Series variation

Fiber tube

Fiber tube series name		Fiber tube	Fiber tube color						Dedicated fitting		Page		
		size O.D. x I.D.	Black	White	Clear	Clear		Yel.	Red	Green	Dedicated litting		i age
Antiototic	UP-9102-F1 Series (Note: Only for barbed fitting)	φ1.8×φ1.0	•	•	•	•	•	•	•			Barbed fitting with retainer collar	790
Antistatic	UP-9402-F1 Series (Note: Only for push-in fitting)	φ1.8×φ1.2	•	•	•	•	•	•	•		PG Series (Note)	Push-in fitting	798
Clean-room	EH Series	φ1.8×φ1.2	•		•						CG Series	Push-in fitting	802
Flame-resistant	UP-SR Series	φ1.8×φ1.0							•	•	RG Series	Push-in fitting	811

(Note) As for the antistatic, use a fitting specified for each series.

▲: Custom order product

A different fitting cannot be used. (Since the fiber tube may come off or leakage may occur.)

Features

The fiber tube is an extremely thin, flexible air tube comparable to the lead wire. It enables easy piping in narrow spaces or short distances. In addition, the tube resistance (tube stress) after piping is much smaller than those of conventional products and has almost no effect on the device accuracy. The fiber tube is suitable for small bore size air cylinder piping and saves system space.

Energy saving/space saving

O.D. ϕ 1.0 ultra thin size.

Can considerably save piping space. In addition, the small tube capacity can save energy.







Fiber tube $\phi \textbf{1.8} \times \textbf{20} \text{ tubes:} \textbf{80 mm}^{2}$

Flexible piping

Conventional products φ3.2 x 20 tubes:253mm²

Conventional products φ4.0 x 20 tubes:396mm²

No effect on device accuracy

As the tube stress after piping is only the same level as that of lead wire, the effect on device accuracy is extremely small.



Pipe stress is small

Antistatic and dust-proof tube (UP-F1 Series)

Antistatic treated to prevent accumulation of static electricity and dust.

Clean room (EH Series)

Various types are available

Clean-room specifications with highly corrosionresistant materials (tube: special polyolefin, fitting: stainless steel).

Ideal for environments that require cleanness (semiconductor manufacturing, medical and food fields, etc.)

Flame-resistant (UP-SR Series)

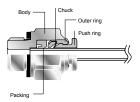
Flame-resistant resin fiber tube and fitting (push ring and elbow body) (UL94 standard V-0 or equivalent).

Dedicated fittings

Push-in (PG/CG/RG Series)

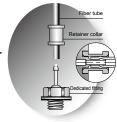
Push and hold the push ring of the fitting and attach or detach the tube. (UP-9402-F1 Series, EH Series, UP-SR Series)

Highly bendable and flexible in mounting, enabling piping in narrow spaces or short distances from 200 to 300 mm.



With retainer collar (PTN*2 Series)

Put the retainer collar on the fiber tube, connect the fiber tube to the dedicated fitting and protect with the retainer collar. (UP-9102-F1 Series)



other
Jnt/tube
AirUnt
PrecsCompn
Mech/
ElecPresSw
ContactSW
AirSens
PresSW
Cool
AirFloSens/
Contr

TotAirSys

(Total Air)

TotAirSys

(Gamma

RefrDry

DesicDry HiPolymDry

F.R.L
F (Filtr)
R (Reg)
L (Lub)
PresSW
Shutoff
SlowStart
FImResistFR
Oil-ProhR
MedPresFR

PTFE FRL

Outdrs FR F.R.L (Related)

CompFRL LgFRL

PrecsR

VacF/R

Clean FR

ElecPneuR

AirBoost

SpdContr

Silncr

CheckV/

Dischrg etc

Ending

MainFiltr

F.R.L

F (Filtr)

R (Reg)

L (Lub)

PresSW

Shutoff

SlowStart

FImResistFR

Oil-ProhR

MedPresFR

No Cu/ PTFE FRL

Outdrs FR

F.R.L (Related)

CompFRL

LgFRL

PrecsR

VacF/R

Clean FR

ElecPneuR

AirBoost

SpdContr

Silncr CheckV/ other

Jnt/tube

AirUnt

PrecsCompn

Mech/ ElecPresSw

ContactSW AirSens

PresSW Cool

AirFloSens/ Contr

WaterRtSens

TotAirSys (Total Air)

TotAirSys (Gamma)

RefrDry

DesicDry

HiPolymDry

MainFiltr

Dischrg etc

Series variation



Tube size φ1.8 x φ1.0

Dedicated fitting

Port size: M3, M5, R1/8, φ4, φ6





	■ Straight	■ Elbow		■ Barbed nipple	
	Comp	patible tube O.D. φ	Compatible tube O.D. φ		Compatible tube O.D. φ
		1.8	1.8		1.8/3.2
<u>6</u>					1.8/4
Dedicated fitting					1.8/6

F.R.L

F (Filtr)

R (Reg)

L (Lub)

PresSW

Shutoff

SlowStart

Olowotait

FImResistFR

Oil-ProhR

MedPresFR

No Cu/ PTFE FRL

Outdrs FR

F.R.L

(Related)

CompFRL

LgFRL

PrecsR VacF/R

Clean FR

ElecPneuR

AirBoost

SpdContr

Silncr CheckV/

other

Jnt/tube

AirUnt

PrecsCompn

ElecPresSw

ContactSW

AirSens

PresSW Cool AirFloSens/

Contr

WaterRtSens

TotAirSys

(Total Air)

TotAirSys

RefrDry

DesicDry

HiPolymDry

MainFiltr

Dischrg etc

Specifications F.R.L

Tube

F (Filtr) R (Reg) L (Lub) PresSW Shutoff SlowStart FlmResistFR Oil-ProhR MedPresFR No Cu/ PTFE FRL Outdrs FR FRI

(Related) CompFRL LgFRL **PrecsR** VacF/R Clean FR ElecPneuR

AirBoost

SpdContr

Silncr

CheckV/ other

Jnt/tube

AirUnt

PrecsCompn

ElecPresSw

ContactSW

AirSens

PresSW

AirFloSens/

WaterRtSens

TotAirSys

(Total Air)

TotAirSys (Gamma)

RefrDry

DesicDry

HiPolymDry

MainFiltr

Dischrg

etc

Cool

Contr

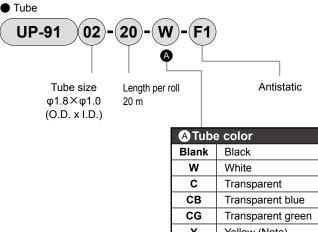
Descriptions	UP-9102-20-*-F1
Working fluid	Compressed air
Working pressure (20°C (68°F)) (*1)	-100 kPa (≈-15 psi, -1 bar) to 0.7 MPa (≈100 psi, 7 bar)
Ambient temperature °C	-10 (14°F) to 60 (140°F) (no freezing)
O.D. x I.D. mm	1.8×1.0
Inside diameter accuracy	±0.1
Diametral accuracy	±0.1
Min. bending radius (JIS B 8381) mm	2
Min. installation radius mm	4
Burst pressure (20°C (68°F)) MPa	2.1 (≈300 psi, 21 bar) (reference value)
Volume resistance ratio Ω·cm	1 x 108 or less (black) 1 x 1012 or less (other than black)
Material	Conductive urethane
Color	Black, white, transparent (clear / blue / green), yellow ("2), red ("2)
Applicable fitting	PTN* Series (barbed) (*5)

Dedicated fitting

Dedicated fitting			
Descriptions	PTN*		
Port size	M3, M5, R 1/8, φ3.2 ^(*4) , φ4 ^(*4) , φ6 ^(*4)		
Working fluid	Compressed air		
Working pressure	-100 kPa (≈-15 psi, -1 bar) to 0.7 MPa (≈100 psi, 7 bar)		
Ambient temperature °C	-10 (14°F) to 60 (140°F) (no freezing)		
Tube used	UP-9102-20-*-F1 (*6)		
Effective cross-sectional area mm²	Straight, barbed nipple: 0.3 elbow: 0.2		
Flow rate (*3)	Straight, barbed nipple: 20 elbow: 13		
Working pressure Ambient temperature °C Tube used Effective cross-sectional area mm²	Compressed air -100 kPa (≈-15 psi, -1 bar) to 0.7 MPa (≈100 psi, 7 bar) -10 (14°F) to 60 (140°F) (no freezing) UP-9102-20-*-F1 (*6) Straight, barbed nipple: 0.3 elbow: 0.2		

- *1: For the working pressure, refer to the figure of "Ambient temperature and pressure (use/burst)".
- *2: Custom order.
- *3: Flow rate is the atmospheric pressure conversion at 0.5 MPa.
- *4: Compatible tube: Soft nylon tube (model No. FH-3224, F-1504, F-1506) Urethane tube (model No. U-9504, U-9506)
- *5: Not available for PG, CG, RG Series (push-in).
- *6: Fiber tube for push-in fitting (UP-9402, EH-5802) is not available.

How to order

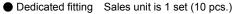


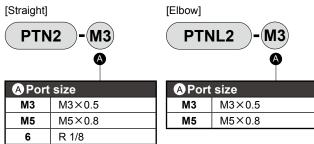
Yellow (Note) R Red (Note)

Note: Custom order product.

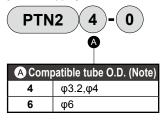
Clean-room specifications (Catalog No. CB-033SA)







[Barbed nipple]



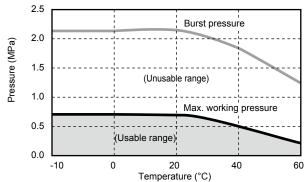
Note: Compatible tube

Soft nylon tube (model No. FH-3224, F-1504, F-1506) Urethane tube (model No. U-9504, U-9506)

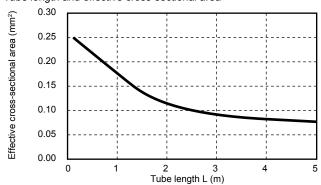
Characteristics graph/internal structure and parts list

Characteristics graph

Ambient temperature and pressure (use/burst)

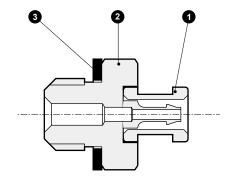


Tube length and effective cross-sectional area

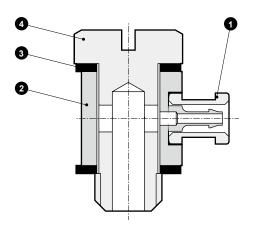


Internal structure and parts list

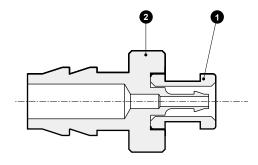
Straight



Elbow



Barbed nipple



Parts list

No.	Name	Material
1	Collar	Copper alloy (with electroless nickeling)
2	Body	Copper alloy (with electroless nickeling)
3	Gasket	Stainless steel + nitrile rubber
4	Shaft	Copper alloy (with electroless nickeling)

F.R.L

F (Filtr)

R (Reg)

L (Lub)

PresSW Shutoff

SlowStart

FlmResistFR
Oil-ProhR

MedPresFR

No Cu/ PTFE FRL Outdrs FR

F.R.L (Related)

CompFRL

LgFRL

PrecsR

VacF/R

Clean FR

ElecPneuR

AirBoost

SpdContr Silncr

CheckV/ other

Jnt/tube

AirUnt

PrecsCompn Mech/

ElecPresSw ContactSW

AirSens

PresSW Cool

AirFloSens/ Contr

WaterRtSens
TotAirSys
(Total Air)

TotAirSys (Gamma)

RefrDry DesicDry

HiPolymDry

MainFiltr Dischrg etc



F (Filtr)

R (Reg)

PresSW Shutoff

SlowStart FlmResistFR

Oil-ProhR MedPresFR

No Cu/ PTFE FRL Outdrs FR

F.R.L (Related)

LgFRL PrecsR

VacF/R

Clean FR ElecPneuR

AirBoost SpdContr

Silncr CheckV/

Jnt/tube

AirUnt PrecsCompn

Mech/ ElecPresSw ContactSW

AirSens
PresSW
Cool
AirFloSens/

Contr WaterRtSens

TotAirSys (Total Air) TotAirSys (Gamma)

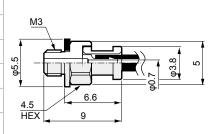
RefrDry DesicDry

HiPolymDry

MainFiltr Dischrg etc

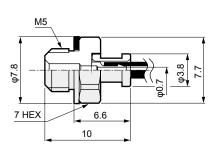
Ending

● Straight [PTN2-M3]



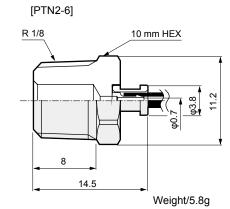
Weight/0.7 g

[PTN2-M5]

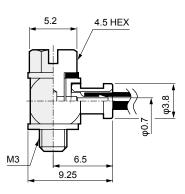


Weight/1.6g

[Sales unit is 10 pcs./bag]



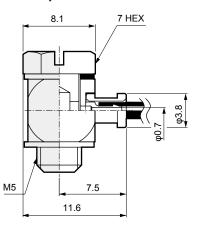
● Elbow [PTNL2-M3]

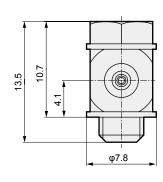


φ5.5

Weight/1.7g

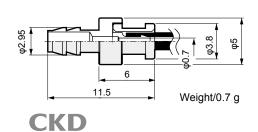
[PTNL2-M5]

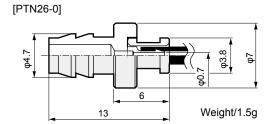




Weight/4.2g







792

Caution

▲ Safety precautions

Design/selection

This is an extremely fine tube, so the effective cross-sectional area is extremely small. Use with a standard cylinder may cause failure to obtain set speed, delayed response, or knocking.

The pipe length should be 1 m or less, and the fine speed cylinder (catalog No. CC-N-360A) be used.

Because the fiber tube is thin, the vacuum in the vacuum device increases and delays the response of the vacuum switch during vacuum burst when used with an ejector.

■ Installation/adjustment (piping)

Tighten pipes with the appropriate torque.

The purpose is to prevent air leakage and damage to bolts. First tighten the bolts by hand to ensure that the threads are not damaged, then use a tool. Check that the tool's hexagon face and wrench are the correct size. [reference value]

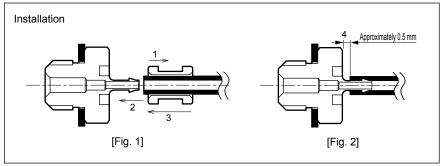
Port size	Tightening torque N⋅m
М3	0.3 to 0.5
M5	1 to 1.5
R 1/8	3 to 5

^{*} The M3 thread could be damaged by excessive tightening torque.

- On equipment that requires antistatic measures, ground the part where the fitting has been connected. Electrostatic discharge could build up in the tubing if the part is not grounded.
- The elbow be rotated randomly and installed, but it cannnot be rotated after assembly.
- R 1/8 does not have sealant. Separately prepare sealing tape, etc.

Use/maintenance

Mounting and removal



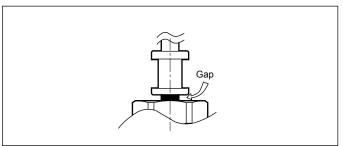
- (1) Insert the collar into the tube. (Fig. 1)
- (2) Insert the tube to position 4. (Fig. 2)
- (3) Insert the collar into the fitting. (Fig. 1)
- (4) Check that the tube is not dislocated from the fitting.

Note: Do not tilt the tube when inserting it into the far end of the fitting. The barbed fitting is thin and could be damaged by a lateral load.

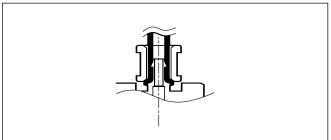
- Removal
- Pull the collar out with a pair of needlenosed pliers, etc.
- (2) Pull out the tube.
- (3) When reusing the tube, cut 10 mm or more off the end.

Note: If the tube is pulled forcefully while the collar is attached, the tube could be deformed, the flow obstructed, or the tube dislocated during use.

Precautions after mounting



(1) Check that there is no gap between the collar and fitting. (The fitting could break or the tube could be dislocated.)



(2) If the collar does not go in, the tube may ride up on it as shown above. Follow mounting and removal procedures and assemble the collar at a position 0.5 mm from the tube.

F.R.L

F (Filtr)
R (Reg)

L (Lub)

PresSW

Shutoff

SlowStart

FImResistFR

Oil-ProhR

MedPresFR

No Cu/ PTFE FRL

Outdrs FR

F.R.L (Related)

CompFRL

LgFRL

PrecsR

VacF/R

Clean FR

ElecPneuR

AirBoost

SpdContr

Silncr CheckV/

other Jnt/tube

AirUnt

PrecsCompn

Mech/ ElecPresSw

ContactSW

AirSens

PresSW

AirFloSens/ Contr

WaterRtSens

TotAirSys (Total Air) TotAirSys

(Gamma)

RefrDry DesicDry

HiPolymDry

MainFiltr Dischrg

> etc Ending



F.R.L

F (Filtr)

R (Reg)

L (Lub)

PresSW

Shutoff

SlowStart

FImResistFR

Oil-ProhR

MedPresFR

No Cu/ PTFE FRL

Outdrs FR

F.R.L (Related)

CompFRL

LgFRL

PrecsR

VacF/R

Clean FR

ElecPneuR

AirBoost

SpdContr

Silncr CheckV/ other

Jnt/tube

AirUnt

PrecsCompn

Mech/ ElecPresSw

ContactSW

AirSens

PresSW Cool AirFloSens/ Contr

WaterRtSens

TotAirSys (Total Air)

TotAirSys (Gamma)

RefrDry

DesicDry

HiPolymDry

MainFiltr

Dischrg etc

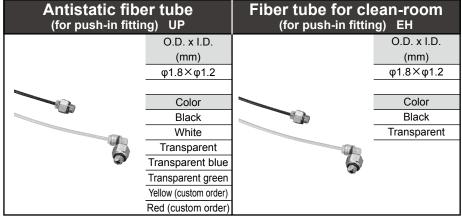
Series variation

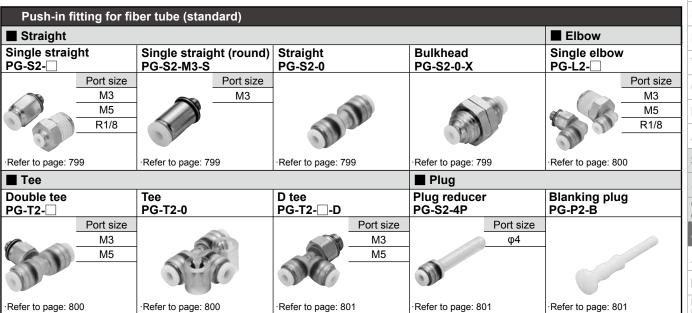
Antistatic and clean-room fiber tube (for push-in fitting)

Tube size I.D. φ1.8 x φ1.2

Push-in fitting for fiber tube

M3, M5, R1/8, φ4 Port size





Refer to page: 804

Sales unit of standa	rd is 10 pcs./bag.			
Push-in fitting for fiber	tube (clean-room)			
■ Straight			■ Elbow	■ Tee
Single straight CG-S2-□	Straight CG-S2-0	Bulkhead CG-S2-0-X	Single elbow CG-L2-□	Double tee CG-T2-□
Port size			Port siz	e Port size
M3			M3	
M5			M5	M5
R1/8		(F)	R1/8	
Refer to page: 803	·Refer to page: 803	·Refer to page: 803	·Refer to page: 804	Refer to page: 804
■ Tee				Transfer to page. 66 1
Tee	Sales unit of clean-room is 1 pc./1 bag.			
CG-T2-0	-	_		

CKD

795

R (Reg) L (Lub)

F.R.L

F (Filtr)

PresSW

Shutoff SlowStart

FImResistFR Oil-ProhR

MedPresFR No Cu/

PTFE FRL Outdrs FR

FRI (Related) CompFRL

LgFRL

PrecsR VacF/R

Clean FR

ElecPneuR AirBoost

SpdContr

Silncr CheckV/

other Jnt/tube

AirUnt

PrecsCompn ElecPresSv

ContactSW

AirSens PresSW Cool

AirFloSens/ Contr

VaterRtSens TotAirSys Total Air)

TotAirSys

RefrDry

DesicDry

liPolymDry MainFiltr

Dischra etc



Fiber tube (for push-in fitting)

- O.D.: φ1.8 x I.D.: φ1.2
- Antistatic (UP-9402-F1)
- Clean-room (EH-5802)



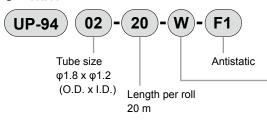
Specifications

Opcomodions		
Model No.	Antistatic UP-9402-F1	Clean-room EH-5802
Working fluid	Compre	ssed air
Working pressure (20°C (68°F)) (*1)	-100 kPa (≈-15 psi, -1 bar) to 0.8 MPa (≈120 psi, 8 bar)	-100 kPa (≈-15 psi, -1 bar) to 1.0 MPa (≈150 psi, 10 bar)
Ambient temperature °C	-10 (14°F) to 60 (14°F)	40°F) (no freezing)
O.D. x I.D. mm	φ1.8>	(φ1.2
Inside diameter accuracy mm	±0	.1
Diametral accuracy mm	±0	.1
Durometer hardness	HDA 94	HDD 58
Min. bending radius (JIS B 8381) mm	4	5
Min. installation radius mm	4	7
Burst pressure (20°C (68°F)) MPa	2.5 (≈360 psi, 25 bar)	3.8 (≈550 psi, 38 bar)
Volume resistance ratio $\Omega \cdot cm$	10 ¹⁰ to 10 ¹²	-
Material	Antistatic urethane	Special polyolefin
Color	Black/white/transparent (clear/blue/green), yellow/red (*2)	Black/transparent
Applicable fitting	PG/CG Series	s (push-in) *3

- *1: For the working pressure, refer to the graph of "Ambient temperature and pressure (use/burst)".
- *2: Yellow and red are custom-ordered parts.
- *3: This cannot be used with a barbed fitting (PTN*).

How to order

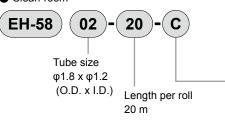
Antistatic



Tube Color	
Blank	Black
W	White
С	Transparent
СВ	Transparent blue
CG	Transparent green
Υ	Yellow (Note)
R	Red (Note)

Note: Custom order product.

Clean-room



Tube color		
Blank	Black	
С	Transparent	

Ending

R (Reg)

F.R.L

F (Filtr)

PresSW Shutoff

SlowStart

FImResistFR
Oil-ProhR

MedPresFR No Cu/

Outdrs FR

(Related) CompFRL

LgFRL

PrecsR VacF/R

Clean FR

ElecPneuR AirBoost

SpdContr

Silncr CheckV/ other

Jnt/tube AirUnt

PrecsCompn

ElecPresSw ContactSW

AirSens PresSW Cool

AirFloSens/ Contr WaterRtSens

TotAirSys (Total Air) TotAirSys (Gamma)

RefrDry

DesicDry HiPolymDry

MainFiltr

Dischrg etc

Litaling

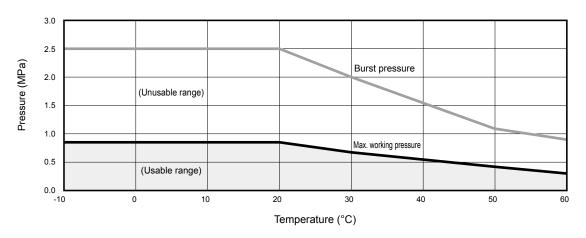
Fiber tube (for push-in fitting)

Characteristics graph

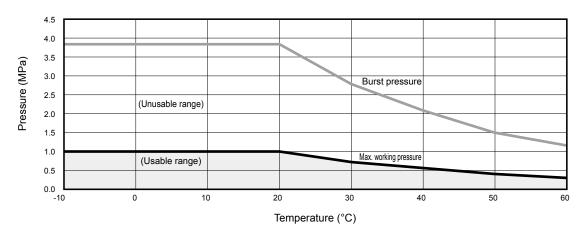
Characteristics graph

Ambient temperature and pressure (use/burst)

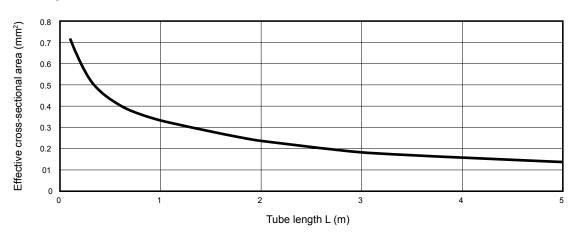
UP-9402-F1



EH-5802



● Tube length and effective cross-sectional area



The tubing inlet and outlet are measured with a single straight (PG-S2-M5) attached.

F.R.L

F (Filtr)

R (Reg)

L (Lub)

PresSW

Shutoff

SlowStart

FImResistFR

Oil-ProhR

MedPresFR

No Cu/ PTFE FRL

Outdrs FR

F.R.L (Related)

CompFRL

LgFRL

PrecsR

VacF/R

Clean FR

ElecPneuR

AirBoost

SpdContr

Silncr

CheckV/ other

Jnt/tube

AirUnt

PrecsCompn

Mech/

ElecPresSw ContactSW

AirSens PresSW

Cool
AirFloSens/

Contr

WaterRtSens

TotAirSys (Total Air)

TotAirSys

RefrDry

DesicDry

HiPolymDry

MainFiltr

Dischrg etc



Push-in fitting for fiber tube

Standard **PG** Series

Compatible tube O.D.: φ1.8

Port size: M3 to R1/8





Specifications

PresSW

Shutoff SlowStart FlmResistFR Oil-ProhR MedPresFR

No Cu/ PTFE FRL

Outdrs FR FRI (Related)

CompFRL

LgFRL

PrecsR

VacF/R

Clean FR

ElecPneuR

AirBoost

SpdContr

Silncr

CheckV/ other

Jnt/tube AirUnt

PrecsCompn

ElecPresSw ContactSW AirSens PresSW Cool AirFloSens/ Contr WaterRtSens TotAirSys (Total Air) TotAirSys (Gamma) RefrDry DesicDry HiPolymDry

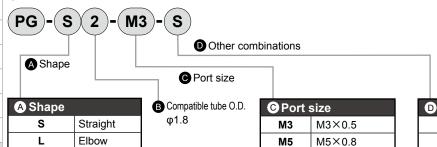
Model No.	PG Series
Working fluid	Compressed air
Working pressure	-100kPa (≈-15 psi, -1 bar) to 1.0 MPa (≈150 psi, 10 bar)
Ambient temperature °C	-10 (14°F) to 60 (140°F) (no freezing)
Tube used	Fiber tube (UP-9402-F1, EH-5802) *1

^{*1:} Fiber tube for barbed fitting (UP-9102-F1) is not available.

How to order

* Refer to the model No. on the dimensions page (pages 799 to 801) for the model No. combination.

Standard



6

0

4P

В

R1/8

No thread

Plug for φ4

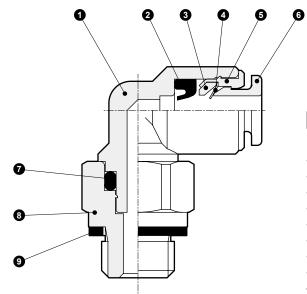
Blanking plug

O Chape	
S	Straight
L	Elbow
Т	Tee
Р	Plug

Note: Sales unit is 10 pcs./bag.

Other combinations							
S	Round shape						
D	D type						
Х	Bulkhead						
	_						

Internal structure and parts list



No.	Part name	Material
1	Body *1	Polypropylene (translucent)
		Copper alloy (electroless nickeling)
2	Packing	Hydrogenated nitrile rubber
3	Chuck holder	Polypropylene (translucent)
4	Chuck	Stainless steel
5	Outer ring	Copper alloy (electroless nickeling)
6	Push ring *2	Polypropylene (white)
7	O-ring	Nitrile rubber
8	Nipple	Copper alloy (electroless nickeling) (R1/8 includes sealant.)
9	Gasket	Stainless steel + nitrile rubber

^{*1:} The body of the single straight, single straight (round) and bulkhead is copper alloy (electroless nickeling).

MainFiltr Dischrg etc

Ending

798

^{*2:} Sales unit is 1 set (10 pieces).

^{*2:} The PG Series is white.



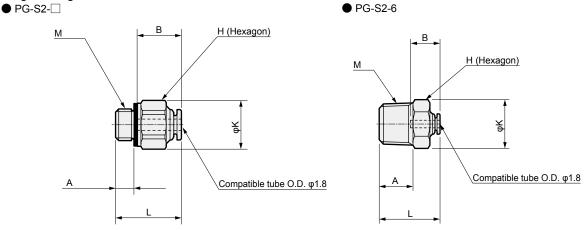
Dimensions

Dimensions: Single straight/single straight (round)/straight/bulkhead



[Sales unit is 10 pcs./bag]

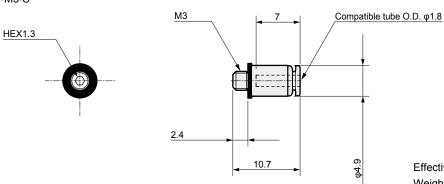




Model No.	М	Н	K	L	Α	В	Min. bore size	Eff. X-sectional area mm²	Weight g
PG-S2-M3	M3×0.5	5.5	6	10.7	2.4	7	1.5	0.92	1.1
PG-S2-M5	M5×0.8	7	7.7	10.4	2.9	7	1.5	0.92	1.8
PG-S2-6	R1/8	10	11.6	14.4	8	7	1.5	0.97	5.6

Single straight (round)

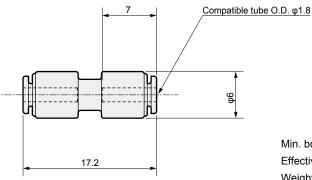
● PG-S2-M3-S



Effective cross-sectional area: 0.92 mm² Weight: 0.7g

Straight

● PG-S2-0



Min. bore size: φ1.5

Effective cross-sectional area: 0.82mm² Weight: 0.7g

Bulkhead

PG-S2-0-X

10 mm HEX

Compatible tube O.D. φ1.8

4 (max. panel thickness)

17

Min. bore size: φ1.5

Effective cross-sectional area: 0.85mm²

Weight: 5.3g

CKD

F.R.L

F (Filtr)

R (Reg)

L (Lub)

PresSW

Shutoff

SlowStart

FImResistFR

Oil-ProhR MedPresFR

No Cu/ PTFE FRL

Outdrs FR F.R.L

(Related)
CompFRL

LgFRL

PrecsR

VacF/R

Clean FR

ElecPneuR AirBoost

SpdContr

Silncr

CheckV/ other

Jnt/tube

AirUnt

PrecsCompn

ElecPresSw ContactSW

AirSens

PresSW Cool AirFloSens/

Contr WaterRtSens

TotAirSys

(Total Air)
TotAirSys

(Gamma)

RefrDry

DesicDry

HiPolymDry MainFiltr

Dischrg etc

PG Series

Dimensions: Single elbow/double tee/tee



[Sales unit is 10 pcs./bag]

F (Filtr) Single elbow R (Reg)

F.R.L

L (Lub)

PresSW Shutoff SlowStart FImResistFR Oil-ProhR

MedPresFR No Cu/ PTFE FRL

Outdrs FR F.R.L (Related) CompFRL LgFRL PrecsR

VacF/R Clean FR

ElecPneuR AirBoost SpdContr

Silncr CheckV/

Jnt/tube

AirUnt

PrecsCompn

ElecPresSw ContactSW AirSens PresSW Cool

AirFloSens/

WaterRtSens TotAirSys

(Total Air) TotAirSys (Gamma) RefrDry DesicDry HiPolymDry

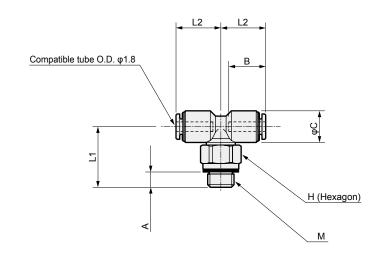
Contr

● PG-L2-□ ● PG-L2-6 L2 L2 Compatible tube O.D. φ1.8 Compatible tube O.D. φ1.8 В H (Hexagon) H (Hexagon) ⋖ Μ М

Model No.	M	Н	L1	L2	Α	В	С	Min. bore size	Eff. X-sectional area mm²	Weight g
PG-L2-M3	M3×0.5	5.5	11	8.5	2.4	7	6	1.5	0.83	4
PG-L2-M5	M5×0.8	7	11.5	8.5	2.9	7	6	1.5	0.83	4.8
PG-L2-6	R1/8	10	15	8.5	8	7	6	1.5	0.70	8.6

Double tee

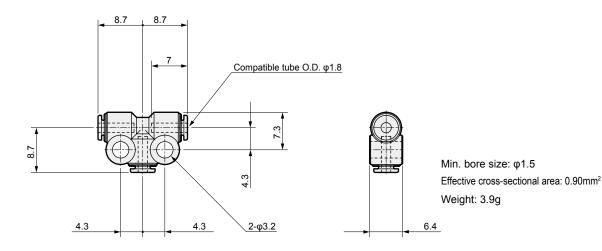
● PG-T2-□



Model No.	M	Н	L1	L2	Α	В	С	Min. bore size	Eff. X-sectional area mm ²	Weight g
PG-T2-M3	M3×0.5	5.5	11	8.5	2.4	7	6	1.5	1.10	1.4
PG-T2-M5	M5×0.8	7	11.5	8.5	2.9	7	6	1.5	1.25	3.1

Tee

● PG-T2-0



Ending

MainFiltr

Dischrg etc



Dimensions: D tee/plug reducer/blanking plug

CAD

[Sales unit is 10 pcs./bag]

D tee

● PG-T2-□-D

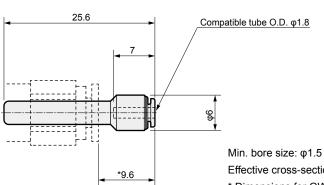
7

H (Hexagon)

Model No.	M	Н	L1	L2	Α	В	С	Min. bore size	Eff. X-sectional area mm²	Weight g
PG-T2-M3-D	M3×0.5	5.5	11	8.5	2.4	7	6	1.5	1.05	2.1
PG-T2-M5-D	M5×0.8	7	11.5	8.5	2.9	7	6	1.5	1.40	2.2

Plug reducer

● PG-S2-4P

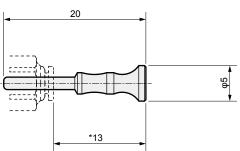


Effective cross-sectional area: 0.97mm²

* Dimensions for GWS4-M5 fitting.

Weight: 0.5g

Blanking plug ● PG-P2-B



Material: Polypropylene (PP)

* Dimensions for PG/CG Series fittings.

Weight: 0.1g

F.R.L

F (Filtr)

R (Reg)

L (Lub)

PresSW

Shutoff

SlowStart

FImResistFR

Oil-ProhR

MedPresFR

No Cu/ PTFE FRL

Outdrs FR F.R.L

(Related) CompFRL

LgFRL

PrecsR

VacF/R

Clean FR ElecPneuR

AirBoost

SpdContr

Silncr CheckV/

other Jnt/tube

AirUnt

PrecsCompn

ElecPresSw

ContactSW

AirSens

PresSW Cool

AirFloSens/ Contr

WaterRtSens

TotAirSys (Total Air)

TotAirSys

RefrDry

DesicDry HiPolymDry

MainFiltr Dischrg etc



Push-in fitting for fiber tube

Clean-room CG Series

Compatible tube O.D.: φ1.8

Port size: M3 to R1/8





Overview

PresSW

Shutoff

SlowStart

FImResistFR

Oil-ProhR MedPresFR No Cu/ PTFE FRL Outdrs FR FRI (Related) CompFRL

LgFRL

PrecsR

VacF/R

Clean FR

ElecPneuR

AirBoost

SpdContr

Silncr

CheckV/

Jnt/tube

AirUnt

PrecsCompn

Mech/ ElecPresSw ContactSW AirSens PresSW Cool AirFloSens/ Contr WaterRtSens TotAirSys (Total Air) TotAirSys (Gamma)

The CG Series includes fittings for clean environments for semiconductor manufacturing, medical equipment and foodstuffs.

P.P. resin, stainless steel and EPDM rubber are provided to improve corrosion resistance.

This product is assembled with oil-prohibited specifications and shipped in clean packaging.

Specifications

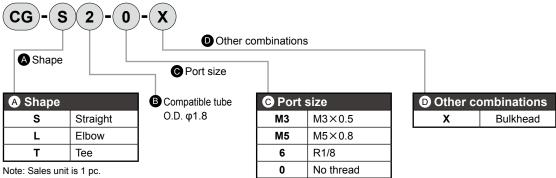
Model No.	CG Series							
Working fluid	Clean air (*1)							
Working pressure	-100kPa (≈-15 psi, -1 bar) to 1.0 MPa (≈150 psi, 10 bar)							
Ambient temperature °C	-10 (14°F) to 60 (140°F) (no freezing)							
Lubricant	Oil free							
Tube used	Fiber tube (UP-9402-F1, EH-5802)	*2						

- *1: Rubber EPDM material is used, so this product cannot be used with fluids that contain mineral oil.
- *2: Fiber tube for barbed fitting (UP-9102-F1) is not available.
- *3: Sales unit is one piece.

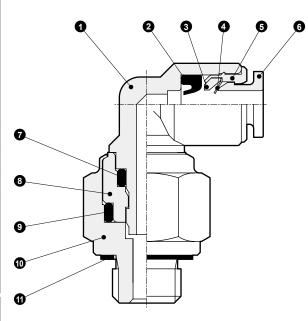
How to order

* Refer to the model No. on the dimensions page (pages 803 to 804) for the model No. combination.





Internal structure and parts list



No.	Part	name	Material					
1	Body *1		Polypropylene (translucent)					
			Stainless steel (SUS304)					
2	Packing		Ethylene propylene rubber					
3	Chuck holde	er	Polypropylene (translucent)					
4	Chuck		Stainless steel (SUS301)					
5	Outer ring		Stainless steel (SUS304)					
6	Push ring		Polypropylene (translucent)					
7	O-ring		Ethylene propylene rubber					
8	Stopper		Stainless steel (SUS304)					
9	O-ring		Ethylene propylene rubber					
10	Nipple M3,M5		Stainless steel (SUS304)					
	R1/8		Polypropylene (translucent)					
11	Gasket		Stainless steel + fluoro rubber					

^{*1:} The body of the single straight (M3, M5) and bulkhead is stainless steel.

A CAUTION

The durability of the CG Series packing (material: EPDM) is susceptible to mineral oil, so it cannot be used to pipe general pneumatic components.

The R1/8 thread does not have a sealant on the threads. Use the PG Series for piping to general pneumatic components.

RefrDry DesicDry

HiPolymDry

MainFiltr

Dischrg etc

Ending

802

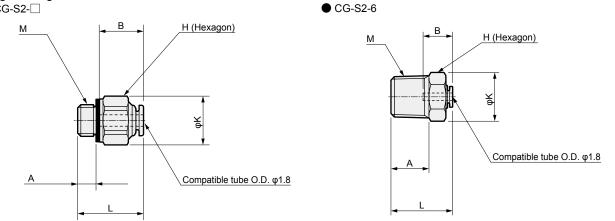


Dimensions: Single straight/straight/bulkhead



[Sales unit is 1 pc./bag]

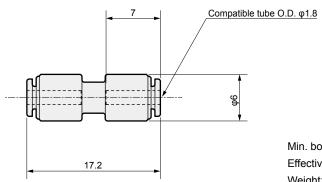




Model No.	М	н	K	L	Α	В	Min. bore size	Eff. X-sectional area mm ²	Weight g
CG-S2-M3	M3×0.5	5.5	6	10.7	2.7	7	1.5	0.92	0.8
CG-S2-M5	M5×0.8	7	7.7	10.4	3.2	7	1.5	0.92	1.2
CG-S2-6	R1/8	10	11.6	14.6	9	7	1.5	0.97	1.1

Straight

● CG-S2-0



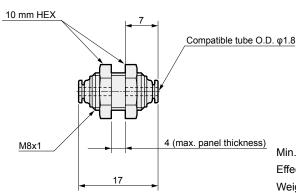
Min. bore size: φ1.5

Effective cross-sectional area: 0.82mm²

Weight: 0.5g

Bulkhead

● CG-S2-0-X



Min. bore size: φ1.5

Effective cross-sectional area: 0.85mm²

Weight: 5.8g

F.R.L

F (Filtr)

R (Reg)

L (Lub)

PresSW

Shutoff

SlowStart

FImResistFR

Oil-ProhR

MedPresFR No Cu/ PTFE FRL

Outdrs FR F.R.L

(Related) CompFRL

LgFRL

PrecsR

VacF/R

Clean FR ElecPneuR

AirBoost

SpdContr

Silncr

CheckV/ other

Jnt/tube

AirUnt

PrecsCompn

ElecPresSw

ContactSW

AirSens

PresSW Cool AirFloSens/

Contr WaterRtSens

TotAirSys (Total Air)

TotAirSys

RefrDry

DesicDry HiPolymDry

MainFiltr

Dischrg etc

Dimensions: Single elbow/double tee/tee



[Sales unit is 1 pc./bag]



F.R.L

L (Lub)

PresSW Shutoff

SlowStart

FImResistFR Oil-ProhR

MedPresFR

No Cu/ PTFE FRL

Outdrs FR F.R.L (Related) CompFRL LgFRL PrecsR

VacF/R

Clean FR

ElecPneuR

AirBoost SpdContr Silncr CheckV/ other Jnt/tube

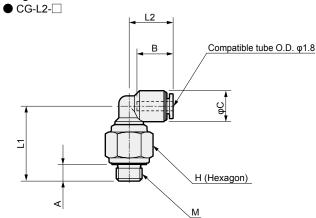
AirUnt PrecsCompn

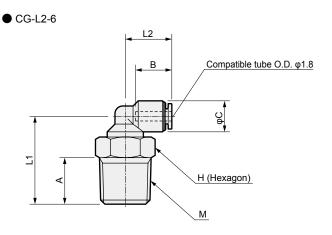
ElecPresSw ContactSW AirSens PresSW Cool AirFloSens/

Contr

WaterRtSens TotAirSys (Total Air)

TotAirSys (Gamma) RefrDry DesicDry HiPolymDry

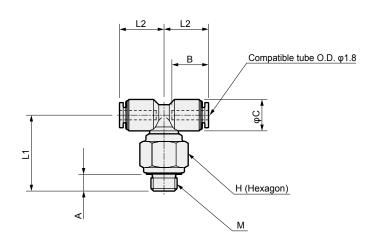




Model No.	M	Н	L1	L2	Α	В	С	Min. bore size	Eff. X-sectional area mm²	Weight g
CG-L2-M3	M3×0.5	8	14	8.5	2.7	7	6	1.5	0.81	2.7
CG-L2-M5	M5×0.8	8	14.5	8.5	3.2	7	6	1.5	0.81	3.1
CG-L2-6	R1/8	10	17	9	9	7	6	1.5	0.84	1.2

Double tee

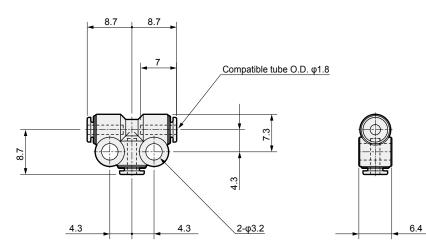
● CG-T2-□



Model No.	M	Н	L1	L2	Α	В	С	Min. bore size	Eff. X-sectional area mm ²	Weight g
CG-T2-M3	M3×0.5	8	14	8.5	2.7	7	6	1.5	0.96	2.8
CG-T2-M5	M5×0.8	8	14.5	8.5	3.2	7	6	1.5	1.25	3.7

Tee

● CG-T2-0



Min. bore size: φ1.5 Effective cross-sectional area: 0.90mm² Weight: 1.1g

Dischrg etc

MainFiltr

CKD



Speed controller, elbow with push-in fitting

SC3W Series (Low speed fiber tube, push-in specifications)

Compatible tube O.D.: φ1.8

Port size: M3, M5

JIS symbol





Custom order product

L (Lub)

Specifications

Opcomo	2110110						
Model No.		SC3	W				
Compatible	tube O.D.	φ1.8	8				
Working fluid	t	Compress	sed air				
Max. workin	g pressure MPa	1.0 (≈150 ps	si, 10 bar)				
Min. working	pressure MPa	0.05 (≈7.3 ps	si, 0.5 bar)				
Proof pressu	ıre MPa	1.5 (≈220 ps	si, 15 bar)				
Fluid temper	rature °C	5 (41°F) to 60 (140	5 (41°F) to 60 (140°F) (no freezing)				
Ambient tem	perature °C	0 (32°F) to 60 (140	°F) (no freezing)				
Port size		M3	M5				
Knob value	(times)	14 or more	16 or more				
Free flow	Flow rate {/min	20	54				
riee ilow	Effective cross-sectional area mm ²	0.3	0.8				
Controlled	Flow rate {/min	5.9	6.7				
flow	Effective cross-sectional area mm ²	0.08	0.1				
Tube used		Fiber tube (UP-9402-F1, EH-5802) *1					
Weight	g	6.1	9.4				

^{*1:} Fiber tube for barbed fitting (UP-9102-F1) is not available.

How to order

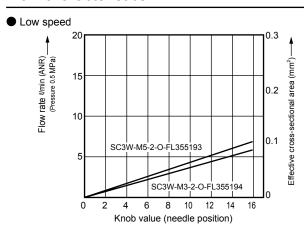
Port size: M3

SC3W-M3-2-O-FL355193

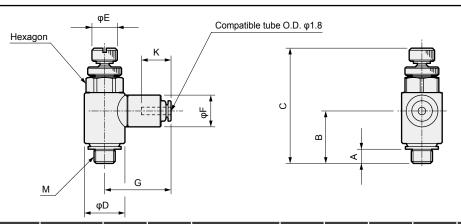
Port size: M5

SC3W-M5-2-O-FL355194

Flow characteristics



Dimensions



Model No.	М	Α	ь	(;	D	_	_	G	V	Havagan
Model No.	IVI	^		MIN	MAX	_ b	-		G	, r	Hexagon
SC3W-M3-2-O-FL355193	M3×0.5	2.4	11.4	25.1	27.6	7.4	5	7.5	15.3	7	7
SC3W-M5-2-O-FL355194	M5×0.8	3.4	12.4	27.2	30.2	9.6	6	7.5	15.3	7	8

CKD

F.R.L

F (Filtr)

R (Reg)

PresSW

Shutoff SlowStart

FImResistFR

Oil-ProhR MedPresFR

No Cu/ PTFE FRL

Outdrs FR F.R.L

(Related) CompFRL

LgFRL

PrecsR VacF/R

Clean FR

ElecPneuR

AirBoost

SpdContr

Silncr CheckV/ other

Jnt/tube

AirUnt

PrecsCompn

Mech/
ElecPresSw

ContactSW AirSens

PresSW Cool AirFloSens/

Contr WaterRtSens

TotAirSys (Total Air) TotAirSys

(Gamma) RefrDry

DesicDry

HiPolymDry

MainFiltr Dischrg etc

Speed controller Line type with push-in fitting

SCL2 Series (Fine speed fiber tube, push-in specifications)

Compatible tube O.D.: φ1.8, φ4

JIS symbol



Custom order product

Specifications

F.R.L

F (Filtr)

L (Lub) PresSW

Shutoff
SlowStart
FImResistFR
Oil-ProhR
MedPresFR
No Cu/
PTFE FRL
Outdrs FR
F.R.L
(Related)
CompFRL
LgFRL
PrecsR

VacF/R

Clean FR

ElecPneuR

AirBoost

SpdContr

Silncr

CheckV/

Jnt/tube

AirUnt PrecsCompn

Mech/

ElecPresSw ContactSW

AirSens PresSW

Cool
AirFloSens/
Contr

WaterRtSens

TotAirSys

(Total Air)

TotAirSys

(Gamma)

RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg

other

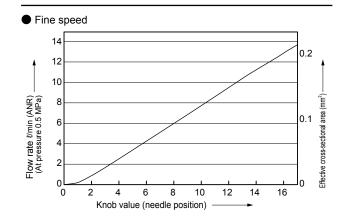
Сростои	1110110						
Model No.		SCL2					
Compatible to	ube O.D.	φ1.8					
Working fluid		Compressed air					
Max. working	pressure MPa	1.0 (≈150 psi, 10 bar)					
Min. working	pressure MPa	0.1 (≈15 psi, 1 bar)					
Proof pressur	re MPa	1.5 (≈220 psi, 15 bar)					
Fluid tempera	ature °C	5 (41°F) to 60 (140°F) (no freezing)					
Ambient temp	perature °C	0 (32°F) to 60 (140°F) (no freezing)					
Knob value	(times)	15 or more					
Free flow	Flow rate {/min	50					
Free now	Effective cross-sectional area mm²	0.7					
Controlled	Flow rate {/min	13					
flow	Effective cross-sectional area mm²	0.2					
Tube used	used Fiber tube (UP-9402-F1, EH-5802)						
Weight	g 12						

^{*1:} Fiber tube for barbed fitting (UP-9102-F1) is not available.

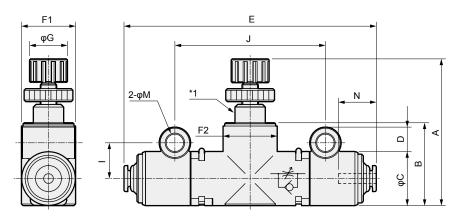
How to order

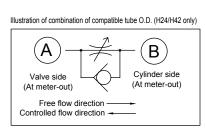
- Compatible tube O.D.: φ1.8
 SCL2-04-H22-F-FL355195
- Compatible tube O.D.: A side φ4, B side φ1.8
 SCL2-04-H42-F-FL355196
- Compatible tube O.D.: A side φ1.8, B side φ4
 SCL2-04-H24-F-FL355197

Flow characteristics



Dimensions





Model No.	Compatible tube O.D.		ļ	A B		_	C D		F1	F2	G			M (Mounting	N (tube insert length)	
	A side	B side	MAX	MIN	P	ا ا		E	FI	Г	G	•	J	hole φ)	A side	B side
SCL2-04-H22-F-FL355195	φ1.8	φ1.8						47							7	7
SCL2-04-H42-F-FL355196	φ4	φ1.8	27	32	15	10	4.5	46	10	11	7	6.6	28	3.3	12.9	7
SCL2-04-H24-F-FL355197	φ1.8	φ4						46	2						7	12.9

Note: F1 and F2 are oval.

CKD

Fiber tube (for push-in fitting)

Caution

▲Safety precautions

■ Design/selection

ACAUTION

- Note when making a selection that the PG and CG Series do not use flame-resistant resins.
- This is an extremely fine tube, so the effective cross-sectional area is extremely small. Use with a standard cylinder may cause failure to obtain set speed, delayed response, or knocking.

The pipe length should be 1 m or less and the fine speed cylinder (catalog No. CC-N-360A) be used.

- Because the fiber tube is thin, the vacuum in the vacuum device increases and delays the response of the vacuum switch during vacuum burst when used with an ejector.
- The CG Series is for clean blow and washing lines.

Check with CKD for use in other applications.

The durability of the CG Series packing (material: EPDM) is susceptible to mineral oil, so it cannot be used to pipe general pneumatic components. Use the PG Series for piping general pneumatic components.

■ Mounting, installation and adjustment

A CAUTION

- Use the fiber tubes for push-in fitting (UP-9402-F1, EH-5802) with push-in fittings for fiber tube (PG/CG Series). Tubing could dislocate if fiber tube for CKD barbed fitting (UP-9102-F1), barbed fitting for fiber tubing (PTN Series), or other brands of tubing and fittings are used.
- Cut tubing with a dedicated cutter at a right angle. Do not use worn or damaged tubing. Tubing could be crushed or broken.
 If cut with a dull knife, tubing could be crushed and block the flow path.
- A used tube could be deteriorated or deformed and so always use a new tube.
- Inspect CG-*2-6 regularly.

The threaded part on CG-*2-6 is made of PP, so leakage could occur if the threaded part comes loose. Inspect regularly and tighten to stop any leakage.

If leakage does not stop after tightening, replace the fitting with a new one.

- The use of oil is prohibited with the CG Series, so the force required to insert the tubing will increase. Hold tubing at the base and securely insert until contact is felt depth of 7 mm.
- Tighten pipes with the appropriate torque.
- The purpose is to prevent air leakage and damage to bolts. First tighten the bolts by hand to ensure that threads are not damaged, then use a tool.
 Check that the tool's hexagon face and wrench are the correct size.
- As the screw of CG-*2-6 is PP, it should be tightened using the following procedure. Tighten as follows: Leave 1.5 to 2 threads at the end of the tapered threads open and wrap 2 to 2.5 times with sealing tape. Tighten lightly by hand, then tighten two to three turns with a tightening tool.

The part is made of resin so it could deform or break if tightened excessively.

[Reference value]

Port thread	Tightening torque N⋅m
M3	0.3 to 0.6
M5	1.0 to 1.5
Rc1/8 *	3 to 5

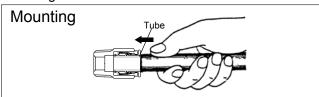
The above values apply when partner threads are JIS B 0203 piping tapered female threads (material C3604BD). * Applies only when fitting thread parts are metal.

- Check that tubing is not worn or damaged.
- Tubing could collapse, rupture, or become dislocated.
- Do not let the tube directly contact other surfaces, as there is a risk of wear or damage.
- On equipment that requires antistatic measures, ground the part where the fitting has been connected. Electrostatic discharge could build up in tubing if the part is not grounded.
- CG-*2-6 (R1/8) does not have sealant. Separately prepare sealing tape, etc.

Use/maintenance

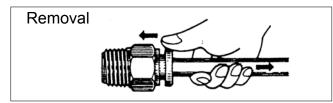
ACAUTION

Mounting and removal



Push the tube in until it contacts the tube end.

Check that the tube does not come off the fitting. Tube fits 7 mm from the end of the fitting body. The end of the mounted tube must be cut at a right angle.



While pressing down on the push ring with your fingers, the tube can be removed by pulling on it.

Tubing could deform (stretch) if pulled too hard.

Firmly push and hold the push ring and detach the tube. Replace the deformed tubing with a new tubing.

CKD

F.R.L F (Filtr)

R (Reg)

L (Lub)

PresSW

Shutoff SlowStart

FImResistFR

Oil-ProhR

MedPresFR

No Cu/ PTFE FRL

Outdrs FR

F.R.L (Related)

CompFRL LgFRL

PrecsR VacF/R

Clean FR

ElecPneuR

AirBoost

SpdContr

Silncr CheckV/

other Jnt/tube

AirUnt

PrecsCompn

Mech/ ElecPresSw

ContactSW

AirSens

PresSW Cool AirFloSens/ Contr

WaterRtSens

TotAirSys (Total Air)

TotAirSys (Gamma)

RefrDry

DesicDry

HiPolymDry MainFiltr

Dischrg etc

Ending

007

F.R.L

F (Filtr)

R (Reg)

L (Lub)

PresSW

Shutoff

SlowStart FlmResistFR

Oil-ProhR

MedPresFR

No Cu/ PTFE FRL

Outdrs FR

F.R.L (Related)

CompFRL

LgFRL

PrecsR

VacF/R

Clean FR

ElecPneuR

AirBoost

SpdContr

Silncr

CheckV/ other Jnt/tube

AirUnt

PrecsCompn

Mech/ ElecPresSw

ContactSW AirSens

PresSW Cool

AirFloSens/ Contr

WaterRtSens

TotAirSys (Total Air)

TotAirSys (Gamma)

RefrDry

DesicDry

HiPolymDry

MainFiltr

Dischrg etc

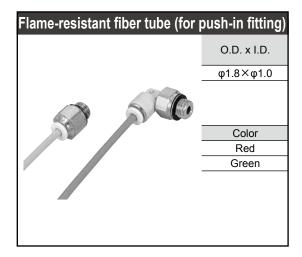
Series variation

Flame-resistant fiber tube (for push-in fitting)

Tube size I.D. φ1.8 x φ1.0

Push-in fitting for fiber tube

Port size M5, R1/8



■ Straight		■ Elbow		■ Plug	
Single straight RG-S2-□		Single elbow RG-L	_2-□	Blanking plug PG-P2-B	
	Port size		Port size		
	M5		M5		
	R1/8		R1/8		
O KINS					
		()			
			-		
P. Committee					
Refer to page: 812		·Refer to page: 812		Refer to page: 812	

● Sales unit is 10 pcs./bag.

F.R.L

F (Filtr)

R (Reg)

L (Lub) PresSW

Shutoff

SlowStart

SiowStart

FImResistFR

Oil-ProhR

MedPresFR

No Cu/ PTFE FRL

Outdrs FR

F.R.L (Related)

CompFRL

LgFRL

PrecsR

VacF/R Clean FR

ElecPneuR

AirBoost

SpdContr

Silncr

CheckV/ other

Jnt/tube AirUnt

PrecsCompn

ElecPresSw ContactSW

AirSens

PresSW Cool AirFloSens/ Contr

WaterRtSens
Tot Air Sys

TotAirSys (Total Air) TotAirSys

TotAirSys (Gamma)

RefrDry

DesicDry HiPolymDry

MainFiltr Dischrg

etc Ending



Flame-resistant fiber tube (for push-in fitting)

• O.D.: φ1.8 x I.D.: φ1.0

● Flame-resistant (UP-9102-SR)



Specifications

PresSW

Shutoff
SlowStart
FImResistFR
Oil-ProhR
MedPresFR
No Cu/
PTFE FRL
Outdrs FR
F.R.L
(Related)
CompFRL
LgFRL
PrecsR

VacF/R

Clean FR ElecPneuR

AirBoost

SpdContr Silncr

CheckV/

Jnt/tube

AirUnt

PrecsCompn

ElecPresSw

ContactSW AirSens

PresSW

WaterRtSens

TotAirSys

(Total Air)

TotAirSys (Gamma)

RefrDry

DesicDry

HiPolymDry

MainFiltr

Dischrg etc

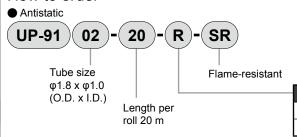
Cool AirFloSens/

Contr

' '	
Model No.	Flame-resistant UP-9102-SR
Working fluid	Compressed air
Working pressure (20°C (68°F)) (*1)	-100 kPa (≈-15 psi, -1 bar) to 0.7 MPa (≈100 psi, 7 bar)
Ambient temperature °C	-10 (14°F) to 60 (140°F) (no freezing)
O.D. x I.D. mm	φ1.8×φ1.0
Inside diameter accuracy mm	±0.1
Diametral accuracy mm	±0.1
Durometer hardness	HDA 90
Min. bending radius (JIS B 8381) mm	3
Min. installation radius mm	4
Burst pressure (20°C (68°F)) MPa	2.1 (≈300 psi, 21 bar)
Material	Flame-resistant polyurethane
Color	Green/red (*2)
Applicable fitting	RG Series (push-in)

- *1: For the working pressure, refer to the graph of "Ambient temperature and pressure (use/burst)".
- *2: When flame retardant is added, the hue will be lighter instead of bright red or green.

How to order

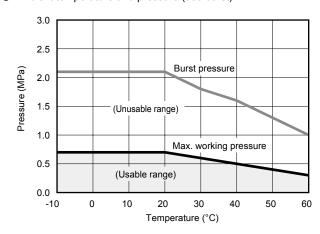


Tube color*							
R	Red						
G	Green						

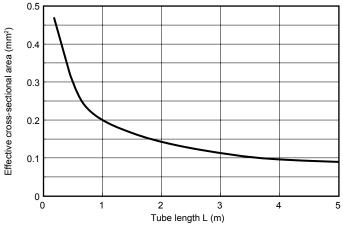
^{*} When flame retardant is added, the hue will be lighter instead of bright red or green.

Characteristics graph

Ambient temperature and pressure (use/burst)



● Tube length and effective cross-sectional area



The tubing inlet and outlet are measured with a single straight (RG-S2-M5) attached.



Push-in fitting for fiber tube

Flame-resistant **RG** Series

- Compatible tube O.D. φ1.8
- Port size M5, R1/8



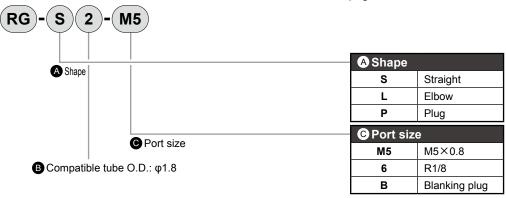


Specifications

Model No.	RG Series
Working fluid	Compressed air
Working pressure	-100kPa (≈-15 psi, -1 bar) to 1.0 MPa (≈150 psi, 10 bar)
Ambient temperature °C	-10 (14°F) to 60 (140°F) (no freezing)
Tube used	Flame-resistant fiber tube (UP-9102-SR) (*1)

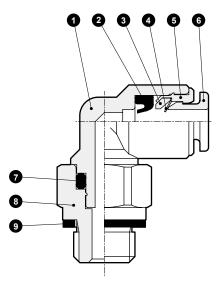
^{*1:} Fiber tube for barbed fitting (UP-9102-F1) is not available.

How to order Refer to the model No. on the dimensions page for the model No. combination.



Note: Sales unit is 10 pcs./bag.

Internal structure and parts list



No.	Part name	Material
1	Body *1 (single elbow)	Polybutylene terephthalate (flame-resistant resin *2)
	(single straight)	Copper alloy (electroless nickeling)
2	Packing	Hydrogenated nitrile rubber
3	Chuck holder	Polypropylene
4	Chuck	Stainless steel
5	Outer ring	Copper alloy (electroless nickeling)
6	Push ring *1	Polyamide (flame-resistant resin *2)
7	O-ring	Nitrile rubber
8	Nipple	Copper alloy (electroless nickeling) (R1/8 includes sealant)
9	Gasket	Stainless steel + nitrile rubber

^{*1:} The RG Series push ring and body (single elbow) is light gray (CKD standard color).

F.R.L

F (Filtr)

R (Reg)

L (Lub)

PresSW

Shutoff

SlowStart

FImResistFR

Oil-ProhR

MedPresFR

No Cu/

PTFE FRL

Outdrs FR F R I

(Related)

CompFRL

LgFRL

PrecsR

VacF/R

Clean FR ElecPneuR

AirBoost

SpdContr

Silncr

CheckV/ other

Jnt/tube

AirUnt

All Olit

PrecsCompn

ElecPresSw

ContactSW

A := 0 ====

AirSens

PresSW Cool

AirFloSens/ Contr

WaterRtSens

TotAirSys

(Total Air)

TotAirSys

(Gamma)

RefrDry

DesicDry

HiPolymDry

MainFiltr Dischrg

etc Ending

^{*2:} UL94 Standards V-0 equivalent

RG Series

F.R.L

L (Lub) PresSW

SlowStart FImResistFR

No Cu/ PTFE FRL

Outdrs FR

(Related)

CompFRL LgFRL

PrecsR VacF/R

Clean FR

ElecPneuR AirBoost SpdContr Silncr

CheckV/

Jnt/tube AirUnt

PrecsCompn

ElecPresSw

ContactSW

AirSens

PresSW Cool AirFloSens/ Contr

WaterRtSens

TotAirSys (Total Air) TotAirSys

(Gamma)

RefrDry

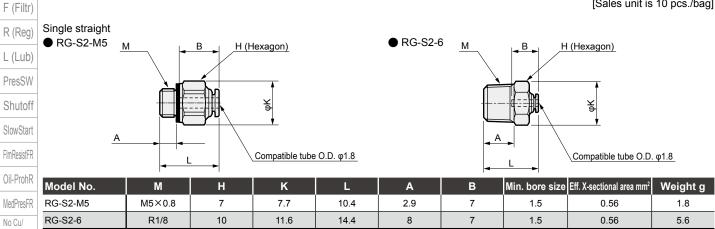
DesicDrv HiPolymDry

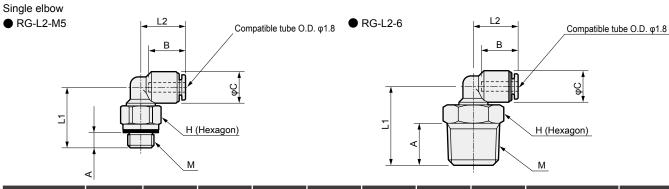
FRI

Dimensions: Single straight/single elbow/blanking plug



[Sales unit is 10 pcs./bag]

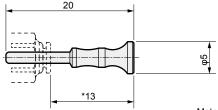




Model No.	M	Н	L1	L2	Α	В	С	Min. bore size	Eff. X-sectional area mm²	Weight g
RG-L2-M5	M5×0.8	7	11.5	8.5	2.9	7	6	1.5	0.54	2
RG-L2-6	R1/8	10	15	8.5	8	7	6	1.5	0.54	5.8

Blanking plug

● RG-P2-B



Material: PBT/light gray (CKD standard color) (UL94 standard V-0 or equivalent)

* Dimensions for RG Series fitting. Weight: 0.2g

Safety precautions

ACAUTION

- Use flame-resistant fiber tube (UP-9102-SR) with a flame-resistant push-in fitting for fiber tubing (RG Series).
- Do not use in an atmosphere with possible contact with welding sparks, etc. This product is made of flame-resistant resin, but is not resistant to spatter.
- The tube is soft and thin and could be dislocated if too much force is applied.

MainFiltr Dischrg etc