



A broad **standard lineup** ranging from air filters to actuators that can be used safely and securely in food manufacturing processes

FP1 Series

Eliminates concerns over lubricant contamination!

Lubricant

FP2 Series

Uses safe materials!

Lubricant Materials Environment

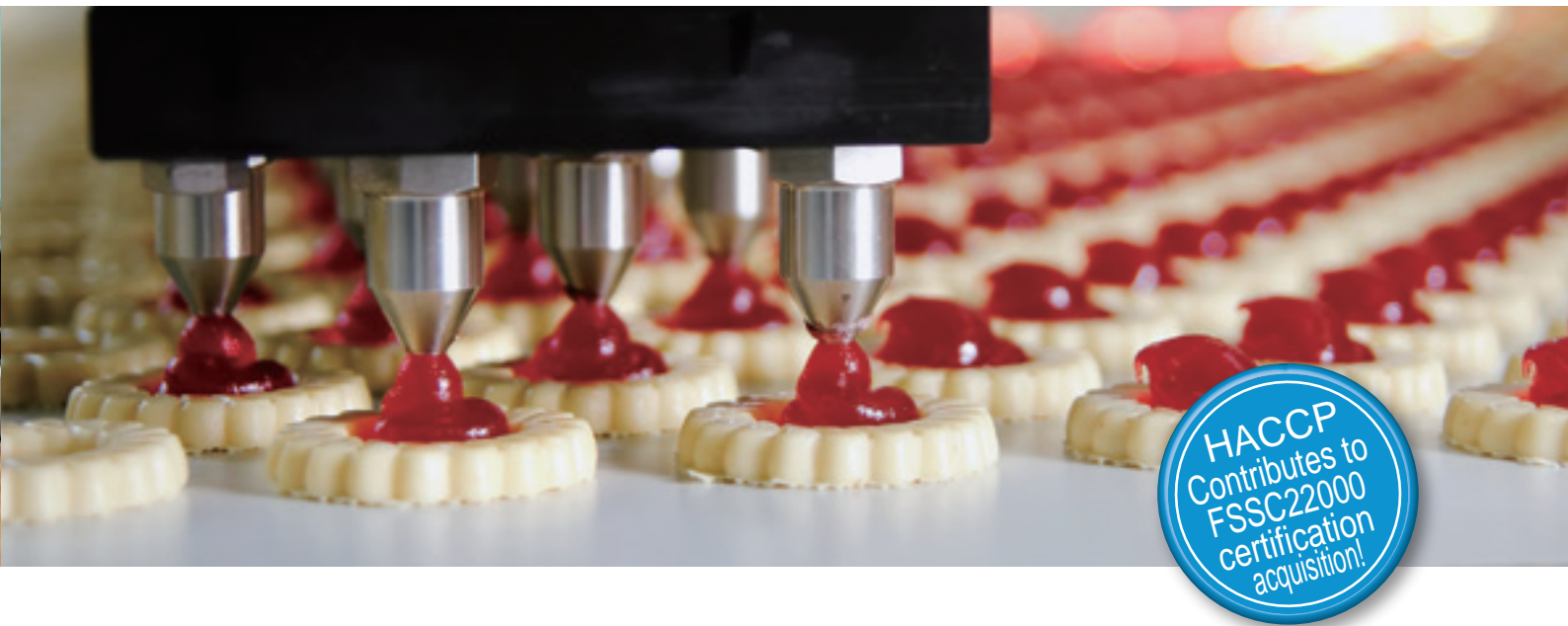
FP3 Series

Pursuing further safety and security!

Lubricant Materials Structure Environment Shape



This logo represents our commitment to support food manufacturing processes with safe CKD products.

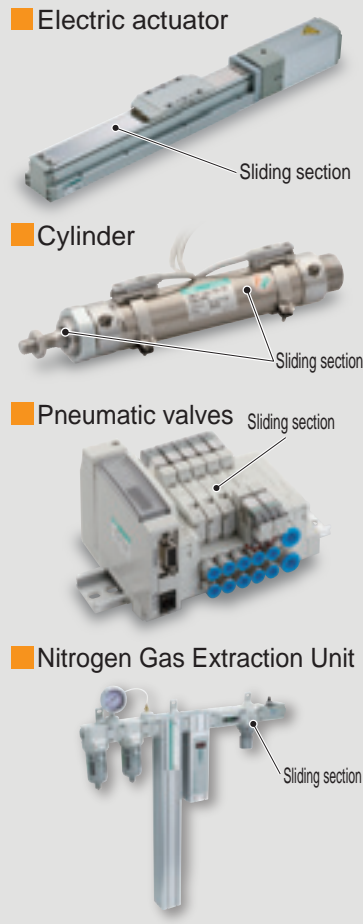


Total support for food manufacturing with **total engineering** capacity in packaging machines as well as pneumatic, fluid control, and electric-driven products

FP1 Series

Food-grade (NSF H1) lubricants are used for flow paths and sliding parts.

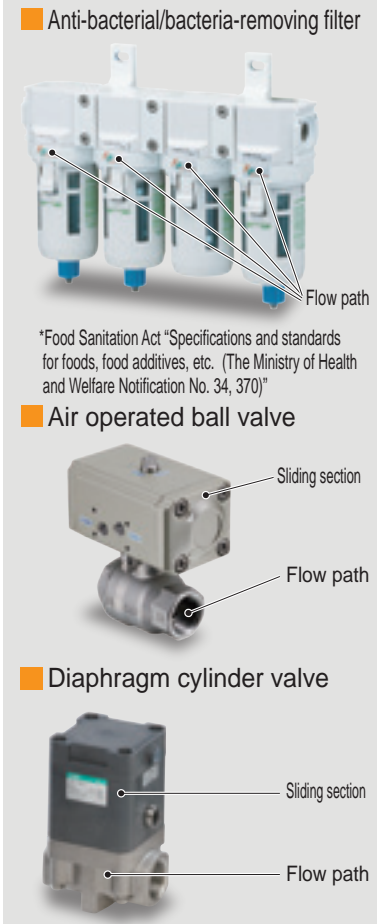
* Materials and dimensions are the same as the standard products.



FP2 Series

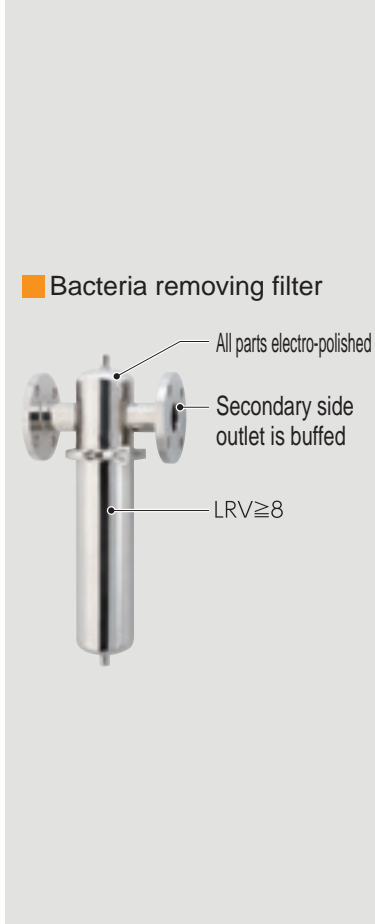
In addition to FP1, the flow path uses compliant materials (resin, rubber) compliant with the Food Sanitation Act.

* Materials (excluding the flow path) and dimensions are the same as the standard products.



FP3 Series

In addition to FP2, the component takes account lubrication, materials, shape, etc., in food manufacturing processes.



Reliable anti-bacterial and bacteria removing effects

A modularized triple block



Anti-bacterial/bacteria-removing filter
SFC
Series

FDA
Conforming materials
Fluid passage section
Resin/rubber

Antibacterial Activity Value
4
or more

Bacteria trapping performance
LRV8
or more

Material compatible
with the Food Sanitation Act
Fluid passage section
Resin/rubber

For food products
NSF H1
grease used

Exterior parts use
anti-bacterial
materials

Odor removal filter added
Uses fiber activated carbon. With a large activated carbon adsorption area, it realizes high suction performance and long life.

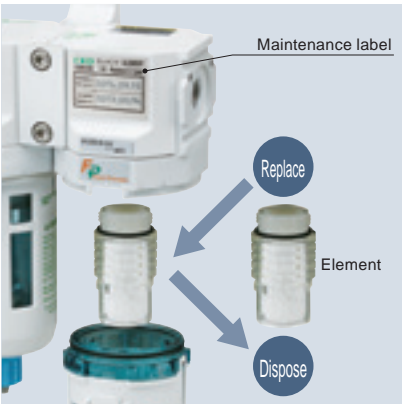


Push ring employed in SUS
Risk of contamination is reduced, and it can be installed safely near the point of use.



Maintenance

Elements are replaceable
Elements are easy to replace.
Maintenance label equipped as standard* Included with product.
Replacement period will be visible.



Anti-bacterial

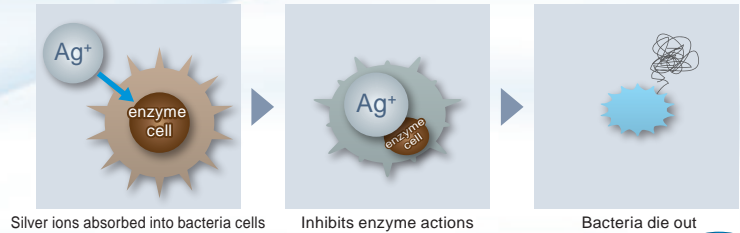
Proprietary anti-bacterial filter

Stops **Bacteria** growth!

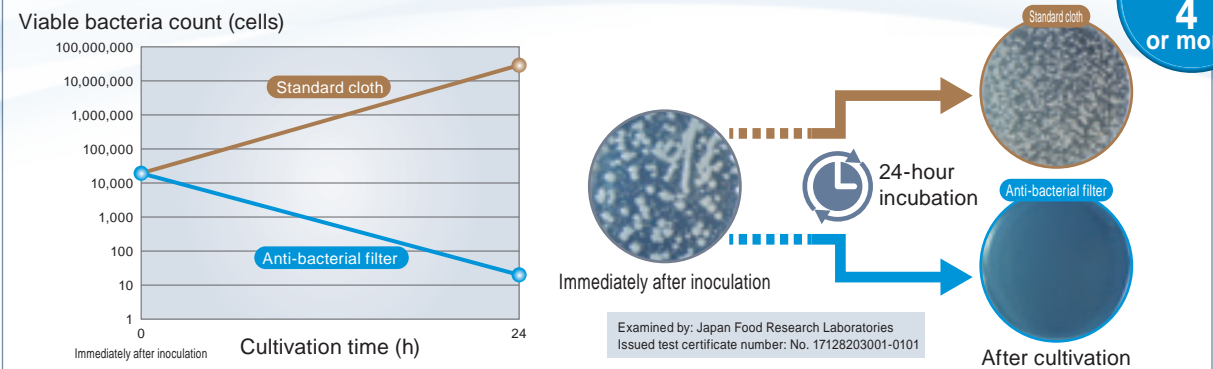
Non-woven fabric filter element that uses silver-based anti-bacterial agent

A silver-based anti-bacterial agent is used in the non-woven fabric element

The silver ion present in the antibacterial filter adsorbs into the cells of bacteria, the bacteria's enzyme actions are obstructed, and they die out.



Anti-bacterial performance



JIS L 1902: Verification data from test done based on 2015

Bacteria-removing

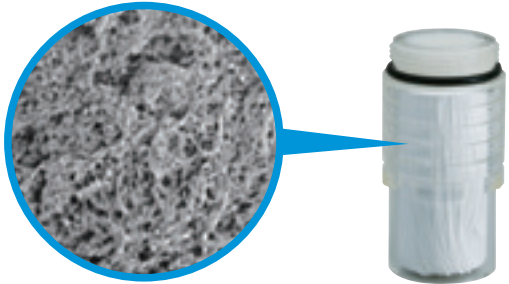
Proprietary bacteria removing filter

Bacteria Removed!

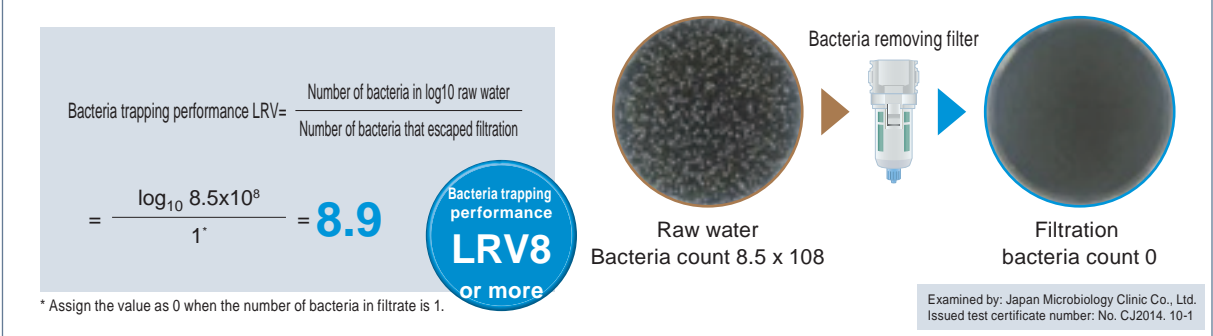
Removal rate 99.999999% **hollow fiber membrane**

Hollow fiber membrane

The straw-like fiber wall of the bacteria removing filter has numerous, special slit-like ultrafine pores. When compressed air passes through these holes, they capture bacteria.



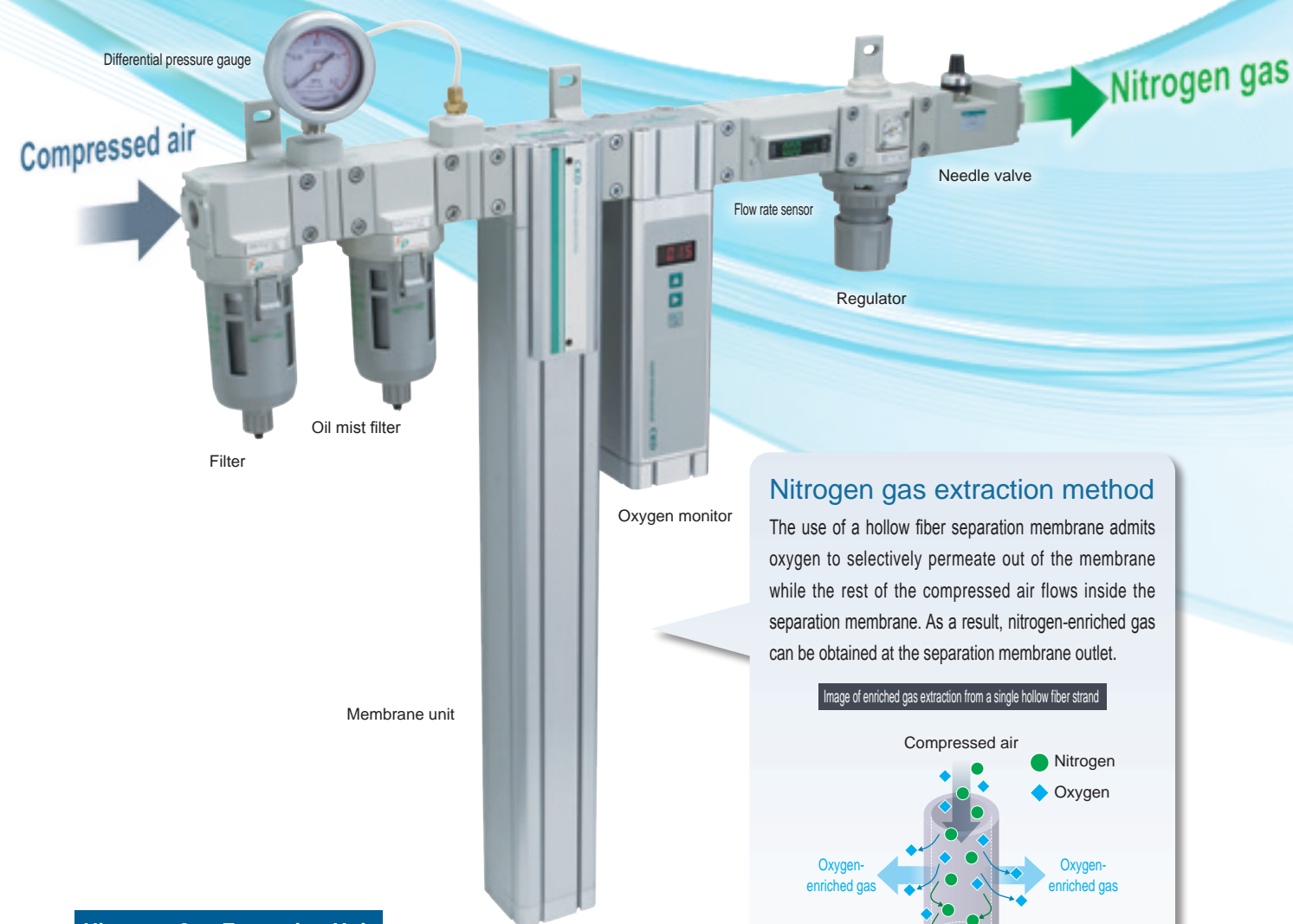
Bacteria removing performance



Verification data from test done based on JIS K 3835

* Antibacterial Activity Value and bacteria trapping performance are actual values from CKD's prescribed conditions.

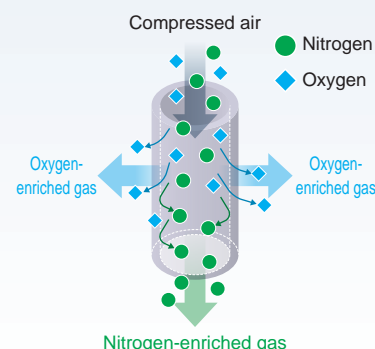
Nitrogen gas can be extracted easily from compressed air.



Nitrogen gas extraction method

The use of a hollow fiber separation membrane admits oxygen to selectively permeate out of the membrane while the rest of the compressed air flows inside the separation membrane. As a result, nitrogen-enriched gas can be obtained at the separation membrane outlet.

Image of enriched gas extraction from a single hollow fiber strand



Nitrogen Gas Extraction Unit

NS Series

Compatible with FP Series for secure food manufacturing processes

Safe and secure for food manufacturing processes.

For food products
NSF H1
grease used

Material compatible
with the Food
Sanitation Act
Fluid passage section
Resin/rubber

FP
Food Process®

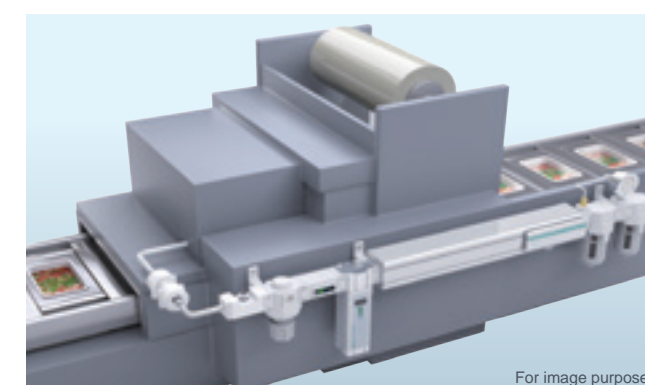
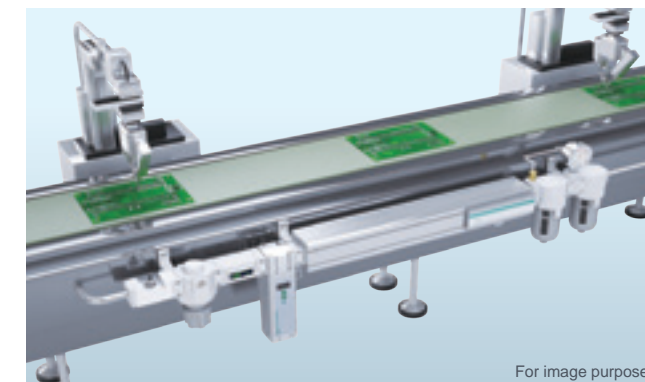
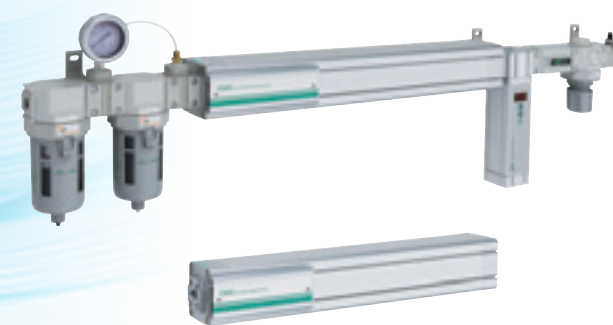
This logo represents our commitment to support food manufacturing processes with safe CKD products.

A new recommendation for nitrogen supply

Flexibility in design

New horizontal mounting available

- › Installation in dead spaces.
- › Built-in installation into equipment.



Degrees of freedom in concentrations

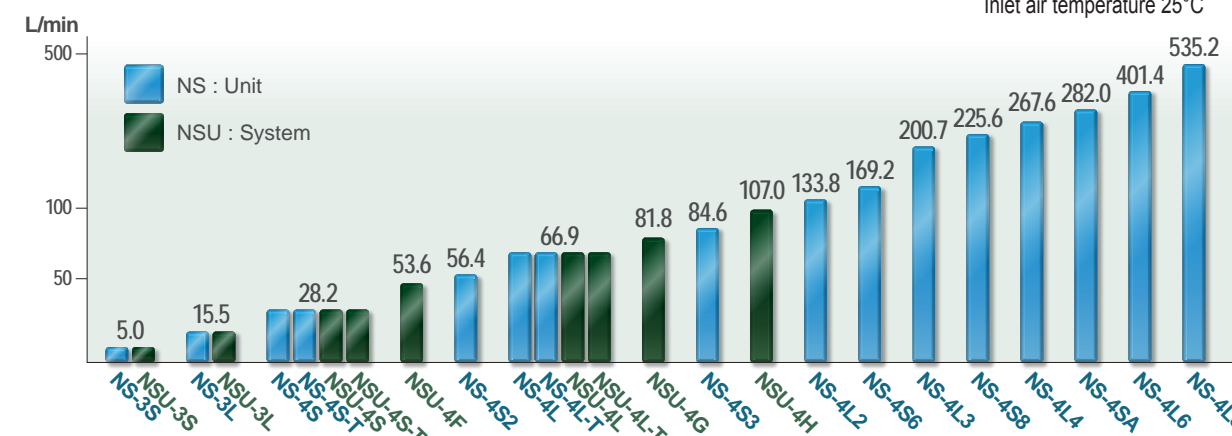
- › Nitrogen is now available from 90% concentration.
- › Nitrogen supply to low nitrogen concentration environments for explosion-proofing, etc.



Degrees of freedom in selection

- › Select the ideal model from the 17-flow rate and 25-lineup.

* 99% Nitrogen concentration
Inlet air pressure 0.7 MPa
Inlet air temperature 25°C

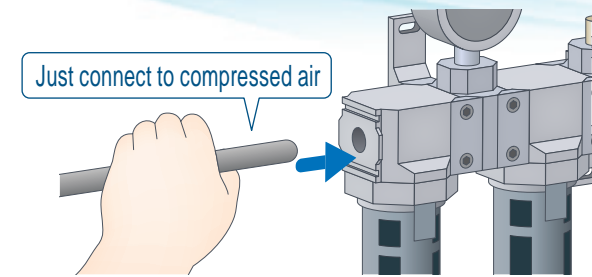
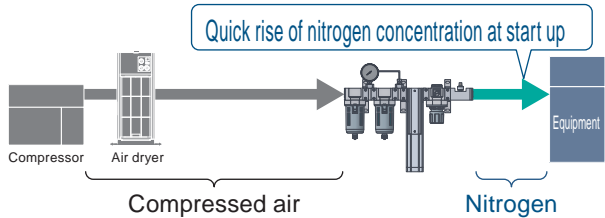


Install anywhere

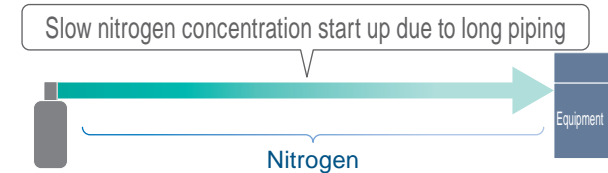
Reduces processes, piping, and space

- › Nitrogen-enriched gas can be obtained simply by supplying compressed air.
- › Design and piping are done easily by providing system Components.
- › Its small size and light weight allows it to be installed near the device. No need for long piping work dedicated to nitrogen.

With NS Series

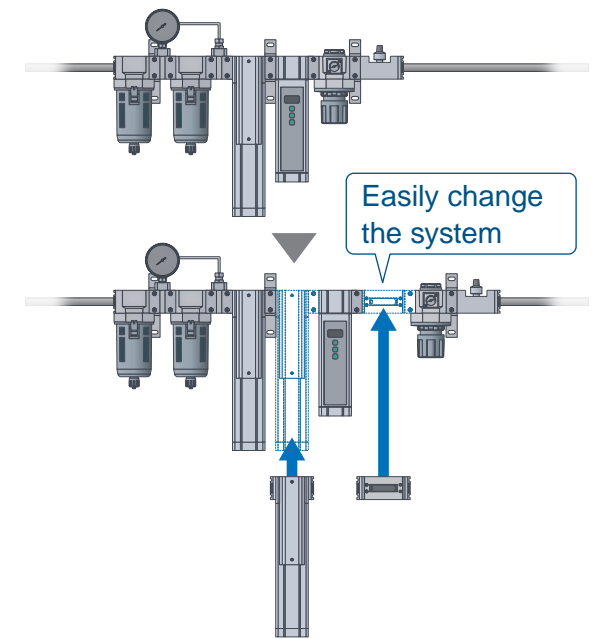


Conventional methods



Freely select

- › The ideal system can be selected according to the required flow rate and concentration.
- › Modular connection enables easy system changes such as expansion of stations after installation.



No power supply needed

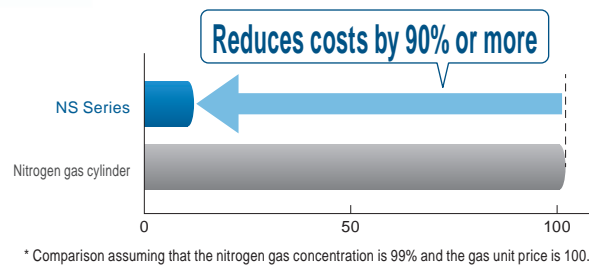
- › Usable even for explosion-proof atmospheres, different voltage regions, etc.
 - › No malfunctions due to electrical noise.
 - › Quiet, with no heat generation as there is no drive system.
- *Power supply will be required when oxygen monitor and flow rate sensor (option) are selected.

Low cost and reduced processes

Running cost reduction

- › Running cost is only the cost of electricity for the air compressor.
 - › Tank replenishments and other ongoing costs are not incurred.
- *Power supply will be required when oxygen monitor and flow rate sensor (option) are selected.

Nitrogen gas cylinder and gas unit price comparison



Reduced administrative processes

- › Nitrogen volume control is no longer required.
- › Oxygen monitor and flow rate sensor can be installed inline, enabling continuous control.

Control of oxygen concentration (nitrogen conc.)



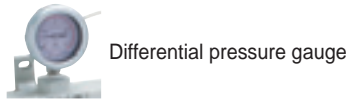
Oxygen monitor

Nitrogen flow rate management



Flow rate sensor

Management of supplied compressed air quality

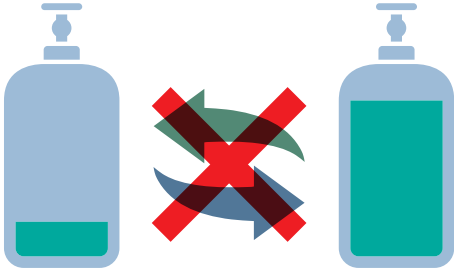


Differential pressure gauge

*Modular connection enables easy Component connection. Please ask our Sales Representative for details.

Replacement not required

- › Troublesome tank management of remaining gases or replacement work is not required.



Easy maintenance

Sustainable reliability

- › Since there are no movable parts, stable performance can be maintained.
- › Parts replacement is possible without disassembling the piping.

Not subject to High Pressure Gas Safety Act


- › There is no need for notifications or assignment of qualified personnel.




NS Series configuration

System		
1-station		2-station
NSU		
Horizontal mounting	Vertical mounting	

Unit		
Single cylinder		Double acting
NS		
Horizontal mounting	Vertical mounting	

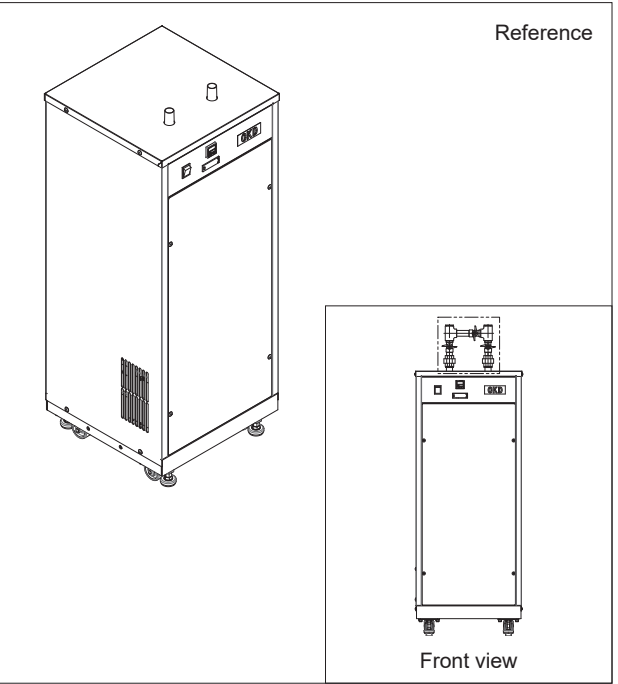
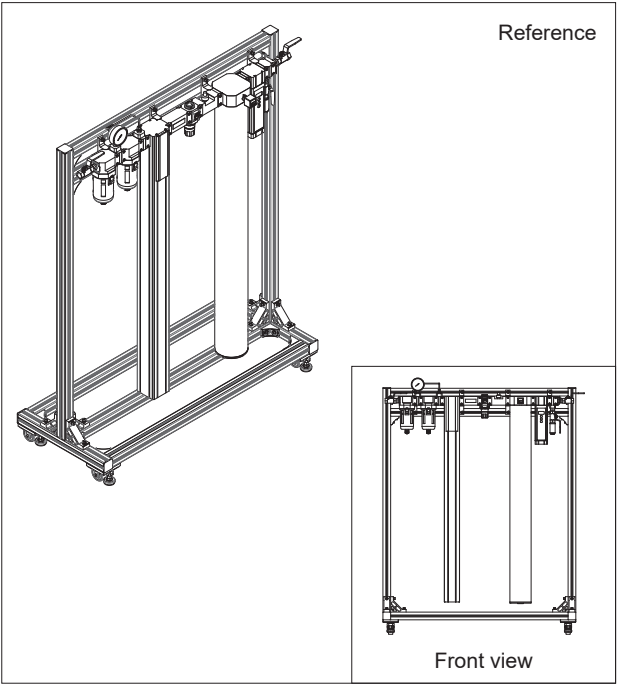
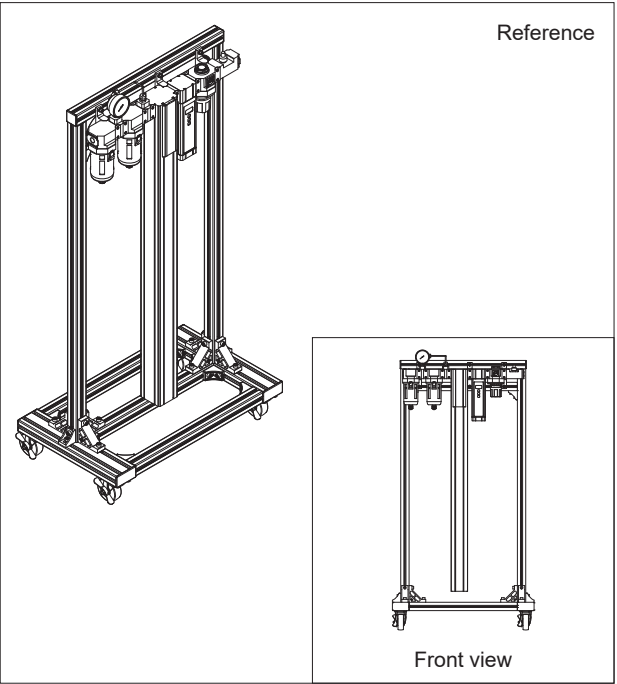
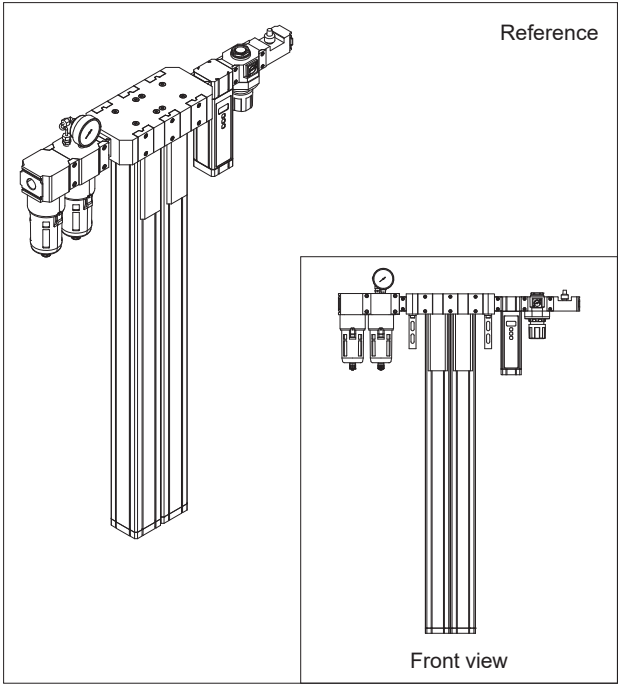
Model No.	Quantity	Appearance	Flow rate(L/min(ANR)) and nitrogen conc.(%)												Listed Page							
			Flow rate(L/min(ANR)) and nitrogen concentration(%)																			
			<div><div>1020406080120160200260320</div></div>																			
NSU-3S	1		99.9	99.5	99	98	97	96	95	94	93	92	91	90								
NSU-3L	1		99.9	99.5		99		98		97	96	95	94	93	92	91	90					
NSU-4S	1		99.9			99.5			99		98		97	96	95	94	93	92	91	90		
NSU-4L	1		99.9						99.5			99		98		97	96	95	94	93	92	91

Model No.	Quantity	Appearance	Flow rate(L/min(ANR)) and nitrogen conc.(%)														Listed Page																																													
			50					100					150					300					450					600																																		
NSU-4F	2		99.9					99.5					99					98					97					96					95					94					93					92					91					90				
NSU-4G	2		99.9					99.5					99					98					97					96					95					94					93					92					91					90				
NSU-4H	2		99.9					99.5					99					98					97					96					95					94					93					92					91					90				

* The above shows the outlet nitrogen gas flow rate when the inlet air pressure is 0.7 MPa and the inlet air temperature is 25 °C.

System example

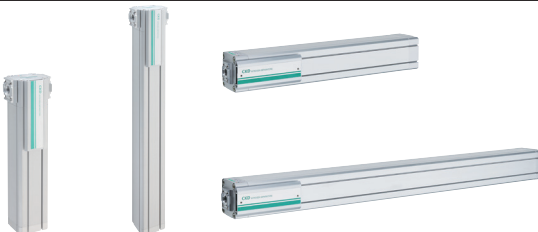
- Compatible with the NS double cylinder system ● Installation stand ● Intermittent operation tank combined system ● Housing installation system




*Contact CKD for details.

Single cylinder

Supplement:
The indication of the nitrogen concentration of nitrogen gas obtained from the nitrogen gas purification unit accurately represents the total concentration of components other than oxygen (O₂). In addition to nitrogen and oxygen, the raw air contains argon, carbon dioxide and water vapor. Therefore, the product's nitrogen gas contains approximately 1% argon, which has as much difficulty permeating the membrane as nitrogen, whereas the easy permeating carbon dioxide lowers to a concentration of 10 to 50ppm, and water vapor reduces to -40°C at atmospheric dew point conversion.

Model No.	Appearance	Flow rate(L/min(ANR)) and nitrogen concentration(%)												Flow rate(L/min(ANR)) and nitrogen concentration(%)												Listed Page																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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Double cylinder

Model No.	Quantity	Appearance	Flow rate(L/min(ANR)) and nitrogen concentration(%)														Listed Page
			Flow rate(L/min(ANR)) and nitrogen concentration(%)														
			50	100	150	300			450	600	750	900	1050	1300	2000	2700	
NS-4S2	2		99.9	99.5	99	98	97	96	95	94	93	92	91	90			
NS-4S3	3		99.9	99.5	99	98	97	96	95	94	93	92	91	90			
NS-4L2	2		99.9	99.5	99	98	97	96	95	94	93	92	91	90			
NS-4L3	3		99.9	99.5	99	98	97	96	95	94	93	92	91	90			
NS-4L4	4		99.9	99.5	99	98	97	96	95	94	93	92	91	90			
NS-4S6	6		99.9	99.5	99	98	97	96	95	94	93	92	91	90			
NS-4S8	8		99.9	99.5	99	98	97	96	95	94	93	92	91	90			
NS-4SA	10		99.9	99.5	99	98	97	96	95	94	93	92	91	90			
NS-4L6	6		99.9	99.5	99	98	97	96	95	94	93	92	91	90			
NS-4L8	8		99.9	99.5	99	98	97	96	95	94	93	92	91	90			

* The above shows the outlet nitrogen gas flow rate when the inlet air pressure is 0.7 MPa and the inlet air temperature is 25 °C.

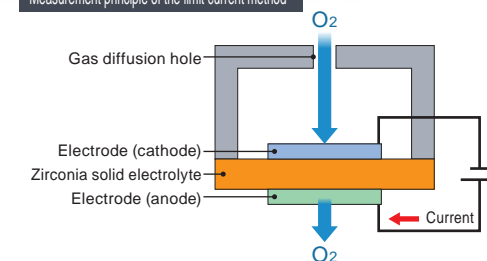
Oxygen concentration under pressurization can be known.



Limit current method

The PNA Series uses the limit current method. When voltage is applied to the zirconia element, an ion current flows with oxygen ions as carriers. When the oxygen concentration changes, the current characteristics change proportionally, enabling detection of the oxygen concentration. Durability and a long service life can be expected from this method.

Measurement principle of the limit current method

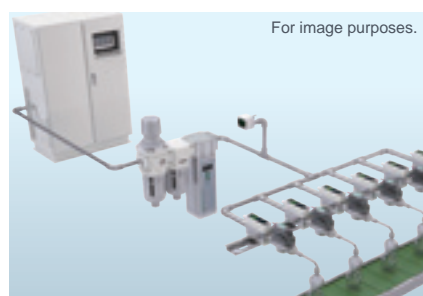


Inline oxygen monitor

PNA Series

Examples of applications

Terminal concentration check



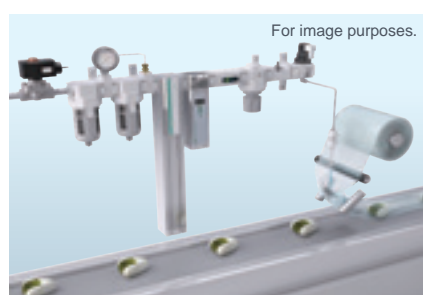
- Concentration check at start of operations
- Normal concentration check
- Understanding maintenance timing

Gas concentration check in explosion-proof areas



- Concentration check at start of operations
- Normal concentration check
- Alarm for hazardous concentrations

Nitrogen filling concentration check



- Concentration check during nitrogen filling
- Concentration setting

Checking gas for remaining oxygen removal



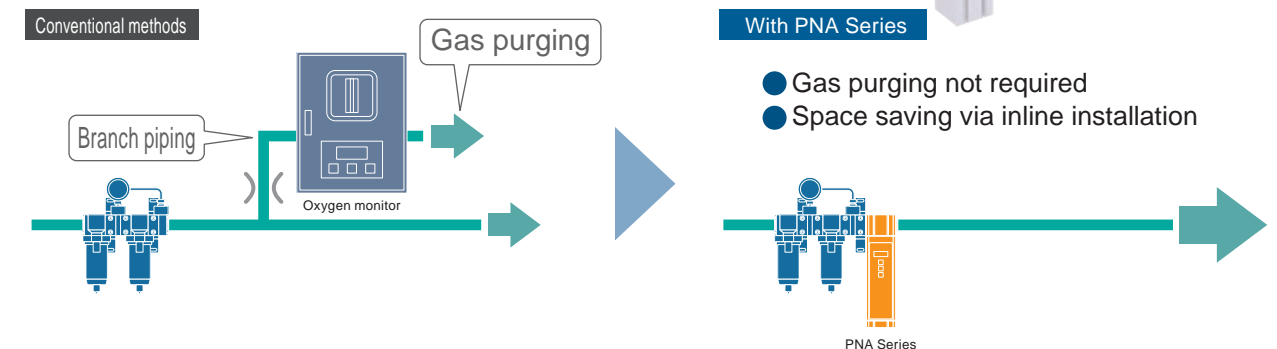
- Oxygen concentration check of removal gas
- Status monitoring

Saves energy, piping, and space

Realized pressure resistant structure for inline use.

Modular structure saves piping space

Conventional gas purging is no longer necessary



Easy to use

Oxygen/inert gas concentration display is switchable

- With 100-oxygen concentration, the inert gas concentration is clear at a glance.

Upper/lower limit switch output setting and analog output are available

- Alarms can be set for concentration changes, and status monitoring is possible.

With self-diagnostic function

- Keeps you posted about abnormalities in the detector element.

Degree of protection IP65 or equivalent

- Wet or dry, it still functions.

Pressure-resistant structure

- Usable at pressures from atmospheric pressure through 1.0 MPa.



Oxygen concentration display



Inert gas concentration display

Compatible with FP Series for secure food manufacturing processes

Safe and secure for food manufacturing processes.

Material compatible with the Food Sanitation Act
Fluid passage section
Resin/rubber



This logo represents our commitment to support food manufacturing processes with safe CKD products.

CKD after-sales service

Calibration certificates (with traceability series variation diagram) can be issued.

The sensor of the oxygen monitor may deteriorate depending on the working conditions. Therefore, regular inspection and adjustment is required to maintain stable performance. For even longer consistent performance, we recommend the yearly inspection and adjustment service (with calibration certificate).



Inspection/calibration/repair Feel free to contact us for details.

Electric actuator slider EBS-M Series
Rod with built-in guide EBR-M Series
Controller ECR Series

Compact & high rigidity actuator
+
A new controller for every actuator model and size



EBS

Easy maintenance

The product comes equipped with a lubrication port on both sides to allow direct lubrication from the exterior. Both the guide and ball screw can be maintained simply by lubricating from a single location, without disassembling the body.



FP1 series

Lubricant

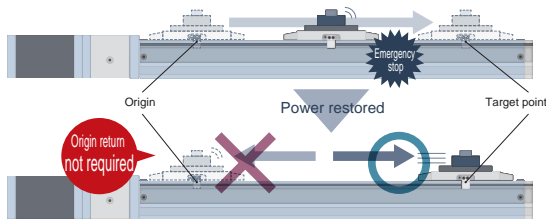
Food-grade (NSF H1) lubricants are used for flow paths and sliding parts.

* The same grease is used for rod type EBR

EBS EBR

Shorter equipment stop times

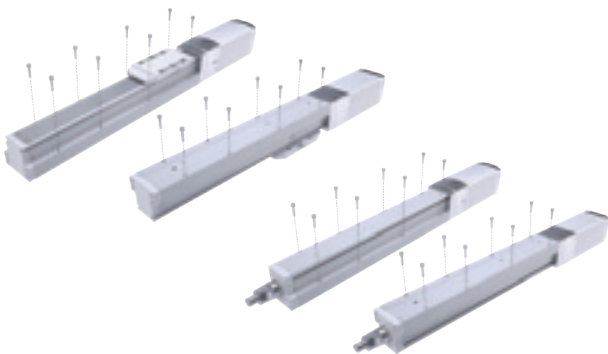
Equipped as standard with a battery-less absolute encoder
The absolute encoder retains current position information without the use of a battery. The system does not need to return to origin when the power is turned ON, and there is no need to install an origin sensor. This allows quick recovery from an emergency stop or power outage. Because it uses no battery, there is no need to replace the encoder battery.



EBS EBR

Reduced installation time

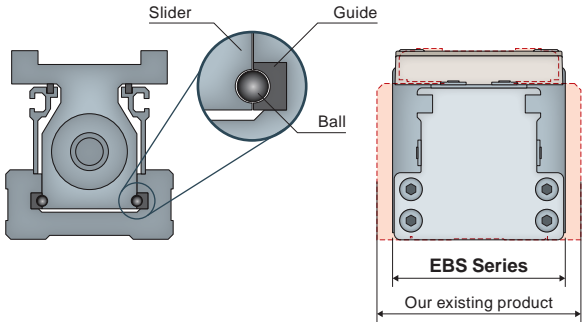
Mounting holes provided on top and bottom of product
The product structure allows direct installation from the top or bottom, without disassembly. This significantly reduces work time, especially when installing from the top.



EBS

Smaller equipment footprint

Compact body with high rigidity
An outer rail is used for the guide which supports loads. The wide guide is integrated with the body to keep the system compact yet provide high rigidity.

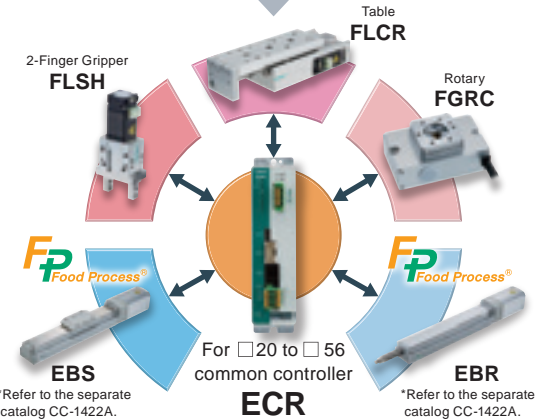
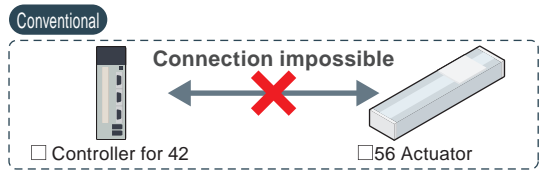


		Our existing product	EBS-05
Body width		64 mm	54 mm
Static allowable moment	MP	25.7 N·m	103 N·m
	MY	25.7 N·m	103 N·m
	MR	58 N·m	144 N·m

ECR

Reduced initial work hours and stock

"One controller" that connects to any actuator size
The same controller operates with actuators of different sizes and models. Equipped with an automatic recognition function that reads actuator information, for less work during initial setting. Further, with a common controller, work hours for selection and ordering can be reduced as well as inventory.

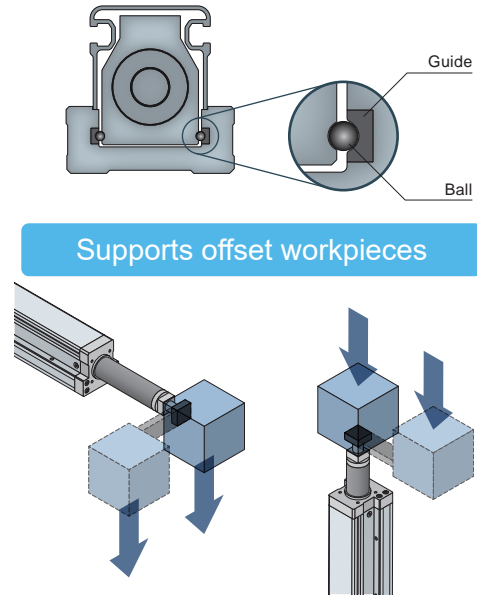


Electric Actuator EBS, EBR, ECR Series

EBR

Reduces need for additional guides

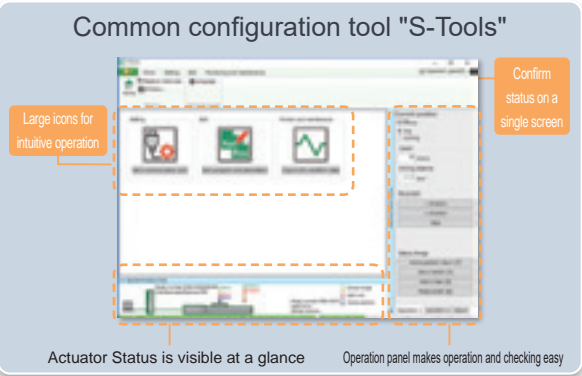
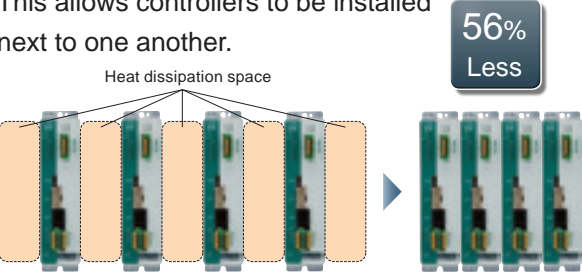
Rod with built-in guide
Contains the same guide as the slider EBS. Provides a strong structure even for offset workpieces. It also provides a long stroke even greater than that of conventional products.



ECR

Reduced controller footprint

Compact, allowing adjacent installation
The optimized design eliminates the need for heat dissipation space at the sides. This allows controllers to be installed next to one another.



Compatible Network
CC-Link
EtherCAT
IO-Link
Parallel I/O








A wide range of variations corresponding to a wide range of applications

ROBODEX Std.

Actuator Motorless specification

Motorless specification allowing you to mount and use a servo motor or stepper motor you're familiar with. (7 in total)



	Slider						Rod
	Ball screw				Belt		
	EBS	ETS	ECS	EKS	ETV	ECV	
							
Space saving	◎						◎
Variation		◎	○		○	○	
High speed		○	○	◎	◎	◎	
Fast tact				◎			
High rigidity	○			◎			○
Long stroke length					◎	◎	
Low dust specification			◎			◎	

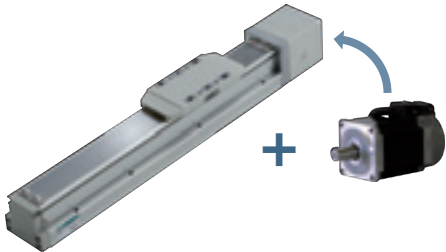
Top class motor manufacturers in the industry

List of motorless motor manufacturers

Supported servo motors Manufacturer list	EBS-L EBR-L	ETS/ECS/ ETV/ECV	EKS-L
Mitsubishi Electric Corporation	●	●	●
Delta Electronics Co., Ltd.	●	●	●
Sanyo Denki Co., Ltd.	●	●	●
YASKAWA Electric Corporation	●	●	●
Keyence Corporation	●	●	●
Panasonic Corporation	●	●	●
OMRON Corporation	●	●	●
Fuji Electric Co., Ltd.	●	●	●
FANUC CORPORATION	●	●	●
Bosch Rexroth AG	●	●	●
Rockwell Automation, Inc.	●	●	●
SIEMENS AG	●	●	●

Compatible stepping motor Manufacturer list	EBS-L EBR-L	ETS ECS
Oriental Motor Co., Ltd.	●	●
MinebeaMitsumi Incorporated	●	●
Dyadic Systems Co.,Ltd.	●	●

* For compatible models and capacity, refer to the Electric Actuator Motorless General Catalog (CB-055A).



Slider
EBS-LSeries

Servo motor
Stepper motor



- Utilizes outer rail guide
- 3 sizes
- NEW Servo motor 50 to 200W compatible
- NEW Supports stepping motors 42 to 60
- Max. load capacity: 50kg (horizontal)
- Max. stroke length: 1100mm

Rod
EBR-LSeries

Servo motor
Stepper motor



- Utilizes outer rail guide
- 3 sizes
- NEW Servo motor 50 to 200W compatible
- NEW Supports stepping motors 42 to 60
- Max. load capacity: 50kg (horizontal)
- Max. stroke length: 700mm

Slider
ETVSeries

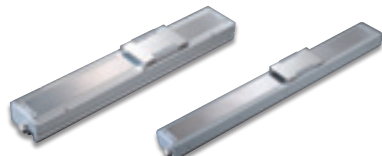
Servo motor
Stepper motor



- 8 sizes
- Servo motor 50 to 750W compatible
- NEW Supports stepping motors 42 to 60
- Max. load capacity: 150kg (horizontal)
- Max. stroke length: 1500mm

Slider (low dust generation)
ECSeries

Servo motor
Stepper motor



- Full cover low dust specification
- 7 sizes
- Servo motor 100 to 750W compatible
- NEW Supports stepping motors 42 to 60
- Max. load capacity: 150kg (horizontal)
- Max. stroke length: 1500mm

Slider
EKS-LSeries

Servo motor



- Utilizes iron based outer rail guide
- 5 sizes
- Servo motor 50 to 750W compatible
- Max.workload: 118.5kg (horizontal)
- Max. stroke length: 1500mm

* Max. load capacity at acceleration of 0.5 G.

Slider
ETVSeries

Servo motor



- 6 sizes
- Servo motor 100 to 750W compatible
- Max. load capacity: 85kg (horizontal)
- Max. stroke length: 3500mm

Slider (low dust generation)
ECVSeries

Servo motor



- Full cover low dust specification
- 6 sizes
- Servo motor 100 to 750W compatible
- Max. load capacity: 85kg (horizontal)
- Max. stroke length: 3500mm

Human Assist

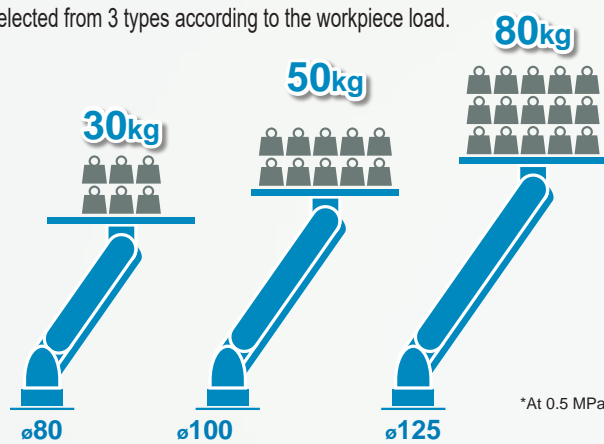
Transform workstyles with assistive devices.

Power Arm PAW Series

Variation

Arm variations tailored to the workpiece

The arm can be selected from 3 types according to the workpiece load.

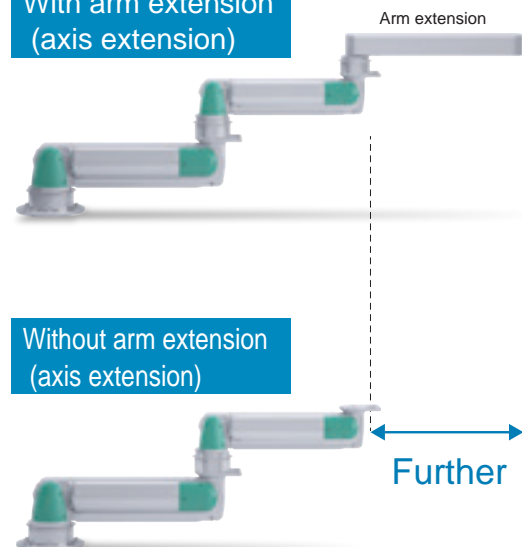


Wide

Achieving a wider range of movement

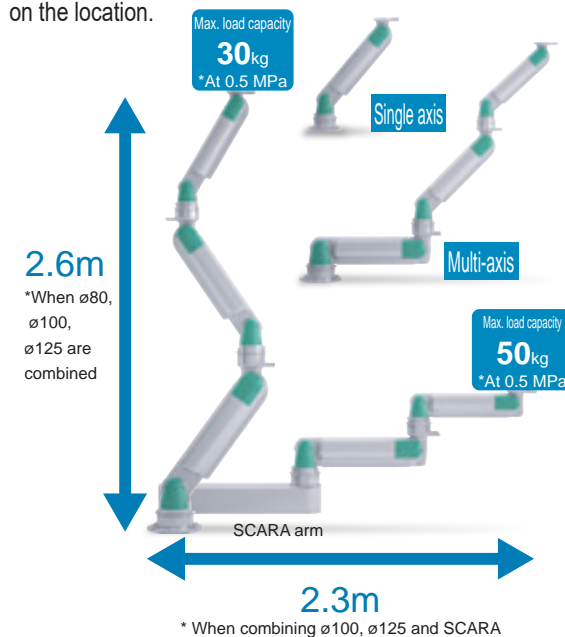
Arm extensions (axis extensions) can be used for multi-axis specification types to enable an even wider range of motion.

With arm extension
(axis extension)



Wide movable range according to usage

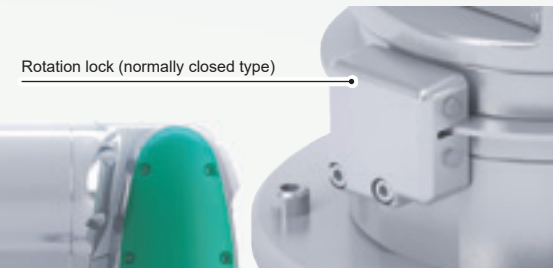
Customers use these products for single-axis or multi-axis specifications. Flexible combinations are possible depending on the location.



Safety

Holds position when motor power (air, electric power) is down
In addition to a position-locking function (standard equipment) via block valve, a rotation lock can be mounted on the normally closed type (option). Position holding is possible during emergency stops.

Rotation lock (normally closed type)



Snag prevention

Fingers, etc., do not fit into the joint gaps.

In addition, the space remaining when the joints are closed keeps fingers from being snagged.



* European safety standard CE marking applies only to the PowerArm body.

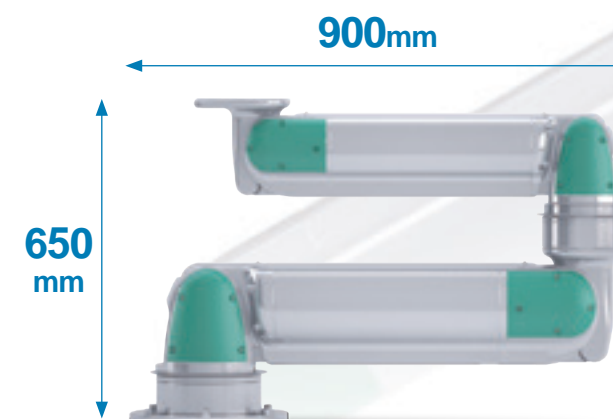
Simple

Simple assistive mechanism based on pneumatic pressure control
Uses a pneumatic pressure cylinder in part of the body. The simple mechanism can be easily handled.

Compact

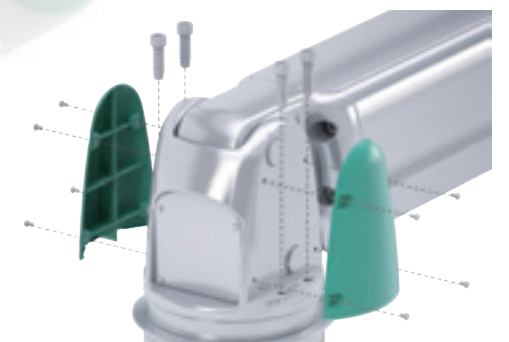
Compact

Multi-axis specification enables fold away for more compact storage than the arm or belt types.



Flexible

Customers can easily incorporate arms
With the simple structure, arm combinations can be flexibly changed by the customer.



Human Assist

Palletizing specification that saves space
and enables stacking and unloading work.

Specialized

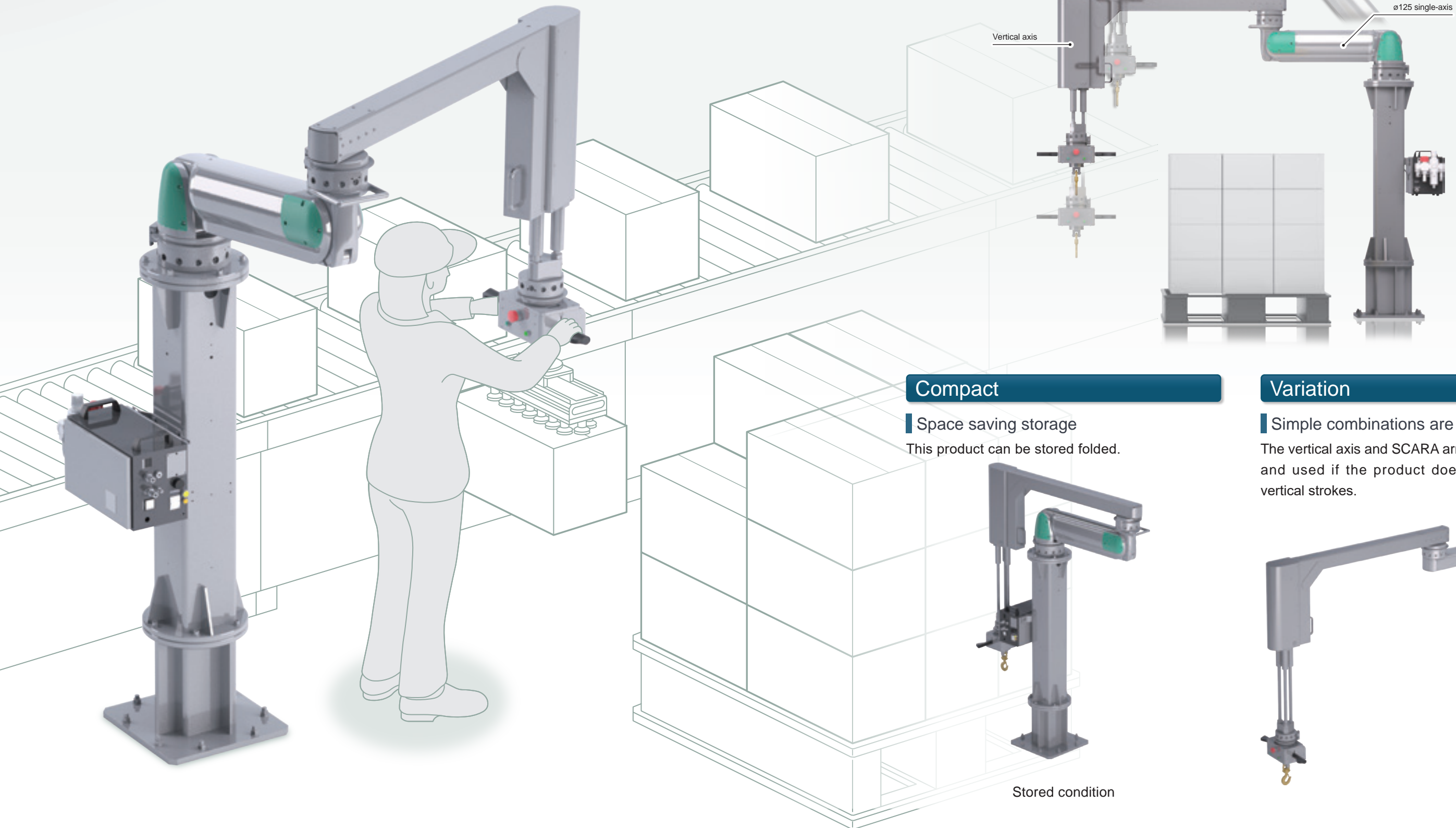
Focused on stacking and unloading tasks

A vertical axis is now equipped with this product to ensure easier use in the palletizing process while maintaining PowerArm signature features; a space-saving, compact design, and a light touch.

Wide

A wide moving range

The combination of the $\phi 125$ single-axis and vertical axis provides a wider moving range.



Compact

Space saving storage

This product can be stored folded.

Variation

Simple combinations are possible

The vertical axis and SCARA arm can be combined and used if the product does not often make vertical strokes.



INDEX

Prevents food contamination by lubricants. Food-grade (NSF H1) lubricants are used.

FP1

Electric actuator Slider EBS-M Series P1	Electric actuator Guide integrated rod EBR-M Series P3	Electric actuator Slider EBS-L Series P5	Electric actuator Guide integrated rod EBR-L Series P9
Electric actuator Slider ETS Series P13	Electric actuator Low dust generation ECS Series P17	Electric actuator Belt type ETV Series P21	Electric actuator Low dust generation belt type ECV Series P23
Electric actuator Fast tact/high rigidity EKS-L Series P25			
Pencil shaped cylinder SCPD3 Series P27	Small bore size cylinder CMK2 Series P29	Small bore size cylinder, stainless steel variation CMK2-J Series P35	Round shaped cylinder SCM Series P39
Tie rod air cylinders SCG Series P45			
Selex cylinder with T switch SCA2 Series P49	Selex cylinder SCS2 Series P55	Compact cylinder SSD2 Series P57	Guided cylinder STG-M Series P63
Rodless cylinder SRL3 Series P67			
Floating fitting FJ Series P71	Feather hand (mini-parallel hand) FH100 Series P73	Compact cross roller parallel hand BHA/BHG Series P75	Compact wide parallel hand HMF Series P79
Feather hand (mini-fulcrum hand) FH500 Series P81			
3-way finger bearing chuck CKG Series P83	Powerful chuck CKL2 Series P85	Powerful chuck with rubber cover CKLG2 Series P87	PowerArm PAW Series P91
Pilot operated 3, 5-port valve W4G*2 Series P189	Filter/regulator combination C*020/ C*030/ C*040/ C*050/ C*060/ Series P229	Filter/regulator W1*00 to W8*00 Series P239	Air filter F1000 to F8000 Series P243
Oil mist filter M(X)1000 to M(X)8000 Series P245			
Regulator R1*00 to R8*00 Series P249	Drain separator FX Series P253	Reed switch compact pressure switch P1100 to P8100 Series P255	Residual pressure exhaust valve V1000/ V3000/ V3010/ V6010/ Series P257
Digital electro pneumatic regulator EVD Series P261			

FP Food Process®

Fitting GW Series P265	Fitting (stainless steel Series) ZW Series P267	Speed controller Elbow with push-in fitting SC3W Series P273	Speed controller with adjusting dial DSC Series P275	Speed controller line type with push-in fitting SCL2 Series P277
Needle valve with adjusting dial DVL-S Series P279	Speed controller SC-M5 Series P281	Speed controller SC1 Series P282	Metering valve with silencer SMW/ SMW2 Series P283	Block valve FPV Series P285
Quick valve 2QV/3QV Series P287	Single ejectors VSH/VSC Series P289	Super dryer (High polymer membrane air dryer) SU/SD Series P291	Nitrogen Gas Extraction Unit NSU Series P295	Medium main line filter AF Series P315
Pilot kick 2-port solenoid valve APK Series P317	Air operated 2-port valve SAB Series P319	Air operated 3-port valve NAP Series P321		

Materials compatible with the Food Sanitation Act are used

FP2

Nitrogen Gas Extraction Unit NS Series P323	Oxygen monitor PNA Series P329	Anti-bacterial/bacteria-removing filter SFC/SFS Series P331	Suction pad VSP Series P351
Pilot operated 2-port solenoid valve for compressed air EXA Series P353	Compact pilot operated solenoid valve for water FWD Series P355	Compact direct acting 2, 3-port solenoid valve USB/G Series P357	Direct acting 2-port solenoid general purpose valve AB31/41 Series P363
Direct acting 3-port solenoid general purpose valve AG31/41/ 33/43/ 34/44 Series P365			
Pilot 2-port solenoid general purpose valve for dry air ADK11-Z Series P371	Diaphragm cylinder valve LAD Series P373	Diaphragm cylinder valve NAD Series P375	Diaphragm cylinder valve, manifold GNAD Series P376
Pilot 2-port solenoid general purpose valve for dry air MXB/ MXG Series P379	Pilot 2-port solenoid general purpose valve for dry air SPK Series P383	Metal-free solenoid valves MYB3 Series P385	High corrosion resistant direct acting 2-port solenoid valve HB Series P386
Check valve (nozzle) CCN Series P387			

Grease for pneumatic cylinder maintenance	P89
Standard model supports.	P401
Related products	P404