



Equipment for Food manufacturing processes  
FP Series



Giving shape to the needs of food manufacturing processes

## Equipment for Food manufacturing processes FP Series



CKD Corporation

CC-1303AA[9]

Products for Food Manufacturing Processes FP Series



Contributes  
to HACCP  
FSSC 22000  
certification

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

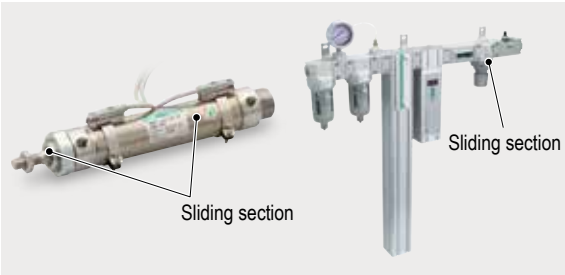
Total support for food manufacturing with **total engineering capacity** in packaging machines as well as pneumatic, fluid control, and electric-driven products

FP1 Series

Lubricant

Eliminates lubricant contamination concerns!  
Food-grade (NSF H1) lubricants are used for flow paths and sliding parts.

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



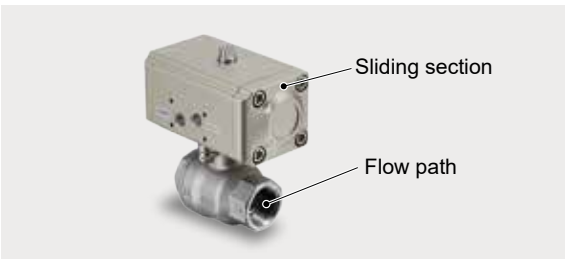
FP2 Series

Lubricant Material Assembly environment

Uses safe materials!

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

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



\*Food Sanitation Act "Specifications and standards for foodstuffs, food additives, etc. (Ministry of Health and Welfare Notification No. 370, 1959)"



FP3 Series

Lubricant Material Structure Assembly environment Shape

Pursuing further safety and security!

In addition to FP2, this product takes into account food production processes including lubrication, materials, and shape.



FP1

Avoid contamination from lubricants.  
Food grade lubricant (NSF H1) used.

Electric EBR-L Series	Electric EKS-L Series	Electric ETS/ETV Series	Electric ECS/ECV Series	Cylinder SCPD3 Series	Cylinder CMK2 Series CMK2-J Series
Cylinder SCM Series	Cylinder SCG Series	Cylinder SCA2 Series	Cylinder SCS2 Series	Cylinder SSD2 Series	Cylinder STG Series
Cylinder SRL3 Series	Cylinder FJ Series	Cylinder FH100 Series	Cylinder BHA/BHG Series	Cylinder HMF Series	Cylinder FH500 Series
Cylinder CKG Series	Cylinder CKL2/CKLG2 Series	Pneumatic valves 4G Series	Pneumatic valves W4G□2 Series	F.R. C□020/ C□030/ C□040/ C□050/ C□060 Series	F.R. W1□00 to W8□00 Series
F.R. F□000 M(X)□000 Series	F.R. R1□00 to R8□00 Series	Pneumatic auxiliary FX Series	Pneumatic auxiliary P1100 to P8100 Series	Pneumatic auxiliary V1000/ V3000/ V3010/ V6010 Series	Pneumatic auxiliary EVD Series
Pneumatic auxiliary GW/ZW Series	Pneumatic auxiliary SC3W Series	Pneumatic auxiliary DSC Series	Pneumatic auxiliary SCL2 Series	Pneumatic auxiliary DVL-S Series	Pneumatic auxiliary SC-M5 SC1 Series
Pneumatic auxiliary SMW/ SMW2 Series	Pneumatic auxiliary FPV Series	Pneumatic auxiliary 2QV/3QV Series	Vacuum system VSH/ VSC Series	Vacuum system VSX VSXP Series	Pneumatic auxiliary SU/SD Series
Pneumatic auxiliary NSU Series	Pneumatic auxiliary AF Series	Fluid control APK Series	Fluid control SAB Series	Fluid control NAP Series	Assistance devices PAW Series
Fluid control EXA Series	Fluid control PL FWD Series	Fluid control PL USB/G Series	Fluid control PL AB31/ AB41 Series	Fluid control PL AG31/41/ 33/43/ 34/44 Series	Fluid control PL ADK11-Z Series
Fluid control PL LAD Series	Fluid control PL NAD GNAD Series	Fluid control PL CHB/ CHG Series	Fluid control PL MXB/ MXG Series	Fluid control PL SPK Series	Fluid control PL MYB3 Series
Fluid control PL HB Series	Fluid control PL CCN Series				

FP2

Uses materials conforming to the Food Sanitation Act.

Electric : Electric actuator Cylinder : Cylinder Pneumatic valves : Pneumatic valve F.R. : F.R. unit Pneumatic auxiliary : Pneumatic auxiliary components Fluid control : Fluid control valves Vacuum system : Vacuum System components SELVACS



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



PL : Positive List (PL) Published  
\*Compliant with No. 196 of the Public Notice of the Ministry of Health, Labor and Welfare of 2020



Antibacterial/Bacteria-removing Filter

# SFC/SFS Series



What's important of compressed air is "anti-bacterial/bacteria-removing" properties



Nitrogen Gas Extraction Unit

# NS Series



New standard for nitrogen supply to reduce food loss and prevent oxidation

Nitrogen gas can be easily extracted from compressed air.



- Nitrogen extraction from compressed air
- Reduces management labor
- Component replacement is possible without disassembling the piping
- Not Subject to High Pressure Gas Safety Act

Suction Pad Packaging Bag Type

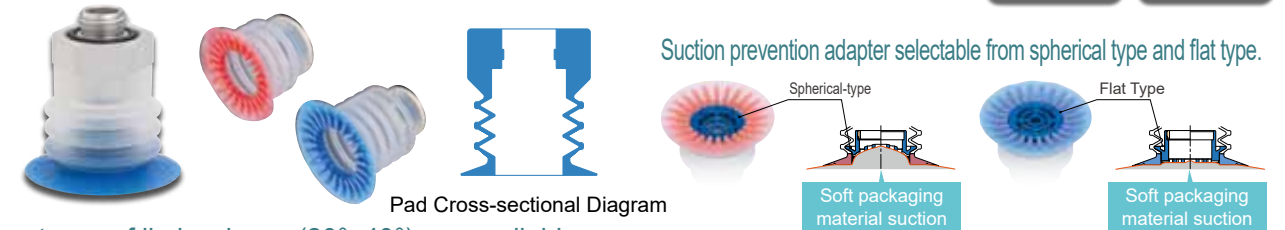
# VSP-□PBD Series



Compatible with various bag workpieces



Pad Shape



Two types of lip hardness (20°, 40°) are available.  
Ultra Soft Material (Pink): For easily deformable packaging bags  
Softener (Blue): For thick vinyl/sheet-like packaging bags  
Two types of bellows stages available.  
5 Stages: For packaging bags with workpiece inclination or uneven steps  
3 Stages: For space saving or suppressing workpiece wobble

Suction prevention adapter also selectable with stainless steel mesh.  
Prevents suction of foreign matter, preventing trouble in the vacuum system.



Solution Examples

Food manufacturing lines, etc.

Transport process for general bagged workpieces



Suction Pad Metal Detector Type

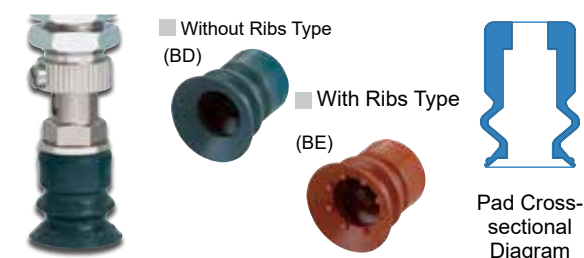
# VSP-□BE□, □BD□ Series



Reacts with metal detector when pad rubber fragments are mixed

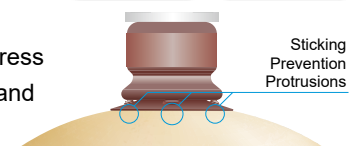


Pad Shape



Bellows Shape

With protrusions to suppress sticking between the lip and bellows part



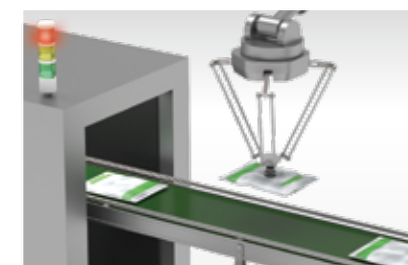
Iron powder and SUS powder specifications available.

- Iron Powder: Double the reaction ratio compared to other companies (CKD data).
- SUS Powder: Rubber wear particles are resistant to rust.

Solution Examples

Food production lines, etc.

Reacts to metal detectors, preventing the outflow of contaminated products.



Workpieces with uneven suction surfaces

Flexibly handles workpieces with irregularities such as retort pouches.



Environment-resistant cylinder  
For food manufacturing processes

# FP1-G-HP1 Series



Reduced CO<sub>2</sub> emissions through long service life products for food manufacturing processes

Significant  
reduction in minor  
stoppages

Significant reduction  
in replacement  
frequency

Improved  
environmental  
resistance

Durability  
count over 5  
million cycles

Subject to CKD prescribed conditions



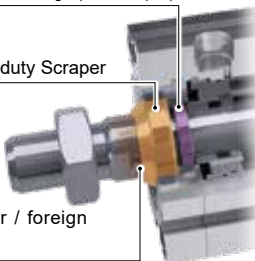
## Long service life even in harsh environments

Food-grade (NSF H1) lubricants are used for flow paths and sliding parts. Equipped with a heavy duty scraper and lube keeper to prevent intrusion of dust and to maintain lubrication. While maintaining the safety and security of the FP Series, durability in dusty environments has been greatly improved.

Fiber assemblage (lube keeper)

Heavy-duty Scraper

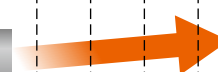
Powder / foreign  
matter



Operational cycle

4x  
Conventional

FP1 - G-HP1  
series  
Our  
conventional  
product



\*The durability of the HP Series is the service life under our specified conditions. As it differs under working conditions or ambient conditions, it is not guaranteed to be more than 4 times the durability under all conditions.

Pencil Shaped Cylinder

**SCPD3**



Small bore size cylinder

**CMK2**



Round shaped cylinder

**SCM**



Tie Rod Cylinder

**SCG**



Compact Cylinder

**SSD2**



Guided Cylinder

**STG-M<sub>B</sub>**



The goods and/or their replicas, the technology and/or software found in this catalog are subject to complementary export regulations by Foreign Exchange and Foreign Trade Law of Japan. If the goods and/or their replicas, the technology and/or software found in this catalog are to be exported from Japan, Japanese laws require the exporter makes sure that they will never be used for the development and/or manufacture of weapons for mass destruction.

**CKD Corporation**

[Website]  
<https://www.ckd.co.jp/en/>

Head Office • Plant  
Tokyo Office

Osaka Office

2-250, Oujii, Komaki, Aichi 485-8551  
4F, Bunkahousou Media Plus, 1-31-1, Hamamatsu-cho,  
Minato-ku, Tokyo 105-0013  
6F, PMO EX Shin-Osaka, 4-2-10 Miyahara,  
Yodogawa-ku, Osaka 532-0003

TEL(0568)77-1111 FAX(0568)77-1123  
TEL(03)5402-3620 FAX(03)5402-0120  
TEL(06)6396-9630 FAX(06)6396-9631