



Products for Pharmaceutical Manufacturing Processes

From packaging machines to valves, we meet the various needs of pharmaceutical processes

Contributing to the stable supply of pharmaceutical products

Providing total support with pneumatic, electric, fluid control, inspection, packaging machines, and assistance for the clean, environment-resistant, and long-life specifications required in the solid material manufacturing process. We offer highly functional products for the production of high-quality pharmaceuticals.

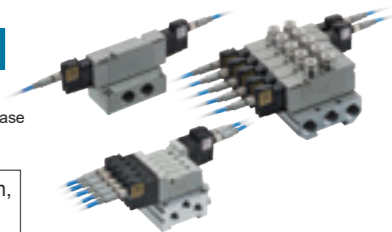


Raw material processing

Intrinsic safety explosion-proof valve

4G EJ * Japan only release

Width: 10 mm, 16 mm, 20 mm, 24 mm



Contributes to control panel space saving in explosion-proof environments. Industry's smallest width of 10mm, the industry's first dual 3-way valve compatible, reduces installation space by half compared to conventional products.

Raw material weighing

Clean regulator

RC2000

Set pressure range
Standard: 0.05 to 0.7 Mpa
Low pressure: 0.02 to 0.2 Mpa



Oil-prohibited specifications ideal for air blow control of pipes. Both sides 50 mm, 0.8 m³/min large flow rate achieved, clean air / N₂ pressure control.

Electro pneumatic regulator

EVD

Pressure control range: 0-900 kPa



Ideal for pressure adjustment in chemical liquid tanks. Operation status monitoring available, easy 8 ch preset input. From preventive maintenance to the control of tank pressures.

Granulation

Control valve

SWD-T * Japan only release

Flow rate memory: 6 patterns
Ferrule fitting: 8A, 10A, 15A, 1S, 1.5S



Ideal for automation of flow rate adjustment for water injection, cleaning, etc. Six patterns of arbitrary parameters can be registered, and flow rate proportional control with analog input signal is also supported, achieving easy flow rate control.

Mixing

Nitrogen extraction unit

NS/NSU

Nitrogen concentration: 90% to 99.9%



Nitrogen extraction from compressed air for nitrogen supply in pipes and tanks. Ideal not only for manufacturing processes but also oxidation prevention of pharmaceutical products.

Pill Forming/Coating

Sanitary Valve

SWD/MWD

Ferrule fitting:
8A, 10A, 15A, 1S, 1.5S, 2S



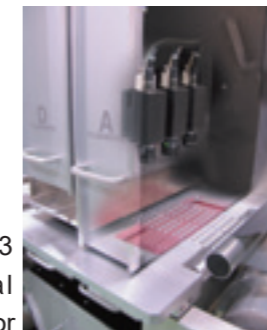
Sanitary valve with high washability (liquid displacement), compact size and good maintainability ideal for chemical liquid/water supply applications.

Inspection

Flash Patri

FP830

8 million pixels
Inspection speed: 800 sheets/min.



A high-speed inspection (1.3 times that of conventional products) of 800 sheets/min for minute foreign matter adhering to sheets. Total surface inspection of not only tablet cracks and chips but also PTP sheets are possible.

Image Processing Visual Programming Tool

Facilea™

Facilea

20 min Easy Image Processing



Ideal for simple inspection of tablets, containers, etc. Anyone can easily program without any specialized knowledge.

Packaging

Eco Blister

FBP320

Tablet packaging capacity:
3,000 tablets/min (MAX.)

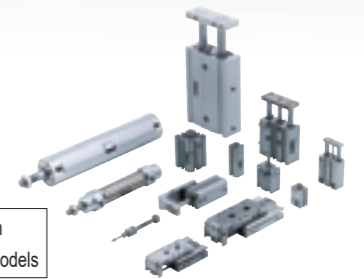


This is our flagship medium/low speed packaging model that incorporates 40 years of packaging machine development know-how. It is the definitive version of a pharmaceutical packaging machine that uses a touch panel and incorporates a compact and easy-to-use design for operators.

High Durability Components

HP Series

Long service life of more than 20 million cycles, twice as long as conventional models

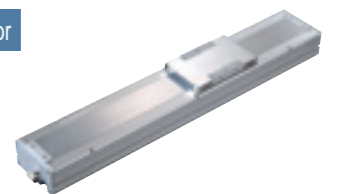


Contributes to the unstoppable design of lines required for pharmaceutical production. It does not break even with high frequency use by optimizing the sliding part, durability of 20 million times or more. By reducing waste, we also contribute to carbon neutrality.

Low dust generation electric actuator

ECS

Max. workload: 150 kg
Max. stroke: 1500 mm
Max. speed: 2000 mm/s



Low dust specification that can be used even in clean rooms. Low dust generation is achieved with a full cover structure and a suction port. Ideal for transport in clean environments.

Shipping

PowerArm

PAW

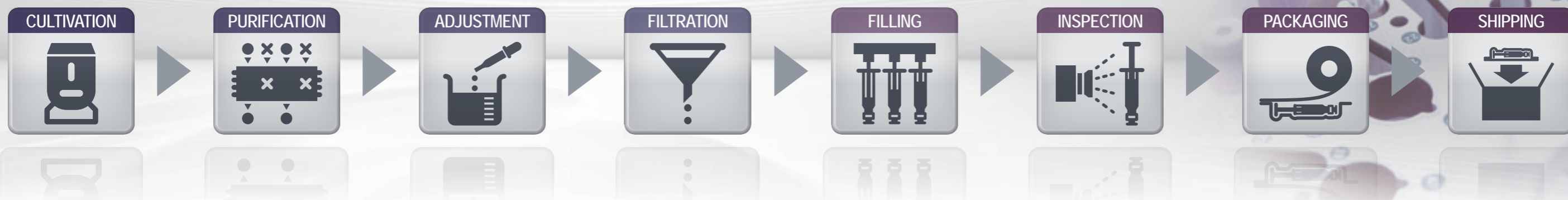
Payload: MAX.80 kg



Contributes to reducing the burden of moving packaging materials and boxes. Pneumatic pressure balancer enables assistance from the downward direction. We propose new assistance with CKD pneumatic pressure technology.

We propose biomedical product manufacturing processes with automation technology

We support the handling of chemical liquids required in biopharmaceuticals with sanitary, aseptic fluid control technology and provide total support for post-processing with pneumatic, electric, inspection and packaging machines.



CULTIVATION Cultivation

Air operated fine pinch valve

HYA



Applicable tube diameter:
ø3 to ø15, 1/8 to 9/16"

Pinch valve ideal for single use line fluid control. Compatible with a wide variety of tube sizes, the air operated type has no thermal effect on the fluid or environment.

PURIFICATION Purification

Air operated valve for chemical liquids

AMD



Orifice size: ø2 to ø20
Working pressure: 0.5 MPa

Ideal for organic solvent and chemical liquid supply for purification process. Adopts highly chemically resistant polyvinylidene fluoride (PVDF) for the actuator, and supports 3-port and manifold.

ADJUSTMENT Adujustment

Block manifolds

MN3E/MN4E



Valve width: 7/10 mm
Height: 39.5 mm

Ideal for driving sanitary and ball valves. A wide range of communication support is available, including CC-Link, which is often requested in pharmaceutical factories. Contributes to space saving with thin shape.

Sanitary Valve

SWD/MWD



Ferrule fitting:
8A, 10A, 15A, 1S, 1.5S, 2S

Sanitary valve with high washability (liquid displacement), compactness and good maintainability ideal for supplying chemical liquid/water to adjustment tank.

FILTRATION Filtration

Control valve

SWD-T * Japan only release



Flow rate memory: 6 patterns
Ferrule fitting:
8A, 10A, 15A, 1S, 1.5S

Ideal for controlling the amount of water poured into the filter and for adjusting the venting. Six patterns of arbitrary parameters can be registered, and flow rate proportional control with analog input signal is also supported, achieving easy flow rate control.

FILLING Filling

FILLING Filling

Poppet diaphragm valve

SPD * Japan only release



Ferrule fitting: 8A, 15A
5 times more durable

Achieves the high durability required for the filling process. Adopts a simple poppet diaphragm and is lighter and more compact than the SWD Series. Diaphragm replacement is also possible, contributing to reduced maintenance time.

INSPECTION Inspection

Transparent Body Inspection System

IS-UVCL01



Workpiece width: Max. 550 mm

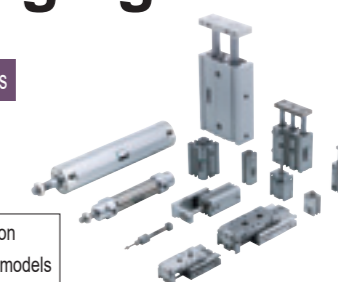
Automatic inspection for defects in transparent materials which could only be inspected by visual means, such as holes, cracks, thickness differences and liquid leakage of transparent materials workpieces. Proposals are made at CKD from condition settings to start-up.

PACKAGING Packaging

PACKAGING Packaging

High durability Component HP Series

HP



Long service life of more than 20 million cycles, twice as long as conventional models

Contributes to the unstoppable design of lines required for pharmaceutical production. It does not break even with high frequency use by optimizing the sliding part, durability of 20 million times or more. By reducing waste, we also contribute to carbon neutrality.

SHIPPING Shipping

Electric Gripper

FLSH

Stroke length: 6 to 14
Max. gripping power: 64 N



Contributes to the handling of syringes, vials, etc. Motorized, air piping not required. Soft handling enables soft gripping of workpieces.

Horizontal Articulated Robot

KHL * Japan only release

Arm length: 300 to 700 mm
Z-axis positioning precision ±0.01 mm



Supports multi-model production such as vial transport. Flexible movement according to the workpiece contributes to the automation of post-pharmaceutical processes.

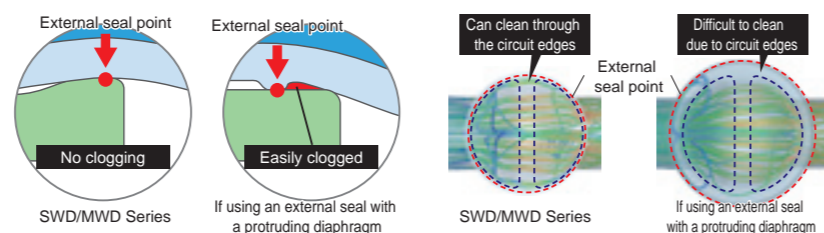
Sanitary Valve SWD, MWD

The 3 key points to achieving excellent cleanliness and ease of use



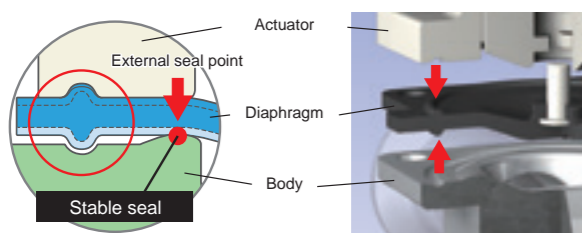
Cleanliness

- Realizing highly aseptic conditions
- High replaceability reduces cleaning time



Maintainability

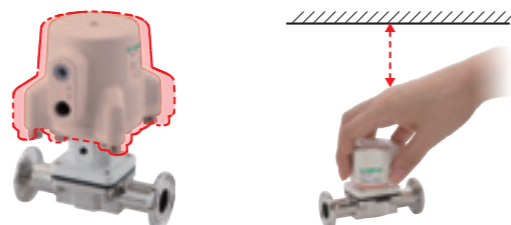
- Realizes a reduction in maintenance time



Groove matching positioning allows a stable seal

Compact

- Improved design freedom in devices (Air operated)
- Secures sufficient maintenance space (Manual)



Control valve SWD-T

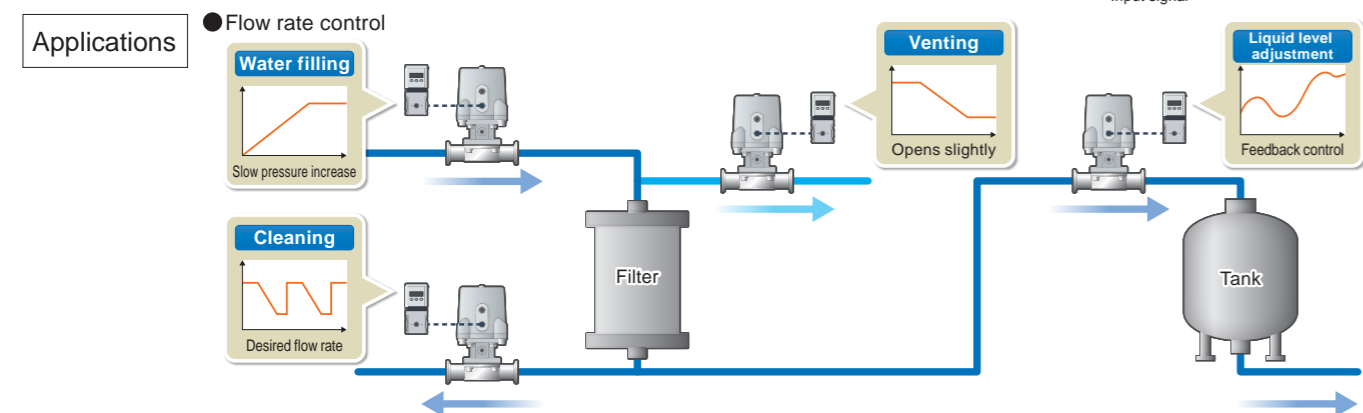
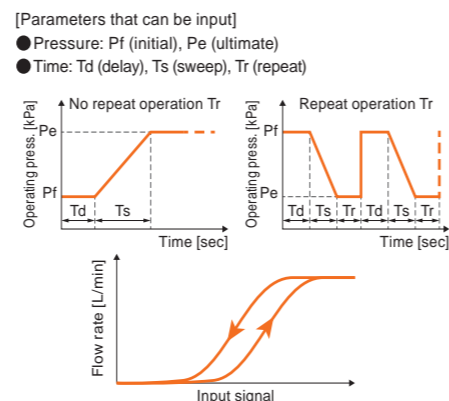
Contributes to the automation of flow rate adjustment that used to be done with a manual valve

Preset function

- Arbitrary parameters can be registered in the preset memory (up to 6 patterns)
- Can be called up with an external signal

Proportional control input signal

- Supports flow rate proportional control with analog input signal



Poppet diaphragm valve SPD

Pursuing sanitary and ease of use



* Japan only release

Lightweight and compact

- Simple poppet structure adopted

Height
35% Less

Weight
20% Less

High durability

- Applying liquid control technology for the semiconductor industry

Durability
5x

Maintainability

- Easily and quickly replace the diaphragm

Maintenance
Easily Replaced

Air operated fine pinch valve HYA

Pursuing sanitary and ease of use



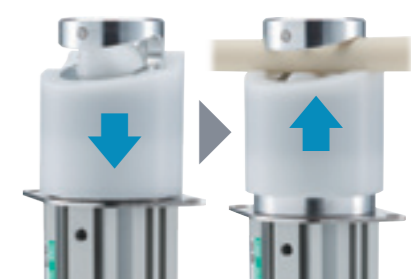
Universal tube compatibility

- Pneumatic drive realizes high seal load

Easy maintenance

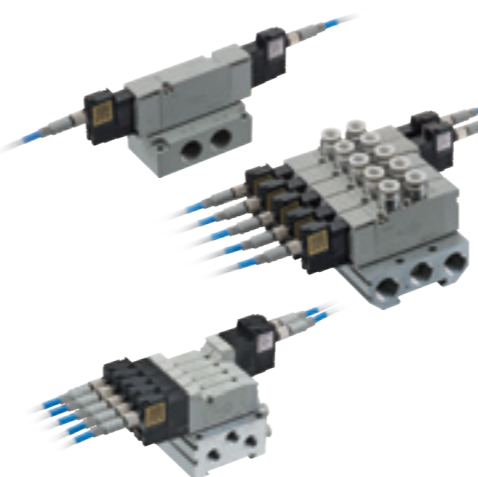
- The slit operates with a spring

Model No.	Compatible tube O.D.
HYA-*1*	1/8" to 7/32" (ø3 to ø6)
HYA-*2*	1/4" to 3/8" (ø6 to ø10)
HYA-*3*	7/16" to 9/16" (ø10 to ø15)



Intrinsic safety explosion-proof valve 4GD**0EJ, 4GE**0EJ

Intrinsically safe explosion-proof solenoid valves from valve widths of 10 mm



* Japan only release

Space saving / Lightweight

- Ideal for narrow explosion-proof areas

Footprint
84% Reduced

Ultra-lightweight
82% Reduced

High durability

- Optimized special surface treatment / sealing functions of the sliding packing

Durable
50 million cycles

Wide-ranging series lineup

Model	Cylinder operation	Compatible cylinder bore													
		20	25	30	32	40	50	63	75	80	100	125	140	160	
4G1	Low speed														
	High speed														
4G2	Low speed														
	High speed														
4G3	Low speed														
	High speed														
4G4	Low speed														
	High speed														



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