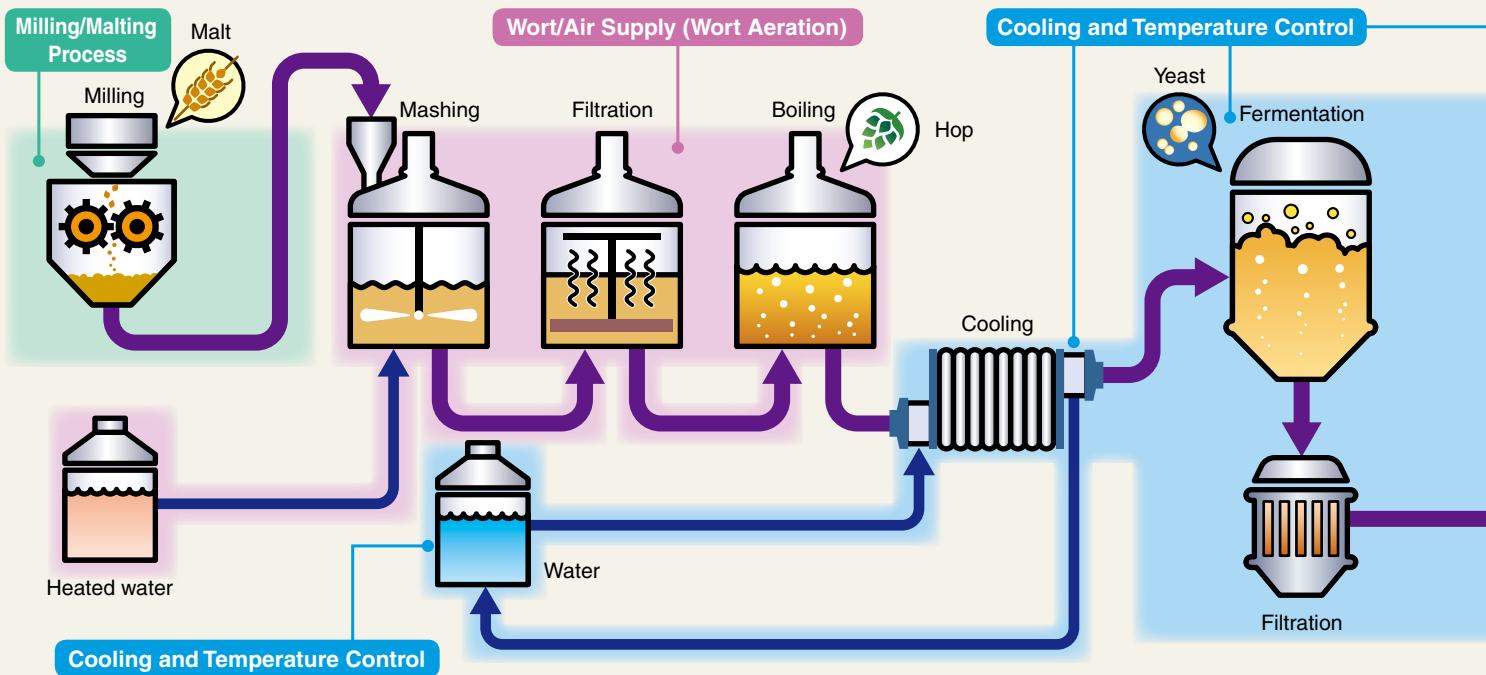


Products for Craft Breweries



Craft Beer Production Process

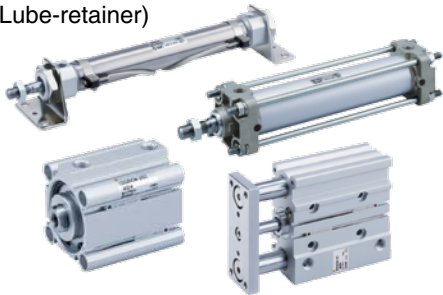


Milling/Malting Process

p. 3

Can be used for opening and closing hatch doors in dusty environments.

Cylinder with Stable Lubrication Function (Lube-retainer)



Used for loosening up stuck grains in milling equipment.

Air Shocker



For transfer of grain material

Pulse Valve Valve for Dust Collector



Wort/Air Supply (Wort Aeration)

p. 6

Can be used for supplying pressurized air for wort aeration prior to the fermentation process.

Membrane Air Dryer

It is possible to easily supply dry air using the hollow fiber membrane.

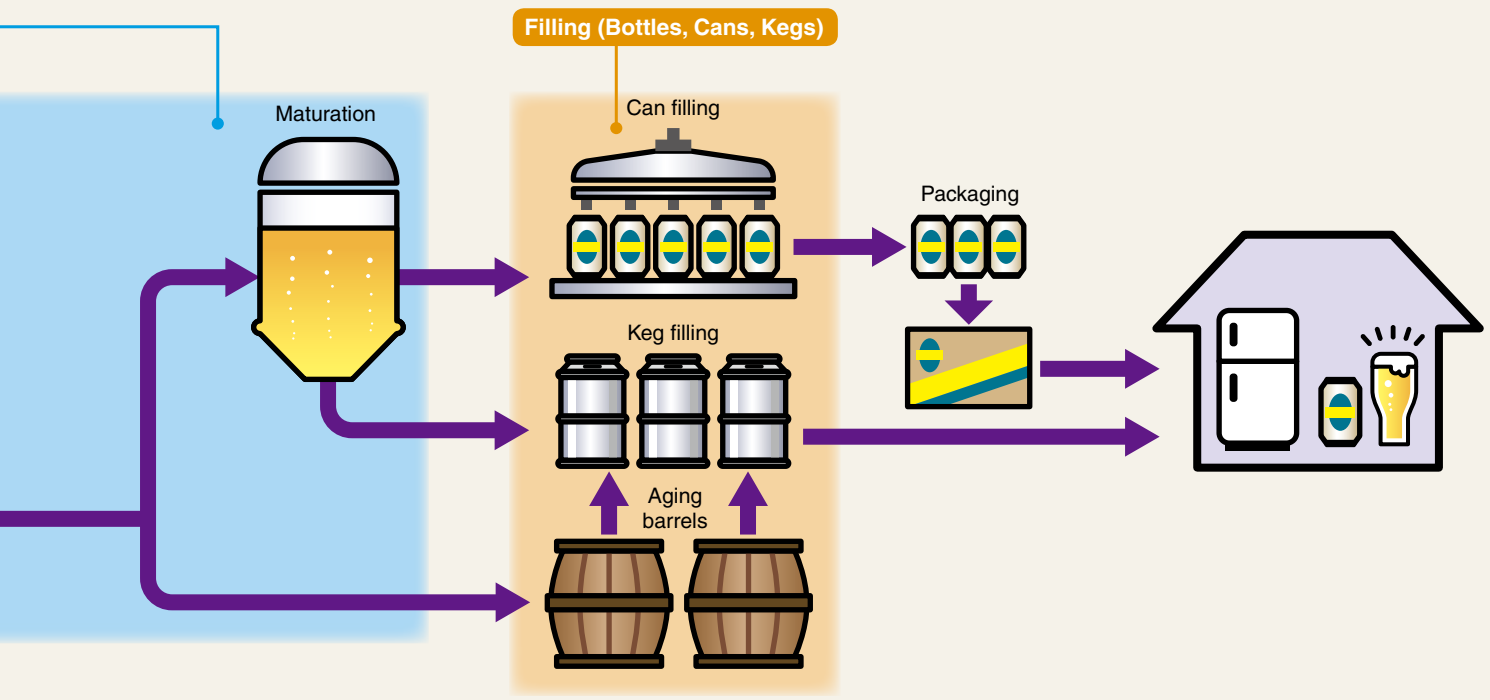


Line Filter
Mist Separator
Micro Mist Separator
Activated Carbon Filter



Bacteria Removal Filter





Cooling and Temperature Control

p. 4

For controlling the temperatures of maturation and fermentation tanks as well as heat exchangers!

Thermo-chiller



Circulating Fluid Line Equipment

Direct Operated/
Pilot Operated
2-Port Solenoid Valve



S Couplers
Stainless Steel Type



3-Color Display
Digital Flow Switch
for Water

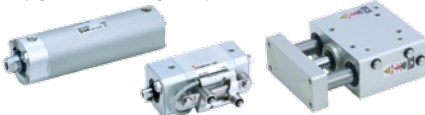


Filling (Bottles, Cans, Kegs)

p. 7

These products are made with stainless steel for improved corrosion resistance, hygienic design, use grease for food machinery, or use compatible materials, etc.

Hygienic Design Cylinder



Stainless Steel Cylinder



Clean Design Manifold Valve



Stainless Steel Speed Controller
(Elbow Type)



EHEDG Compliant/Clean Design/FDA Compliant Fittings



EHEDG Compliant Fittings

Clean Design Fittings

FDA Compliant Fittings

Related Products

Equipment for the Food
Manufacturing Industry
Main applicable products

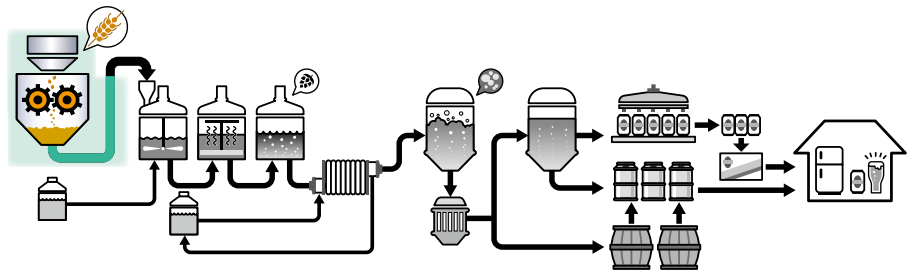
- Air Preparation Equipment/
Pressure Control Equipment
- Fittings and Tubing

- Flow Control Equipment
- Pressure Gauges
- Switches/Sensors

- Process Valves
- Directional Control Valves



Milling/Malting Process



Can be used for opening and closing hatch doors in dusty environments.

Cylinder with Stable Lubrication Function (Lube-retainer)



- Applicable to operation in dusty (10 to 100 μm)/general environments
- Durability is 4 times stronger than the standard model in dusty environments.
- The overall length and mounting are the same as those of the standard model. (Except for some models)
- Grease film is formed on the piston rod surface to improve durability.
- Prevents the entry of dust and foreign matter
- The number of operating cycles can be improved even in general environments.

Type	Series	Bore size [mm]
Air cylinder	CM2-Z	20, 25, 32, 40
Air cylinder	CG1-Z	20, 25, 32, 40, 50, 63, 80, 100
Air cylinder	CA2-Z	40, 50, 63, 80, 100
Compact cylinder	CQS	20, 25
Compact cylinder	CQ2-Z	32, 40, 50, 63, 80, 100
Compact guide cylinder	MGP-Z	20, 25, 32, 40, 50, 63, 80, 100
Dual rod cylinder/ Compact type	CXSJ	6, 10, 15, 20, 25, 32
Dual rod cylinder	CXS	6, 10, 15, 20, 25, 32
High power cylinder	RHC-XC93	32, 40

Used for loosening up stuck grains in milling equipment.

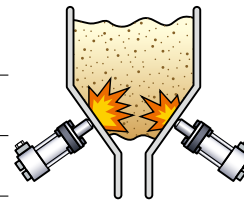
Air Shocker XT316



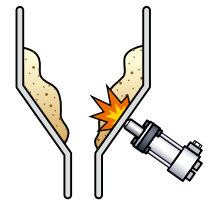
* Please contact SMC for details.

- Pneumatic piston type shock generator

Bore size [mm]	30	40	63	80	100
Impact energy [kgm]	0.05 to 0.07	0.17 to 0.31	0.45 to 0.75	1.0 to 1.8	2.2 to 4.0



Bridge



Adhesion

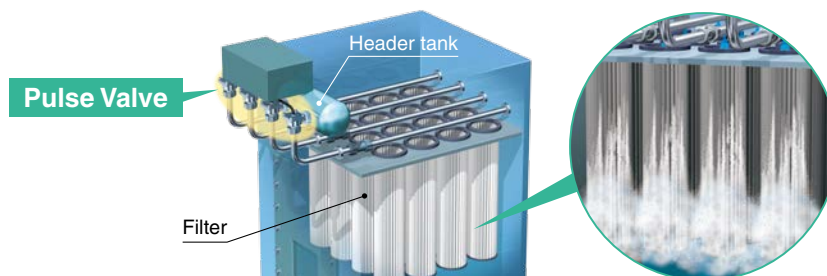
For transfer of grain material

Pulse Valve (Valve for Dust Collector) JSXF/JSXFA

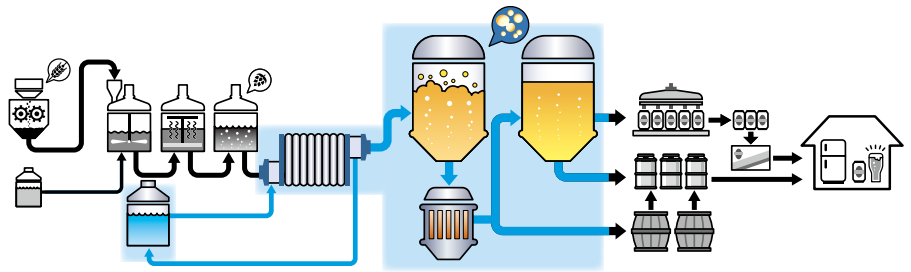


- Life: 10 million cycles or more/10 times or more
- High peak pressure and low air consumption
Peak pressure: 15% increase
Air consumption: 35% reduction
- Fluid temperature: -40 to 60°C

Series	Valve type	Port size	Piping	Orifice diameter [mmφ]
JSXF Solenoid valve	N.C.	3/4 (20A)	Compression fitting type Direct piping type (Rc, NPT, G) Immersion type	32, 40, 45, 50, 55 (ø55 is only available for the immersion type.)
JSXFA Air operated		1 (25A) 1 1/2 (40A) 2 (50A)		



Cooling and Temperature Control

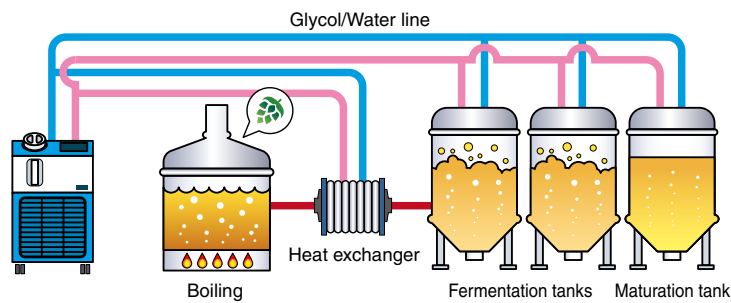


For controlling the temperatures of maturation and fermentation tanks as well as heat exchangers!

Thermo-chiller HRS040-A-20-T1-X166 INR-493-010 INR-493-012



Series	Set temperature range	Cooling capacity [kW] (At 10°C)	Temperature stability	Cooling method	Power supply	Circulating fluid
		50/60 Hz				
HRS040-A-20-T1-X166	-5 to 40°C	2.4/2.6	±0.1°C	Air-cooled refrigeration	Single-phase 200 to 230 V	Propylene glycol aqueous solution (30 wt%)
INR-493-010	-10 to 35°C	5.5/6.5	±0.5°C		3-phase 200 V	Propylene glycol aqueous solution (30 wt%)
INR-493-012	-5 to 30°C	1.0/1.2	±0.1°C		Single-phase 100 V	Propylene glycol aqueous solution (30 wt%)



Circulating Fluid Line Equipment

S Couplers Stainless Steel Type KKA



- Body material: Stainless steel 304
- Seal material: Fluoropolymer (Special FKM) is employed.
- Grease-free
- Check valve built in to both plug and socket
- Simple to connect and disconnect chiller



Series	Connection thread
KKA	1/8, 1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2

Direct Operated/Pilot Operated 2-Port Solenoid Valve JSX/JSXD



- Body material: Stainless Steel, Seal material: EPDM for use with propylene or ethylene glycol
- Improved environmental resistance due to the stainless steel coil cover [IP67 enclosure]
- Space saving
Compact: Valve volume reduced by 25% (Compared with the existing model),
Lightweight: Weight reduced by 30% (Compared with the existing model)



Series	Valve type	Port size	Orifice diameter [mmØ]
JSX	N.C.	1/8, 1/4, 3/8	1.6 to 7.1
JSXD	N.C.	1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 32A, 40A, 50A	10 to 50

Circulating Fluid Line Equipment

3-Color Display Digital Flow Switch for Water PF3W-Z/L



- Applicable fluid: Water, Ethylene glycol aqueous solution
- Lightweight: Max. 53% reduction (40 L/min, With temperature sensor)
- IO-Link compatible
- 3-color/2-screen display
- Compatible with the temperature sensor & flow adjustment valve
- Fluid temperature: 0 to 90°C

Series	Rated flow range [L/min]
PF3W-Z	0.5 to 4, 2 to 16, 5 to 40, 10 to 100
PF3W7-L (IO-Link compatible)	0.5 to 4, 2 to 16, 5 to 40, 10 to 100, 50 to 250

Digital Flow Switch Manifold for Water PF3WB/C/S/R



Basic type



Straight type



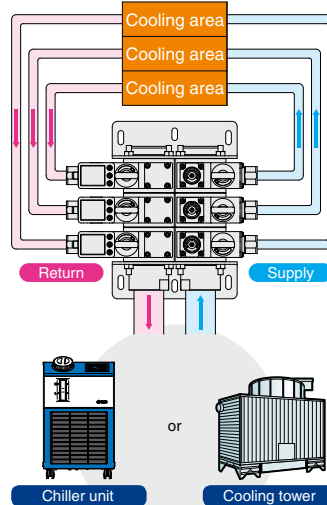
Supply type



Return type

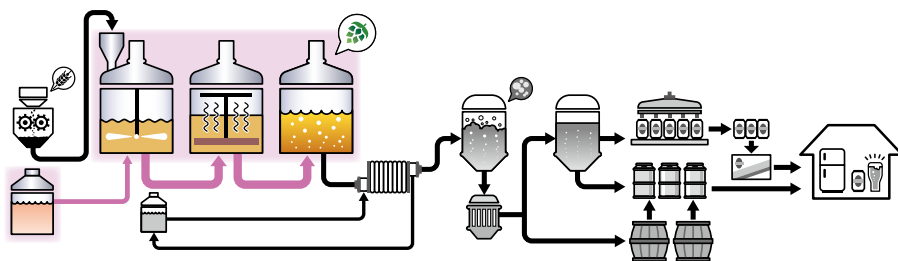


- Applicable fluid: Water, Ethylene glycol aqueous solution
- Space saving
Footprint: Max. 85% reduction
Weight: Max. 65% reduction
- Needs no piping:
Work-hour for installation reduced by up to 45%
- IO-Link compatible
- 3-color/2-screen display
- Fluid temperature: 0 to 90°C



Series	Rated flow range [L/min]
PF3WB Integrated type (Basic type)	0.5 to 4, 2 to 16, 5 to 40
PF3WC Integrated type (Straight type)	0.5 to 4, 2 to 16, 5 to 40
PF3WS Remote type (Supply type)	0.5 to 4, 2 to 16, 5 to 40
PF3WR Remote type (Return type)	0.5 to 4, 2 to 16, 5 to 40

Wort/Air Supply (Wort Aeration)



Can be used for supplying pressurized air for wort aeration prior to the fermentation process.

Membrane Air Dryer IDG□A/IDG



- HF1 compliant product
Non grease or NSF H1 food grade grease utilized*1, *2 (No Prefix No.)
*1 Parts in contact with fluid
*2 Excludes the IDG1 and semi-standard specification P (With fitting for purge air discharge)
- It is possible to easily supply dry air using the hollow fiber membrane.
- Non-fluorocarbon
- Power supply not required
- Compatible with low dew points (-60°C)
- No vibration or heat discharge
- With a dew point indicator

Series	Outlet flow [L/min (ANR)]	Standard dew point [°C]
IDG□A/IDG	10 to 1000	-15, -20, -40, -60

Line Filter HF1-AFF / Mist Separator HF1-AM / Micro Mist Separator HF1-AMD / Activated Carbon Filter HF1-AMK



- Non grease or NSF H1 food grade grease utilized*1
*1 Parts in contact with fluid
- Modular connection type
- Compressed air purity class: ISO 8573
- Face-to-face and depth dimensions reduced by 30%
- Weight reduced by 50%
- AFF/AM□20: 0.19 kg (Existing model: 0.38 kg)
- Flow capacity increased by 50%
- No tools are required.
- Easy replacement of the element is possible.
- Transparent bowl guard (2-layer construction)
- Color-identifiable elements

Type	Series	Filtration [μm]	Oil concentration on the outlet side	Rated flow [L/min (ANR)]	Port size
Line filter	HF1-AFF	1.0 (Filtration efficiency: 99%)	—	300 to 1500	1/8, 1/4, 3/8, 1/2
Mist separator	HF1-AM	0.1 (Filtration efficiency: 99%)	1 (≈ 0.8 ppm) or less	300 to 1500	1/8, 1/4, 3/8, 1/2
Micro mist separator	HF1-AMD	0.01 (Filtration efficiency: 99%)	0.1 (≈ 0.08 ppm) or less	300 to 1500	1/8, 1/4, 3/8, 1/2
Activated carbon filter	HF1-AMK	—	0.003 (≈ 0.0025 ppm) or less	300 to 1500	1/8, 1/4, 3/8, 1/2

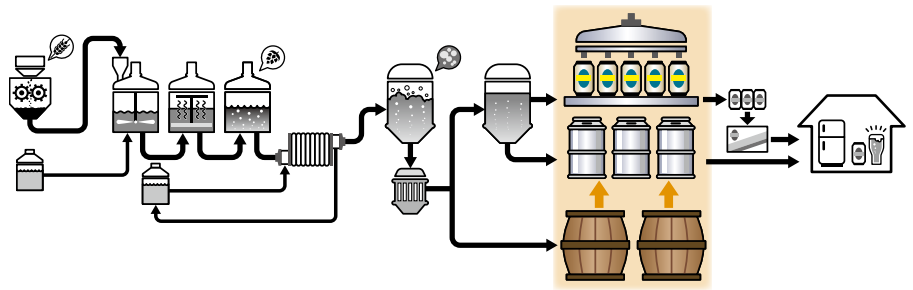
Bacteria Removal Filter/Hollow Fiber Element SFDA



- Bacteria capture performance: LRV ≥ 9
- Use of FDA/Japan Food Sanitation Law compliant materials*1
*1 Parts in contact with fluid: Resin/Rubber
- Grease-free
- Nominal filtration rating: 0.01 μm (Filtering efficiency: 99.99%)
- Initial pressure drop: 0.03 MPa (Inlet pressure 0.7 MPa, at max. flow rate)
- Flow rate: 500 L/min (ANR)

Series	Type	Operating pressure	Filtration [μm]
SFDA	Bacteria removal filter (Bacteria removal performance: LRV ≥ 9)	Max. 1.0 MPa (For nitrogen: 0.99 MPa)	0.01 (Filtering efficiency: 99.99%)

Filling (Bottles, Cans, Kegs)



These products are made with stainless steel for improved corrosion resistance, hygienic design, use NSF H1 food grade grease, or use compatible materials, etc.

Improved Corrosion Resistance (Stainless Steel)

Stainless Steel Cylinder **CJ5-S/CDJ5-S/CG5-S/CDG5-S**



- Applicable for use in an environment with water splashing
- With auto switch (CDJ5-S series, CDG5-S series)

Type	Series	Bore size [mm]
Standard	CJ5-S	10, 16
Standard	CG5-S	20, 25, 32, 40, 50, 63, 80, 100
Standard	CG5W-S	20, 25, 32, 40, 50, 63, 80, 100

Stainless Steel Speed Controller (Elbow Type) **ASG**



- Material: Stainless steel 316
- Seal: Special FKM
- Seat ring: Stainless steel 303
- Applicable tubing materials:
FEP, PFA, Nylon, Soft nylon, Polyurethane, Polyolefin

Type	Series	Port size on the cylinder side	Applicable tubing O.D.
Elbow type	ASG	M5 to 1/2	ø4 to ø12

Angle Seat Valve/Air Operated Type **JSB41**



- Large flow rate (Cv factor: 28)
- Compact (Height: 166 mm)
- Long service life:
5 million cycles (Water, Air)
- Body material: Stainless steel 316L equivalent
- Steam, Water, Air (All-in-One)
- Easy maintenance

Series	Valve type	Port size	Flow rate characteristics Cv	Fluid temperature [°C]
JSB41	N.C.	1	28	0 to 183

Hygienic Design

Hygienic Design Cylinder **HY□/HYD□**



- Improved water resistant air cylinder with an easily washable configuration
- 5 times the lifespan of the improved water resistant cylinder (SMC comparison)
- With auto switch (HYDB series, HYDQB series, HYDCB series, and HYDG series)

Type	Series	Bore size [mm]
Basic	HYB	20, 25, 32, 40, 50, 63, 80, 100
Basic	HYQ	20, 25, 32, 40, 50, 63
ISO Standard	HYC	32, 40, 50, 63
With guide	HYG	20, 25, 32, 40, 50, 63

Clean Design Manifold Valve **JSY5000-H**



- Low fluid accumulation, Easy to clean
- Large flow rate: 1,600 L/min (ANR)
- Enclosure: IP69K
- NSF H1 grease
- External parts: FDA-compliant materials
(Metal parts are made of stainless steel 316 with high anti-corrosion performance.)
- Wiring: Lead wire/Fieldbus type (IO-Link)

Series	Flow rate characteristics 4/2 → 5/3 (A/B → EA/EB) C [dm ³ /(s·bar)]	Flow rate characteristics 4/2 → 5/3 (A/B → EA/EB) b	Power consumption [W]
JSY5000-H	7.64	0.23	0.4 (Standard) 0.1 (With power-saving circuit*1) *1 Made to order

EHEDG Compliant Fittings **KFG2H□-E**



- EHEDG certification
- Design for less residual liquid accumulation
- Achieved IP69K rating
- Rubber parts material: FDA (U.S. Food and Drug Administration) §177.2600 compliant special FKM

Series	Description	Thread type
KFG2H□-E	Stainless steel 316 insert fitting	M, G thread

Clean Design Fittings **KFG2H□-C**



- Design for less residual liquid accumulation
- Metal parts: Stainless steel 316
- Rubber parts material: FDA (U.S. Food and Drug Administration) §177.2600 compliant special FKM
- NSF H1-compliant paraffin grease is used.

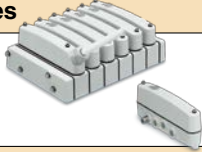













Series	Description	Thread type
KFG2H□-C	Stainless steel 316 insert fitting	M, G thread

NSF H1 Grade Grease for Food Processing Equipment

Air Cylinders	Series	Bore size [mm]
	Air Cylinder	10, 16
	Air Cylinder	20, 25, 32, 40
	Air Cylinder	20, 25, 32, 40, 50, 63, 80, 100
	Air Cylinder	40, 50, 63, 80, 100
	Compact Cylinder/Compact Type	12, 16, 20, 25
	Compact Cylinder	12, 16, 20, 25, 32, 40, 50, 63, 80, 100, 125, 140, 160, 180, 200
	Stainless Steel Cylinder	10, 16
	Stainless Steel Cylinder	20, 25, 32, 40, 50, 63, 80, 100
	Compact Guide Cylinder	12, 16, 20, 25, 32, 40, 50, 63, 80, 100
	External Stainless Steel Compact Guide Cylinder	20, 25, 32, 40
	Dual Rod Cylinder/Compact Type	6, 10, 15, 20, 25, 32
	Dual Rod Cylinder/Basic Type	6, 10, 15, 20, 25, 32
	Hygienic Design Cylinder/Round Type	20, 25, 32, 40, 50, 63, 80, 100
	Hygienic Design Cylinder/Basic Type	20, 25, 32, 40, 50, 63
	Hygienic Design Cylinder/ISO Standard Type	32, 40, 50, 63
	Hygienic Design Cylinder	20, 25, 32, 40, 50, 63



NSF H1 Grade Grease for Food Processing Equipment

Solenoid Valves		Series
	Clean Design Manifold Valve	JSY5000-H
Air Preparation Equipment/Pressure Control Equipment/Others		Series
	Compressed Air Purity Class ISO 8573 Line Filter	HF1-AFF20/30/40-D
	Compressed Air Purity Class ISO 8573 Mist Separator	HF1-AM20/30/40-D
	Compressed Air Purity Class ISO 8573 Micro Mist Separator	HF1-AMD20/30/40-D
	Activated Carbon Filter	HF1-AMK20/30/40-D
	Air Filter	HF1-AF20/30/40/50/60-D
	Mist Separator	HF1-AFM20/30/40-D
	Micro Mist Separator	HF1-AFD20/30/40-D
	Membrane Air Dryer	IDG□A/IDG
	Regulator	HF1-AR(K)20/30/40/50/60-D
	Filter Regulator	HF1-AW(K)20/30/40/60-D
	OSHA Standard Compliant Pressure Relief 3-Port Valve with Locking Holes	HF1-VHS20/30/40/50-D
Fittings for Special Environments		Series
	FDA Compliant Fittings	KQG2-F KQB2-F KFG2-F
Flow Control Equipment		Series
	Push-lock Type/ Lock Nut Type (Metal Knob)	HF1-AS

*1 Testing in compliance with Japan's Food Sanitation Law based on the 370th notice given by the Ministry of Health and Welfare in 1959

FDA (U.S. Food and Drug Administration) Compliant

Polyurethane Tubing **TU-X214**



- Complies with the FDA (U.S. Food and Drug Administration) § 177.2600 dissolution test
- Complies with the EU No 10/2011 dissolution test



Series	Tubing O.D.		Color	Fluid
	Metric size	Inch size		
TU-X214	ø4, ø6, ø8, ø10, ø12		Black, White, Red, Blue, Yellow, Green, Clear, Orange	Air, Water

Fluoropolymer Tubing **TL/TIL**



- Complies with the FDA (U.S. Food and Drug Administration) § 177.1550 dissolution test
- Japan Food Sanitation Law compliant*¹



Series	Tubing O.D.		Color
	Metric size	Inch size	
TL/TIL	ø4, ø6, ø8, ø10 ø12, ø19	ø1/8", ø3/16", ø1/4" ø3/8", ø1/2", ø3/4", ø1"	Translucent

Fluoropolymer Tubing (PFA) **TLM/TILM**



- Complies with the FDA (U.S. Food and Drug Administration) § 177.1550 dissolution test
- Japan Food Sanitation Law compliant*¹



Series	Tubing O.D.		Color
	Metric size	Inch size	
TLM/TILM	ø2, ø3, ø4, ø6, ø8, ø10 ø12, ø16, ø19, ø25	ø1/8", ø3/16", ø1/4", ø3/8" ø1/2", ø3/4", ø1", ø1 1/4"	Translucent, Black, Red, Blue

FEP Tubing (Fluoropolymer) **TH/THI**

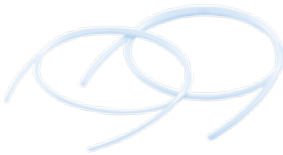


- Complies with the FDA (U.S. Food and Drug Administration) § 177.1550 dissolution test
- Japan Food Sanitation Law compliant*¹



Series	Tubing O.D.		Color
	Metric size	Inch size	
TH/THI	ø4, ø6, ø8, ø10, ø12	ø1/8", ø3/16", ø1/4" ø3/8", ø1/2", ø3/4"	Translucent, Black, Red, Blue

Soft Fluoropolymer Tubing **TD/TID**



- Complies with the FDA (U.S. Food and Drug Administration) § 177.1550 dissolution test
- Japan Food Sanitation Law compliant*¹



Series	Tubing O.D.		Color
	Metric size	Inch size	
TD/TID	ø4, ø6, ø8, ø10, ø12	ø1/8", ø3/16", ø1/4" ø3/8", ø1/2"	Translucent

Polyolefin Tubing **TPH**



- Complies with the FDA (U.S. Food and Drug Administration) § 175.300 dissolution test



Series	Applicable tubing O.D.	Color
TPH	ø4, ø6, ø8, ø10, ø12	White, Blue, Yellow

FDA (U.S. Food and Drug Administration) Compliant

Soft Polyolefin Tubing **TPS**



- Complies with the FDA (U.S. Food and Drug Administration) § 175.300 dissolution test



Series	Applicable tubing O.D.	Color
TPS	ø4, ø6, ø8, ø10, ø12	White, Blue, Yellow

Stainless Steel 316 One-touch Fittings **KQG2-F**



- Rubber parts material: FDA (U.S. Food and Drug Administration) §177.2600 compliant FKM
- NSF H1-compliant paraffin grease is used.



Series	Applicable tubing	Connection thread
KQG2-F	Metric/Inch size	M, R, Rc, UNF, NPT, G*1 *1 ISO 16030 compliant

Metal One-touch Fittings **KQB2-F**



- Rubber parts material: FDA (U.S. Food and Drug Administration) §177.2600 compliant FKM
- NSF H1-compliant paraffin grease is used.



Series	Applicable tubing	Connection thread
KQB2-F	Metric/Inch size	M, R, Rc, UNF, NPT, G*1 *1 ISO 16030 compliant

Stainless Steel 316 Insert Fittings **KFG2-F**



- Rubber parts material: FDA (U.S. Food and Drug Administration) §177.2600 compliant FKM
- NSF H1-compliant paraffin grease is used.



Series	Applicable tubing	Connection thread
KFG2-F	Metric/Inch size	R, Rc, NPT, G*1, *2 *1 Swivel elbow only *2 ISO 16030 compliant

EHEDG Compliant Fittings **KFG2H□-E**



- EHEDG certification
- Design for less residual liquid accumulation
- Achieved IP69K rating
- Rubber parts material: FDA (U.S. Food and Drug Administration) §177.2600 compliant special FKM



Series	Description	Thread type
KFG2H□-E	Stainless steel 316 insert fitting	M, G thread

Clean Design Fittings **KFG2H□-C**



- Design for less residual liquid accumulation
- Metal parts: Stainless steel 316
- Rubber parts material: FDA (U.S. Food and Drug Administration) §177.2600 compliant special FKM



Series	Description	Thread type
KFG2H□-C	Stainless steel 316 insert fitting	M, G thread

Fieldbus System (Wired/Wireless)

Industrial Device Communication Equipment EX600

EX600



- Supports digital inputs/outputs, analog inputs/outputs, and IO-Link masters
- Various connectors available (The following connectors are selectable for the input/output devices):
M12 connectors (IP67), M8 connectors (IP67), D-sub connectors (IP40), and spring type terminal blocks (IP40)



Series	Enclosure	Communication protocol	Applicable valve
EX600	IP67 or IP40	PROFINET EtherNet/IP™ EtherCAT PROFIBUS DP DeviceNet® CC-Link Modbus TCP (Made to order) CC-Link IE Field (Made to order) Ethernet POWERLINK (Made to order)	SY3000, 5000, 7000 (Plug-in) JSY1000, 3000, 5000 SV1000, 2000, 3000 VQC1000, 2000, 4000, 5000 S0700 (IP40)

Industrial Device Communication Equipment EX500

EX500



- Decentralized valve installation is possible.
- 2 types of decentralized systems



Description	Number of inputs/outputs	Number of valve manifold and input unit connections	Branch cable length
Gateway decentralized system 2	128 inputs/128 outputs	Max. 16 units	Max.20 m
Gateway decentralized system	64 inputs/64 outputs	Max. 8 units	Max.10 m

Series	Enclosure	Communication protocol	Applicable valve
EX500	IP67	EtherNet/IP™ PROFINET PROFIBUS DP	SY3000, 5000, 7000 (Plug-in) VQC1000, 2000, 4000, 5000 SV1000, 2000, 3000 S0700 (IP40)

Wireless System EXW1/EX600-W



- Noise resistance
Uses the 2.4 GHz ISM frequency band
Frequency hopping: Every 2 ms (Fastest)
- Communication cables not required
Reduced wiring work, space, and cost
Minimized disconnection risk
- Provides communication stability in FA environments
- Compact and lightweight (EXW1)
Volume: Approx. 86% reduction, Weight: Approx. 87% reduction
- Modular connection is possible. (EX600-W)




Series	Enclosure	Communication protocol	Applicable valve
EXW1	IP20 (Remote)	CC-Link	JSY1000, 3000, 5000
EX600-W	IP67 equivalent	EtherNet/IP™ PROFINET	SY3000, 5000, 7000 (Plug-in) SV1000, 2000, 3000 S0700 (IP40) VQC1000, 2000, 4000, 5000

Trademark

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Products for Craft Breweries



 **Safety Instructions** Be sure to read the “Handling Precautions for SMC Products” (M-E03-3) and “Operation Manual” before use.

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