

Soft Start-up Valve

Improved flow rate characteristics: Up to 2.3 times

= 76

Cv = 2.4 (C[dm³/(s·bar)]: 9.2)

* For AV2000-A

Energy saving

No air flow when the main valve is switched.



S= CE





((RoHS

For details, refer to the **Web Catalog** or the catalog.

[Refer to the

Soft Start-up Valve AV2000-A/3000-A/4000-A/5000-A series



Improved adjustability at low speed air supply



Smaller profile and less work hours due to integrated silencer

SMC



Model	Shortened dimensions [mm]	Silencer part number (when mounted afterward)
AV2000-⊡S-A	37	AN20-02
AV3000-⊡S-A	49	AN30-03
AV4000-⊡S-A	56	AN40-04
AV5000-□S-A	92	AN500-06

Energy saving

When switching the main valve (exhaust \rightarrow low speed air supply), the flow passage to port 3 (R) is closed with the main valve. Therefore, air does not blow out to the outside.

Variations

Sorios	Cv	Port	size	Voltago	Electrical ontry	Ontion
Series	(C [dm ³ /(s·bar)])	1 (P), 2 (A)	3 (R)	vollage	Electrical entry	Option
AV2000-A	2.4 (9.2)	1/4	1/4			
AV3000-A	3.1 (13.1)	3/8	3/8	100 VAC 200 VAC 110 VAC	· Grommet	· Bracket
AV4000-A	5.1 (19.2)	1/2	1/2	220 VAC 24 VDC 12 VDC	· DIN terminal	· Silencer (Built-in)
	12.6 (34.8)	3/4	2/4			
AV5000-A	13.7 (41.3)	1	3/4			





Pilot Valve Variations



Combination with F.R.L. Units



Simple Specials System

Units with an F.R.L are available through the simple special ordering system. The lead time is almost the same as the standard product. Please contact your local sales representative for more details.



Air Saving Speed Controller AS-R/AS-Q Series



For details, refer to the **Web Catalog** or the catalog.



Reduce air consumption just by mounting to air cylinder

Air consumption 25%!!

(33% reduction: Supply pressure at 73 psi [0.5 MPa], Air supply pressure at 15 psi [0.1 MPa])

Acquire two-pressure control just by mounting the product. Reduces the air supply pressure of the stroke on the non-working side to 29 psi [0.2 MPa].

Mounting and operation are the same as a speed controller!!

With pressure reduction function

AS-R Series

With rapid supply and exhaust function AS-Q Series



Air Saving **25**^{*1}% reduction

By reducing the pressure on the return stroke to 29 psi [0.2 MPa], the air consumption can be reduced.



Equal Response Time

- Improved output response at the stroke end due to rapid air-charge.
- Improved response time of return stroke due to rapid air exhaust.

Lurch Prevention

As this product is operated by the return stroke at a reduced pressure by the meter-in circuit, a sudden extension of the working stroke is prevented.



Variations

With pressure	With rapid supply and m	Model	Dort			Арр	licable tu	bing O.I).			Applicable
reduction function	exhaust function	(Body	size	Metric s	ize (Appli	cable thre	ad: R, G)	Inch si	ze (Applic	able threa	ad: NPT)	tubing
AS-R Series	AS-Q Series	size)	5120	6	8	10	12	1/4"	5/16"	3/8"	1/2"	material
AS22R- □01-□	_	2	1/8	•	•			-	•			Nylon (T. TIA series)
AS22R- □02- □	AS22Q- □02-□	-	1/4	— — —						_		Soft nylon
AS32R- □02- □	AS32Q- □02-□	3	1/4	•	•			_	•	-		(TS, TISA series)
AS32R- □03- □	AS32Q- □03-□	5	3/8	— — —			_	_				Polyurethane (TU, TIUB series)
AS42R- □03- □	AS42Q- □03-□	4	3/8				-•	_	_		•	Fluororesin
AS42R- □04- □	AS42Q- □04-□	7	1/2								-	(TLM, TILM series) (TH, TIH series)
					@SM							32

Application Proposal for Air Saving Speed Controller

Air consumption reduction ratio: 50%

* Comparison of air consumption when the supply pressure is 73 psi [0.5 MPa] In this case, the load to move the workpiece is piston area multiplied by 29 psi [0.2 MPa].



Air consumption reduction ratio: 46%

Combination with the Optimum Size of Cylinder Size

For example, when an ø80 mm bore cylinder is used in place a ø63 mm bore cylinder that does not have enough force, the customer can choose an optimally sized ø67 mm bore JMB series cylinder. In addition, an AS-R/AS-Q series combined with this cylinder can reduce air cons umption by up to 46%.

Air Consumption (for one cycle)



Pilot Check Valve: Metal Body Type AS-X785



16-E672

The use of a metal body improves strength and environmental resistance.

Three types capable of connecting to female threads and One-touch fittings are available.

Temporary intermediate stops are possible.*1

*1 Precise intermediate stops are not guaranteed.

Example of a drop prevention circuit











Port size on the					Port size on t	he valve side	
		Pilot port		Female thread (Rc, G)			
oy in rac	cymaer side			1/8	1/4	3/8	1/2
	1/8	M5		•	—	—	-
ПС	1/4		1 /0	—		—	-
n, G	3/8	Rc, G	1/8	—	—	•	-
	1/2		1/4	—	—	—	

Port size on the Pilot port			Port size on t	he valve side	
		Pilot	port	One-tou	ch fitting
oyinta			ø10	ø12	
R, G	1/2	Rc, G	1/4	•	•

Port size on the			Port size on the valve side				
cylind	ar sida	Pilot port		One-touch fitting			
cymider side			ø6	ø8	ø10		
	1/8		•	•	_		
R, G	1/4	ø6	•	•	•		
	3/8		_	•	•		



Pressure Sensor/ 3-Screen Display Sensor Monitor

PSE57 /**PSE300AC** Series

Pressure	Sensor for C	General Fluids	PSE57 Ser	ies
Rated press	sure range		IP65	
		psi [MPa]		
0 to 145 [0 to 1]	-14.5 to 14.5 [-100 to 100 kPa] 0 to	o 73 [0 to 500kPa]		E
0 to 290 [0 to 2]	0 to 725 [0 to 5] 0 to	o 1450 [0 to 10]		
Withstand w	voltage		110	1
500 VA(-Twice that of the PSE560>	Till and the second	ST A	
Materials of Part	s in Contact with Fluid		2	3E577-02-28 43 0-10
Piping port	C3604 + Nickel plating		~	He man
Pressure sensor	Al2O3 (Alumina 96%)	a minute		and marked
Square ring	FKM			
	·	-		

New 3-Screen Display Sensor Monitor PSE300AC Series

It is possible to change the settings while checking the measured value. Visualization of Settings Set value (Threshold value) Main screen Hysteresis value Measured value (Current pressure value) Delay time Sub screen Label (Display item), Peak value Set value (Threshold value) Bottom value

SMC



((RoHS)

For details, refer to the **Web Catalog** or the catalog.



Pressure Sensor for General Fluids PSE57 series



±14.5 psi [±100 kPa]

73psi [500 kPa]

PSE575/576/577 Materials of parts in contact with fluid (290/725/1450 psi [2 /5/10 MPa]) Pressure sensor Al2O3 (Alumina 96%) Port size R1/4 (with M5 female thread) Square ring FKM Fitting C3604 + Nickel plating

Series Variations

Hydraulic , nanifold

Model		Rated pressure range					
	–14.5 psi [–100 kPa]	0	14.5 psi 73 psi [100 kPa] [500 kPa]	145 psi 290psi [1 MPa] [2 MPa]	725 psi 1450 psi [5 MPa] [10 MPa]		
PSE575				290	0 psi [2 MPa]	725 psi [5.0 MPa]	
PSE576				(725 psi [5 MPa] [_]	1813 psi [12.5 MPa]	
PSE577					1450psi [10 MPa]	4351 psi [30 MPa]	

Steel tube piping

Hydraulic cylinder

360 mm

Reduced Work-hours & Required Installation Space for Piping ISE75 (with bracket)

[3.0 MPa] 87 psi

[600 kPa] 218 psi

[1.5 MPa]

<Integrated type>



Liquid coolant pressure control Discharge pressure control for compressors



PSE573

PSE574

Suction verification of workpieces containing moisture





When vacuum is released, take precautions to avoid water hammer. (An adapter with restrictor (ZS-31-X175) is available to prevent water hammer.) (Refer to "NOTE" in the Operation Manual on the SMC website for details.)

Variations For details, refer to the Web Catalog. **For General Fluids**

PSE56 Series

- Wetted parts: Stainless steel 316L
- IP65
- Oil-free
- (Single diaphragm construction)

PET bottle molding machines



Liquid pressure control of gun drills



Applicable Pressure Sensors







PSE56





3-Screen Display Sensor Monitor PSE300AC series



Easy Screen Switching

It is possible to change the settings while checking the measured value.

Main screen	
Measured value (Current pressure value)	
Sub screen/Left side	
Label (Display item)	
Sub screen/Right side	P_ 1 8588
Set value (Threshold value)	

NPN/PNP Switch Function

The number of stock items can be reduced.



The sub screen can be switched by pressing the up/down buttons.



* One arbitrary display mode can be added via function settings.

Input Range Selection (for Pressure/Flow rate) -

The sensor input range can be set to the required value and displayed. (Voltage input: 1 to 5 V/Current input: 4 to 20 mA)

Pressure switch/Flow switch can be displayed.



Simple 3-Step Setting

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



Angle Seat Valve / Air Operated Type VXB Series

With indicator

Low pressure loss due to angle seat structure!



CAT NAS70-54





For details, refer to the **Web Catalog** or the catalog.

Aluminum **High Vacuum Angle Valve**



For details, refer to the Web Catalog or the catalog.



XL Series

A model with a solenoid valve has been added. A heat-resistant 2-color indicator solid state auto switch has been added to the high-temperature type.



Aluminum bodied

- Uniform baking temperature · Lightweight, Compact
- · Minimal contamination from heavy metals Minimal outgassing
- · High corrosion resistance to fluorine gas

Bellows are replaceable

(Bellows seal type)





Normal Close High Vacuum Solenoid Valve

XSA Series

Female thread type (Rc, NPT) added



For details, refer to the **Web Catalog** or the catalog.

*1 Excluding grommet/AC



Guide to Using the SMC Web Catalog

	Easy-to-Use Web Catalog	New product information updated regularly!
Fings and Tubing Provide Findson and		
Sufficiency of the catalog you're Toking for with ease! WEB Catalog Web Catalog	Sufficient Search methods are avenue of the search methods are avenue of the search se	Site Map Japanese Corporate Site About SMC Support/Contact Us t Series Search Terp Contact Search Code Search Tuators/Cylinders

SMC



CAD Data Information

Quick access to necessary data ! – **5** search methods





Reduces design labor !-4 convenient functions

Check the shape before downloading





The displayed command functions may differ according to the browser that you use.

2 Change the rod position of an actuator



The position of the rod can be set to any stroke distance before outputting the data. Correction of the data in the CAD software is not required.

3 Select thread on/off



Setting the threads to off prevents interference errors between male threads and female threads when mounting fittings, etc., to the piping ports.

4 Display related parts and brackets



The time required to select mounting brackets, included attachments, etc., can be reduced. With this function, overlooking or forgetting to download the data of related parts is less likely to occur.

Even when the parts are selected, the related product series will be displayed in a list.



SVC

Various Formats Available

2D/3D CAD Data Available Format List

37 types of 3D CAD data

	30
• STEP AP203	 Creo Parametric 1.0
• STEP AP214a	 Creo Parametric 2.0
 Parasolid Binary V15 	• DWG AUTOCAD VERSION 2004 - 2006
 Parasolid Text V15 	 DXF AUTOCAD VERSION 2004 - 2006
• IGES	INVENTOR 2012
• SAT 7.0	 INVENTOR 2013
SolidWorks >= 2001+	INVENTOR 2014
INVENTOR 2011	●JT
Pro/ENGINEER Wildfire 4.0	•NX 7.5
• Catia >= V5 R8	• NX 8
 Solid Edge ST2 	• NX 8.5
• NX 7	• PDF 3D 7.01
•One Space Modeling >= 2007	Pro/ENGINEER Wildfire 5.0
 Mechanical Desktop >= V5 	 Solid Edge ST3
• AutoCAD >= V14	 Solid Edge ST4
•Autodesk Revit >= 2012	 Solid Edge ST5
 CoCreate Modeling >= 2007 	• STL
Creo Elements/Direct Modeling >= 17.0	• Think3 >= 2006.2
 Creo Elements/Pro 5.0 	

7 types of 2D CAD data

2D

BMP (2D View)

• DWG AUTOCAD VERSION 2004 - 2006

- DXF AUTOCAD VERSION 2004 2006
- DXF AUTOCAD VERSION 2004 2006
- (6 sided view first angle projection)
- DXF AUTOCAD VERSION 2004 2006 (6 sided view third angle projection)
 JPEG (2D View)
- ●MI >= V8

* The indicated company names, product names, system names, format names, etc., are trademarks or registered trademarks of each company.

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