ANEST IWATA

PAINT SUPPLY PUMP & SYSTEM EQUIPMENT

Diaphragm pump with simple mechanism and high durability

1 Easy handling and installation

●You just connect air hose to the unit as it is air-driven. Then all you have to do is to adjust fluid regulator to suit the requested fluid output.

●You can select stand type, pail-mount type, wall-mount type or tank type in accordance with application or installation site.

2 Easy color change and cleaning

●Simple construction makes color change and claninng easier. Suitable for production lines producing many kinds of prodducts on a small quantity basis.

3 Easy confirmation of remaining paint and replenishing

●You can confirm remaining paint at a glance and replenish paint without stopping operation.

4 Excellent durability and stable output

●The diaphragm pump has no sliding parts resulting in little wear on parts.

●Double-action pump assures stable paint output with little pulsation.

5 Easy maintenance

●Limited number of parts and simple construction assure easy maintenance at user's side.

6 Can be used as transfer pump

●Can be widely used as a transfer pump of thinner and paint. Safe from explosion-proof viewpoint as it is air-driven.

Wide range of applications

■Metallic products
Steel furniture, office machines, sashes distribution panels, computer boxes, air conditioners, etc.

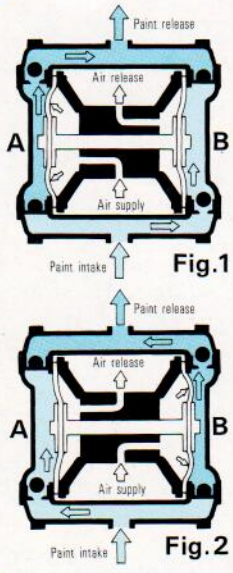
■Plastic products
Office automation, electric home appliances, etc.

■Woodwork
Cabinets, bookcases, tables, cupboards, etc.

■Machinery
Construction machines, agricultural machines, machine tools, industrial machines, etc.

■Vehicles
Trucks, buses, passenger cars, trains etc.

Operating principle of diaphragm pump



●A very simple construction. Movement of 2 diaphragms, fitted to both ends of the rod, pressur-izes and releases paint.

●Compressed air enters A side air chamber of fig. 1 and pushes diaphragm towards left, which releases paint.

●At the same time, B side diaphragm connected to rod moves towards left also and sucks paint.

●When the rod moves to left fully, air valve changes over.

●Compressed air enters B side air chamber of fig. 2 and pushes diaphragm towards right, which releases paint.

●At the same time, A side diaphragm sucks paint.

●Pump repeats above movement of continuous suction and release, resulting in stable flow with- out pulsation.

Selection chart for Diaphragm pumps

	page	paint output in total (including output for circulation)
DDP-70 series	(2 P)	~0.6 ℓ / min
DDP-90D series	(4 P)	~1.5 ℓ / min
DDP-120 series	(5 P)	~4.5 ℓ / min
DDP-160C series	(6 P)	~10.5 ℓ / min

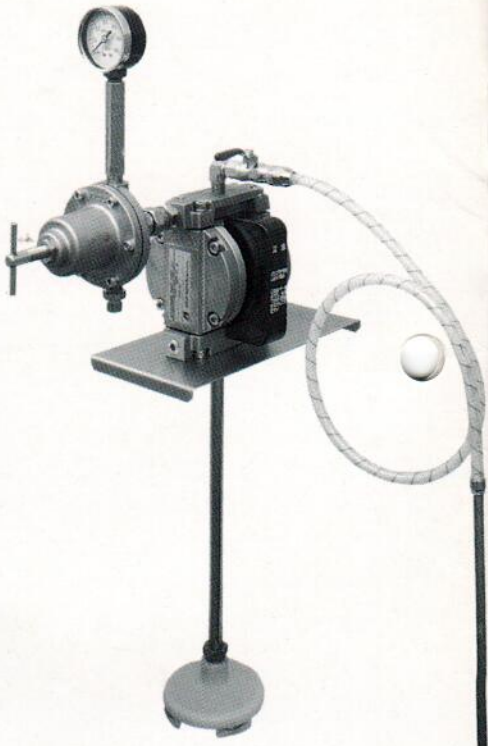
* These are standard suggestions.
* If the total paint output exceeds the max flow of a paint regulator (PR-5), then another (or more) paint regulator will be needed. (one regulator per gun is advisable)

Compact Diaphrag

DPS-70B series

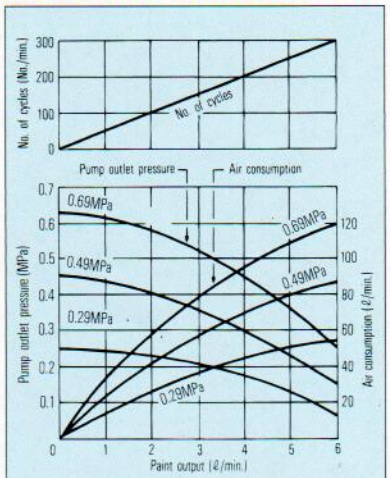
●Space-saving 1-gun type. Most suitable for those who consume about 20 liters of paint per day.

●Suitable for those who change colors very often with paint tank or use suspended gravity type tank.



DPS-70B
Pail-mount

■DDP-70 Performance curve



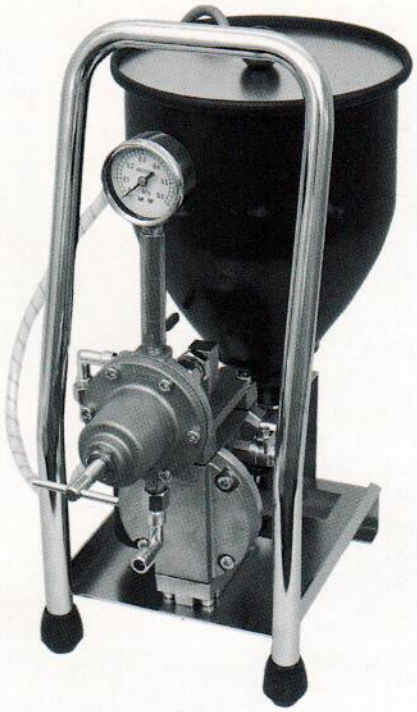
*0.29/0.49/0.69Mpa in graph shows air pressure.
*Test by turpentine.

m Paint Pump

[Small painting jobs]

DPS-70TB
Transfer pump for pail

DPS-704B
Wall-mount



HDP-705B Handy paint pump

- Compact-design, lightweight, space-saving, and easy to transport.
- Interruption painting of small designated paint into mass production line.
- Moving jobs of construction painting such as shutters or indoor decorations.

Model		DPS-70B	DPS-704B	DPS-70TB	HDP-705B
Type		Pail-mount	Wall-mount	Transfer pump	Handy type with hopper
Dimensions(L×W×H)		340×205×630mm	260×205×1290mm	240×180×520mm	190×340×420mm
Mass		4kg	4kg	3kg	8kg
Air inlet		G1/4(PF1/4male)			
Paint outlet		G1/4(PF1/4male)			
Paint filter		50mesh×1pc(paint intake)		not attached	50mesh×1pc(paint intake)
Paint (ambient) temperature		5~40°C			
Diaphragm pump model		DDP-70			
Operating air pressure		0.29~0.69MPa			
Paint output/cycle		20mℓ/cycle			
Max. cycle		300cycles/min.			
Max. paint output		6ℓ/min.(water, pump outlet)			
Max. paint viscosity		less than 60sec./NK-2			
Paint regulator	Model	PR-5		not attached	PR-5
	Adjustable pressure range	0~0.59MPa		———	0~0.59MPa
	Max. flow	2.0ℓ/min		———	2.0ℓ/min
Agitator(mixer)		———	AMM-11(option)	———	———
Required compressor(for pump only)		0.4~0.75kW		0.75~1.5kW	0.4~0.75kW

Medium-sized Diaphragm Paint Pump

DPS-90D series [General Use]

- Most suitable for those who consume paint of more than 40 liters per day.
- Pressure-feed paint supply to reciprocator, automatic painting equipment, and painting robot in addition to manual spray.
- Stainless steel type available for water-base paint.
- For high cleaning efficiency, we have models in which the wet section is coated with fluorine containing resin.

DPS-902D
Tank type

DPS-90D
General purpose

DPS-90XD
Digital display type

※DPS-90DT/DDP-90DT
Wet section of pump is coated with fluorine containing resin.
※As for DPS-90CST, wet section of fluid regulator is also coated with fluorine containing resin.

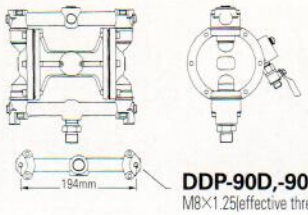
Model	DPS-90D	DPS-90DN	DPS-90XD	DPS-90XDN	DPS-902D	DPS-90LD	DPS-904D
Type	General use	General use Stainless	Digital output display	Digital output display Stainless	Tank (20ℓ)	Elevated stand (18ℓ container)	Wall-mounted type
Dimensions(L×W×H)	350×360×780mm		350×370×615mm		330×340×760mm	260×390×823mm	260×340×1560mm
Mass	7kg	9kg	14kg	16kg	10kg	17kg	6.5kg
Air inlet	G¼(PF¼male)						
Paint outlet	G¼(PF¼male)						
Paint filter	50 mesh×1(intake section)						
Paint temperature	5~40°C						
Diaphragm pump model	DDP-90D	DDP-90DN	DDP-90D	DDP-90DN	DDP-90D	DDP-90D	DDP-90D
Operating air pressure	0.15~0.69MPa						
Paint output/cycle	50mℓ/cycle						
Max. cycle No.	200 cycles/min.						
Max. paint output	10ℓ/min.(water, pump outlet)						
Max. paint viscosity	less than 100sec./NK-2						
Paint regulator	PR-5	PR-5N	PR-5	PR-5N	PR-5	PR-5	PR-5
Adjustable pressure range	0~0.59MPa						
Max. flow	2.0ℓ/cycle						
Air regulator	not attached		RR-551B		not attached	not attached	not attached
Pressure adjusting range	———		0.15~0.69MPa		———	———	———
Permissible primany pressure	———		1.37MPa		———	———	———
Output display	not attached		FC-2000		not attached	not attached	not attached
Display system	———		liquid crystal digital		———	———	———
Display range	———		0~2000mℓ/min		———	———	———
Display precision	———		within ±7%(more than 100mℓ/min)		———	———	———
Display time	———		about 4min.(auto off)		———	———	———
Electric source	———		life 2 years. battery × 3		———	———	———
Explosion-proof-construction*	———		i2G4		———	———	———
Jet stream agitation set	AMM-11 or option				attached	AMM-13(option)	AMM-11
Required compressor (for pump)	0.4~0.75kW						

*Models ending with N indicate stainless specifications. *Use AMM-11 in case of metallic paint.
*DPS-90LD becomes 1189mm when elevated stand is at top position.
*DPS-90XDN is made to order.

Diaphragm Pump
DDP-90D/90DN

- Can be used as transfer pump.
- DDP-90DN uses stainless steel lined paint passageways.

If you want to use as transfer pump for lubricating oil or in the food industry, consult with us about pH, viscosity and liquid property.



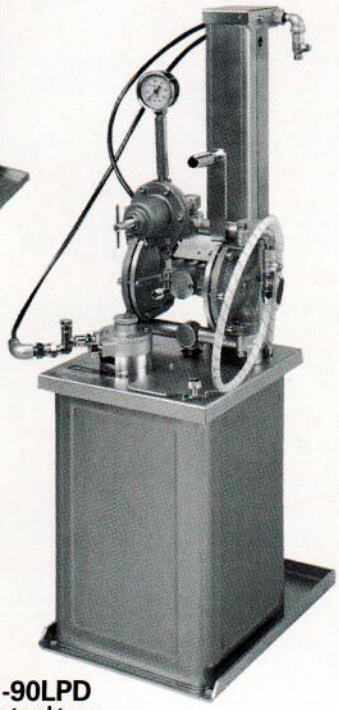
DDP-90D,-90DN
M8×1.25(effective thread depth 16mm)

Jet stream agitation set
PM-D90C

- It provides stable painting quality without suction of air.
- Extra power of pump agitates paint.
- Applicable model:DPS-90D(N)

Space-saving pump can be fixed at upper position and paint container can be easily replaced or replenished.

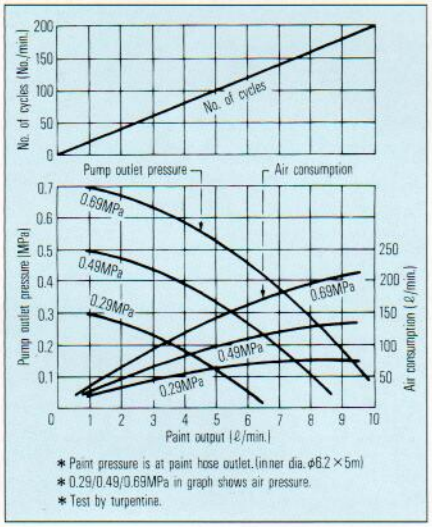
*Photo shows when pump is rising.



DPS -90LD, -90LPD
Elevated stand type

*AMM-13 agitator is option.
*Pail is not attached.
*DPS-90LPD is for 20-liter round pail.

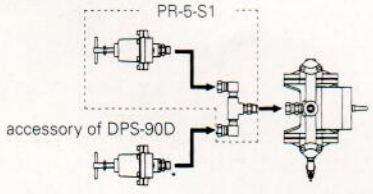
DDP-90D/90DN Perfomance curve



*Paint pressure is at paint hose outlet.(inner dia.φ6.2×5m)
*0.29/0.49/0.69MPa in graph shows air pressure.
*Test by turpentine.

Option
DPS-90D, 902D, -90LD, 90LDD DPS-120,120L two-gun kit

You can change to two-gun type by adding one PR-5-S1paint regulator.



TF-7, 71 paint intermediate filter

A filter to prevent dust (standard filter is 100 mesh).

Refer to page 11.

DPS-120 series

Paint output per cycle is 3 times that of the 90D series. The DPS-120 will satisfactorily perform even when used with multiple spray guns.

Widened orifice of paint pathways
Cleaning brushes can easily reach the inside of the pumps.
DPS-120 also works with high viscosity paint.

More reliable air operating valve.
Double valves keep the pump operating smoothly.

DPS-120

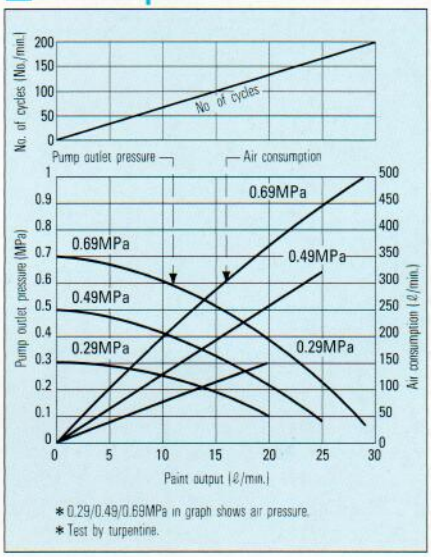
DPS-120L

The DPS-120 is the same size as the 90D series. Just change the pump to upgrade.

Model	DPS-120	DPS-120T	DPS-120L
Type	general use	coated with fluorine containing	elevated stand type (for 18l square pail)
Dimensions (L×W×H)		366×357×823mm	390×260×823mm
Mass		8	18
Air inlet		G1/4	
Paint outlet		G1/4	
Paint filter		50mesh × 1(intake section)	
Paint (ambient) temperature		5～40°C	
1.Diaphragm pump model	DDP-120	DDP-120T	DDP-120
Operating air pressure		0.15～0.69MPa	
Pint outlet per cycle		150mℓ／1cycle	
Max cycle no.		200cycle／min	
Max paint output		30 ℓ／min (DDP-120 pump)	
Max operating paint pressure		0.69MPa	
2.Regulator	PR-5	PR-5T	PR-5
Pressure adjusting range		0～0.58MPa	
Max flow		2.0 ℓ／min	
3.Required compressor (for pump)		0.4～1.5kW	

*AM-13 is an agitator for DPS-120L

DDP-120 performance curve

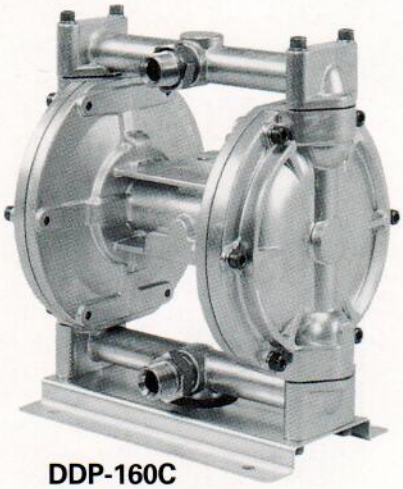


*0.29/0.49/0.69MPa in graph shows air pressure.
*Test by turpentine.

Large-sized Diaphragm Pump

DDP-160C

- It is a diaphragm; high pressure and large output type.
- Compact, easy to install and handle.



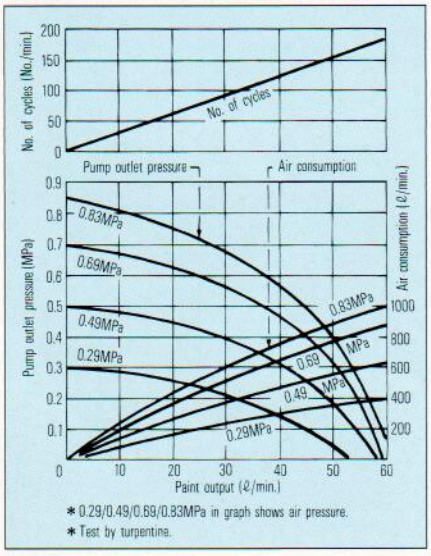
DDP-160C

* Air regulator is necessary.

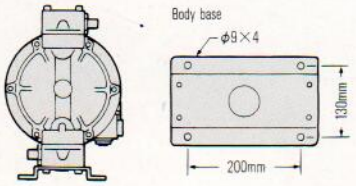
Model	DDP-160C
Supply air pressure	0.15～0.98MPa
Adjustable air pressure	0.15～0.83MPa
Paint exhaust pressure	0.15～0.83MPa
Max. output*	70ℓ/min.(water, at pump outlet)
Normal output	30ℓ/min.
Pressure ratio	1:1
Paint (ambient) temperature	5～40°C
Dimensions (L×W×H)	290×210×320mm
Mass	12kg
Air inlet	G1/4B(PF1/4 male)
Paint inlet	G3/4B(PF3/4 male)
Paint outlet	G3/4B(PF3/4 male)

* Max. output is measured when fluid outlet is opened.

DDP-160C Perfomance curve



* 0.29/0.49/0.69/0.83MPa in graph shows air pressure.
* Test by turpentine.



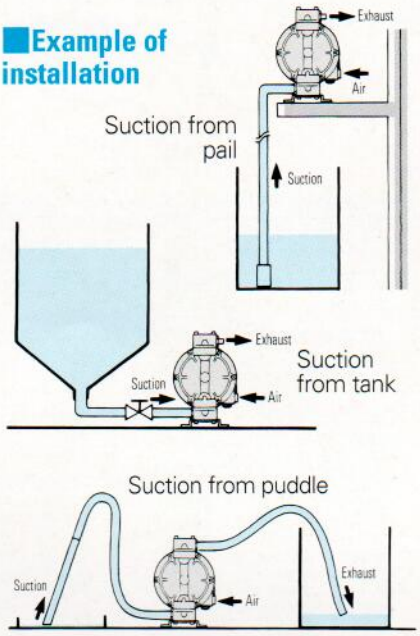
As circulating pump

- Most suitable for transfer of metallic paint. It does not damage metal powder of metallic paint.
- It can cope with 100m total piping length as max.

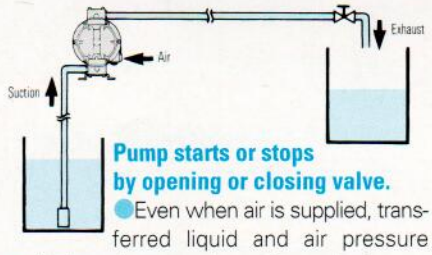
As a transfer pump

- It can transfer high viscosity paint of 3,000cps.
- It can transfer paint to a high or far place.
- It can start or stop pump by remote control through open-close of valve at the outlet of piping.
- It can transfer lubricated oil or solvent type adhesives in addition to paint and thinner (Note : Some limit to viscosity and pH).

Example of installation

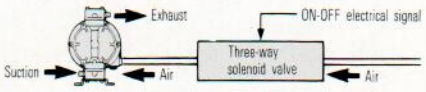


Example of operation



Pump starts or stops by opening or closing valve.

- Even when air is supplied, transferred liquid and air pressure are balanced, pump does not overload.



Pump starts or stops by ON-OFF of supply air though solenoid valve.

- Take necessary caution about installation place when using electrical signal such as solenoid valve.
- In case of solvent type, use explosion-proof solenoid valve. Selection of air type solenoid valve depends on operating condition, contorol system or voltage. Consult the manufacturer.

Bellows seal pump

BSP-A030

Model		BSP-A030	BSP-A030-T
Material	Wetted parts	aluminum, stainless	aluminum coated with fluorine containing resin, stainless
	Bellows	polypropylene	polypropylene
Pressure ratio		air pressure : paint pressure＝1:3	
Operating air pressure		0.1～0.69MPa	
Max paint pressure		2.1MPa	
Pint outlet per cycle		570mℓ/cycle	
Max paint output		40 ℓ/min	
Paint (ambient) Temperature		5～40	
Dimensions (WxDxH)		465×330×390	
Mass		26kg	
Air inlet		G3/8	
Paint inlet		G3/4	
Paint outlet		G3/4	

* BSP-A303-T has wetted parts that are with fluoine containing resin.

- For eco-friendly paint

Eco-friendly paint, such as water-based paint, tends to have high viscosity. With the 1:3 pressure ratio, the pump sucks the paint up and pumps it out easily.

- For circulating system

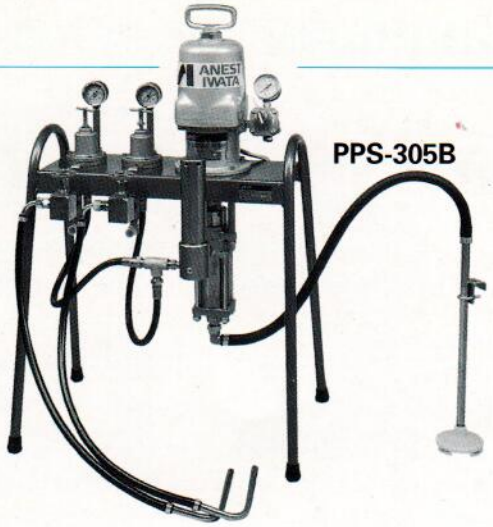
Great paint output per cycle allows stable output for more than one spray gun.

BSP can be put next to a spray booth and used as a satellite pump for circulating high viscosity paint.

To increase durability and to enhance stable output, we employed bellows sealing mechanism and, our own unique switching mechanism.

Paint Pump

PPS-102B



PPS-305B

Using high pressure plunger pump

●Air-driven plunger pump generates high pressure.

●Pressure-feed paint supply to reciprocator and automatic painting equipment.

Easy paint replenishment

●Just insert suction inlet of pump into a can of paint. Visual check of remaining paint amount.

Easy color changes and cleaning

●Color changes are smooth and operating efficiency increases.

High performance paint regulator

●You can obtain a precise paint pressure.

Model		PPS-102B	PPS-305B
Type		General purpose	General purpose (2-gun)
Dimensions (W×L×H)		480×380×700mm	640×410×890mm
Mass		16kg	29kg
Air inlet		G1/4 (PF1/4 male)	
Paint outlet		G3/8 (PF3/8 male)	G3/8 (PF3/8 male)×2
Paint filter		50 mesh×1 (intake)	70 mesh×1 (intake)
		60 mesh (intermediate)	70 mesh (intermediate)
Paint (ambient) temperature		less than 60°C	
Plunger pump model		PP-7021B (2.5:1)	PP-1051 (4.6:1)
Operating air pressure		0～0.69MPa	0～0.59MPa
Max. paint pressure		1.40MPa	2.35MPa
Paint output per cycle		90mℓ/cycle	150mℓ/cycle
Max. number of cycle		50 cycles/min.	
Max. output		4.5ℓ/min. (water. pump outlet)	7.5ℓ/min. (water. pump outlet)
Max. paint viscosity		less than 100 sec./NK-2	
Paint regulator	Model	PR-51	PR-51×2
	Adjustable paint pressure range	0～0.59MPa	
	Max. paint flow	2.0ℓ/min.	
Air regulator	Model	RR-55B	RR-57B
	Adjustable air pressure range	0～0.69MPa	0～0.59MPa
Paint intake hose		½ hose	½ hose
Applicable mixer		AMM-11 (option)	
Required compressor (for pump)		0.4～0.75 kw	0.75～2.2kW

Paint circulation valve

PRV-1-4 (for secondary circulation)
Adjusting range:
0～0.39MPa{0～4kgf/cm2}

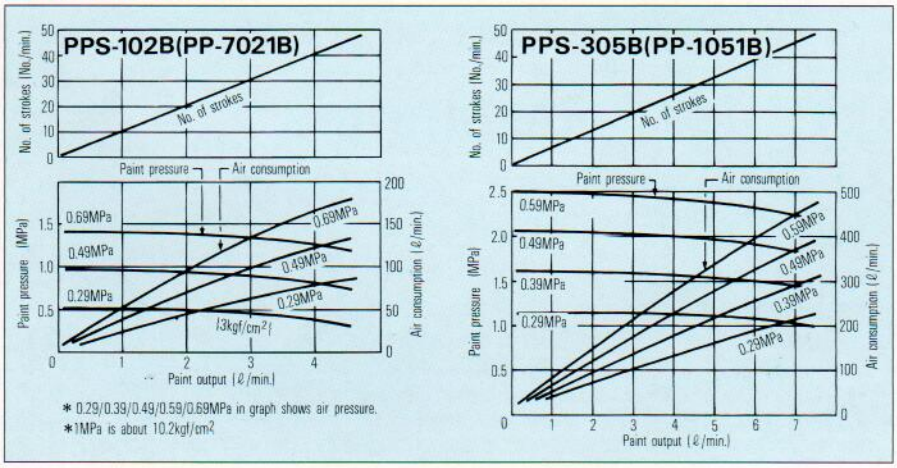
PRV-1-14 (for primary circulation)
Adjusting range:
0～1.37MPa{0～14kgf/cm2}

Inner Container

●This container is used inside the paint pressure tank and is useful for work requiring fre-quent color chang-es.

Model	For use with	Capacity(ℓ)	Note
PTC-10	PT-10D、10DM	8	For ordinary paint
PTC-20	PT-20D、20DM	18	
PTC-40	PT-40D、40DM	32	
PTC-60	PT-60D、60DM	50	
PTC-80	PT-80D、80DM	66	
PTC-102	PT-10DW、10DMW	8	For water-base paint (made of SUS)
PTC-202	PT-20DW、20DMW	18	
PTC-402	PT-40DMW	32	
PTC-602	PT-60DMW	50	
PTC-802	PT-80DMW	66	

Perfomance curve



* 0.29/0.39/0.49/0.59/0.69MPa in graph shows air pressure.
*1MPa is about 10.2kgf/cm2

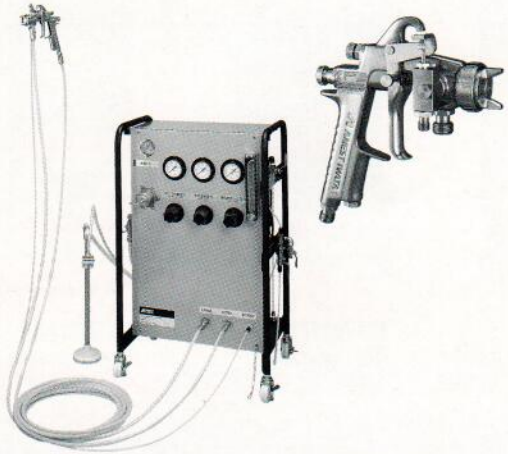
Caster base

●The caster base is convenient if the paint pressure tank must be moved often during the job.

Model	Applicable model
HG-5B	PT-40D, 40DM, 40DMW PT-60D, 60DM, 60DMW PT-80D, 80DM, 80DMW
HG-6B	PT-20D, 20DM, 20DW, 20DMW

Two-component Polyester system

TPS-A1B



- No time limitation, no wasting of paint.
- Light weight and compact gun body. Easy maintenance.
- Simple operation and adjustment.
- Hassle-free cleaning.
- Uncomplicated process of replenishing main agent/hardener.

Main unit specifications

Model		TPS-A1B
Parts for main agent supply	Upply system	Diaphragm pump DDP-90D
	Max operating pressure	0.7MPa
	Supply control	Paint regulator PR-5
	Max output	Operating pressure range 0～0.29MPa
Parts for hardener supply	Supply system	pressurized tank(wetted parts: stainless)
	Capacity of pressurized tank	Regular use 3.5 ℓ (in total4.8 ℓ)
	Operating pressure	Regular use 0.35MPa (max 0.5MPa)
	Pressure control system	Air regulator SVB-101-50 (with safety valve)
	Flow control system	Fluid flow meter (water 4-40mℓ/min)
	Filter	Resin filter mesh #150
Air inlet		G ¼ male
Dimensions (L×W×H)		490×352×784mm
Mass		31.5kg (Excluding accessories)
Standard accessories	Spray gun	TPG-200 (Outside mixing)
	Fluid hose set	PHN-6:5m (G ⅜ Joints are equipped on both ends (body side and gun side))
	Hardener hose set	Polyethylene tube:5m (G ⅛ Joints on both ends)
	Air hose set	EAHU-6:5m (G ¼ Joints are equipped on both ends (body side and gun side))
	Intake hose set	Fluid intake filter mesh #50

Two-component polyester gun specifications

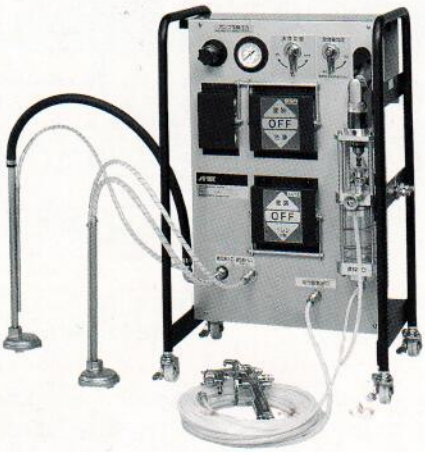
Model		TPG-200
Fluid nozzle orifice		ϕ 1.5
applied air cap model		K2 (Exclusive use air cap)
regular use air spray pressure		0.3MPa
Paint pressure	Main agent	Max 0.7MPa
	Hardener	Regular use 0.35MPa (Max 0.5MPa)
Hose connection	Main agent	G⅜B
	Hardener	M9×1
	Spray air	G⅜B
Mass (Spray gun only)		470g

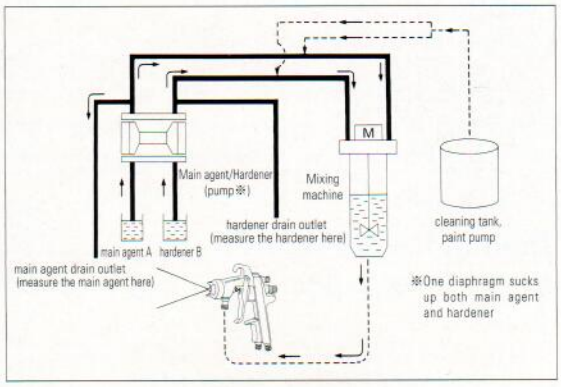
Operating conditions

- Standard viscosity of main agent less than 3 poise
- Standard dilution of hardener 100:100 (MEKPO : Ethyl Acetate)
- Range of mixing ratio 100:1～100:3(Main agent : hardener)

Two-component Urethane System

TUS-A1/-A2





- Simple operation
- High mixing ability
- High durability, easy maintenance
- Hassle-free cleaning
- Less hours of work
- Can manage various two-component urethane paints for wood.

Specifications

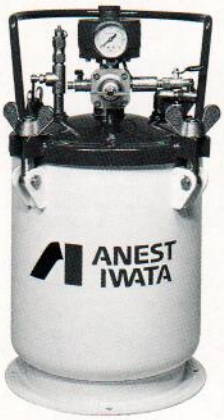
Model		TUS-A1	TUS-A2
Mixing ratio		1 : 1	2 : 1
Max output (mℓ/min)		800	
Operating fluid viscosity range (sec/NK-2)		Less then 60	
MPa:max pressure	Supplying air	0.39～0.69	
	Pump operating air	0.15～0.49	
	Cleaning liquid	0.15～0.29	
Error margin of mixing		With in ±10%	
standard accessories	Spray gun	W-100-082P	
	Fluid hose	Poly ϕ 6× ϕ 4×10	
	Air hose	EAHU−6×10	
	Dimensions (L×W×H)	490×350×784	
Mass		27Kg	

- Please prepare paint tank and paint pump as cleaning liquid supply equipment working with the TUS.

Paint pressure tank (Paint tank)

PT-10DM
Manual mixing

PT-40D
Automatic mixing



PT-20DMW
For water-based paint with automatic mixing

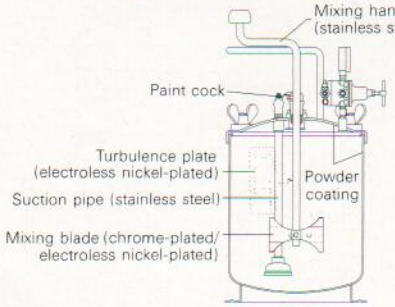
PT-101M
High-pressure automatic mixing

PT-201M
High-pressure automatic mixing

- For continuous painting of a single color, the 10 to 80 paint tank is very convenient.
- It is available in both manual and automatic models equipped with a mixer to prevent the paint from precipitating. The automatic model mixes paint continuously with an air motor, so it is especial-ly useful when using easily pre-cipitated paint and painting at a distance from the tank.

Paint pressure tank for water-base paint

- Interior wall has been treated to resist rust where it contacts paint. Inner containers of stainless steel are also available.
- These tanks are not for solvent paint
- Powder coating over interior wall and inner surface of lid.
- Manual mixing blade is chrome-plated and automatic mixing blade is electroless nickel-plated.
- Suction filter body, turbulence plate, support band, and fastening bands are electroless nickel-plated.
- Mixing handle, suction pipe, and bolts which become submerged in paint are stainless steel.



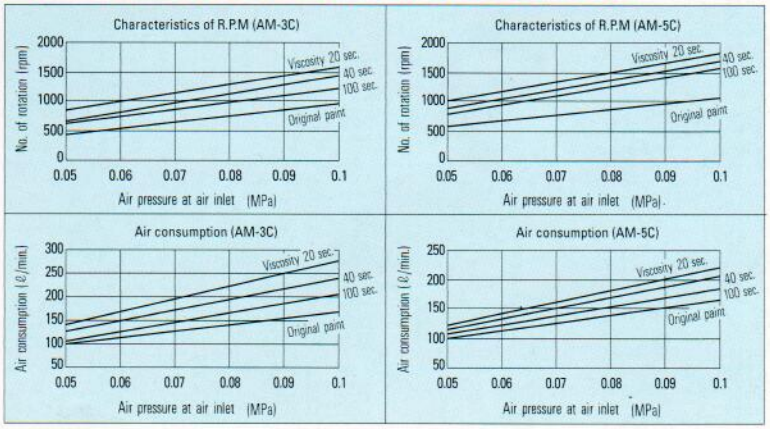
High pressure paint tank

- Suitable for painting high viscosity paints or adhesives. (Max. air operating pressure is 0.69MPa.)
- Rust preventive oil is applied to inner surface of tank and lid.

Type	Model	Capacity (ℓ)	Max. pressure (MPa)	Mixing method	Fluid outlet G(PF)	Approx.dimensions(mm) W	L	H	Approx. mass (kg)	Air motor installed
For ordinary paint	PT-10D	10	0.34	Manual	3/8×1	315	315	547	12.7	——
	PT-20D	20			3/8×1	310	390	652	19.5	
	PT-40D	40	0.18		3/8×2	460	465	700	27.0	
	PT-60D	60			3/8×2	500	465	885	35.0	
	PT-80D	80			3/8×2	500	465	1045	38.5	
	PT-10DM	10	0.34	Automatic	3/8×1	315	315	470	13.5	AM-5C
	PT-20DM	20			3/8×1	310	390	590	23.0	AM-3C
	PT-40DM	40	0.18		3/8×2	460	465	648	30.5	AM-3C
	PT-60DM	60			3/8×2	500	465	828	37.5	AM-3C
	PT-80DM	80			3/8×2	500	465	1000	42.0	AM-3C
For water-base paint	PT-10DW	10	0.34	Manual	3/8×1	315	315	547	12.7	——
	PT-20DW	20			3/8×1	310	390	652	19.5	
	PT-10DMW	10		Automatic	3/8×1	315	315	470	13.5	AM-5C
	PT-20DMW	20			3/8×1	310	390	590	23.0	AM-3C
	PT-40DMW	40	0.18		3/8×2	460	465	648	30.5	AM-3C
	PT-60DMW	60			3/8×2	500	465	828	37.5	AM-3C
	PT-80DMW	80			3/8×2	500	465	1000	42.0	AM-3C
For high pressure	PT-101M	10	0.69	Automatic	3/8×1	330	330	630	24.0	AM-5B
	PT-201M	20			3/8×1	450	450	900	33.0	AM-3B
	PT-361M	36			3/8×1	500	450	940	40.0	AM-3B

- A 50% increase in air motor torque for automatic mixing (compare with current models) enables stable mixing.
- The mass is 15% lighter than that of the current models, and makes color changing, cleaning, and transferring easier.

Characteristics of air motor (air-operated mixer).



About the use of paint pressure tanks overseas
Codes and standards for pressure vessels vary from country to country. Please contact us to see if our paint pressure tanks apply to your country specifications for pressure vessels.

Paint regulator PR-5/5N/5T/5L/5NL/5TL/51

- It adjusts paint output in ac-cordance with working condition and supplies at fixed pressure. Suitable for severe painting quali-ty control such as uniform film thickness.
- Accurate and reliable paint pres-sure adjustment and stable paint supply.
- Compact and lightweight. Easy to fit to paint piping.
- Excellent durability. Easy main-tenance due to small number of parts.
- PR-5N is of stainless steel spec-ifications.

Models	PR-5、5N、5T	PR-5L、5NL、5TL	PR-51
Adjustable pressure (MPa)	0~0.59	0~0.29	0~0.59
Max flow (ℓ /min)	2.0	1.5	2.0
Max primary pressure (MPa)	2.35	0.7	2.45
Connections	IN : G 3/8 OUT : G 1/4 B		
Mass (g)	850 (1020) for stainless models		900

Flow control valve FCV-3, 3N

- Air operation system enables you to adjust paint pressure by remote control.
- With wider range of adjustable paint pressure than FCV-1B/2B, new FCV handles high viscosity paint much easier.
- FCV-3N copes with water-based paint.

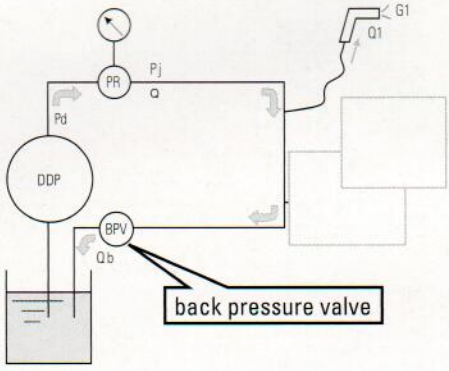
Models	FCV-3	FCV-3N
Adjustable pressure(MPa)	0.04~0.6	
Connections	IN : G 3/8 OUT : Rc 1/4×2	
Air inlet	Rc 1/8	
Max flow (mℓ/min)	2000	
Permissible primary pressure (MPa)	2.5	
Mass (g)	550	720

- FCV-3N is of stainless steel specifications.

Back pressure valve PR-B5/B5N

To construct a circulating line, install a back pressure valve into the DPS series.

Applications: To prevent pigments from settling out of paint, such as in metallic paint.
For a circulating line with multiple guns. (PR-B5/N stabilizes pint pressure)



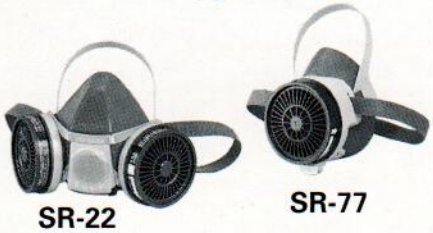
- Prevent precipitation: for metallic or other paints that tend to settle out.
- For a circulating line: With stable paint pressure, there is no paint output fluctuation.
- PR-B5N meets SUS specifications, and as well as for water-based paint.
- Easy installation into a paint regulator (PR-5) and pumps.

Turntable RT-14

- Suitable for small work. Painting by turning circular table by hand.

Respirators

- Use of respirators is required by law for painter's health, hygiene and safety.



SR-22 SR-77

Air-operated mixers (agitators)

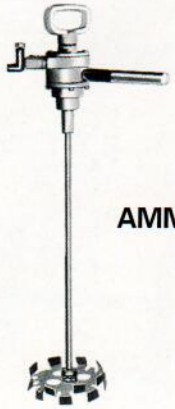
- Suitable for mixing paints and liquids using small motor. No danger of fire, ensuring worry-free use because of air-operated type.
- Compact and lightweight.
- Uses reduction gear to increase torque.
- Low-speed revolution ensures that no paint is denatured.

Item	Stand Type	Fixed Type	Manual Type
Model	**AMM-11**	**AMM-12, AMM-13**	**AMM-1**
Air Inlet	G¼ (PF¼male)	G¼ (PF¼male)	G¼ (PF¼male)
Air Motor	with reduction gear	with reduction gear	with reduction gear
Reduction Ratio	1 : 5	1 : 5	1 : 5
Applicable Viscosity (with NK-2)	Less than 60sec.	Less than 60sec.	Less than 60sec.
Dimensions (W×L×H)	455×430×500mm	124×117×495mm	270×130×695mm
Mass	7.3kg	2.1kg	2.5kg

*AMM-12equals AMM-11 without stand. If you use AMM-12 for other purposes, you need to fit it to 2.3mm thick plate.
*AMM-13 is for the exclusive use of theDPS-90LD, 90LPD, and 120L models.

AMM-11

AMM-12
AMM-13



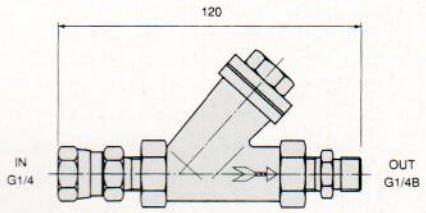
AMM-1

Paint intermediate filter TF-7, 71

- It can prevent dust which causes painting failure. Fit it to paint out-let of paint pump or paint tank, or between paint hoses.
- Standard filter : 100 mesh

※The 100, 150, and 200 mesh filters are available as spare filters.

- Max. operating pressure : 1.27 MPa



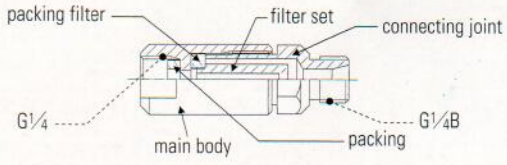
※IN and OUT of TF-71 are both G3/8

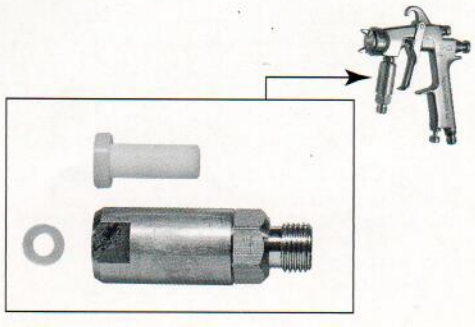
Filter set SFX-179

Standard mesh = 200 mesh (approx.)

- The 150, 200, and 300 mesh (approx.) filters are available as spare filters.
- Max operating pressure: 0.7MPa

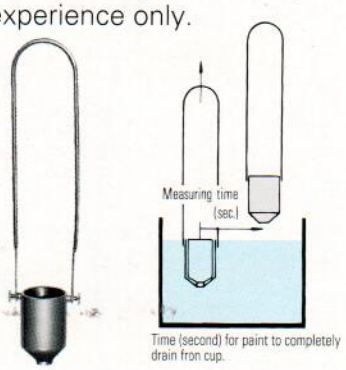
Filter set





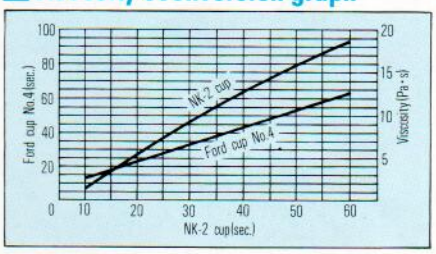
NK-2 viscosimeter

- Paint viscosity greatly affects painting quality and paint output. It is necessary to maintain appropriate viscosity to paint and work. You can control paint viscosity more scientifically with NK-2, not your experience only.



Time (second) for paint to completely drain fron cup.

Viscosity cconversion graph



〈Examples〉

①When it takes 50 seconds with NK-2, viscosity becomes about 16.0Pa・s.
②When it takes 30 seconds with NK-2, viscosity converted to Ford cup #4 becomes about 33 seconds.
*Viscosity cconversion uses JS-10/20/50/100/200 in JIS 8809-78 "Standard liquids for viscosimeter calibration".
*Above graph shows only rough reference figures which are not guaranteed figures.
*Measured figures will differ according to kind of paint, circumstances or method. When viscosity is more than 100 seconds, large errors may result.
*Since NK-2 cup is a tool to simply determine viscosity on-site and not a measuring instrument, measured figures cannot be used for other purposes.
*IPa・s equals 1,000 centipoise.

Multi spray unit

MSU-2000B

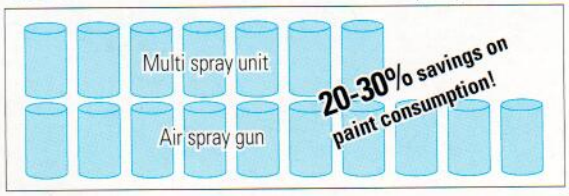
Fine finish, thick painting
Little bounceback
Increasing productivity
Paint-saving **Energy-saving**

The improved multi spray unit combines all the benefits of both airless spray and air spray.

1 You can get air spray gun feeling since it is about 70g lighter than previous model.

2 You can cover a wide area of work by a wide selection of nozzle tips in terms of paint output and pattern width.

3 You can save paint by about 20-30% more than air spray gun by excellent transfer efficiency. You can improve painting environment due to little bounceback and overspray.



4 You can paint inner surfaces or corners of boxes with ease due to excellent penetration. Thick film and fine finish can be obtained.

5 Energy-saving type can be operated with low noise of 65dB and up to 2HP compressor.

MSG-200
Manual gun

MSA-200
Automatic gun

Wide application

[metallic products]
steel furniture, office equipment, doors, sashes

[electric products]
home electronics, air conditioners, distribution panels, control panels, computer boxes

[wood products]
chests of drawers, book cases, tables, musical instruments, construction boards

[machinery]
construction machines, heavy machines, machine tools, agriculture machines

[vehicles]
refrigerated cars, buses, trucks, rolling stock

[construction]
steel frames, bridges, interior finish work

[others]
drums, tanks, inside of ships, engines, signboards, sheet metal

Model	MSU-2000B
Max. fluid pressure	9.8MPa
Normal fluid pressure	4.8MPa
Max. output	3.5ℓ/min.
Pressure ratio	17 : 1
Max. air pressure	0.49MPa
Air inlet	G1/4B(PF1/4male)
Dimension(L×W×H)	406×407×780mm
Mass	25kg
Fluid hose	10m(NHL-510)
Air hose	10m(EAHU-6)
Paint intermediate filter	TB-8(100 mesh)

Multi spray gun

Model	MSG-200	MSA-200
Max. fluid pressure	9.8MPa	
Normal fluid pressure	4.9MPa	
Normal atomizing air pressure	0.15MPa	
Gun filter	200mesh	
Mass	525g	710g

*Both gun attached to the unit and individual gun are equipped with nozzle tip.
*Operating paint viscosity is 0-50sec./NK-2.

Option

Nozzle tip (Nozzle tips for MSG-89 and MSA-89 are different model names)

Model	Fluid output		Pattern width cm
	mℓ/sec	ℓ/min	
NT-1502CMU	3	0.18	13~18
NT-1503CMU	4.5	0.27	
NT-2002CMU	4	0.24	18~23
NT-2003CMU	6	0.36	
NT-2004CMU	8	0.48	
NT-2005CMU	10	0.60	
NT-2503CMU	7.5	0.45	23~28
NT-2504CMU	10	0.60	
NT-2505CMU	12.5	0.75	

Model	Fluid output		Pattern width cm
	mℓ/sec	ℓ/min	
NT-3003CMU	9	0.54	28~33
NT-3004CMU	12	0.72	
NT-3005CMU	15	0.90	
NT-3006CMU	18	1.08	
NT-3503CMU	10.5	0.63	33~38
NT-3504CMU	14	0.84	
NT-3505CMU	17.5	1.05	
NT-3506CMU	21	1.26	

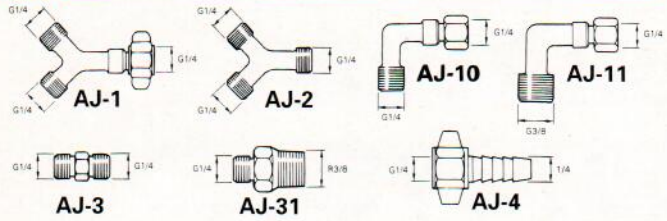
*Fluid output and pattern width are measured under the conditions of melamine paint, viscosity of 20 seconds/NK-2, fluid pressure of 4.9MPa and fan pattern at 250mm spray distance.

Fluid hose

Model	Inner dia. × hose length	Connection	Withstanding pressure	Hose color
NHL-505	φ5mm×5m	G1/4 (PF1/4)	11.8MPa	Translucent green
NHL-510	φ5mm×10m			
NHL-520	φ5mm×20m			

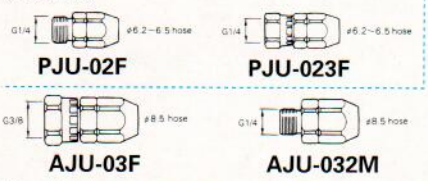
Joints, Hoses

Air joint

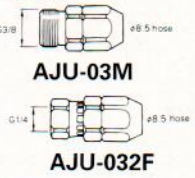


Joint for urethane air hose

for EAHU-6

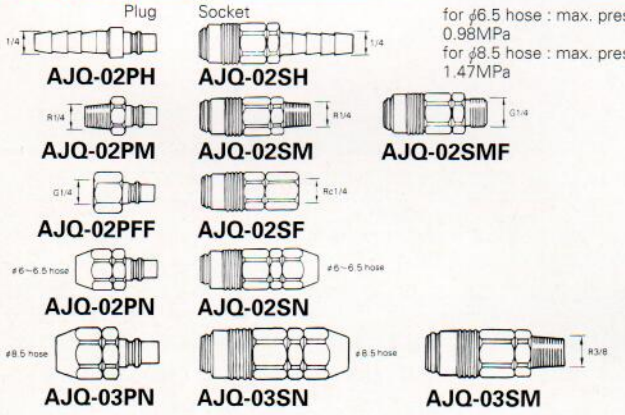


for AHU-8



※Joint for previous urethane air hose (AHU-6) are AJU-02F and AJU-02M.

Air quick joint (※2)



for φ6.5 hose : max. pressure 0.98MPa
for φ8.5 hose : max. pressure 1.47MPa

(※1) ●For exclusive use as an air hose. DO NOT USE AS A FLUID HOSE
●When you do not use the grounding wire, do not take it out. But be sure to distinguish clearly between a hose which uses a grounding wire and one which does not use, in order to avoid wrong usage.

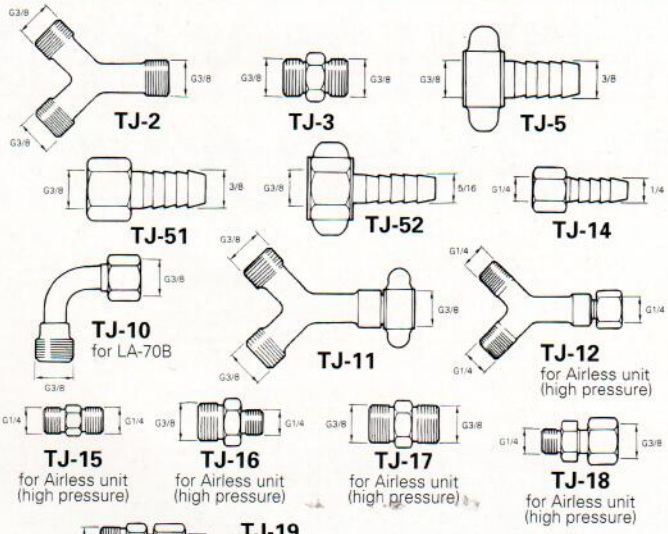
Air house (※2)

Model	Material	Inner dia. ×outer dia. × length	Max.operating pressure
EAHU-620	Urethane with built-in grounding wire	φ6.2×φ9.3×20m	1.47MPa
EAHU-630		φ6.2×φ9.3×30m	
EAHU-650		φ6.2×φ9.3×50m	
EAHU-6100		φ6.2×φ9.3×100m	
EAHU-820		φ8.5×φ12×20m	
EAHU-8100		φ8.5×φ12×100m	
AHU-820	Urethane	φ8.5×φ12×20m	
AHU-830		φ8.5×φ12×30m	
AHU-850		φ8.5×φ12×50m	
AHU-8100		φ8.5×φ12×100m	

⚠ Caution : Caution: Handling of air hose with the grounded wire (※2)

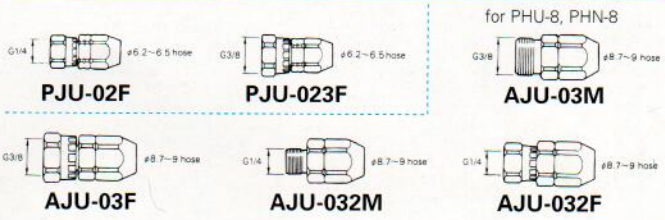
●Connecting equipment must be grounded since this hose has a built-in grounded wire.
●Whether or not you use the grounded wire. never use this hose as an air hose to supply air to electrostatic spray equipment or isolation stand when you use low resistance paint. In such a case, use an urethane air hose (AHU-8) or fluid hose (PHU, PHN) as air hose.
●When you use the grounded wire, refer to the electrostatic spray equipment instruction manual and periodically check its conductivity. Never use a hose which has deteriorated or is cut.
●Never use this air hose as a fluid hose.
●When you do not use the grounded wire, do not take it out. But be sure to distinguish clearly between a hose which uses a grounded wire and one which does not use, in order to avoid wrong usage.

Fluid joint



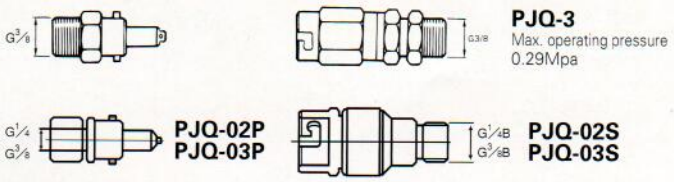
ISO standard (previous description)
G1/4(PF1/4)
G3/8(PF3/8)
R1/4(PT1/4 male)
Rc1/4(PT1/4 female)
R3/8(PT3/8 male)

Joint for fluid hose



for PHU-8, PHN-8

Fluid quick joint



PJQ-3
Max. operating pressure 0.29Mpa

PJQ-02P
PJQ-03P

PJQ-02S
PJQ-03S

Fluid hose (※3)

Model	Material	Inner dia. ×outer dia. × length	Max.operating pressure
PHU-620	Urethane	φ6.2×φ9.3×20m	0.69MPa
PHU-6100		φ6.2×φ9.3×20m	
PHU-820		φ8.7×φ12×20m	
PHU-8100		φ8.7×φ12×20m	
PHN-620	Nylon	φ6.5×φ9.5×20m	0.69MPa
PHN-6100		φ6.5×φ9.5×100m	
PHN-820		φ8.9×φ12.1×20m	
PHN-8100		φ8.9×φ12.1×100m	
THU-620	Urethane (twin)	φ6.2×φ9.3×2×20m	0.69MPa
THU-6100		φ6.2×φ9.3×2×100m	

*Air hose side of THU-6 twin hose includes an orange string and the model's name.

⚠ Caution : Selection of fluid hose (※3)

●Do not use urethane hoses (PHU, THU) when you use ketonic solvents, two-component paints, urethane paints and thinners which easily dissolve or react since urethane hoses will crack and paint will fly. In such a case, use nylon fluid hose (PHN).

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JISQ 14001
JAB
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Models, specifications and photos are subject to change without notice.

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