Fujikin

Provider / Power Unit

PROVIDER POWER UNIT

Maximum operating pressure ■ **500 MPa (for liquid)** ■ **150 MPa (for N_2 gas)**

Internet "Beyond the Flow" of Things

Fujikin Carp Group

We welcome customer feedback for all of our products and servic es.

What is Provider?

Air pressure (max. 0.7 MPa) that can be easily obtained in any factory, with piston drive...

Provider is a balance-type compressor/pump that constantly generates high pressure up to 150 MPa for N_2 gas and 500 MPa for liquid.
Three series are available: JHP, MG, and ML

JHP series: Small and compact, suitable for small-capacity intermittent operation

MG, ML series: Suitable for continuous operation, advanced functions can be added. (Support for a variety of functions such as oil-free and liquid use is possible)

Specifications

Maximum operating pressure (MPa)	Operating temperature range (℃)
500 MPa (for liquid) 150 MPa (for N_2 gas) For other gases, please inquire separately.	5～40

Features

- **You can freely set the pressure**
  Simply set an operating pressure of 0.1 up to 0.7 MPa, and the unit will then automatically and constantly generate a discharge pressure up to the required level.
- **Explosion-proof structure**
  Air-pressure drive eliminates the concern of combustion and explosion due to electrical causes.
- **Gas contact / liquid contact part**
  Materials appropriate for the application are available. A oil-free type is also available.
- **Select a double-acting type Provider for easy large-capacity discharge**
- **Stable operation mechanism**
  The operation pressure and discharge pressure are balanced to maintain the set pressure, eliminating concern of trouble due to operation at an excessive load and other factors.
- **Low-noise operation**
  The compressor generates high pressure through the reciprocating motion of a piston driven by air with no need for a motor or engine, enabling quiet operation. The operating air is discharged through a silencer, keeping the sound low.
- **Economic price**
  No other power source is needed, so the compressor can be used at lower cost than other compressors.

Caution
1. The Provider for gas is subject to the High Pressure Gas Safety Act.
2. Use in an indoor environment from 5 to 40℃ to prevent intake of particulate matter and condensation.

Lineup

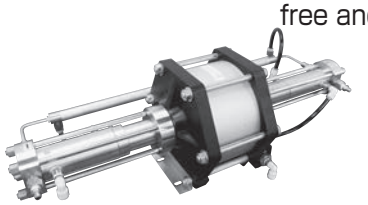
To meet customer needs, the Provider Series has a full lineup.

JHP Series: Small and compact, suitable for small-capacity intermittent operation

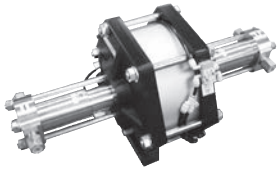
For gas

For liquids

MG, ML Series: Suitable for continuous operation, advanced functions can be added. (Support for a variety of functions such as oil-free and liquid use is possible)



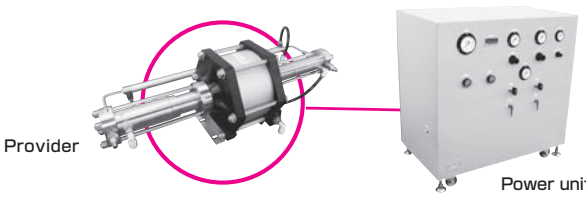
MG Series (for gas)



ML Series (for liquid / double action)

Power unit

All functions required for Provider operation are provided in a compact unit



All parts and circuits that are required to generate high pressure are built into the power unit, allowing high pressure to be obtained in a simple and convenient way.

The Provider unit, air regulator, air filter, pressure gauge, discharge pressure/operation pressure control valve, strainer, and other parts are built in. Compact and lightweight, movable.

Applications

Typical application examples

Advanced functions surpass your expectations.
Used in a wide range of applications.

Fluid used
Gases
[Air, N_2, He, H_2, O_2, etc]
Liquids
[Water, hydraulic oil, organic solvents (NMP, methanol, etc.), etc.]
★Separate specifications exist for gases other than air and N_2 gas, so please inquire.

- **Withstand pressure, airtightness, and destruction testing equipment for testing and retesting of container accessories based on the High Pressure Gas Safety Act.**
- **Withstand pressure and airtightness testing equipment for instrumentation lines such as plant piping and connecting piping.**
- **Testing equipment for pressure gauges, Bourdon tubes and other devices in factory equipment**
- **Pressure sources for bellows and valve molds.**
- **Various types of hydraulic equipment and hydraulic units**
- **High pressure gas pressurizing and remaining gas filling**
- **High-pressure pressure keeping / adjustment equipment**
- **Pumps for chemical and pure water washing**
- **Pressurization injection pumps**
- **Various types of destruction testing equipment, other equipment that requires high pressure**

Specifications

JHP Series (for gas)

Model		Maximum operating pressure (discharge pressure) (MPa) *1	Multiplying factor (x) *2	Displacement*3 (mℓ / 1Stroke)	Air consumption *4 Nℓ / min
Double-acting type	JHP–M7WG	3.5	7	320	600
	JHP–M10WG	5	10	220	
	JHP–M14WG	7	14	150	
Two-stage compression type	JHP–150WG	15	30	90	950
	JHP–300WG	30	62	70	990
	JHP–500WG	50	110	70	1,080

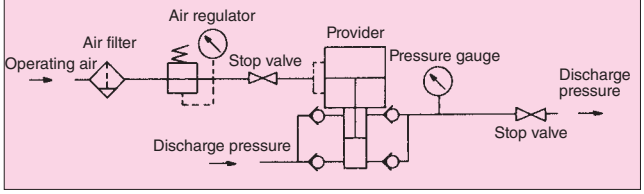
*1: Multiplying factor × operating pressure (calculated value) *2: Ratio of discharge pressure to operating pressure
*3: Intake cylinder cross-sectional area × stroke length *4: When operating pressure is 0.5 MPa (calculated value)

$$\text{Discharge volume per day} = \underset{\ell\ /1\text{stroke}}{\text{Displacement}} \times \underset{\text{Count/min}}{\text{Operation cycles}} \times \underset{\text{min}}{60} \times \underset{\text{hour}}{24} \times \left(\frac{\text{Intake pressure} + \text{Atmospheric pressure}}{\text{Atmospheric pressure}}\right)_{\text{MPa}}$$

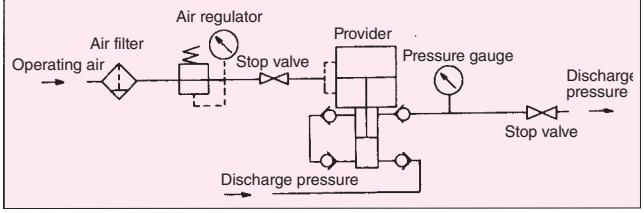
※ The discharge is calculated as shown above, however, the actual discharge will vary depending on the specifications, so please consult us.

Flow sheet

Double-acting type

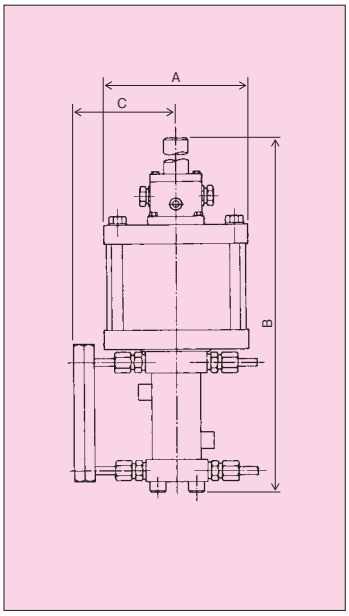


Two-stage compression type



For required devices such as safety valves, etc. that are not on the flow sheet, please inquire and we will install the devices.

Dimensions

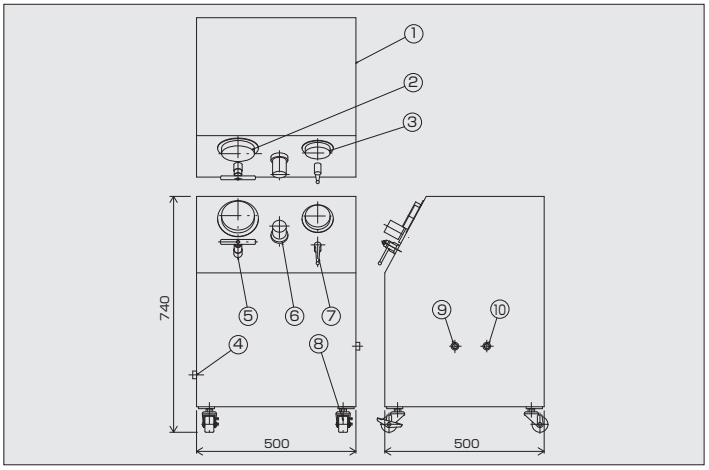


UNIT(mm)

Model	A	B	C	Weight
JHP–M–7WG	180	465	120	20kg
JHP–M–10WG JHP–M–14WG	180	465	120	20kg
JHP–150WG	180	625	120	25kg
JHP–300WG	210	640	135	26kg
JHP–500WG	250	643	165	47kg

Power unit specifications

No.	Name	Count	Remarks
1	Unit box	1	Coating
2	Discharge pressure gauge	1	
3	Operating air pressure indicator	1	
4	Discharge pressure opening	1	Rc 1/4, etc.
5	Stop valve for discharge pressure	1	Needle valve
6	Pressure regulator	1	Air regulator
7	Stop valve for operating air pressure	1	Ball valve
8	Castors	4	
9	Operating air pressure opening	1	Rc 3/8
10	Intake port	1	Rc 3/8



∗ Materials used, dimensions, and specifications are subject to change without notice due to technical advancements.

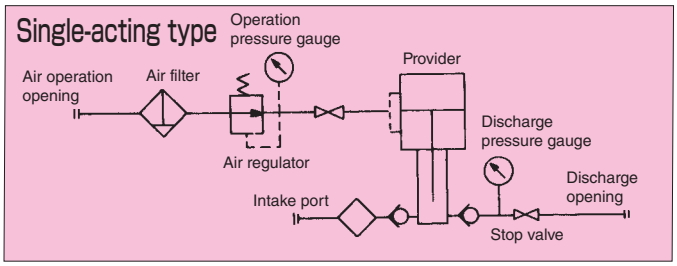
Specifications

JHP Series (for liquids)

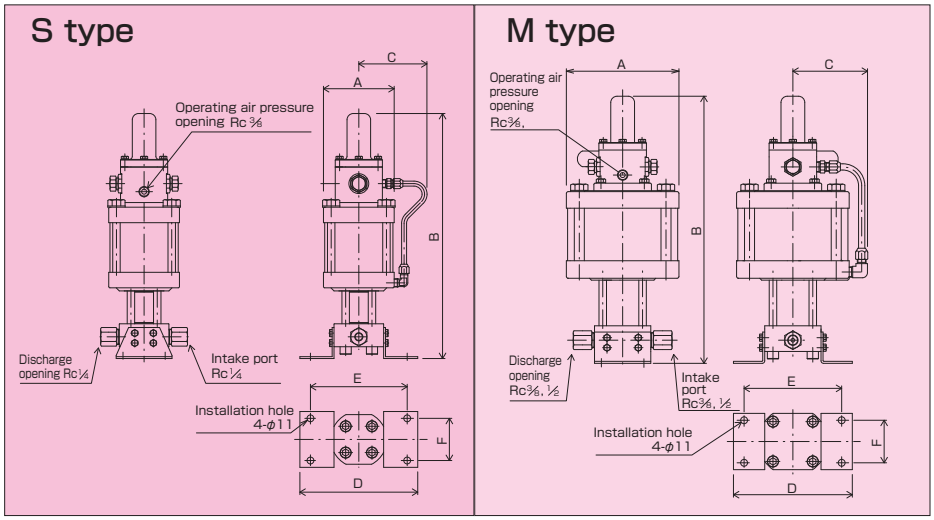
Model			Maximum operating pressure *1 (discharge pressure) (MPa)	Multiplying *2 factor (x)	Displacement *3 (mℓ / 1Stroke)	Air consumption *4 Nℓ / min
Single-acting type	S type *5	JHP–200–8S	20	39	8	300
		JHP–400–4S	40	68	4	
		JHP–800–2S	80	157	2	
	M type *6	JHP–M–7	3.5	7	140	600
		JHP–M–10	5	10	90	
		JHP–M–14	7	14	60	
		JHP–100–40M	10	22	40	600
		JHP–200–20M	20	45	20	
		JHP–500–10M	50	100	10	
		JHP–1000–5M	100	175	5	

*1: Multiplying factor × operating pressure (calculated value)　*2: Ratio of discharge pressure to operating pressure
*3: Intake cylinder cross-sectional area × stroke length　*4: When operating pressure is 0.5 MPa (calculated value)
*5: Drive cylinder, small type　*6: Drive cylinder, standard type

Flow sheet



Dimensions



UNIT (mm)

Type	Model	A	B	C	D	E	F	Intake port	Weight
S	JHP–200–8S·JHP–400–4S JHP–800–2S	114	395	110	190	156	68	Rc 1/4	Approx. 9 kg
M	JHP–1000–5M·JHP–500–10M JHP–200–20M·JHP–100–40M	180	430	120	190	156	68	Rc 1/4	Approx. 15 kg to 20 kg
	JHP–M–7·JHP–M–10·JHP–M–14	180	432	120	190	156	68	Rc 3/8, 1/2	

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Specifications

MG Series (for gas)

Model		Maximum operating pressure (discharge pressure) (MPa) *1	Multiplying factor (x) *2	Displacement*3 (mℓ / 1Stroke)	Air consumption *4 Nℓ / min
Single-acting type (Compression cylinder: Single)	MGS−NCs−10	1	2	570	700
	MGS−NC−20	2	4	502	950
	MGS−NC−35	3.5	7	282	
	MGS−NC−70	7	14	138	
	MGS−NE−500	50	100	37	1080
	MGS−NE−900	90	182	20	
Double-acting type (Compression cyclinder: Double (Same diameter))	MGW−NC−15	1.5	3	1357	950
	MGW−NC−20	2	4	1004	
	MGW−NC−35	3.5	7	565	
	MGW−NC−70	7	14	276	
	MGW−NC−150	15	28	141	
	MGW−ND−20	2	4	1271	990
	MGW−ND−50	5	10	565	
	MGW−ND−250	25	53	106	
	MGW−NE−35	3.5	7	1004	1080
	MGW−NE−50	5	10	769	
	MGW−NE−70	7	14	565	
	MGW−NE−100	10	19	392	
	MGW−NE−150	15	30	251	
	MGW−NE−300	30	62	123	
	MGW−NE−700	70	149	50	
Two-stage compression type (Compression cylinder: Twin (Different diameters))	MGT−NC−150	15	32	125	950
	MGT−NC−250	25	52	70	
	MGT−ND−300	30	62	70	990
	MGT−ND−700	70	136	45	
	MGT−NE−150	15	30	196	1080
	MGT−NE−300	30	61	125	
	MGT−NE−500	50	100	70	
	MGT−NE−700	70	149	53	
	MGT−NE−900	90	189	45	
	MGT−2D−1500	150	223	45	1800
For low intake pressure	MGT−ND−50/15	25	53	196	990
	MGT−ND−75/15	35	75	196	

*1: Multiplying factor × operating pressure (calculated value) *2: Ratio of discharge pressure to operating pressure
*3: Intake cylinder cross-sectional area × stroke length *4: When operating pressure is 0.5 MPa (calculated value)

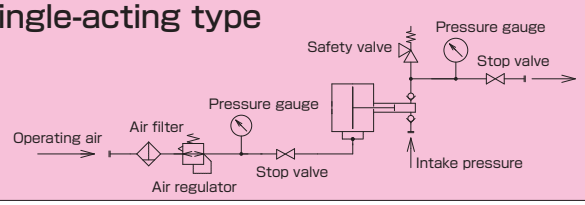
*Other discharge pressures and an oil-free type are available. Please inquire for more information.

Discharge volume per day = Displacement (ℓ /1stroke) × Operation cycles (Count/min) × 60 (min) × 24 (hour) × (Intake pressure +Atmospheric pressure / Atmospheric pressure) (MPa)

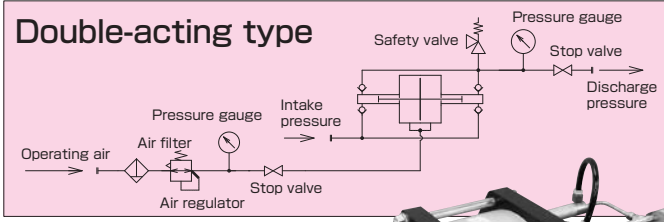
※ The discharge is calculated as shown above, however, the actual discharge will vary depending on the specifications, so please consult us.

Flow sheet

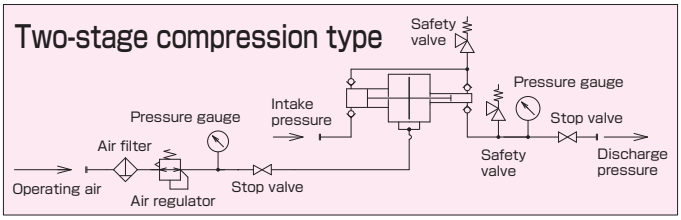
Single-acting type

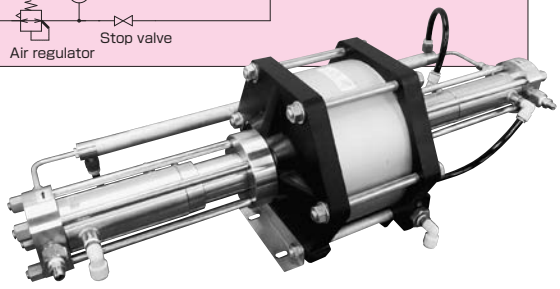


Double-acting type



Two-stage compression type





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Specifications

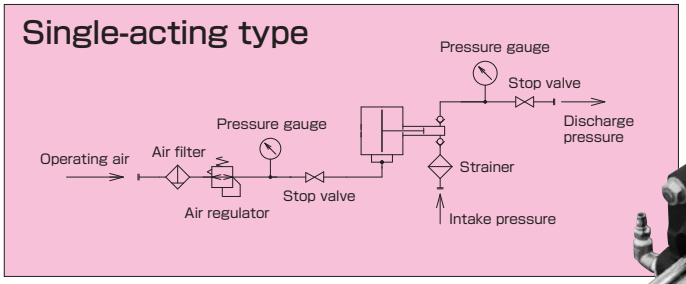
ML Series (for liquids)

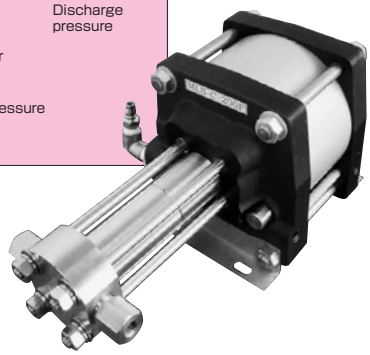
Model		Maximum operating pressure (discharge pressure) (MPa) *1	Multiplying factor (x) *2	Displacement*3 (mℓ / 1Stroke)	Air consumption*4 Nℓ / min
Single-acting type (Compression cylinder: Single)	MLS–A–20	2	4	37	130
	MLS–A–75	7.5	16	9	
	MLS–A–150	15	32	5	
	MLS–A–200	20	44	3	
	MLS–A–300	30	64	2	
	MLS–C–35	3.5	7	141	700
	MLS–C–50	5	10	98	
	MLS–C–75	7.5	16	63	
	MLS–C–150	15	28	35	
	MLS–C–200	20	44	22	
	MLS–C–250	25	52	19	
	MLS–C–500	50	100	10	
	MLS–C–1000	100	177	6	
	MLS–C–1500	150	318	4	
	MLS–D–50	5	10	141	720
	MLS–D–100	10	22	63	
	MLS–D–300	30	62	22	
	MLS–D–1500	150	298	5	
	MLS–D–2500	250	445	3	
	MLS–E–70	7	13	141	1060
	MLS–E–150	15	30	63	
	MLS–E–250	25	53	35	
	MLS–E–1000	100	182	12	
	MLS–E–3000	300	597	3	
	MLS–2D–5000	500	891	3	1400

*1: Multiplying factor × operating pressure (calculated value)　*2: Ratio of discharge pressure to operating pressure
*3: Intake cylinder cross-sectional area × stroke length　*4: When operating pressure is 0.5 MPa (calculated value)

※In addition to the above, the double-acting type MLW Series and MLTW Series are also available. Please inquire.
(The displacement of the MLW Series is twice the displacement indicated in the table above.)

Flow sheet





＊Materials used, dimensions, and specifications are subject to change without notice due to technical advancements.

Model indication (MG, ML type)

M L S – C – 200 FH

⑤Other specifications
None: NBR O ring
P : FFKM O ring
F : Pure water specification
V : Fluororubber O ring
H : Hard chrome coat
SEP : Separator (degreasing type)

④Pressure specification
(Kgf/cm²)

③Drive air cylinder diameter
A : ϕ80 D : ϕ190
B : ϕ120
C : ϕ160

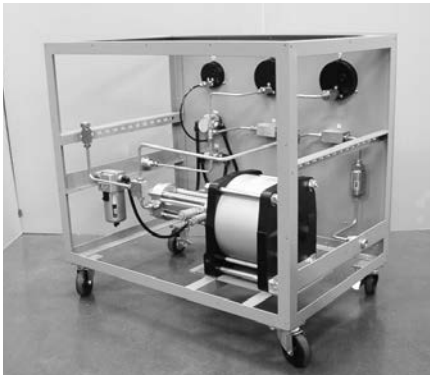
②Discharge type
S : Single-acting type, one-stage compression
T : Two-stage compression type W : Double-acting type, one-stage compression

①Fluid used
G : For gas L : For liquids

Examples of equipment with Provider installed

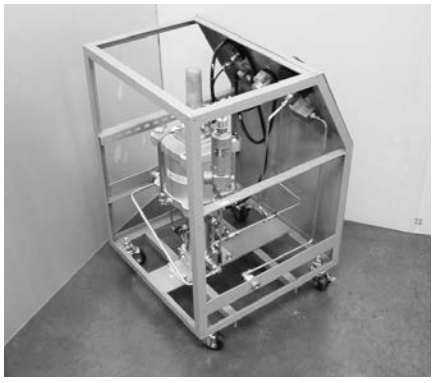
Power Unit

Appearance



Inside

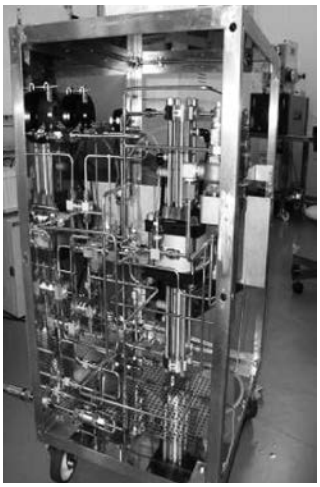
MGS type



Inside

JHP type (for gas)

Surge pressure unit for N_2 gas



By installing Provider and supplying air to drive Provider, this equipment pressurizes low-pressure nitrogen gas at 0.7 MPa to high-pressure nitrogen gas at 23 MPa.

[Design conditions]
- Fluid : N_2, etc.
- Pressure : 25 MPa
- Temperature : Normal temperature

N_2 gas supply device

Two Provider units are installed to first pressurize gas, and then regulate the pressure with a pressure reducing valve and supply the gas through an automatic valve to exhaust the gas. The touch panel on the front of the equipment can be used to regulate parameters such as the valve operation time and open/close timing.

[Design conditions]
- Fluid : N_2, etc.
- Pressure : 25 MPa
- Temperature : Normal temperature

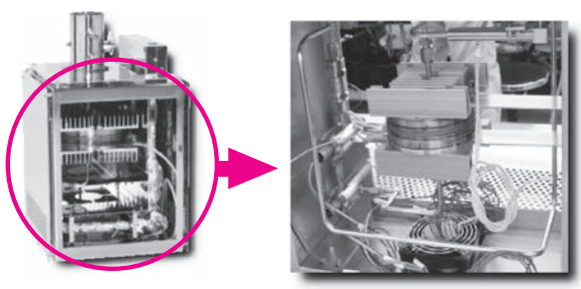
Engineering services, equipment/ piping design and manufacture

Taking advantage of our No. 1 record and experience in flow control technology and high-pressure gas certification, we help our customers navigate all phases of equipment use, from equipment design and manufacture to startup, modifications, and maintenance!

Reception of outsourcing order

Unit

- Layout design
- Drafting of piping manufacturing drawings
- Procurement of machined items
- Procurement of purchased items
- Assembly
- Washing/inspection

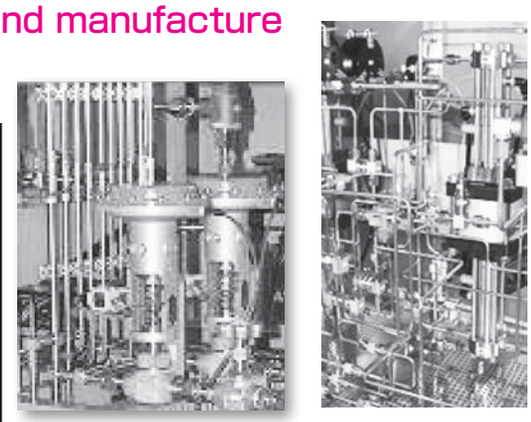


Water generation equipment

We also design and manufacture control systems

Prefab

- Drafting of piping manufacturing drawings
- Procurement of purchased items
- Manufacturing
- Washing/inspection
- We also provide support for certification

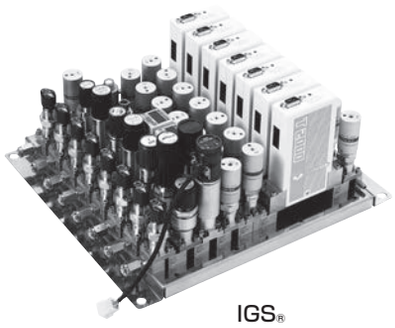


Manufacture of prefabricated piping

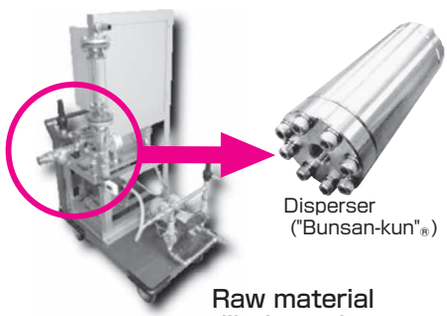
Maintenance On-site construction work

If you have trouble with unit or piping, please contact Fujikin local office by all means!

Taking advantage of our No. 1 record and experience in flow control technology and high-pressure gas minister certification, we help our customers navigate all phases of equipment use, from equipment design and manufacture to startup, modifications, and maintenance!



IGS®
(Integrated Gas System)



Disperser
("Bunsan-kun"®)

Raw material
dilution unit

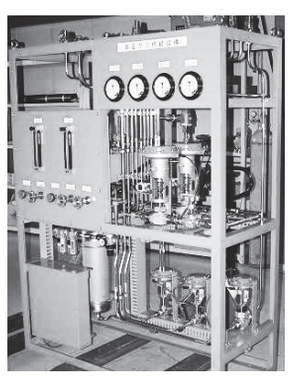
Automatic leak detector

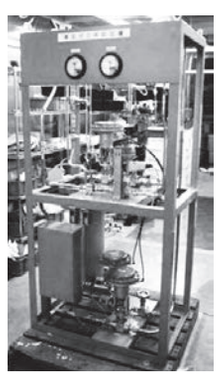
Other examples of equipment manufactured

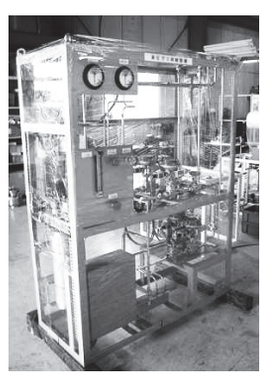
Gas valve stand

Supplies high-pressure gas to manufacturing processes that use a large furnace

Gas supply can be controlled by a control valve (our "MINUCON"® product, with high-pressure gas minister certification). The high-pressure gas piping is manufactured as a high-pressure gas minister certified item (pipes and tubes).







Strong record and cutting-edge manufacturing technology

Taking advantage of the "flow control technology" we have cultivated in many industries, we meet our customers' needs with a strong record of manufacturing accomplishments, including various equipment such as integrated gas systems, water generation equipment and fluid mixing/dispersal units, as well as prefabricated piping.

Support for high-pressure gas certification (piping and tubing, valves, joints) is possible

- We have by far the widest certification range in the industry
  Design pressure : 99.9 MPa (max.),
  temperature range: -269 to +800℃
- Please also consult us about high-pressure/high-temperature piping.

Please inquire as well about manufacture and sales of other equipment that uses your component technology.

Fujikin's Flow Control Device Series

Mass flow controllers

Thermal Series FCST1000

Thermal Series FCST2000

Pressure Series FCS®

Diaphragm type "mini" control valve

MINUCON®

Ultra high pressure hydrogen gas mixing valve device

Electronic valves

PRETRONIC SR100M

High performance small control valve SR100E

PRETRONIC SR100

PRETRONIC AR2000

Manual needle valve

Micro flow regulation valve

Year Month Day

No.

Provider (Manufacture) / (Estimate) Request Sheet

Note: Circle "Manufacture" or "Estimate" above.

Company name					
Address		TEL			
Final customer name					
Address		TEL			
Target equipment name			Desired delivery date		
Product name (model)			Count		
Model *1	☐ Standalone ☐ Power unit		Need safety valve? *1 ☐ Yes (discharge pressure: MPa) ☐ No		
Specifications: Fluid name *2			Required flow	NL／min.	
Discharge pressure (MPa)	MAX. NOR. MIN.		Minimum pressure	Mpa	
Intake pressure (MPa)*3	MAX. NOR. MIN.				
Operating pressure (MPa)	(pressure source pressure)				
Temperature (℃)	MAX. NOR. MIN.				
Viscosity(mPa・s,m²・s⁻¹) *4			Need oil-free? *1	☐ Yes / ☐ No	
Purpose of use *1	☐ ① Airtightness test of product or other item ☐ ② Filling (batch type) ☐ ③ Mobile filling (using gas continuously) ☐ ④ Other (please indicate in detail) ( )				
Documents submitted					
Destination (product and documentation)	〒				

Remarks

Points to note when completing this form

Please circle "Manufacture" or "Estimate" in the Request Form.

*1: Please select (check) the applicable item.
*2: Please indicate the specific name of the liquid or gas.
*3: The processing volume varies by intake pressure, so please indicate this.
*4: Separate specifications apply if the fluid is a liquid of high viscosity.

Other points to note

[ ]

Stamp field

Your company's approval stamp			Sales representative's confirmation								

Fujikin Incorporated

Fujikin Carp Group

URL: https://www.fujikin.co.jp/en/

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