



Antistatic tube

- Outer diameter: 3.2mm, 4mm, 6mm, 8mm, 10mm, 12mm

RoHS

Features

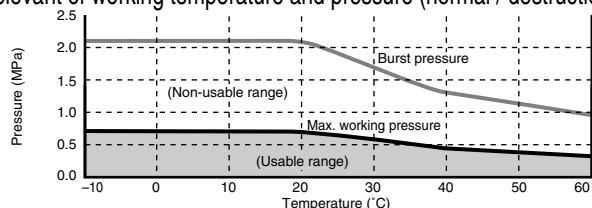
- Resistant to static electricity and dust build-up
- Variety of colors
Tubing is available in black, white, clear, clear blue, or clear green.
Colors can be used for the application.
- Standard clean specifications (F2 Series)
- Diverse lineup
• Six diameters are available: 3.2, 4, 6, 8, 10, and 12.

UP-F2 Series(ø3.2 to ø6)

Specifications

Descriptions	UP-91**-F2-P80		
O.D. × I.D. mm × mm	ø3.2 × ø1.8 (Note)	ø4 × ø2.5	ø6 × ø4
Working fluid	Compressed air		
Max. working pressure MPa	0.7 (20°C)		
Ambient temperature range °C	0 to 60 (no freezing)		
Durometer hardness (JIS K 7215)	HDA94 (reference)		
Mini. bending radius (JIS B 8381) mm	4	6	12
Min. installation radius mm	8	11	18
Burst pressure MPa	2.1 (20°C)		
Volume resistance ratio (JIS K 6911) Ω·cm	Black: 10 ⁴ to 10 ⁵ , other colors: 10 ¹⁰ to 10 ¹¹ (referential value)		
Material	Antistatic urethane		
Color	Black, white, clear, clear blue, clear green, clear red (Note)		

Relevant of working temperature and pressure (normal / destruction)

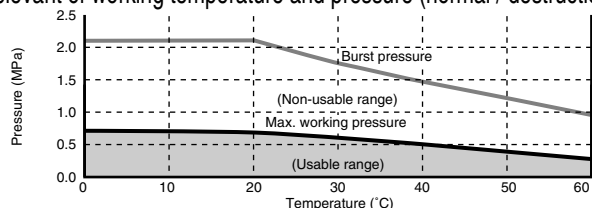


UP-F1 Series (ø8 to ø12)

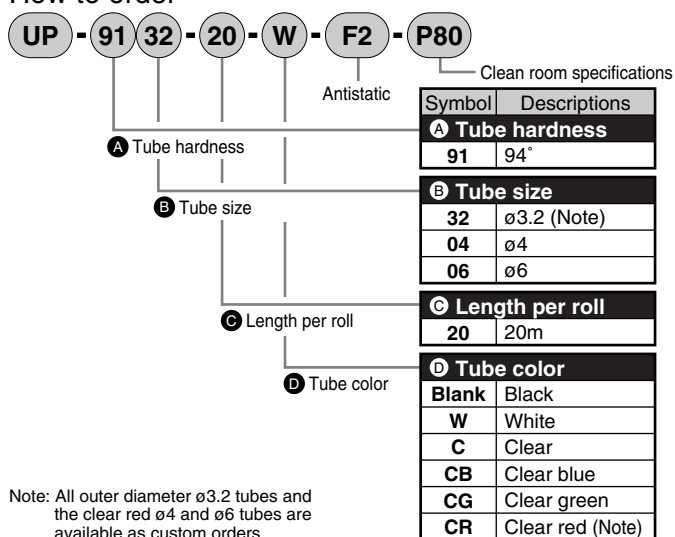
Specifications

Descriptions	UP-92**-F1		
O.D. × I.D. mm × mm	ø8 × ø5	ø10 × ø6.5	ø12 × ø8
Working fluid	Compressed air		
Max. working pressure MPa	0.7 (20°C)		
Ambient temperature range °C	0 to 60 (no freezing)		
Durometer hardness (JIS K 7215)	HDA92 (reference)		
Mini. bending radius (JIS B 8381) mm	10	13	16.5
Min. installation radius mm	25	30	36
Burst pressure MPa	2.1 (20°C)		
Volume resistance ratio (JIS K 6911) Ω·cm	Black: 10 ⁴ to 10 ⁸ , other colors: 10 ⁸ to 10 ¹² (referential value)		
Material	Antistatic urethane		
Color	Black, white, clear, clear blue, clear green		

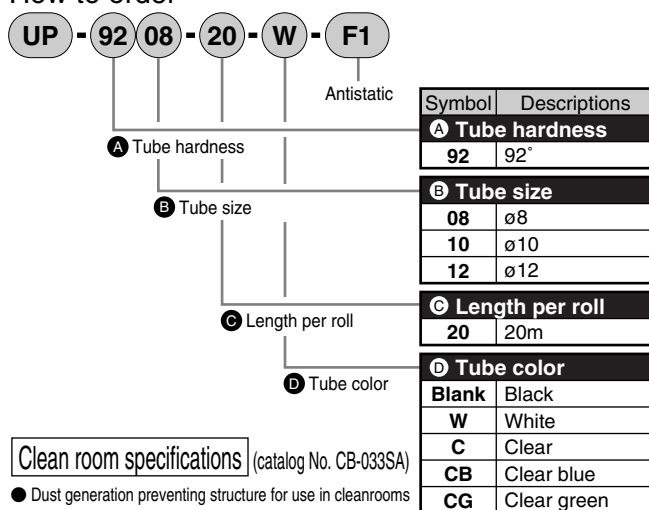
Relevant of working temperature and pressure (normal / destruction)



How to order



How to order



Refrigerating type dryer

Desiccant type dryer

High polymer membrane type dryer

Air filter

Auto. drain / others

F.R.L. (Module unit)

F.R.L. (Separate)

Compact F.R.

Precise regulator

F.R.L. (Related products)

Clean F.R.

Electro pneumatic regulator

Air booster

Speed control valve

Silencer

Check valve / others

Joint / tube

Vacuum filter

Vacuum regulator

Suction plate

Magnetic spring buffer

Mechanical pressure SW

Electronic pressure SW

Contact / close contact cont. SW

Air sensor

Pressure SW for coolant

Small flow sensor

Small flow controller

Flow sensor for air

Flow sensor for water

Total air system

Total air system (Gamma)

Ending

Antistatic tube

Joint / tube

Antistatic tube

Dedicated joint / speed control valve (Custom order)

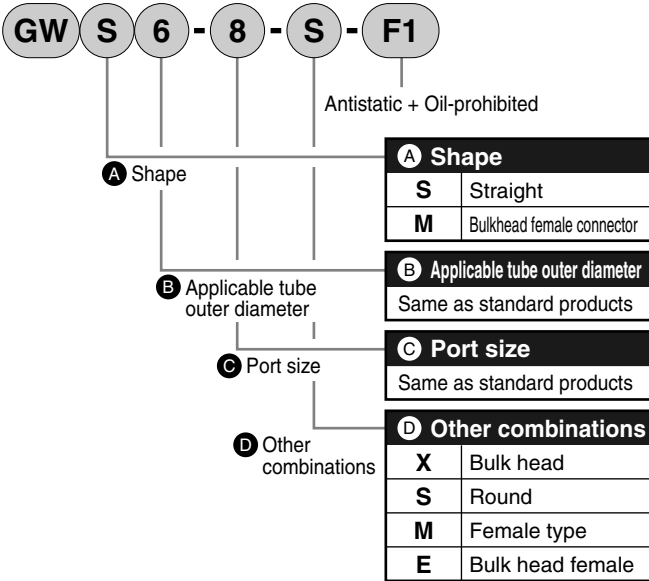
Specifications

Descriptions		Descriptions	
Volume resistance ratio	Ω·cm	10 ⁴ to 10 ⁶ or less (reference value)	
Resin		Antistatic PBT (black)	
Lubricant		Oil-prohibited	

Note: Other specifications are the same as the standard products. Refer to the specifications of joint GW Series or speed control valve SC3W Series.

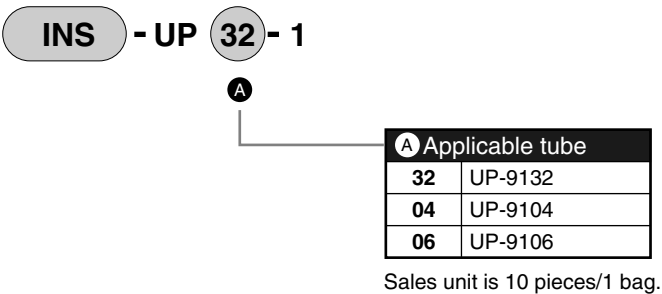
How to order

● Dedicated joint

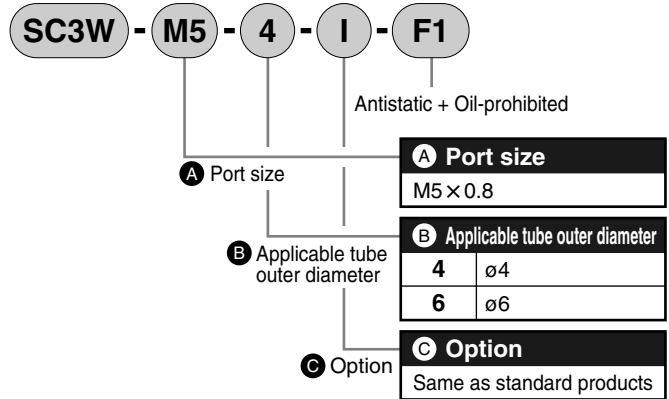


* "-F1" is selected for the end of the new joint GW series model.
Refer to How to order for joint GW Series for model details.
* Consult with CKD for models other than above.

● Insert ring



● Speed control valve



* "-F1" is selected for the end of the speed control valve SC3W series model.
Refer to How to order for speed control valve SC3W Series for model details.
* Consult with CKD for models other than above.

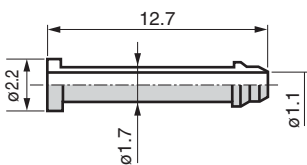
Dimensions

● Dedicated joint / speed control valve

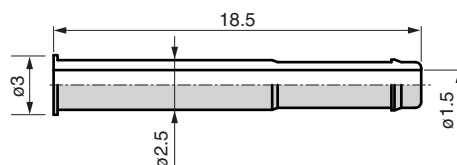
Refer to the dimensions for joint GW Series (pages 930 to 943) and speed control valve SC3W Series (pages 842 to 845).

● Insert ring <custom order>

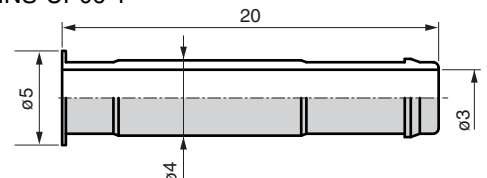
• INS-UP32-1



• INS-UP04-1



• INS-UP06-1



Material: Brass + electroless nickeling

Safety precautions

CAUTION

Design & Selection

- Be sure to ground the member connected to the joint. Otherwise electrostatic discharge could build up in tubing.
- When using tubing where electrostatic discharge must be prevented, select "black" tubing.
- Use the same size of urethane tubing, pushin joint, and insertion ring.
- When using with vacuum pressure with a push-in joint, use the insert ring.
- Use CKD brand joints and tubes.
- Do not apply a pulling force exceeding the values given on the right onto the joint or tube.

Tube outer diameter	Pulling force (N)
ø3.2	30
ø4	30
ø6	55
ø8	110
ø10	150
ø12	180

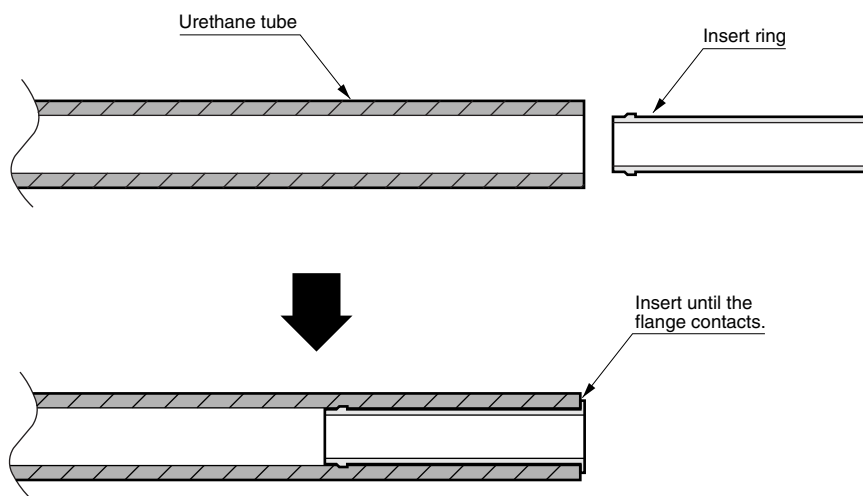
Installation & Adjustment

- The insertion ring is pulled out of urethane tubing with a finger when changing or modifying after piping is connected. The insertion ring need not be discarded.

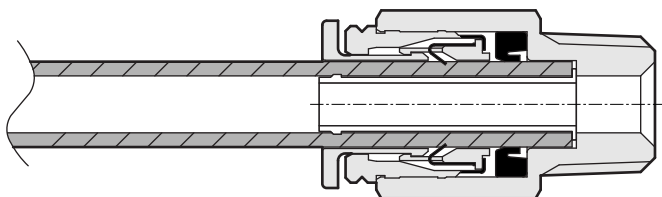
During Use & Maintenance

- Insert the insertion ring by hand. Otherwise it could deform or break and cause vacuum leakage if inserted with a tool.
- How to install the product

1. Insert the insertion ring into urethane tubing with a finger.



2. Insert into the pushin joint (GW Series).



Refrigerating type dryer
Desiccant type dryer
High polymer membrane type dryer
Air filter
Auto. drain / others
F.R.L. (Module unit)
F.R.L. (Separate)
Compact F.R.
Precise regulator
F.R.L. (Related products)
Clean F.R.
Electro pneumatic regulator
Air booster
Speed control valve
Silencer
Check valve / others
Joint / tube
Vacuum filter
Vacuum regulator
Suction plate
Magnetic spring buffer
Mechanical pressure SW
Electronic pressure SW
Contact / close contact cont. SW
Air sensor
Pressure SW for coolant
Small flow sensor
Small flow controller
Flow sensor for air
Flow sensor for water
Total air system
Total air system (Gamma)

Ending

Antistatic tube
Joint / tube