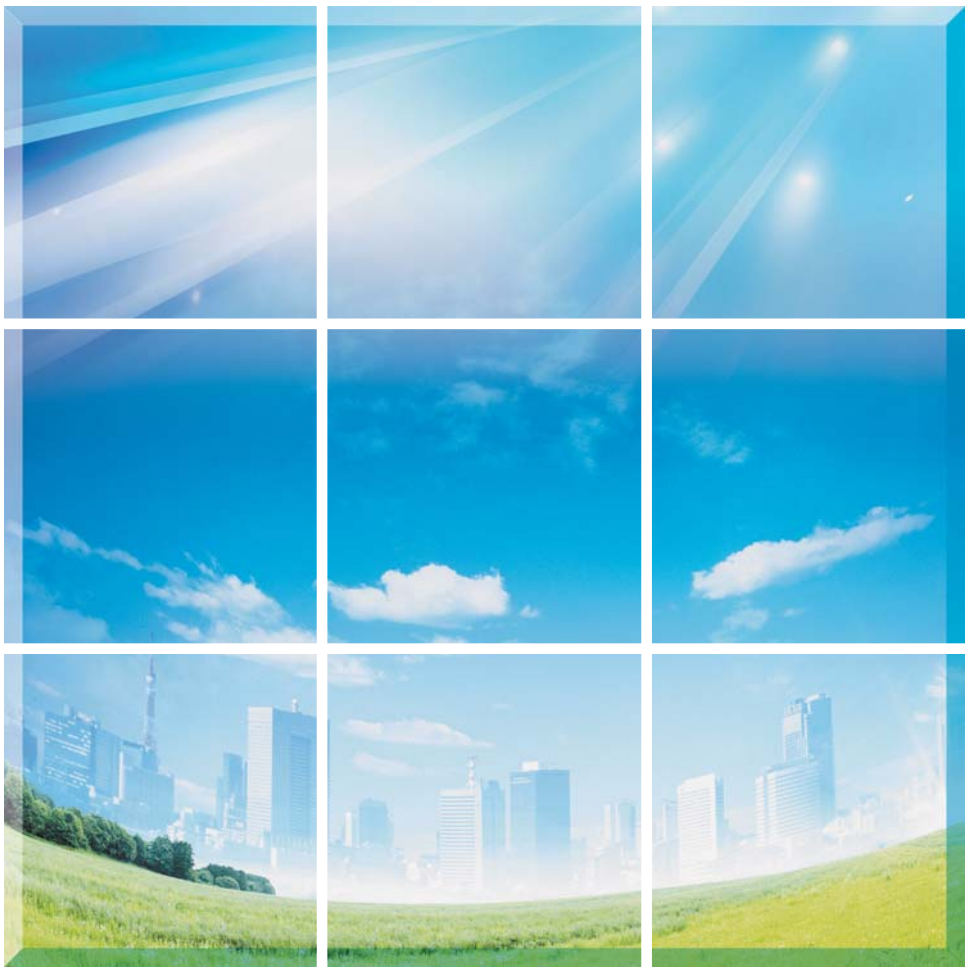
SPRAY GUN

Painting Equipment



MEIJI AIR COMPRESSOR MFG. CO., LTD.

Meiji's Lineup of Advanced Spray Guns

Spray painting directly affects the global environment and there is a great need to make this type of work environmentally friendly. As Japan's oldest manufacturer of spray painting equipment, Meiji combines extensive know-how and the latest technologies with demanding quality control to develop spray guns offering exceptional atomization and adhesion efficiency.
Lightweight and well-balanced, Meiji spray guns are both people-friendly and environment-friendly. A full lineup of models meets virtually any need.

Protecting the Global Environment...

F110/F210 Series

Multipurpose

In addition to a straight pattern for multipurpose painting, this series offers a tulip pattern for both small (F110) and large (F210) high-grade painting applications. Furthermore, a semi-turip pattern is added for F110. Select the perfect model for any type of paint and painting conditions. Designed to maximize the air circuit, these spray guns prevent pressure loss for improved atomization at lower pressure.

F410 Series

Center cup type

This series offers low volume medium pressure (LVMP) in beatiful atomization and better transfer efficiency. Also, beatiful gun body with chrome palting brings long lasting and easy cleaning. Furthermore, easy operation comes true due to reduction of trigger load with lower resistance packing. You can find out a suitable model in many kinds of nozzle bore and air cap.

F-ZERO Series

Automotive refinishing

F-ZERO (Automotive refinishing spray gun) has been developed in the "匠 (TAKUMI) Meister Project" as the successor model of FINER.
What is the heart of an automotive refinishing spray gun? Meiji has pursued the essence and gone back to our basics. We reevaluated the know-how accumulated in the 89 years since we developed the first domestic spray gun in Japan. We went back to starting point and listened to our customers, the masters of paint.
F-ZERO series realize ideal spraying quality by optimizing particle and flow control with our latest technology. We proudly announce F-ZERO series as tools which are uniquely suited for both the techniques and the sensibilities of paint matters.
Paint masters can take their work to an unprecedented level when they work with a tool meticulously crafted for them.

F110L/A110L Series

Low-pressure atomization

This series offers exceptional atomization at a very low air cap internal pressure (0.07MPa for pressure feed and 0.05MPa for suction or gravity feed), featuring less spattering and splashback, reduced paint consumption, and an improved work environment. The series is well-balanced and shaped to fit comfortably in the hand. The beautiful surface finishing provides excellent wear and corrosion resistance.
The Series also includes automatic spray guns. High transfer efficiency and low spattering make them people-friendly and environment-friendly while lowering costs.

MEIJI AIR COMPRESSOR MFG. CO., LTD. founded in 1924 in Japan is well known as a top-brand of air compressor and spray gun in not only domestic market but also overseas one.
We are happy to announce that our new spray gun F410 has launched into the market.
We believe that you will be satisfied with superb quality.


F60 ('60s)


F75 ('70s)


F88 ('80s)


F100 ('90s)


F21 (2000s)


F110 (2010~)


F410 (2012~)

Our Full Lineup of Meiji Spray Guns Meets Virtually Any Need.

Model Number Code Key

F110-G13T

Gun body type
F110 : Small spray guns
F210 : Large spray guns
F410 : Center cup type large spray guns
F-ZERO : Automotive refinishing spray guns
FINER Ⅱ : Automotive refinishing spray guns
F110L : Low-pressure atomization spray guns:
F55 : Compact spray guns

Pattern shape or type

Nozzle bore size
Two-digit number indicates the bore size of the nozzle, omitting the decimal point.

Paint feed system
P : Pressure
S : Suction
G : Gravity

Guide for Selecting a Hand Spray Gun

● : Ideal ○ : Possible

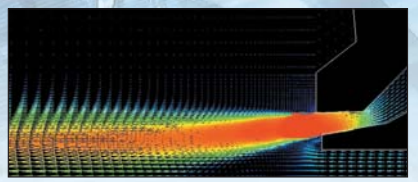
Type of paint / Object painted / Model No.	Urethane			Lacquer enamel		Phthalic lithin	Acrylic	Epoxy	Polyester	Adhesive	Porcelain enamel	Paint viscosity			Size of object painted		
	Auto-mobiles	Metal	Wood	Metal	Wood	Metal	Metal	Metal	Wood	Wood		Low	Medium	High	Small	Medium	Large
F-ZERO-P	●	●	●	●	●		●	●									
F110-P08P	●	●	●	●	●		●	●									
P10P	○	●	●	●	●		●	●									
P13P	○	○	○				●	○									
P15P							●										
F110-S10				●	●		○										
S13	○	○	○	●	●		●	○									
S15	○	○	●	●	●		●	●									
S20					●	○		○									
F110-S10T	●			○	○		○										
S13T	●	●	○	○	○		●	○									
S15T	●	●	●	○	○		●	●									
S20T			●		●			○									
F110-S13ST		●	○	○	○		●	○									
S15ST		●	●	○	○		●	●									
F110-G10				●	●		○										
G13	○	○	○	●	●	○	●	○									
G15	○	○	●	●	●		●	●									
G20			●		●			○									
F110-G10T	●			○	○		○										
G13T	●	●	○	○	○		●	○									
G15T	●	●	●	○	○		●	●									
G20T			●		●			○									
F110-G13ST	●	●	○	○	○		●	○									
G15ST	●	●	●	○	○		●	●									
F110-G08R				○	○												
G25R											●						
F210-P12P	●	●	●	○	○	●	●	●									
P15P			●			●		○	○								
P20P									●								
P25P										●							
F210B-P30P										●							
F210-S15	○	○	●	●	●		●	○									
S20	○	○	●	●	●	●	●	●									
S25						○											
F210B-S30									○	●							
F210-S15T	●	●	●	○	○		●	○									
S20T	○	●	●	○	○	○	●	●									
S25T									●	●							
F-ZERO	●																
FINERII	●																

- For the various types of synthetic resin paints, pay careful attention to the viscosity, drying time and other conditions.
- Replacement of a few parts allows some models to be used for porcelain enamel.

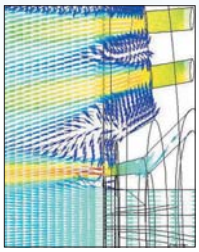
HAND SPRAY GUNS

F110/F-ZERO/F210 Series

State-of-the-art Hand Spray Gun based on customer satisfaction



New atomizing system
Improving the spray finishing by optimum air flow



High transfer efficiency
Heavy duty
Excellent handling

Realizing high quality paint film by optimum spraying paint volume.

Stable air flow vastly realizes the prevention of air pressure lost.

Reduction of paint consumption, and small air consumption in saving energy.

Optimum air flow brings the reduction of paint adhesion to air cap set.

Easy handling with optimum weight balance and light weight.

Reduction of trigger load, and improvement of usability with lower resistance packing.

Waterborne compatibility.

Improvement of parts durability.

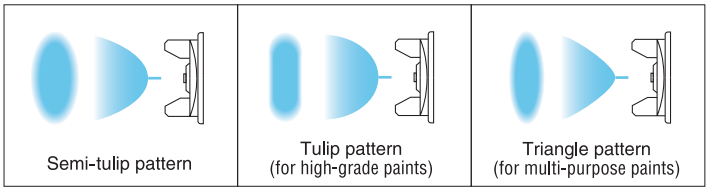
Addition of Semi-tulip pattern.

Each nozzle bore size has its own air cap set.

Air cap sets for suction, gravity, and pressure type are interchangeable in the same fluid nozzle bore size.

Special air cap designed specitifically for touch-up work (F110-S13ST, F110-S15ST, F110-G13ST, F110-G15ST)
Designed specifically for touch-up work to provide the ideal spray for painting small to medium-sized areas.

Special air cap 10PMAS is ideal for spraying pressure at 0.4MPa in the line painting.
Stainless steel passage for waterborne compatibility. (F110-P0810PMAS, F110-P10PMAS)
Designated specially for line painting work to provide beautiful finishing in higher atomization and wider pattern width.



F110 Series (Small spray guns)

Model No.	Paint feed system	Nozzle bore mm	Standard air cap	Spraying pressure MPa	Spraying distance mm	Air consumption L/min	Paint spraying volume mL/min	Maximum effective pattern width mm	Pattern shape	Required compressor output kW	Weight g	Standard paint cup
F110-P08P	Pressure	0.8	08P	0.25	200	220	180	230	Tulip	1.5 or more	293	Paint pressure feed tanks, diaphragm paint pumps
F110-P10P		1.0	10P			230	245	240				
F110-P13P		1.3	13P			280	310	270				
F110-P15P		1.5	15P			290	330	275				
F110-P0810PMAS		0.8	10PMAS	0.4	300	340	175	245			301	
F110-P10PMAS		1.0	10PMAS			340	230	260				
F110-S10	Suction	1.0	10	0.25	200	110	90	130	Triangle	0.4 or more	293	7SB 10SB-2 7SLB 10SLB-2
F110-S13		1.3	13			140	130	160		0.75 or more		
F110-S15		1.5	15			160	160	170				
F110-S20		2.0	20			175	210	185				
F110-S10T	Suction	1.0	10T	0.2	200	170	75*	160*	Tulip	1.5 or more	293	7SB 10SB-2 7SLB 10SLB-2
F110-S13T		1.3	13T			200	125*	180*				
F110-S15T		1.5	15T			215	150*	185*				
F110-S20T		2.0	20T			225	180*	210*				
F110-S13ST	Suction	1.3	13ST	0.25	200	215	150	160	Semi-Tulip	1.5 or more	293	7SB、10SB-2 7SLB、10SLB-2
F110-S15ST		1.5	15ST			225	180	170				
F110-G10	Gravity	1.0	10	0.25	200	110	95	140	Triangle	0.4 or more	293	1G-2U, 2GD, 4GD 4GF-U, 4GB-U 4GPA-U, 4G-TA
F110-G13		1.3	13			140	150	170		0.75 or more		
F110-G15		1.5	15			160	180	180				
F110-G20		2.0	20			175	260	195				
F110-G10T	Gravity	1.0	10T	0.2	200	170	90*	180*	Tulip	1.5 or more	293	1G-2U, 2GD, 4GD 4GF-U, 4GB-U 4GPA-U, 4G-TA
F110-G13T		1.3	13T			200	160*	210*				
F110-G15T		1.5	15T			215	180*	215*				
F110-G20T		2.0	20T			225	235*	240*				
F110-G13ST	Gravity	1.3	13ST	0.25	200	215	180	180	Semi-Tulip	1.5 or more	293	1G-2U, 2GD, 4GD 4GF-U, 4GB-U 4GPA-U, 4G-TA
F110-G15ST		1.5	15ST			225	205	190				
F110-G08R	Gravity	0.8	08R	0.25	200	75	55	35	Round	0.4 or more	293	1G-2U, 2GD, 4GD 4GF-U, 4GB-U 4GPA-U, 4G-TA
F110-G25R		2.5	25R			155	320	50		1.5 or more		

- Paint viscosity should be 20 seconds for lacquer enamel using a Meiji model V-1 viscosity cup.
- Feed pressure should be 0.08MPa for P types.
- The values marked with * should be obtained using automotive refinishing paint with a paint viscosity of 12 seconds and a Meiji model V-1 viscosity cup.
- Air and paint inlet : G1/4

Air cap selection guide for F110 series

Air cap		10	13	15	20	13ST	15ST	10T	13T	15T	20T	08P	10P	13P	15P	08R	25R
Nozzle bore mm	0.8	○	○	○	○	○	○	○	○	○	○	—	○	○	○	—	○
	1.0	—	○	○	○	○	○	—	○	○	○	○	—	○	○	○	○
	1.3	×	—	○	○	—	○	×	—	○	○	×	×	—	○	×	○
	1.5	×	○	—	○	○	—	×	○	—	○	×	×	○	—	×	○
	2.0	×	○	○	—	○	○	×	○	○	—	×	×	○	○	×	○
	2.5	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	—

- Suction and gravity type are interchangeable for pressure type and vice versa.
- Spraying paint volume and air consumption are adjusted by changing air cap set and fluid nozzle.
- Mark ○ stands for interchangeable.

F110-P

F110-S
with 7SB paint cup

F110-G
with 4GD paint cup

F110-GR
with 4GD paint cup

F-ZERO-P

Special air cap Type P comes from automotive refinishing gun F-Zero in finer atomization system. Realizing ideal atomization and wider pattern in smaller air consumption.

F210-P

F210-S
with 10SC paint cup

＊Paint cup should be ordered separately.

F-ZERO Series (Small spray guns)

Model No.	Paint feed system	Nozzle bore mm	Standard air cap	Spraying pressure MPa	Spraying distance mm	Air consumption L/min	Paint spraying volume mL/min	Maximum effective pattern width mm	Pattern shape	Required compressor output kW	Weight g	Standard paint cup
FZERO-P08	Pressure	0.8	Type P	0.2	200	240	160	220	Tulip	1.5 or more	295	Paint pressure feed tanks, diaphragm paint pumps
FZERO-P10		1.0				240	250	280				
FZERO-P13		1.3				230	340	320				

- Paint viscosity should be 20 seconds for lacquer enamel using a Meiji model V-1 viscosity cup.
- Feed pressure should be 0.08MPa for P types.
- Air and paint inlet : G1/4

F210 Series (Large spray guns)

Model No.	Paint feed system	Nozzle bore mm	Standard air cap	Spraying pressure MPa	Spraying distance mm	Air consumption L/min	Paint spraying volume mL/min	Maximum effective pattern width mm	Pattern shape	Required compressor output kW	Weight g	Standard paint cup
F210-P12P	Pressure	1.2	12P	0.25	250	335	530	350	Tulip	2.2 or more	391	Paint pressure feed tanks, diaphragm paint pumps
F210-P15P		1.5	15P			345	880	370				
F210-P20P		2.0	20P			375	1,280	400				
F210-P25P		2.5	25P			410	1,710	420		3.7 or more		
F210B-P30P		3.0	30P			420	1,940	440				
F210-S15	Suction	1.5	15	0.25	250	170	205	220	Triangle	1.5 or more	391	10SC 10SLB
F210-S20		2.0	20			220	285	280		2.2 or more		
F210-S25		2.5	25			275	350	300				
F210B-S30		3.0	30			320	360	300		3.7 or more		
F210-S15T	Suction	1.5	15T	0.25	250	250	220	300	Tulip	2.2 or more	391	10SC 10SLB
F210-S20T		2.0	20T			280	265	310				
F210-S25T		2.5	25T			335	325	320		3.7 or more		

- Paint viscosity should be 20 seconds for lacquer enamel using a Meiji model V-1 viscosity cup.
- Feed pressure should be 0.08MPa for P types.
- The paint spraying volume and maximum effective pattern width indicated for T types should be determined using urethane-based automotive repair paint with a viscosity of 12 seconds and a Meiji model V-1 viscosity cup.
- Air inlet : G1/4, paint inlet : G3/8

Air cap selection guide for F210 series

Air cap		15	20	25	30	15T	20T	25T	12P	15P	20P	25P	30P
Nozzle bore mm	1.2	○	○	○	○	○	○	○	—	○	○	○	○
	1.5	—	○	○	○	—	○	○	○	—	○	○	○
	2.0	×	—	○	○	○	—	○	○	○	—	○	○
	2.5	×	○	—	○	×	○	—	×	×	○	—	○
	3.0	×	×	○	—	×	○	○	×	×	×	○	—

- Suction type in the same nozzle size are interchangeable for pressure type and vice versa.
- Spraying paint volume and air consumption are adjusted by changing air cap set and fluid nozzle.
- Mark ○ stands for interchangeable.

HAND SPRAY GUNS

F410 Series

High performance Well-balanced Beautiful finishing

Beautiful finishing in thin and uniform paint film with wider spraying pattern.

Reduction of spraying air pressure. Only 0.25MPa.

Well balanced body. Weight only 415g.

Ergonomic with curved grip.

Reduction of trigger load with lower resistance packing.

Beautiful gun body with chrome plating brings long lasting and easy cleaning.

Wide range model realizes almost any required spraying.

Stainless steel passage for waterborne compatibility.

CE and Atex certification are approved.

F410-G
with 6G-C paint cup

＊Paint cup should be ordered separately.

Model No.	Paint feed system	Nozzle bore mm	Standard air cap	Spraying pressure MPa	Spraying distance mm	Air consumption L/min	Paint spraying volume mL/min	Maximum effective pattern width mm	Pattern shape	Connection inlet	Weight g	Standard paint cup
F410-G10EV	Gravity	1.0	10EV	0.25	250	255	140	220	Tulip	for air: G1/4 for paint: G3/8	415	6G-C
F410-G12EV		1.2	12EV			255	185	230				
F410-G13EV		1.3	13EV			260	195	235				
F410-G14EV		1.4	14EV			270	205	240				
F410-G15EV		1.5	15EV			280	220	245				
F410-G18EV		1.8	18EV			285	270	285				
F410-G20EV		2.0	20EV			290	275	290				
F410-G25EV		2.5	25EV			335	350	320				
F410-G10EVW	Gravity	1.0	10EVW	0.25	250	295	140	250	Tulip	for air: G1/4 for paint: G3/8	415	6G-C
F410-G12EVW		1.2	12EVW			295	185	270				
F410-G13EVW		1.3	13EVW			305	200	280				
F410-G14EVW		1.4	14EVW			305	210	285				
F410-G15EVW		1.5	15EVW			305	225	290				

● Paint viscosity should be 15 seconds for two-component urethane paint for automotive refinishing using a Meiji model V-1 viscosity cup.

Model No.	Paint feed system	Nozzle bore mm	Standard air cap	Spraying pressure MPa	Air consumption L/min	Paint spraying volume mL/min	Maximum effective pattern width A mm	Maximum effective pattern width B mm	Pattern shape	Connection inlet	Weight g	Standard paint cup
F410-G14SP	Gravity	1.4	SP	0.2	272	190	230	320	Tulip	for air: G1/4 for paint: G3/8	415	6G-C

● Paint viscosity shoud be 20 seconds for lacquer enmel using a Meiji model V-1 viscosity cup.
● Maximum effective pattern width ; A : Spraying distance 130mm. B : Spraying distance 200mm.

AUTOMOTIVE REFINISHING SPRAY GUNS

FINER Series

finer
Light weight and balanced concept Spray Gun

FINERII PLUS

Fine atomization and flat surfaces

Evolution model of FINERII.

It is possible to spray wide range between touch-up & block paint due to adjusting spraying pattern width. New design of air cap and fluid nozzle realizes higher atomization.

FINERII PLUS
with 4GF-U paint cup

FINER SPOT

Ideal for touch-up in small area. Simple and compact body realizes light weight.

FINER SPOT-G12
with 1G-2U paint cup

＊Paint cup should be ordered separately.

Model No.	Paint feed system	Nozzle bore mm	Spraying pressure MPa	Spraying distance mm	Air consumption L/min	Paint spraying volume mL/min	Maximum effective pattern width mm	Pattern shape	Required compressor output kW	Weight g	Standard paint cup
FINERII PLUS	Gravity	1.4	0.2	200	220	140	300	Tulip	1.5 or more	295	1G-2U, 2GD 4GD, 4GF-U, 4GB-U 4GPA-U, 4G-TA
FINER SPOT-G12		1.2	0.15	150	80	75	190	Tulip	0.75 or more	167	

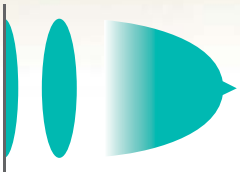
● Paint viscosity should be 12 seconds for high solid 1k base using Meiji model V-1 viscosity cup. ● Air and paint inlet : G1/4.

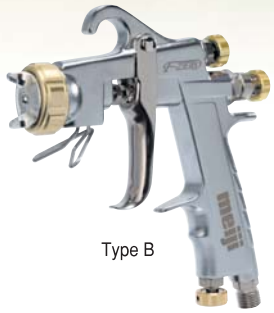
AUTOMOTIVE REFINISHING SPRAY GUNS

F-ZERO Series

F-ZERO Type B *Thick gloss paint layer*

"Type B" offers smooth surfaces, mirror finishes and luster. It is designed to maximize the performance in the painting style that the thicker layers of coating (i.e., clear coat, solid coat and solid clear coat) utilize by requiring fewer passes of paint.
High paint spraying volume and the finest level of atomization are harmonized in Type B.

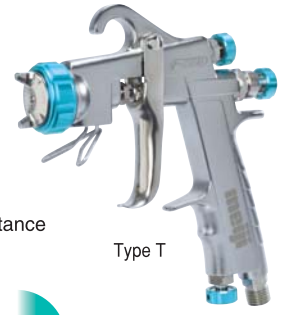



Type B

- Thick gloss layer covering long range
- Ideal for clear and solid coat
- Natural tulip (U shaped) spray pattern

F-ZERO Type T *Fine atomization and flat surfaces*

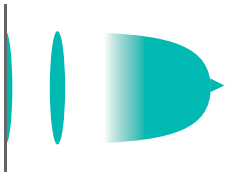
"Type T" creates the finest atomization and less irregular surfaces. It is suitable for metallic and pearl base coat paints which require a painter to create a high luminance mirror finish. It is designed for painters who prefer to spray from a short distance in order to create a thinner layer of metallic or pearl paint.

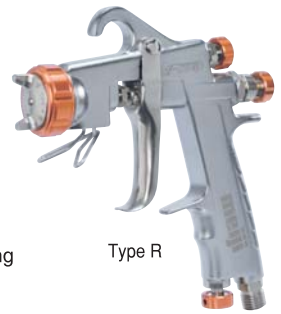

Type T

- Easy operation to overlaying several layers of paint from short spraying distance
- Suitable for creating thin mirror finish
- Tulip (Sharp U shaped) spray pattern
- Realize fine atomization at low pressure and volume
- Suitable for tint gradation spray

F-ZERO Type R *Thin mirror finish*

"Type R" is a SVLP (Small Volume Low Pressure) spray gun. The spraying pattern shape features color reproducibility, which is required for a color base coat, and granular quality for metallic and pearl base coats.
The ease of use of the Type R makes it suitable for users at all levels of spraying skill.




Type R

- Compact pattern shape with clear outline realizes easy operation to create even mirror finish when spraying distance is unstable.
- Natural tulip (U shaped) spray pattern contributes to easy overlay in any precision or rough adjustment.

F-ZERO-S Type T *Fine atomization and flat surfaces*

Suction type

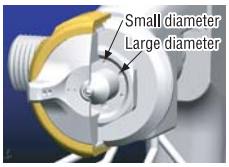
This is a special body circuit for suction type, and it realizes same performance as gravity type. It is possible to use large paint cup and to paint wide area easily.


F-ZERO-S Type T

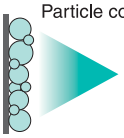
＊Paint cup should be ordered separately.

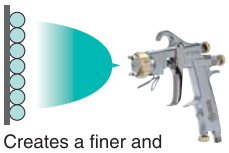
PARTICLE CONTROL : Type B Industry's First

Deliberate irregular-sized air ports vary speed and amount of air creating a turbulent air flow:
This enhances the shearing power for atomization.



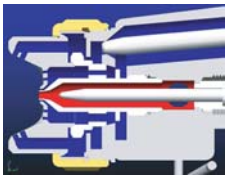
Particle comparison

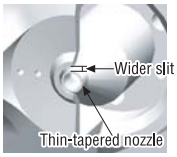

Conventiolal model


Creates a finer and homogeneous spray mist.

FLUID CONTROL : Type B

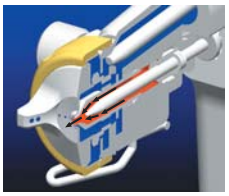
Type B is equipped with 1.6mm fluid nozzle, which is wider for its fluid spraying volume(equivalent to the volume for conventional 1.4mm fluid nozzle). Smaller fluid spraying volume for wider bore creates a smooth delivery for high viscosity fluid for clear coating. Well-controlled spraying nozzle tip is tapered and long in order to gain spraying air volume by making the slit between the nozzle and air cap wider. The long nozzle tip prevents fluid puddles.





ECO-FRIENDLY : Type B Industry's First

Type B is equipped with a 1.6mm bored nozzle which reduces fluid resistance in order to stabilize fluid spraying volume while using high viscosity fluid.
High viscosity fluid can be delivered smoothly through the wider fluid circuit without dilution. This leads to reduction of paint thinner and contributes to VOC emission reduction. Type B is designed to comply with environmentally responsible fluids.



COMPATIBLE with WATERBORNE Industry's First

Mirror polished stainless steel in the nipple and nozzle passage realizes smoother delivery of fluid. This leads to improvement in both washability and the prevention of paint adhesion.

Mirror polish


Fluid nozzle


Nipple

GUN STAND

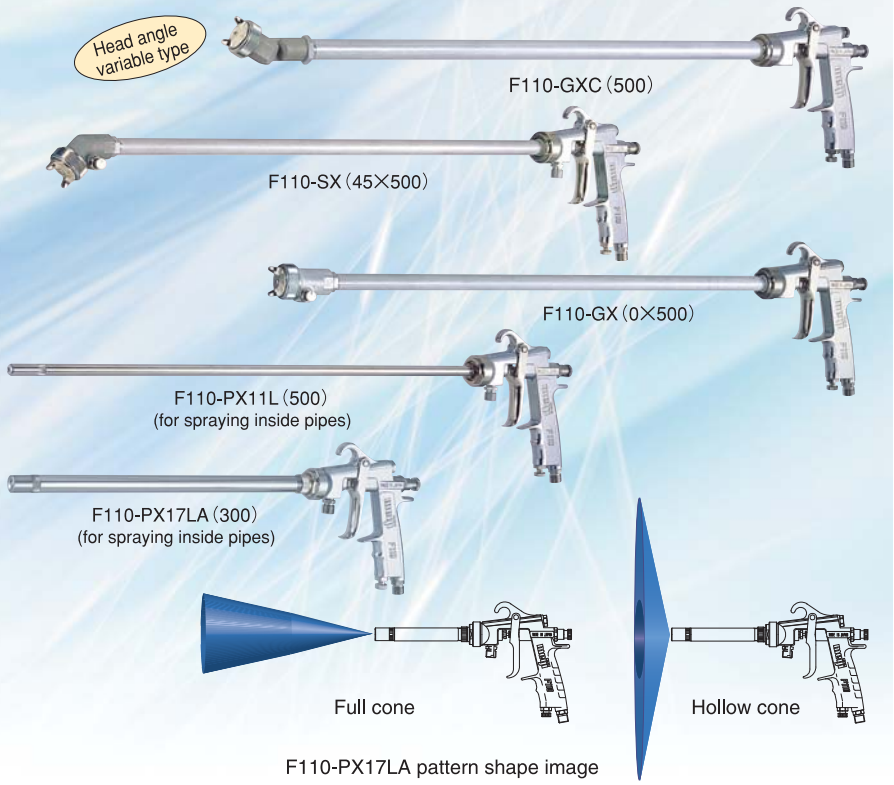
Our original gun stand is equipped, and it is possible for gun to stand by itself.
Also, with preventing the scratches of nozzle tip and air cap, it avoids the deformation of spraying pattern.

Model No.	Paint feed system	Nozzle bore mm	Spraying pressure MPa	Spraying distance mm	Air consumption L/min	Paint spraying volume mL/min	Maximum effective pattern width mm	Pattern shape	Required compressor output kW	Weight g	Standard paint cup
F-ZERO Type B	Gravity	1.6	0.2	200	215	190	280	Natural Tulip	1.5 or more	295	1G-2U, 2GD, 4GD 4GF-U, 4GB-U 4GPA-U, 4G-TA
F-ZERO Type T		1.4		200 (150)	196	140	260 (220)	Tulip			
F-ZERO Type R				200	180	145	250	Natural Tulip			
F-ZERO-S Type T	Suction	1.4	0.2	200	230	120	220	Tulip	1.5 or more	295	7SB, 7SLB 10SB-2,10SLB-2

- Paint viscosity should be 12 seconds for high solid 1k base using Meiji model V-1 viscosity cup.
- Fluid adjusting valve opening position : Open 4 turns (counter clockwise). ● Air and paint inlet : G1/4.

EXTENSION SPRAY GUNS

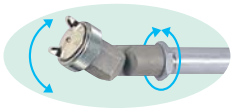
F110 Series



F110-PX17LA pattern shape image

HEAD ANGLE VARIABLE TYPE

The head angle can be adjusted 360° by simply loosening the base nut. Besides in head angle variable type, the head angle can be adjusted from 90° to −90° by loosening the top bolt.



The dual pipe system employing separate pipes for the air and paint enhances compactness and durability.

As the air circuit for spraying is not same as the one for spraying pattern, you can adjust the spraying pattern at hand.

HEAD ANGLE FIXED TYPE

You can choose head angle 0° or 45°, and only head angle 45° can be adjusted 360° by simply loosening the base nut.

INSIDE PAINT TYPE

Model **F110-PXL** is equipped with a special nozzle and cap developed for painting the inside surface of pipes, making it ideal for painting the inside of long pipes with a small inner diameter.

Model **F110-PX17LA** can spray both **full cone and hollow cone** in adjusting the position of pipe place, and it is suitable for sparying inside of the pipe in less than ϕ300mm.

Model No.	Type	Paint feed system	Nozzle bore mm	Spraying pressure MPa	Spraying distance mm	Air consumption L/min	Paint spraying volume mL/min	Maximum effective pattern width mm	Required compressor output kW	Head angle and inner dia. into which head can be inserted mm	Pipe length mm	Weight g
F110-PXC10P	Head angle variable type extension spray gun	Pressure	1.0	0.25	200	160	190	210	1.5	0° : 40 90° : 60	500 1,000*	620
F110-PXC13P			1.3			175	235	220				
F110-SXC15		Suction	1.5			125	60	110	0.75		500*	
F110-GXC15		Gravity					65	115				
F110-PX10P	Extension spray gun	Pressure	1.0	0.25	200	180	245	230	1.5	0° : 40 45° : 55	500 1,000 1,500 1,800*	555
F110-PX13P			1.3			195	310	240				
F110-SX15		Suction	1.5			140	120	150	0.75		500*	555
F110-GX15		Gravity					140	160				
F110-PX11L	Pipe inside spraying extension gun	Pressure	1.5	0.25	200	70	120	60	0.75	0° : 13 (straight only)	500 1,000 1,500 1,800*	550
F110-PX17LA Full cone		Pressure	1.3	0.3	150	180	130	100	1.5	0° : 20 (straight only)	500 1,000 1,500 1,800*	710
Hollow cone					30		300(130)	300(250)				

- Pipe length with mark * is the maximum length, and it is possible to make the pipe length in 50mm measure within maximum length.
- Use of the longer pipe will result in reducing paint spraying volume.
- Paint viscosity should be 20 seconds for lacquer enamel using a Meiji model V-1 viscosity cup, and the feed pressure for PX models should be 0.08MPa.
- Nozzle bore of 0.8mm and 1.5mm for PX type is available. Nozzle bore of 1.0mm, 1.3mm and 2.0mm for SX and GX types is available.
- For Model F110-PX17LA ; Paint viscocity should be 12 seconds, 20 seconds in parenthesis, for lacquer enamel using a Meiji model V-1 viscosity cup, and the feed pressure should be 0.08MPa, 0.03MPa in parenthesis. ● Air and paint inlet : G1/4 ● Spcifications is for spray guns of pipe length 500mm.

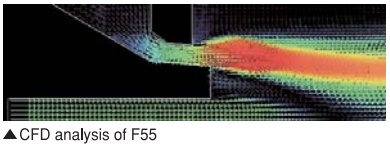
PIECE GUNS, COMPACT SPRAY GUNS

MP/F55 Series

F55 series

By improvement of atomizing performance at low pressure, higher performance and further energy saving are achieved.

Optimum air cap and fluid nozzle design enabling both improvement of atomizing and saving energy.



▲CFD analysis of F55

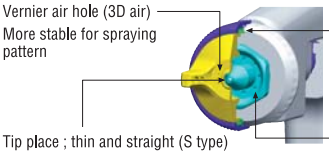
Model No.	Paint feed system	Nozzle bore mm	Spraying pressure MPa	Air consumption L/min	Pattern shape	Required compressor output kW	Weight g	Paint cup capacity mL
MP-2	Gravity	0.2	0.15	5	Round	0.1～0.2	65	1
MP-3		0.3					95	7

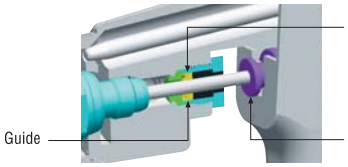
Model No.	Paint feed system	Nozzle bore mm	Spraying pressure MPa	Spraying distance mm	Air consumption L/min	Paint spraing volume mL/min	Maximum effective pattern width mm	Pattern shape	Required compressor output kW	Weight g	Paint cup capacity mL
F55-G05R	Gravity	0.5	0.1～0.3	100～150	19～43	21～26	～25	Round	0.2～0.4	171	150 (1G-2)
F55-G08R		0.8				46～64	～35				
F55-G05		0.5	0.1～0.2		43～66	17～22	～90	Flat (triangle)		169	
F55-G08		0.8				34～47	～120				

- Paint viscosity should be 12 seconds for lacquer enamel using a Meiji model V-1 viscosity cup. ● Air and paint inlet : G1/4

LOW-PRESSURE ATOMIZATION HAND SPRAY GUNS

F110L Series





∗Paint cup should be ordered separately.

Use of 3D air
Exceptional atomization at a very low air cap internal pressure (0.07MPa for pressure & suction type, and 0.05MPa for gravity type).

3D air, whose air flow direction is diagonal, realizes more stable spraying pattern.

Higher transfer efficiency, low spattering, and enviroment-friendly while loweirng costs.
Lower air pressure design relaizes saving by about 30% in the air consumption and improving by about 10% of transfer efficiency. Furthermore, less spattering paint brings less paint volume and improvement of working enviroment.

Waterborne compatiblity
Stainless steel passage for waterborne compatiblity.

Beatiful finishing
The use of nickel plating brings improvement of wear and corrosion resistance.

Easy-to-use
The use of U-packing in the needle packing place brings free-maitenace, such as no-need retorquing etc.

Concept and features of low-pressure atomizing spray guns
With a low-pressure atomizing spray gun, the air cap internal pressure is low and the cap air nozzle bore is large, so the airflow velocity drops markedly immediately after the paint is released into the atmosphere.

This slows down the atomization rate, reducing splashback and realizing the high transfer efficiency.

As a result, paint consumption is reduced by about 15 to 30% compared with a multipurpose spray gun (Meiji product comparison).
Reducing spattering and splashback not only creates a better work environment, but also reduces spray booth maintenance.

Model No.	Paint feed system	Nozzle bore mm	Spraying pressure MPa	Air pressure inside cap MPa	Spraying distance mm	Air consumption L/min	Paint spraying volume mL/min	Maximum effective pattern width mm	Pattern shape	Required compressor output kW	Weight g	Standard paint cup
F110L-P08LP	Pressure	0.8	0.18	0.07	200	345	165	230	Tulip	3.7 or more	308	Paint pressure feed tanks, diaphragm paint pumps
F110L-P10LP		1.0					225	250				
F110L-P13LP		1.3					320	270				
F110L-S20LS	Suction	2.0	0.15	0.07	200	265	110	270	Tulip	3.7 or more	308	7SB, 10SB-2 7SLB
F110L-G13LS	Gravity	1.3	0.12	0.05	200	235	100	260	Tulip	3.7 or more	308	1G-2U, 2GD, 4GD 4GF-U, 4GB-U 4GPA-U, 4G-TA
F110L-G15LS		1.5					115	270				

● Paint viscosity should be 20 seconds for lacquer enamel using a Meiji model V-1 viscosity cup. ● Feed pressure should be 0.08MPa for P types. ● Air and paint inlet : G1/4

LOW-PRESSURE ATOMIZATION AUTOMATIC SPRAY GUNS

A110L Series

Use of 3D air
Exceptional atomization at a very low air cap internal pressure of 0.07MPa.

3D air, whose air flow direction is diagonal, realizes more stable spraying pattern.

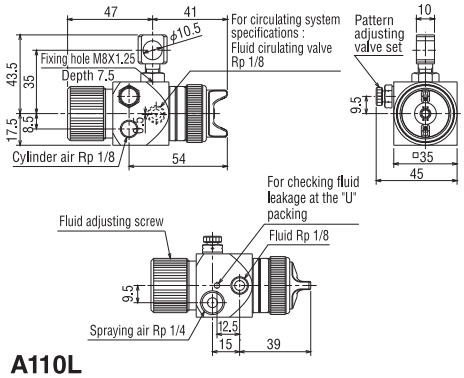
Higher transfer efficiency, low spattering, and environment-friendly while lowering costs.
Lower air pressure design realizes saving by about 30% in the air consumption and improving by about 10% of transfer efficiency. Furthermore, less spattering paint brings less paint volume and improvement of working environment.

A110L-P

Remote control compatible
Spraying pattern can be adjusted by remote control.

Tube fixtures
Commercially available fixtures are used for the air and paint connection ports for easier use.

Dimensions (mm)



A110L
For the control circuit, refer to Ⓑ at the bottom of page 10.

Model No.	Nozzle type	Paint feed system	Nozzle bore mm	Spraying pressure MPa	Air pressure inside cap MPa	Spraying distance mm	Air consumption L/min	Paint spraying volume mL/min	Maximum effective pattern width mm	Weight g
A110L-P06LP	F110L	Pressure	0.6	0.18	0.07	200	345	85	190	206
A110L-P08LP			0.8					165	230	
A110L-P10LP			1.0					225	250	
A110L-P13LP			1.3					320	270	

● Paint viscosity should be 20 seconds for lacquer enamel using a Meiji model V-1 viscosity cup. ● Feed pressure should be 0.08MPa.
● Circulation type is available. Please specify the circulation type on your order.

AUTOMATIC SPRAY GUNS

FA110/FA210/A110/A210 JA/SA/A55/AHS2A Series

New atomization system (FA110, FA210, A110, A210, SA110)
Realizing high quality paint film by optimum spraying paint volume.

Lightweight and compact
The lightweight, compact design allows installation even in confined spaces.

Highly durable non-lubricated type (FA110, FA210, A110, A210)
The use of a special "U" needle packing on the paint line improves durability and eliminates any need for lubrication. Durability is further improved by use of a Teflon needle packing on the air line.

Adaptable for remote control (A110, A210) (This performance is option in FA type.)
The pattern can be adjusted (opened and closed) by remote control using compressed air.

Stainless steel passage for waterborne compatibility (FA110, FA210)

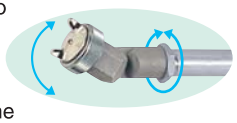
Type	Model No.	Nozzle type	Paint feed system	Nozzle bore mm	Standard air cap	Spraying pressure MPa	Spraying distance mm	Air consumption L/min	Paint spraying volume mL/min	Maximum effective pattern width mm	Pattern shape	Weight g	Main application
With a built-in spraying air valve	**FA110-P08P**	F110	Pressure	0.8	08P	0.25	200	220	180	230	Tulip	504	Small object, low viscosity, top coating
	FA110-P10P			1.0	10P			230	245	240			
	FA110-P13P			1.3	13P			280	310	270			Small object, low and middle viscosity, top coating
	FA110-P15P			1.5	15P			290	330	275			
	FA210-P12P	F210	Pressure	1.2	12P	0.25	250	335	530	350	Tulip	515	Large object, low viscosity, top coating
	FA210-P15P			1.5	15P			345	880	370			Large object, middle viscosity, surface and top coating
	FA210-P20P			2.0	20P			375	1,280	400			
	FA210-P25P			2.5	25P			410	1,710	420			Large object, high viscosity
Multi-purpose	**A110-P08P**	F110	Pressure	0.8	08P	0.25	200	220	180	230	Tulip	191	Small object, low viscosity, top coating
	A110-P10P			1.0	10P			230	245	240			
	A110-P13P			1.3	13P			280	310	270			Small object, medium viscosity, surface and top coating
	A110-P15P			1.5	15P			290	330	275			
	A210-P12P	F210	Pressure	1.2	12P	0.25	250	335	530	350	Tulip	248	Large object, low viscosity, top coating
	A210-P15P			1.5	15P			345	880	370			Large object, medium viscosity, surface and top coating
	A210-P20P			2.0	20P			375	1,280	400			
	A210-P25P			2.5	25P			410	1,710	420			Large object, high viscosity
Semi-automatic	**JA110-P08P**	F110	Pressure	0.8	08P	0.25	200	220	180	230	Tulip	143	Small object, low viscosity
	JA110-P10P			1.0	10P			230	245	240			
	JA110-P13P			1.3	13P			280	310	270			Small object, middle viscosity
	JA110-P15P			1.5	15P			290	330	275			
	SA110-P08P	F110	Pressure	0.8	08P	0.25	200	220	180	230	Tulip	108	Low viscosity
	SA110-P10P			1.0	10P			230	245	240			
	SA110-P13P			1.3	13P			280	310	270			Middle viscosity
	SA110-P15P			1.5	15P			290	330	275			
Compact	**A55-P05R**	F55	Pressure	0.5	—	0.2	100～150	30	100	～25	Round	79	Small object, low viscosity
	A55-P08R			0.8					240	～35			
	A55-P05			0.5				66	100	～90	Triangle	71	
	A55-P08			0.8					240	～120			
High viscosity	**AHS2A-P30**	HS2	Pressure	3.0	—	0.29	—	160	—	260	Triangle	480	Large object, high viscosity
	AHS2A-P40			4.0				180					

- For 110 and 210; Paint viscosity should be 20 seconds for lacquer enamel using a Meiji model V-1 viscosity cup.
- For AHS2A; Paint viscosity should be 22 seconds for lacquer enamel using a Meiji model V-1 viscosity cup.
- Feed pressure should be 0.08MPa for 110 and 210 types, 0.1MPa for AHS type.
- Circulation type is available in FA110, FA210, A110, A210 and AHS2A. Please specify the circulation type on your order.

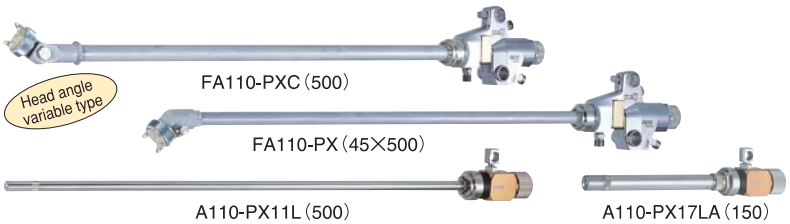
EXTENSION AUTOMATIC SPRAY GUNS

FA110/A110 Series

The head angle can be adjusted 360° by simply loosening the base nut. Besides in head angle variable type, the head angle can be adjusted from 90° to −90° by loosening the top bolt. **(Head angle variable type only)**



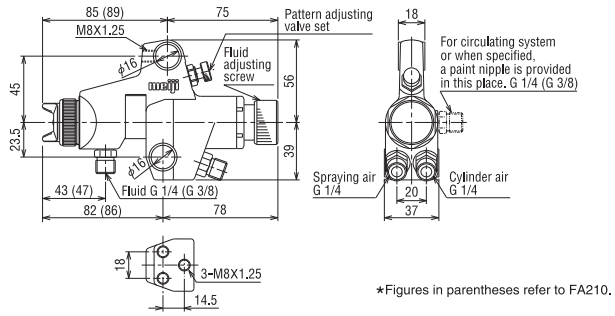
In A110 type, by making another pattern air circuit, you can adjust the spraying pattern by remote control. **(This performance is option in FA type.)**



Type	Model No.	Type	Paint feed system	Nozzle bore mm	Standard air cap	Spraying pressure MPa	Spraying distance mm	Air consumption mm	Paint spraying volume mm	Maximum effective pattern width mm	Head angle and inner dia. into which head can be inserted mm	Pipe length mm	Weight g
With a built-in spraying air valve	**FA110-PXC10P**	Head angle variable type extension automatic spray gun	Pressure	1.0	10P	0.25	200	160	190	210	0° : 40 90° : 60	500 1,000*	834
	FA110-PXC13P			1.3	13P			175	235	220			
	FA110-PX10P	Extension automatic spray gun	Pressure	1.0	10P	0.25	200	180	245	230	0° : 40 45° : 55	500 1,000 1,500 1,800*	784
	FA110-PX13P			1.3	13P			195	310	240			
	FA110-PX11L	Pipe inside extension automatic spraying gun	Pressure	1.5	—	0.25	200	70	120	60	0° : 13 (straight only)		760
	FA110-PX17LA Full cone / Hollow cone			1.3	—	0.3	150 30	180	130 300(130)	100 300(250)	0° : 20 (straight only)		946
Multi-purpose	**A110-PXC10P**	Head angle variable type extension automatic spray gun	Pressure	1.0	10P	0.25	200	160	190	210	0° : 40 90° : 60	500 1,000*	534
	A110-PXC13P			1.3	13P			175	235	220			
	A110-PX10P	Extension automatic spray gun	Pressure	1.0	10P	0.25	200	180	245	230	0° : 40 45° : 55	500 1,000 1,500 1,800*	464
	A110-PX13P			1.3	13P			195	310	240			
	A110-PX11L	Pipe inside extension automatic spraying gun	Pressure	1.5	—	0.25	200	70	120	60	0° : 13 (straight only)		440
	A110-PX17LA Full cone / Hollow cone			1.3	—	0.3	150 30	180	130 300(130)	100 300(250)	0° : 20 (straight only)		633

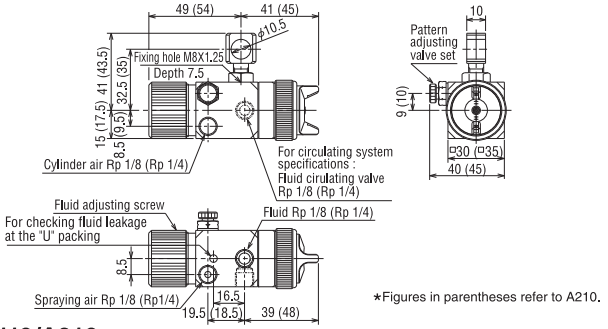
- Pipe length with mark * is the maximum length, and it is possible to make the pipe length in 50mm measure within maximum length.
- Use of the longer pipe will result in reducing paint spraying volume.
- Paint viscosity should be 20 seconds for lacquer enamel using a Meiji model V-1 viscosity cup. Feed pressure should be 0.08MPa.
- For model PX17LA; Paint viscosity should be 12 seconds, 20 seconds in parenthesis, and the feed pressure should be 0.08MPa, 0.03MPa in parenthesis.
- Nozzle bore of 0.8mm and 1.5mm for PX type is available.
- Spcifications is for spray guns of pipe length 500mm.

Dimensions (mm)



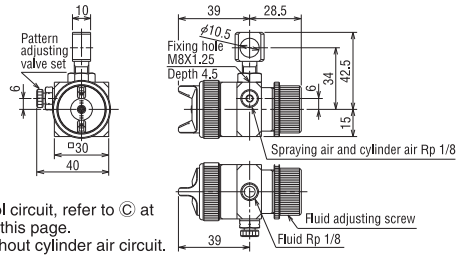
*Figures in parentheses refer to FA210.

FA110/FA210 For the control circuit, refer to Ⓐ at the bottom of this page.

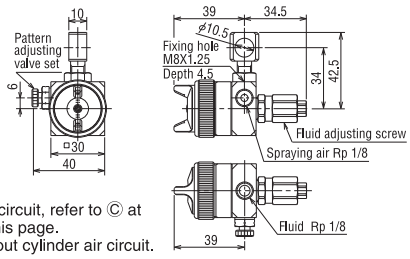


*Figures in parentheses refer to A210.

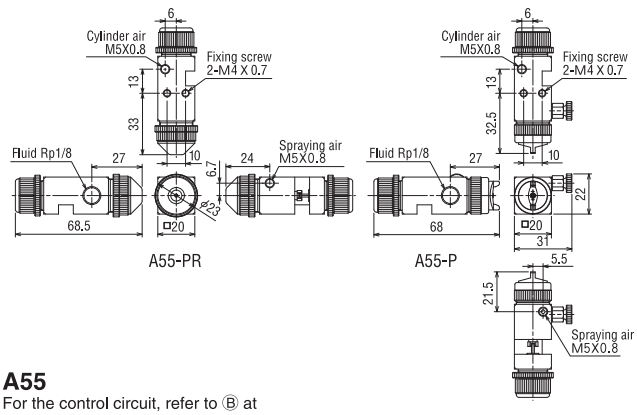
A110/A210 For the control circuit, refer to Ⓑ at the bottom of this page.



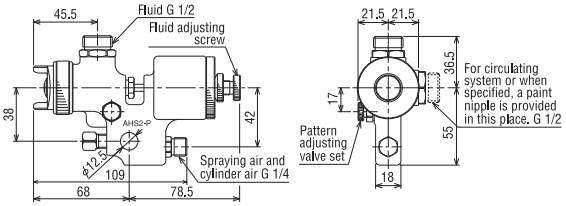
JA110
For the control circuit, refer to Ⓒ at the bottom of this page.
Remarks; Without cylinder air circuit.



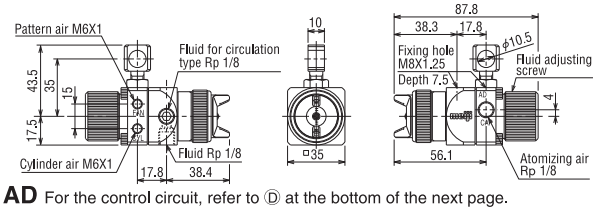
SA110
For the control circuit, refer to Ⓒ at the bottom of this page.
Remarks; Without cylinder air circuit.



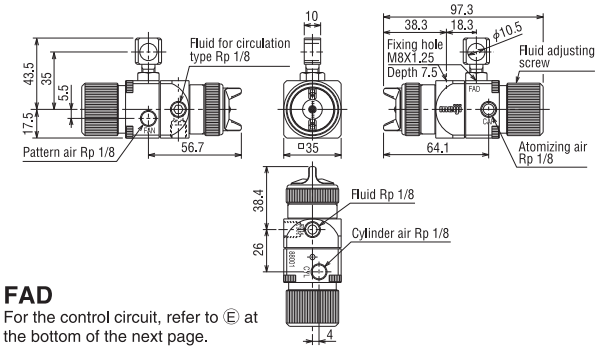
A55
For the control circuit, refer to Ⓑ at the bottom of this page.



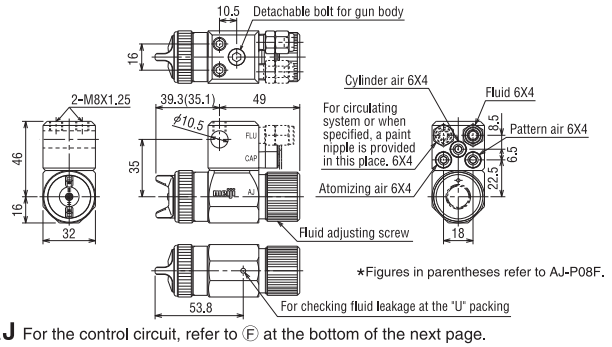
AHS2A For the control circuit, refer to Ⓒ at the bottom of this page.



AD For the control circuit, refer to Ⓓ at the bottom of the next page.



FAD
For the control circuit, refer to Ⓔ at the bottom of the next page.

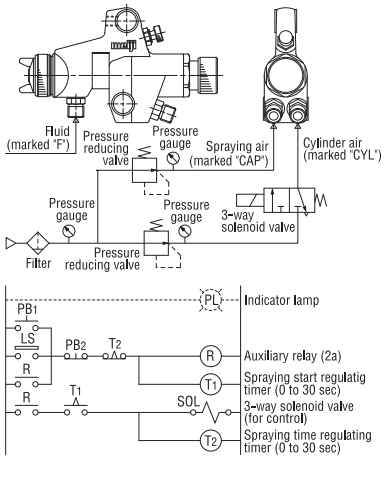


*Figures in parentheses refer to AJ-P08F.

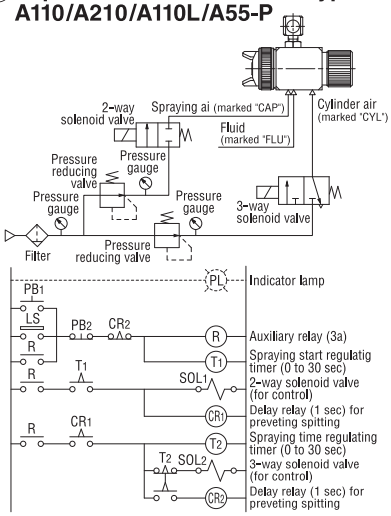
AJ For the control circuit, refer to Ⓕ at the bottom of the next page.

Control circuit

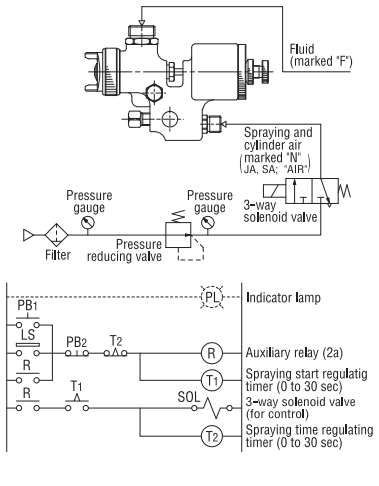
Ⓐ Built-in spraying air valve type FA110/FA210-P



Ⓑ Separate control air circuit type A110/A210/A110L/A55-P



Ⓒ Combined control air circuit type AHS2A/JA110/SA110-P



SEPARATION TYPE AUTOMATIC SPRAY GUNS

AD/FAD Series

Short-distance painting
With taper structure of the nozzle tip, AD-P and FAD are applicable to short-distance painting, which enable high atomization and low spattering performance with a small paint spraying volume and small air consumption, and provide high-quality coating film.

Remote operation
Atomization air and pattern air are supplied via separate circuits. This structure enables remote operation of individual circuits.

Maintenance efficiency improvement
The spray gun is divided into three sections: cap base, gun body and cylinder body. This structure simplifies parts replacement, and enables the body (paint circuit) to be washed after immersed in solvent, resulting in maintenance efficiency improvement. Disassembling work is easy, without necessity of a special tool.

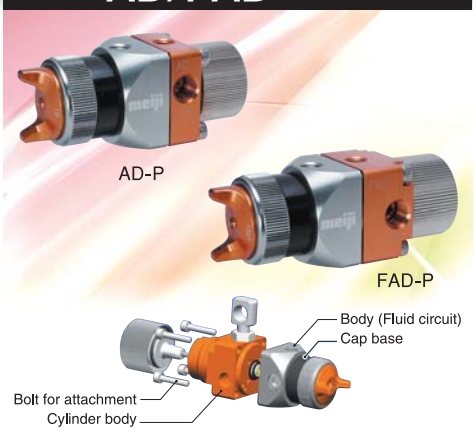
Change to SUS circuit for liquid contact area
A SUS circuit can be used for the liquid contact area by changing the body.

Compatibility
Since the cap base and the body are applicable to both AD-P and FAD, AD can be changed to FAD by replacing a set of the cylinder body.

Built-in atomization air valve with remarkably lighter weight and smaller body (FAD-P)
The operation circuit has been simplified, resulting in higher operability.

FAD-P provides 40% lighter weight and 24% smaller size than our conventional model (FA), and provides an enlarged teaching range.

Compatibility with circulation type
When the plug and plug packing are removed from the aperture of the circulation circuit, these models can serve as the circulation type.



Model No.	Nozzle type	Nozzle bore mm	Atomizing air pressure MPa	Pattern air pressure MPa	Spraying distance mm	Fluid feed pressure MPa	Air consumption L/min	Paint spraying volume mL/min	Maximum effective pattern width mm	Weight g
AD-P10	F110	1.0	0.25	0.25	200	0.03	110	100	145	180
AD-P10-SU										255
AD-P13ST		1.3				0.04	215	180	180	180
AD-P13ST-SU										255
FAD-P10	F110	1.0	0.25	0.25	200	0.03	110	100	145	220
FAD-P10-SU										295
FAD-P13ST		1.3				0.04	215	180	180	220
FAD-P13ST-SU										295

- Paint viscosity should be 20 seconds for lacquer enamel using a Meiji model V-1 viscosity cup.
- FAD type is built-in air valve for atomizing air. ● Dimensions are shown at page 10.

JOINT BOX TYPE AUTOMATIC SPRAY GUNS

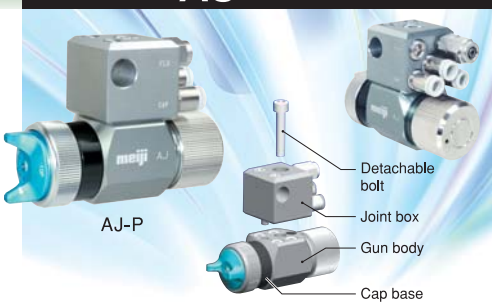
AJ Series

Adoption of new type of nozzle and cap
With taper structure of the nozzle tip, AJ-P enables high atomization and low spattering, with a small spraying volume, resulting in maintenance and improvement of economical effect, environmental conservation and continuous painting performance.

Maintenance efficiency improvement and attaching/detaching time reduction
The gun body and the joint box can be attached and detached with a single bolt, and the joint and hose need not be removed from the gun body, thus enabling easy positioning when the joint box is re-mounted after maintenance. No special tool is required for all maintenance step work.

High transfer efficiency for flat surface finish (AJ-P08F)
Reduce overspray and paint adhesion on air cap by obtuse angle low air horn.
Low spraying pressure and gentle air flow create flat and less irregular surface.


AJ-PF

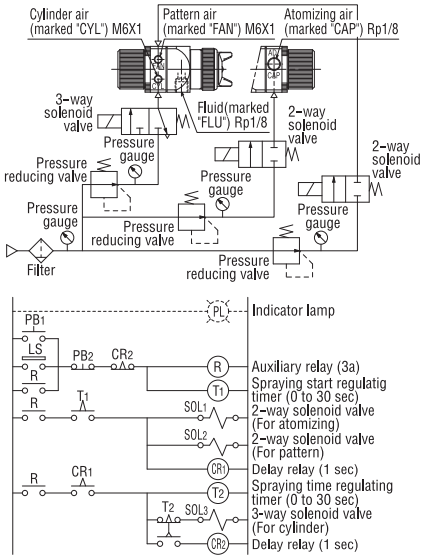


Model No.	Nozzle type	Nozzle bore mm	Atomizing air pressure MPa	Pattern air pressure MPa	Spraying distance mm	Fluid feed pressure MPa	Air consumption L/min	Paint spraying volume mL/min	Maximum effective pattern width mm	Weight g
AJ-P08F	F110	0.8	0.15	0.15	150	0.04	230	100	90	285
AJ-P08P		0.8	0.25	0.25	200	0.08	220	180	230	
AJ-P10P		1.0					230	245	240	
AJ-P13P		1.3					280	310	270	
AJ-P15P		1.5					290	330	275	

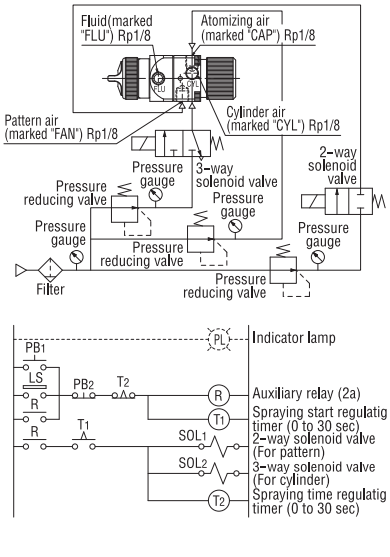
- Paint viscosity should be 20 seconds for lacquer enamel using a Meiji model V-1 viscosity cup.
- Dimensions are shown at page 10. ● Circulation type is available. Please specify the circulation type on your order.

Control circuit

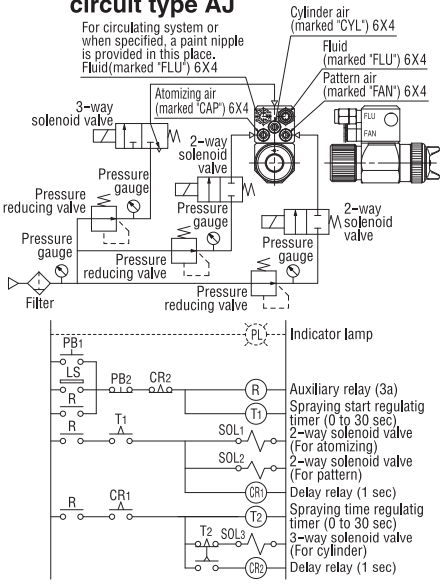
(D) Cylinder air circut & pattern air circuit type AD



(E) Built-in air valve for atomizing air & pattern air circuit type FAD



(F) Cylinder air circut & pattern air circuit type AJ



PAINT CUPS

Teflon-Coated Cup
4G-TA

Improved flow and paint removal, making wash-up quick and easy.

▲Teflon-coated

Freely adjustable Cup
1G-2U, 4GB-U, 4GF-U, 4GPA-U, 4G-TA

A freely adjustable joint allows the cup to be adjusted to any angle while mounted on the gun.

A convenient gun stand makes it possible to temporarily stop work or add paint wherever a flat surface is available.

▲Freely adjustable joint

◀Gun stand

Agitator Cup
4GPA-U-V, 7SB-VA

Ideal for agitating pearl and metalic paint.

It is possible to agitate in low pressure.

It is possible to adjust the rotation freely.

＊Hand spray gun should be ordered separately.

PAINT FILTERS

Air hose and paint hose are connected close at hand to improve work efficiency. A built-in 100-mesh filter effectively filters the paint.

HF-C

Model No.	Filter mesh	Coupling nut	Applicable spray guns	Weight g
HF-C	100	G 1/4	F110-P, F110L-P	130
HM-C		G 3/8	F210-P	150

VISCOSITY CUP

Use the Meiji V-1 viscosity cup, which is based on the No.4 Ford viscosity cup, to measure the viscoity of the paint.

V-1

1G-2U

2GD

4GD

Waterborne

4GF-U

One-touch lock structure in packing-free

4GB-U

Waterborne

4GPA-U

Stainless steel

4G-TA

6G-C

7SB

7SLB

10SC

10SLB

10ZP

Model No.	Type	Capacity L	Coupling nut	Applicable spray guns	Weight g
1G-2	Gravity cup	0.15	G1/4	F55-GR, F55-G	90
1G-2U				F110-G, F110L-G F-ZERO, FINERII PLUS FINER SPOT	101
2GD		0.25			113
4GD		0.45			200
4GF-U					185
4GB-U					195
4GPA-U	Plastic gravity cup				170
4G-TA	Teflon-coated gravity cup				220
6G-C	Plastic gravity cup	0.6	G3/8	F410-G	180
7SB	Suction cup	0.75	G1/4	F110-S, F110L-S F-ZERO-S	290
10SB-2		1			325
10SC			G3/8	F210-S, BS-2-11	
7SLB	Suction cup (lever type)	0.75	G1/4	F110-S, F110L-S F-ZERO-S	360
10SLB-2		1			420
10SLB			G3/8	F210-S, BS-2-11	
10ZP	Pressure cup	1	G3/8	F210Z-P	590

Model No.	Type	Capacity L	Coupling nut	Air pressure MPa	Air con-sumption L/min	Paint viscosity range second	Applicable spray guns	Weight g
4GPA-U-V	Agitator cup gravity	0.45	G1/4	0.2～0.35	15～50	10～20	F110-G, F110L-G F-ZERO, FINERII PLUS	220
7SB-VA	Agitator cup suction	0.75	G1/4	0.2～0.35	15～50	10～20	F110-S, F110L-S F-ZERO-S	380

● Paint viscosity is for using Meiji model V-1 viscosity cup.

Viscosity Comparison Table

Viscosity	Pa･s	mPa･s (cps)	Ford Cup #3	Ford Cup #4 Meiji V-1 viscosity cup	Krebs Units Ku	Zahn #1	Zahn #2	Zahn #3	Zahn #4	Zahn #5
Low	0.01	10		5		30	16			
	0.015	15		8		34	17			
	0.02	20	12	10		37	18			
	0.025	25	15	12		41	19			
	0.03	30	19	14		44	20			
Medium	0.04	40	25	18		52	22			
	0.05	50	29	22	30	60	24			
	0.06	60	33	25	33	68	27			
High	0.07	70	36	28	35		30			
	0.08	80	41	31	37		34			
	0.09	90	45	32	38		37	10		
	0.1	100	50	34	40		41	12	10	
	0.12	120	58	41	43		49	14	11	
	0.14	140	66	45	46		58	16	13	
	0.16	160		50	48		66	18	14	
	0.18	180		54	50		74	20	16	
	0.2	200		58	52		82	23	17	10
	0.22	220		62	54			25	18	11
	0.24	240		65	56			27	20	12
	0.26	260		68	58			30	21	13
	0.28	280		70	59			32	22	14
	0.3	300		74	60			34	24	15

● 1Pa･s=10 poise, 1mPa･s=1 cps, 1Pa･s=1,000 cps

DIAPHRAGM PAINT PUMPS

PDP-05B, PDP-05-SU, PDP-10A

Downsizing fluid circuit leads to reduction of fluid residual inside of the pump.(Fluid residual of PDP-05 types:6mL). This contributes to reduction of VOC (Volatile Organic Compound) emissions by saving cleaning liquid.

Connecting metal air circuit has been modified to enhance pump performance.

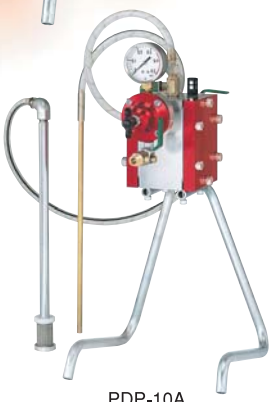
Prevention against malfunction caused by loosened parts of diaphragm.

Paint pressure reduction valve has been modified to separate type for easy maintenance.

Diaphragm pump and paint pressure reduction valve, FR-1A are available separately as an individual part.

Fluid circuit of PDP-10A has been widen to improve pump performance.

Prevention against pump malfunction caused by over discharge has been improved for PDP-10A.



Applications

- Painting with frequent color changes
- Built-in painting systems
- Substitute for suspended gravity-feed tank
- Single-gun, small-volume painting

Set Model No.		PDP-05B	PDP-05-SU	PDP-10A
Diaphragm pump model		DP-05B	DP-05-SU	DP-10A
Paint pressure-reduction valve model		FR-1A	Built-in	FR-1A
Max. air pressure	MPa	0.69	0.7	0.6
Paint pressure adjustment range	MPa	0～0.35		
Max. flow rate	L/min	1.5	1.0	1.5
Paint outlet bore		G1/4×1		
Air inlet bore		G1/4×1		
Approx. dimensions (W×D×H)	mm	200×296×421	212×245×426	200×311×446
Weight	kg	3.7	4.5	5

Note : PDP-05-SU is a built-in pressure-reduction valve and can not be used as transfer pumps.
If a transfer pump is required, select the DP-17B.

PDP-17B series

Paint is drawn in, pressure-feed and supplied while adjusting to the appropriate pressure.

Simple design for easy color changing and mainte-nance, as well as easy setup and location changes.

Teflon coating (PDP-17B-TF).

Stand type with a built-in mixer (PDP-17B-SP).

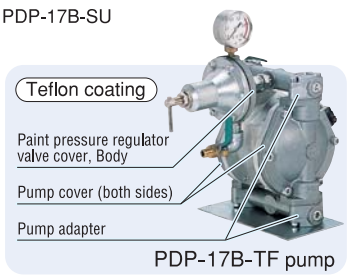
Stainless steel passage for waterborne compatibility (PDP-17B-SU).

Applications

- Painting robots
- Automatic painting systems
- Paint supply to high-volume spray guns

Set Model No.			PDP-17B	PDP-17B-TF	PDP-17B-SP	PDP-17B-SU
Diaphragm pump model			DP-17B	DP-17B-TF	DP-17B	DP-17B-SU
Paint pressure-reduction valve model			FR-4A	FR-4A-TF	FR-4A	FR-4A-SU
Pump	Max. air pressure	MPa	0.69			
	Max. discharge rate (value measured in water)	L/min	17			
	Diaphragm cycles	Cycles/min	0～170			
	Air consumption	L/min	100			
Pressure-reduction valve	Paint pressure adjustment range	MPa	0～0.35			
	Max. flow rate	L/min	2.0			
Paint outlet bore			G1/4×1			
Air inlet bore			G1/4×1			
Approx. dimensions (W×D×H)		mm	425×340×570	425×340×570	438×388×810	425×340×540
Weight		kg	8	8	13.5	13

- SU model is stainless steel.
- Models equipped with two pressure-reduction valves (two G1/4 bore paint outlets) are also available by special order.



PAINT PRESSURE-REDUCTION VALVE

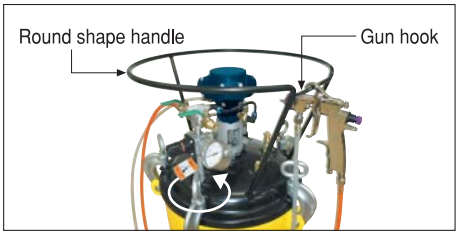
Model No.		FR-1A	FR-4A	FR-4A-TF	FR-4A-SU
Paint pressure adjustment range	MPa	0～0.35			
Max. flow rate	L/min	1.5	2		
Valve effective sectional area	mm^2	16			
Paint outlet	B	G1/4			
Paint inlet	B	G1/4	G3/8		
Weight	kg	0.5	1.4	1.4	3.0

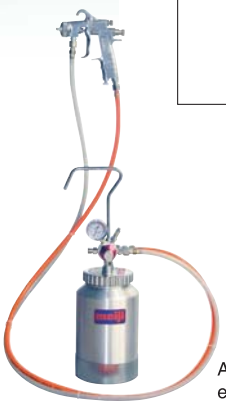
- SU model is stainless steel.

PAINT PRESSURE FEED TANKS

A paint pressure feed tank greatly improves work efficiency for painting large surface areas, when working in elevated locations, and for continuous automatic painting. Tanks are available in capacities ranging from 2 to 50 liters. Two different types of paint stirring systems are available depending on the type of paint to be used.

- Manual type : For comparatively low sedimentation paint.
- Air motor automatic type : For organic solvent-based paints which are subject to color separation or sedimentation.





Application example

Inner Tanks for Paint Pressure Feed Tanks

Model No.	Capacity L
PC-10	10
PC-30	27
PC-50	45
PC-8S	7 (stainless)
PC-30-S	27 (stainless)
PC-50-S	45 (stainless)

	Model No.	Capacity L	Mixing system	Paint outlet (dia.×qty)	Air intlet (dia.×qty)	Max. operating pressure MPa	Approx. dimensions (Width×height) mm	Inner tank	Weight kg
	P-2A	2	—	G3/8×1(G1/4×1)	G1/4×1	0.34	130×435	Not included	1.25
	P-30B	30		G3/8×1		0.19	454×710		25
	PH-10	10	Manual	G1/4×1	G1/4×1	0.69	310×643	PC-10 included	20
	PH-30B	30		G3/8×1		0.19	454×710	Not included	27
	PA-10B	10	Automatic (Air motor)	G1/4×1	G1/4×1	0.69	310×622	PC-10 included	23
	PA-30B	30		G3/8×1		0.19	454×710	Not included	29
	PA-50B	50		G3/8×2			454×945		36
Waterborne	**P-8S**	8	—	G1/4×1	G1/4×1	0.49	314×530	PC-8S included	12
Waterborne	**P-30SB**	30		G3/8×1		0.35	454×710	Not included	25
Waterborne	**PH-30SB**	30	Manual	G3/8×1	G1/4×1	0.35	454×710	Not included	27
Waterborne	**PA-30SB**	30	Automatic (Air motor)	G3/8×1	G1/4×1	0.35	454×710	Not included	29
Waterborne	**PA-50SB**	50		G3/8×2		0.19	454×945		36

- On S models, stainless steel passage for waterborne compatibilty.
- A multi-purpose model with 30-liter, 0.35MPa specifications is also available by special order.

PRESSURE-DISPENSING FLUID TANKS

Stainless steel tank is ideal for pressurized dispensing of culinary liquids such as soy sauce, seasoning sauces, and cooking oil, as well as chemicals and solvents.

Safe design prevents cap opening during pressurization.

Lightweight and easy to transport. Can also be used as a sealed tank for liquids.

Once pressurized, the tank can be carried freely to enable pressurized supply of liquid anywhere.

Includes relief/safety valve as a standard feature.

The cap can be opened or closed with a single touch.

Model No.	Cap removal / replacement method	Internal diameter of opening mm	Maximum useable pressure MPa	Capacity L	Liquid dispensing outlet	Air inlet	Approx. dimensions (Width×height) mm	Weight kg
P-10SC	One-touch lever-lock system	81×97 ellipse	0.49	10	G1/4×1	G1/4×1	228×499	3.0
P-18SC				18			228×679	3.8

ARCHITECTURAL SPRAY GUNS

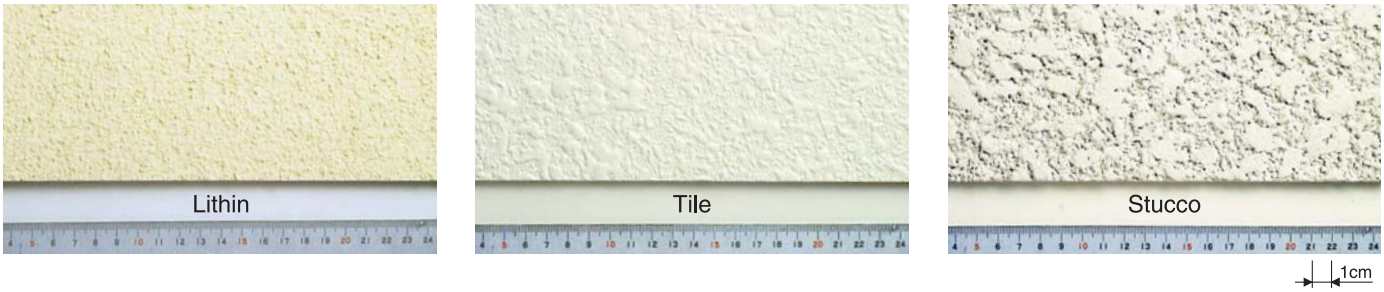
Wide selection of models
In addition to models specially designed for use with tile, resin, mortar, stucco, micro-fine stucco, etc., our extensive product line-up also includes multi-purpose spray guns and other models for every type of application.

Lightweight, excellent balance
Optimum efficiency design makes these spray guns extremely light-weight and the excellent handling balance minimizes operator fatigue during extended use.

One-touch operation (Models AGA, HS2A and HS2YA)
A special patented mechanism in which a hollow needle valve is automatically moved back and forth by air pressure makes "one-touch" operation possible for improved work efficiency.

Thoughtfully designed to make work easier (Models SGA, AGA, KGA and LGA)
The large cup capacity and good paint flow make working with these spray guns easier. An air regulating valve eliminates uneven spaying to ensure consistently reliable painting, and a valve button locking system enables continuous operation.

Spraying samples for model SGA-2 & SGS-2



How to Select a Spray Gun for Architectural Painting
Determine the spray gun and paint nozzle bore to be used according to the name of the paint, the paint viscosity, the size of the aggregate, and the pattern.
Also refer to the standard specifications listed in the paint catalog with regard to the spray gun name, nozzle bore, spraying pressure, etc.

Types of Aggregate
Quartz sand, white marble, sand, clay-based crushed grains
50 mesh = 279μm
Reference sizes : Table salt = 100μm,
Strand of human hair = 70μm

Guide to Selecting Architectural Spray guns for Various Applications ● : Ideal

Model No. \ Application	Mortar	Fine lithin	Medium-sized lithin	Skin	Lightweight spraying material	Sprayed tile	Stucco	Zolacoat	Micro-fine stucco	Adhesive	Size of aggregate
SGA-2, SGS-2	●	●	●	●	●	●	●				All aggregates
AGA	●	●	●	●	●	●					0.6～1.8mm
KG, KGA					●	●					—
MB-2, MB-2Y	●	●	●	●							0.6～1.8mm
MB-3, MB-3Y	●	●	●	●							0.6～1.8mm
LGA		●	●								0.6～1.8mm
WG	●	●									0.6～0.9mm
F210Z-P25Z								●			—
HS2A-G, HS2YA-G									●		50 mesh and smaller
F210Z-P								●*		●	—

● Adhesive must be a solvent-based type with a viscosity of 500 mPa·s or less.
● Mark * is for water-based Zolacoat.

AGA KG KGA MB-2

MB-3Y

LGA

WG

HS2A-G

HS2YA-G

F210Z-PZ
with 10ZP paint cup

F210Z-P
with 10ZP paint cup

＊10ZP Paint cup should be ordered separately.

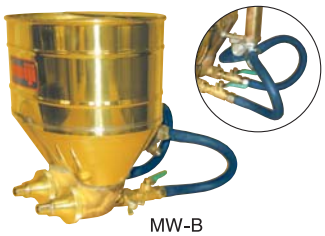
Model No.	Type	Paint feed system	Nozzle bore mm	Air nozzle bore mm	Spraying pressure MPa	Air consumption L/min	Pattern shape	Required compressor output kW	Paint cup capacity L	Weight g
SGA-2	Multi-purpose gun	Gravity	For lithin: 3.5, 5.5, 6.5, 7.5 For tile: 5.0, 6.5, 8.0, 10 For stucco: 8.0, 12, 15	For lithin : 2.0 For tile : 2.5 For stucco: 2.5	0.29～0.49	100～210	Round	0.75 or more	2.7	750
SGS-2									2.8	1,050
AGA	Multi-purpose gun	Gravity	For lithin: 3.0, 4.0, 5.5, 6.5 For tile: 5.0, 6.5, 8.0, 10	For lithin: 1.5 For tile : 2.5	0.29～0.49	100～210	Round	0.75 or more	2.7	960
KG	Tile gun	Gravity	5.0, 6.5, 8.0	3.0	0.29～0.49	100～210	Round	0.75 or more	2.0	900
KGA			6.5, 8.0, 10	2.5					2.7	700
MB-2	Lithin gun	Gravity	4.0, 6.5, 7.5	2.0	0.29	80	Round	0.75 or more	1.4	840
MB-2Y										980
MB-3									2.0	970
MB-3Y										1,125
LGA	Lithin gun	Gravity	5.5, 6.5, 7.5	2.0	0.29	100～210	Round	0.75 or more	2.7	700
WG	Motar gun	Gravity	3.0	1.5	0.29	40	Round	0.4 or more	1.3	650
F210Z-P25Z	Zolacoat gun	Pressure	2.5	—	0.25	285	Flat	1.5 or more	1.0 (10ZP)	426
HS2A-G30	Multi-purpose gun	Gravity	3.0	1.5	0.29	225	Round Flat	0.75 or more	1.5	1,173 (Gun only: 538)
HS2A-G40			4.0							
HS2YA-G30			3.0							1,266 (Gun only: 566)
HS2YA-G40			4.0							
F210Z-P15	High-viscosity gun	Pressure	1.5	—	0.25	240	Round Flat	1.5 or more	1.0 (10ZP)	419
F210Z-P20			2.0			290				
F210Z-P25			2.5			345				
F210ZB-P30			3.0			390				

● Air inlet : G1/4

TWIN NOZZLE GUNS

WGW

MW-A



MW-B

Model No.	Type	Paint feed system	Nozzle bore mm	Air nozzle bore mm	Spraying pressure MPa	Air consumption L/min	Pattern shape	Required compressor output kW	Paint cup capacity L	Weight g
WGW	Twin nozzle gun	Gravity	4.0	1.5	0.2～0.29	80～120	Round	0.4 or more	0.8×2	850
MW-A			8.0	2.5	0.29～0.49	180～350		2.2 or more	2.0×2	2,000
MW-B										2,100

AIR AGITATORS

MAH-1A : Powerful type equipped with a built-in speed reducer.

MA-G : Turning speed is controllable by using a convenient handle.

MAF-2 : Flange type which can be secured to the lid of the paint container.

MA-S : Holds an 18-liter paint can or pail. One-touch detachment of the stirring shaft and blades for easy cleaning.

MA-P : Hook type, secures to an 18-liter paint can or pail can.

MAF-21 : Ideal for large-capacity paint in the flange type.

MA-G-K : The blade opens only when rotating.
No need to cut the paint can completely (For MAH-1A, MA-G).

Model No.	Output* W	Torque* N·m	Rotation speed* min^{-1}	Air consumption* L/min	Max. air pressure MPa	Weight kg
MAH-1A	277	6.8	390	400	0.49	2.0
MA-G	45	0.45	1,000	180		3.2
MAF-2	100	1.0	1,000	230		2.9
MA-S	45	0.45	1,000	180		7.6
MA-P	45	0.45	1,000	180		2.9

* Specifications of an air motor of maximum output.

MAF-21

Reduction ratio	Max. output (air motor)				Rotation speed on no-load min^{-1}	Start torque N·m
	Output W	Torque N·m	Rotation speed min^{-1}	Air consumption L/min		
1/5	110	6	180	260	360	9
1/10		12	90		180	18
1/15		18	60		120	27
1/20		24	45		90	36
Max. operation air pressure : 0.49MPa Weight : 11kg						


MAH-1A


MA-G

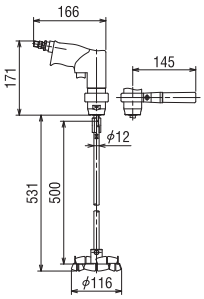

MAF-2


MA-S

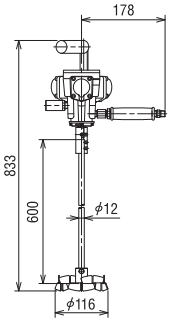

MA-P
※Acrylic paint container is not included.


MAF-21

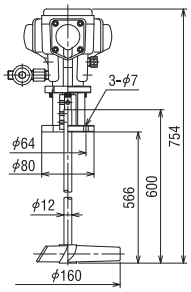

MA-G-K



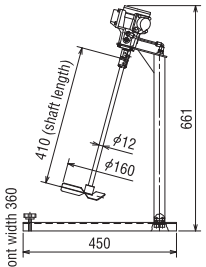
MAH-1A



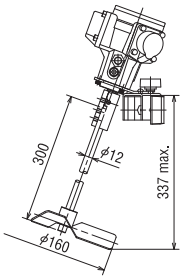
MA-G



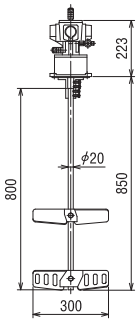
MAF-2



MA-S



MA-P



MAF-21

EQUIPMENT FOR CORROSION PREVENTION & UNDERBODY AREAS

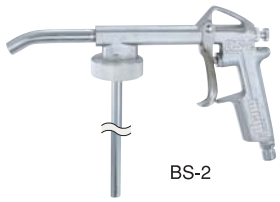
Engine Cleaner EC-7

Ideal for spraying clean-ing oil to wash away grease and dirt from auto engines and other general machinery.

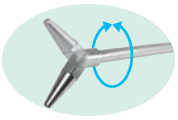
Body Under Schutz Spray Gun BS-2

Ideal for spraying rust-proofing, anticorrosion, and vibration-damping paint onto auto fenders, trunks, hoods and other parts.


EC-7


BS-2

- The pipe angle can be adjusted 360˚. Free adjustable nozzle (EC-7).



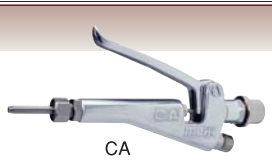
- Options for grip way (EC-7).

Model No.	Nozzle bore mm	Spraying pressure MPa	Air consumption L/min	Liquid spraying volume mL	Pattern shape	Fluid feed system	Required compressor output kW	Weight g	Others
EC-7*	3.0	0.3	55	450**	Round	Suction	0.4	350	Pipe length : 240mm
BS-2***	7.0	0.29	190	—			0.75～1.5	390	—

* Pipe length of 500mm, 750mm and 1,000mm is available. ** Liquid spraing volume should be used by water. *** Paint cups 10SC and 10SLB are available for BS-2-11.
● Air inlet : G1/4

CAULKING GUN

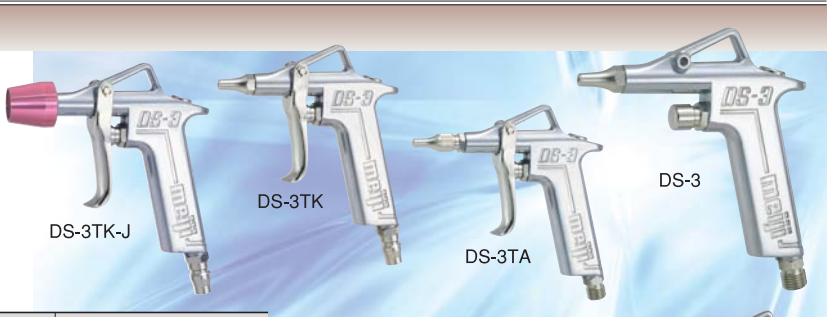
Model No.	Fluid inlet	Length mm	Weight g	Fluid nozzle	For dowel ϕmm	For tenon ϕmm
CA	G1/4	188.9	180	Including 2 kinds	1.5×2 holes	3×1 hole


CA

AIR DUSTERS

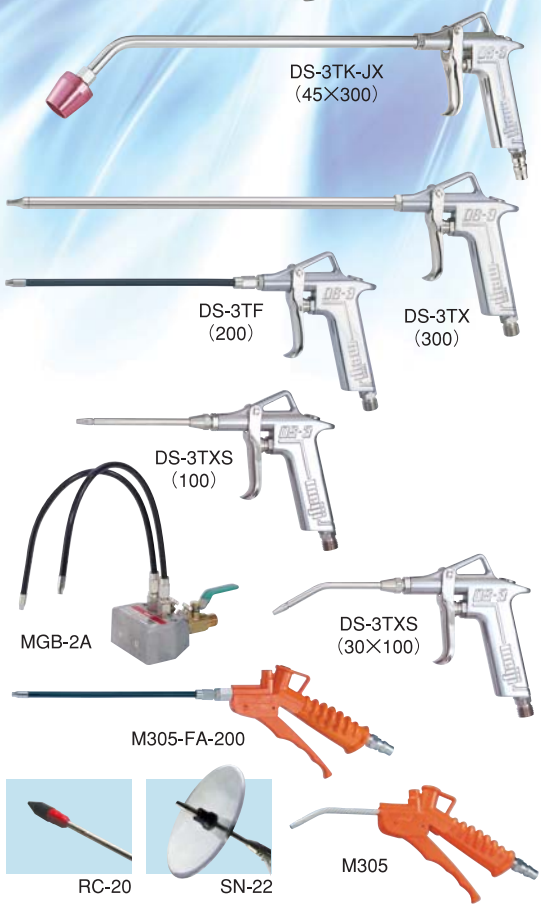
Ideal for the removal of dust, cutting chips from machine tools, sawdust, water drops, etc., and for air cleaning, cooling and drying. Selection of models includes types equipped with air flow rate adjusters, magnets, freely bendable nozzles, variable pipe lengths, etc.


▲Jet nozzle type



Model No.	Pipe bending angle	Pipe length mm	Nozzle bore mm	Air pressure MPa	Air consumption L/min	Weight g	Features
DS-3	—	—	2.2	0.29	140	165	Button type
DS-3K						170	Button type, Quick joint type
DS-3T	—	—	2.2	0.29	140	185	Trigger type
DS-3TK						190	Trigger type, Quick joint type
DS-3TX (100)	0° 45°	100 (φ10)	2.2	0.29	140	220	Trigger type, Extension type
DS-3TX (300)		300 (φ10)				310	
DS-3TX (500)		500 (φ10)				395	
DS-3TXS (100) (30°×100)	0° 30°	100 (φ6)	3.0	0.29	205	210	Trigger type, Small diameter, Lightweight, Blowing force increased by 3% Capable of nozzle attachment, RC-20 and SN-22
DS-3TXS (300) (30°×300)		300 (φ6)			180	245	
DS-3TXS (500) (30°×500)		500 (φ6)			160	280	
DS-3TA	—	—	2.2	0.29	130	190	Trigger type, with air flow rate adjuster
DS-3TF (200)	Free	200	2.0	0.29	100	205	Trigger type, Freely adjustable pipe angle
DS-3TF (300)		300				215	
DS-3TF (500)		500				235	
DS-3TK-J	—	—	—	0.5	350	190	Trigger type, Quick joint type, Jet nozzle type
DS-3TK-JX (100) (45×100)	0° 45°	100	—	0.5	350	240	Trigger type, Quick joint type, Jet nozzle type, Extension type
DS-3TK-JX (300) (45×300)		300				330	
DS-3TK-JX (500) (45×500)		500				410	
MGB-2A	Free	300	2.0	0.29	110×2	560	With magnetic base Suction force: 15kg Twin nozzles, Freely adjustable pipe angle
MGB-2A-500		500				600	

- Models with K after the model number are equipped with a 1/4 quick joint for the duster's air connection.
- Replacement nozzles are available for pipe lengths of 200, 300 and 500mm for Model DS-3TF.
- Replacement nozzles are available for pipe lengths of 300 and 500mm for Model MGB-2A.
- Air inlet : G1/4 or quick joint



Model No.	Pipe bending angle	Pipe length mm	Nozzle bore mm	Air pressure MPa	Air consumption L/min	Weight g	Features
M305	30°	90	2.2	0.29	240	90	Attachment Quick joint, Hexagon socket head screw, rubber tip tube
M305-FA-200	Free	200	2.0		100	200	
M305-FA-300		300				300	
M305-FA-500		500				500	

- Maximum operating pressure is 1.57MPa.
- Rubber tip nozzle, RC-20 and transparent shield nozzle, SN-22 are available for M305.

AIR DUSTER WITH VACUUM FUNCTION—"VACULEANER"

When the ball valve is closed, air is blown out. When the ball valve is open, air is sucked in.

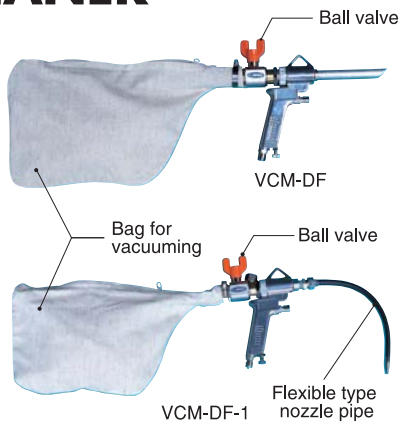
A small quantity of compressed air draws in a large quantity of secondary air, resulting in a strong suction force.

Applications

Cleaning : Vacuuming and blowing of metal shavings from machining, grinding powder, sand, wood shavings and sawdust, and thread scraps from sewing.

Collection : Collection of barrel sand, sandblasting sand, and small parts.

Cooling : Cooling of molded pieces, cast pieces, forged pieces, and welded pieces. Vacuum removal of foreign matter.

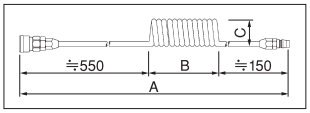


Model No.	Pipe diameter Inner dia.×Outer dia. mm	Air consumption L/min	Suction force kPa	Air pressure MPa	Pipe leagth mm	Weight g
VCM-DF	11×14	260	19.4	0.49	100	504
VCM-DF-1	5×11				200	545

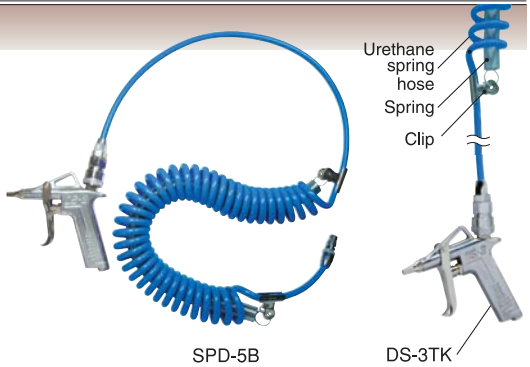
- Air inlet : G1/4

SPRING DUSTER SET

Sets consisting of a urethane spring hose and a spring are available for use with the Model DS-3TK air duster. The spring is inserted into the spring hose to prevent it from stretching and to keep the air duster suspended in the same position for improved work efficiency.



Model No.	Spring duster set		Urethane hose					Spring		
	Overall length when attached to duster mm	Extendable length mm	Inner dia. × Outer dia. mm	A mm	B mm	C mm	Normal pressure MPa	Overall length mm	Outer dia. mm	Wire dia. mm
SPD-3B	1,050	2,000	5×8	680	180	42	0.7	250	18	1.0
SPD-5B	1,550	4,000		1,100	400			400		



AIR HOSE, PAINT HOSE

AH-7

AHU-6.5

FHN-7.5

Name	Model No.	Material classification		Specification		
				Inner dia.×Outer dia. mm	Working pressure MPa	Length m
Air hose	**AH-7**	Vinyl chloride		7×13	0.98	20・100
	AH-9.5	Vinyl chloride		9.5×16		
	AHU-6.5	Urethane		6.5×10		20・30・50・100
	AHU-8.5	Urethane		8.5×12.5		
	MP	Urethane		4×6	0.34	5
Paint hose	**FHN-7.5**	Urethane, Nylon		7.5×10.5	0.49	20
	FH-7.5	Tetron braid, Nylon		7.5×11	1.47	
	FH-9.5	Tetron braid, Nylon		9.5×14		
Twin hose	**TH-7.5**	Air	Urethane	6.5×10	1.47	5・10・15 G1/4 fittings included
		Paint	Urethane, Nylon	7.5×10.5	0.49	

QUICK JOINT

12PFG

12SM

22PFG

SMK-22

Model No.		Specification (Compatible hose)
Small	Standard	
12SH	**SHK-22**	S type quick × 1/4 Hose (AH-7)
12SM	**SMK-22**	S type quick × R1/4 Male screw
12SMS	—	S type quick × G1/4 Male screw
12SF	**SFK-22**	S type quick × Rc1/4 Female screw
12SB	**22SB**	S type quick × 1/4 Urethane. hose (AUH-6.5)
13SB	**23SB**	S type quick × 3/8 Urethane. hose (AUH-8)
12PH	**PHK-22**	P type quick × 1/4 Hose (AH-7)
12PM	**PMK-22**	P type quick × R1/4 Male screw
12PFG	**22PFG**	P type quick × G1/4 Female screw
12PB	**22PB**	P type quick × 1/4 Urethane. hose (AUH-6.5)
13PB	**23PB**	P type quick × 3/8 Urethane. hose (AUH-8.5)

AIR HOSE COUPLING, FLUID HOSE COUPLING, COCKS, TIRE CHUCKING

HJ-02

HJ-03

CJ-02

SN-02

SN-03

KN-02

YJ-02

YN-02

YF-02

BV-6

AN-023

MH-4

TC-1

HC-13

TC-2

TC-3

Model No.	Items	Specification
HJ-02	Hose joint	G1/4 Cap nut 1/4 straight joint
HJ-021		G1/4 Cap nut straight joint※1
HJ-03		G3/8 Cap nut 3/8 straight joint
HJ-032		G3/8 Cap nut 1/4 straight joint
CJ-02	Bent hose joint	G1/4 Cap nut 1/4 Bent hose joint
SN-02	Intermediate nipple	G1/4 × G1/4
SN-03		G3/8 × G3/8
KN-02	Single tapered nipple	R1/4 × G1/4
KN-032		R3/8 × G1/4
YN-02	Y-shaped trifurcate nipple	G1/4 nipple (3)
YF-02	Y-shaped cap nut trifurcate nipple	G1/4 Cap nut (1) ×G1/4 nipple (2)
YJ-02	Y-shaped trifurcate joint	1/4 straight joint (3)
AN-023	Adapter	G1/4 Cap nut × G3/8 nipple
AN-032		G3/8 Cap nut × G1/4 nipple
BV-6	Ball valve	R1/4 × G1/4
BV-8		R3/8 × G3/8
02NU	Universal joint	G1/4 nut (1) × Urethane hose (AHU-6.5)
03NU		G1/4 nut (1) × Urethane hose (AHU-8.5)
MH-4	Plate band	6×15 Equivalent to 1/4
HC-11		9×17 Equivalent to 3/8
HC-13		14×22 Equivalent to 1/2
TC-1	Tire chucking	For bicycle
TC-2		Long handle, Double end For double tire
TC-3		For bicycle and automobile

※ 1 AHU-6.5 and hose joint for P-2-02

● The mechanisms, specifications and other information described in this catalog are subject to change without notice.

MEIJI AIR COMPRESSOR MFG. CO., LTD.
3-14, 2-chome, Tagawa, Yodogawa-ku Osaka 532-0027, Japan
Tel : +81-6-6309-1227 Fax : +81-6-6309-0157
URL http ://www.meijiair.co.jp
E-mail : export1@meijiair.co.jp

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MEIJI Okayama Factory