

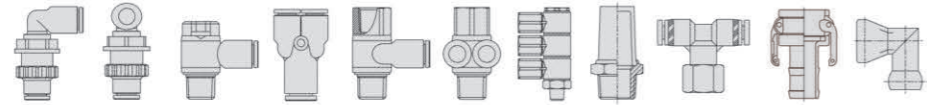
Sang-A



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SANG-A PNEUMATIC

- | ONE-TOUCH FITTINGS ----- 
- | COMPACT ONE-TOUCH FITTINGS ----- 
- | SPEED CONTROLLERS ----- 
- | METAL BODY SPEED CONTROLLERS ----- 
- | ROTARY JOINTS ----- 
- | STOP FITTINGS ----- 
- | CHECK VALVES ----- 
- | BALL VALVES ----- 
- | MAIN BLOCKS ----- 
- | HAND VALVES / HAND SLIDE VALVES ----- 
- | INSERT FITTINGS ----- 
- | TWO-TOUCH FITTINGS ----- 
- | SILENCERS ----- 
- | AIR GUN ----- 
- | TUBE SERIES ----- 
- | HOSE BAND ----- 
- | AUTO ACE COUPLER ----- 
- | ACE COUPLER ----- 
- | COMPACT ACE COUPLER ----- 
- | MINOR COUPLER ----- 
- | HP COUPLER ----- 
- | MOLD COUPLER ----- 
- | CAM-LOCK COUPLER ----- 
- | ADJUSTABLE COOLANT NOZZLE ----- 



[SANG-A PNEUMATIC]

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ABOUT SANG-A

Creative and challenging! Into the future with high technology - SANG-A will leap into leading company through management innovation and challenge.

- 1980 1980. 07 Established 'Daewoo Polymer Co.'
- 1989. 05 Changed the company name to 'Sang-A Pneumatic Co., Ltd.'

- 1990 1993. 10 Opened Seong-Seo Plant(Dalseo wolamdong)
- 1995. 11 Awarded 'US\$1 million export monument'
- 1996. 03 Converted to Incorporation of Sang-A Pneumatic Co., Ltd. (Capital u\$3 Millions)
- 08 Designated as 'A Potential Advanced Technology Enterprise' by SMBA.
- 1997. 04 Moved head office to Deagu Dalseo wolamdong
- 05 Registration of a utility model (couplings for piping / 0269779)
- 1998. 07 Designated as 'An Advanced Technology Enterprise' by SMBA.
- 09 Awarded excellent world capital goods
- 11 Awarded a Price for 'Superior Quality Products' from Ministry of Commerce

- 2000 2000. 11 Awarded a Prize for 'New Technology Utilization' from Ministry of Commerce
- 12 Awarded a grand prize Midium & Small Enterprise CEO
- 2001. 05 Designated as 'Promising Midium & Small Enterprise' by SMBA
- 11 Awarded 'US\$5 million export monument'
- 2002. 01 Eastablished 2nd Plant in Seong Seo for Plastic business.
- 01 Established Sang-A Tech Co., Ltd. for Die casting business. (Seo-Gu Jungli-Dong)
- 04 Selected 'World Class Capital Goods'
- 04 Opened Shanghai Sang-A Pneumatic Co., Ltd.
- 01 Established 'Daymorrow Co., Ltd.'
- 06 Established 3rd plant in Waegwan
- 07 Registered patent tubes and tube couple rings lock claw coupling /10-1602768) 2 other cases
- 11 Awarded 'Iron Tower Medal'
- 12 Obtain certification of 'Worldwide First Class Goods'
- 2007. 03 Designated technology Innovation company
- 2010. 01 Obtained ISO 9001/14001 (K01720-QE)
- 02 Recognized research institute Korea Occupational Safety and Technology Association
- 07 Selected Star Company Daegu 2010
- 2012. 07 Moved Seongso 5th industrial complex
- 2013. 07 Excellent selection of Star Enterprise



[Explanation according to function]



One-Touch Fitting

- One touch air connector used in pneumatic piping.
- Easy connection/disconnection of tube by one touch only.
- Various models and sizes.



Compact One -Touch Fitting

- Miniature one-touch air connector used in pneumatic piping.
- 40% smaller volume ratio and 20% smaller O.D. ratio in comparison to the conventional type.
- Used easily in confined spaces.



Speed Controllers

- Precisely permit the optimal rate of airflow for the smooth cylinder movement of a driving device.
- Uni-directional airflow is available for either exhaust or inlet flow control method.
- Connection of the pipe is not limited, given the rotating structure of the main body.
- Needle is equipped with a stopping-apparatus, allowing it to function perfectly.



Metal Body Speed Controllers

- Valve used for controlling the operation speed of a driving device.
- Using the pipe which connected to actuator .
- Easy speed control, permit constant speed in low flow area.



Rotary Joint

- Used for swiveling and swinging connections.
- Used in rotating parts ranging from 500~1500rpm.
- Built in bearing accommodates the rotation and swiving of pneumatic connections.



Stop Fitting

- The double-passage mechanism prevent the airflow upon the tubing disconnection.
- The complete prevention of airflow upon the tubing disconnection provides safety when repairing pneumatic equipments.
- Used at laboratory or for instructing pneumatic connections.



Check Valve

- Used for the directional checking of air.
- Minimum pressure is 0.1kgf/cm²; Keeps 1.42PSI in vacuum.



Ball Valve

- Used for the control air supply in the opened and closed positions.
- PPS resin body construction allows air & water applications.



Main Block

- Used for assembling of various types of manifold blocks for concentrated branching.
- Min Blocks provide comparable flow rates to steel piping



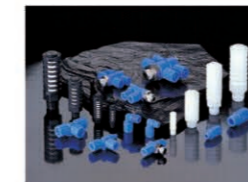
Hand Valve / Hand Slide Valve

- Used for turning air pressure on and off for pneumatic devices.
- Three-way valve which allows the discharge of residual pressure of machine to preserve the life of the machine, and also allowing repairs to be made.



Insert Fitting

- Screw-type fitting for multi-purpose.
- Tightening the screws of the tube method can be used in a way permanently .
- Resistance to mechanical vibration and vacuum performance .
- Compared with plastic material is suitable for high-temperature heat-resistant specifications .



Two -Touch Fitting

- Nut-tightened air connector used for pneumatic piping.
- Higher tightening capabilities of two-touch connections allow use in rocking and impact parts.



Silencers

- Used for suppressing the noise of air release.
- Made of plastic: lightweight and increased life span.
- Compact size allows for installation in narrow spaces.



Air Gun

- Light-weight and impact-resistant plastic material.
- Various nozzle sizes make easy cleaning of machinery and goods.
- Easy control of air release.



Tube

- Superior flexibility, oil and cold resistant, lightweight, durable.
- Used in pneumatic piping as well as coating machines, chemical plants, automobiles, medical instruments, food industry and so on.

Hose Band

- Used for joints and leak-proof hose.
- It is made of Stainless Steel (SUS304) Corrosion-resistant , heat-resistant, strong surface is clean permanently
- The whole band is polished twice, it does not damage hose .
- It is very safety no leak at high temperature, high pressure.



Fluid Coupler

- Uni-directional shut-off coupler with an automatic shut-off valve built in the socket.
- Various material and shape for multi- purpose.
- Easy to link plug and socket



Cam-Lock Coupler

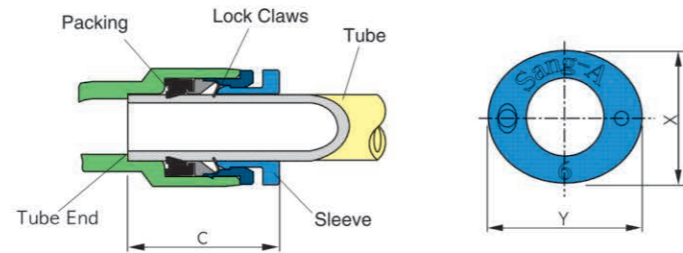
- Liquids, vapors, gases , powders, air leaks , such as the contents can be transported safely .
- Various products for various transport properties (acid, alkali, high temperature, low temperature, food, etc.), you can select the most suitable products.



Adjustable Coolant Nozzle

- Easy control of angle , length and diameter of the nozzle.
- Can be applied widely for a variety of chemical .
- Chemical , impact, heat resistance is excellent.

[Basic Construction of Fitting]



When installing the tube into the one-touch fitting, use the tube cutter to make a straight 90 degree cut. Tube should be pushed into the fitting completely past the packing, allowing the lock claws to fully retain the tube in place. If this is not done, leakage may occur. For removal of the tube, press the sleeve to recess the lock claws, then pull out the tube.

▶ Depth of Assembling tube with Fitting

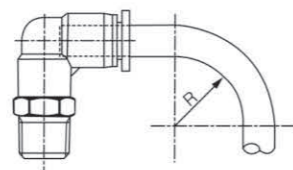
Tube Size	Standard Type						Compact Type		
	Ø4	Ø6	Ø8	Ø10	Ø12	Ø16	Ø3	Ø4	Ø6
C	16.0	17.0	18.5	21.0	22.5	25	9.6	11.5	12.5

Tube Size	Standard Type						Compact Type		
	Ø5/32	Ø3/16	Ø1/4	Ø5/16	Ø3/8	Ø1/2	Ø1/8	Ø5/32	Ø1/4
C	15.5	17	17.2	18.5	21	22.5	9.2	11.3	11.3

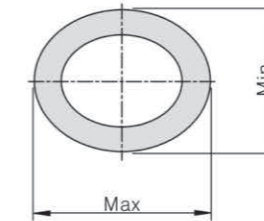
▶ Depth of Assembling tube with Fitting

Tube Size	Standard Type						Compact Type		
	Ø4	Ø6	Ø8	Ø10	Ø12	Ø16	Ø3	Ø4	Ø6
X	10	12	14	17	21	24	6	8	10
Y	12	14	16	19	23	27	7	10	12

Tube Size	Standard Type						Compact Type		
	Ø5/32	Ø3/16	Ø1/4	Ø5/16	Ø3/8	Ø1/2	Ø1/8	Ø5/32	Ø1/4
X	10	11	12	14	17	21	6.2	8	10
Y	12	13	14	16	19	23	7.2	10	12



Tube has a tolerance of $\pm 0.1\text{mm}$, and ellipticity of within 0.2mm (between Max and Min diameter) is allowed for the tube. The tube must not be bent excessively near the joint. For installation of the tube, use the recommendation below.



▶ Tube Size of Bend Radius

Tube Size	Standard Type					Compact Type		
	Ø4	Ø6	Ø8	Ø10	Ø12	Ø3	Ø4	Ø6
R	20	30	50	80	150	15	20	30

Tube Size	Standard Type						Compact Type		
	Ø5/32	Ø3/16	Ø1/4	Ø5/16	Ø3/8	Ø1/2	Ø1/8	Ø5/32	Ø1/4
R	20	25	30	50	80	150	15	20	30



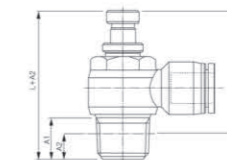
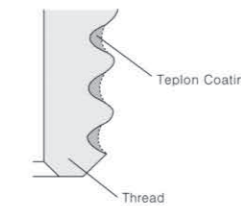
The taper pipe thread is coated with teflon, thus requiring no additional teflon tape or sealing treatment.

Metric fittings are sealed with gaskets, thus requiring no additional sealing treatment.

For installation, use the recommended tightening torque specified below for proper sealing. Note that excessive tightening may damage the thread.

▶ Recommended Torque per Thread Size

Thread Type	Thread Size	Torque (kgf·cm)
Metric Thread	M3	7
	M5	15-19
	M6	20-27
Pipe Taper Thread	R 1/8	70-90
	R 1/4	120-140
	R 3/8	220-240
UNF (Unified) Thread	No. 10-32 UNF	15-19
	NPT 1/8	70-90
NPT Thread	NPT 1/4	120-140
	NPT 3/8	220-240
	NPT 1/2	280-300



After installing the equipment on the instrument, the "L" is the product of the subtraction value of thread part (A2) from the main body.

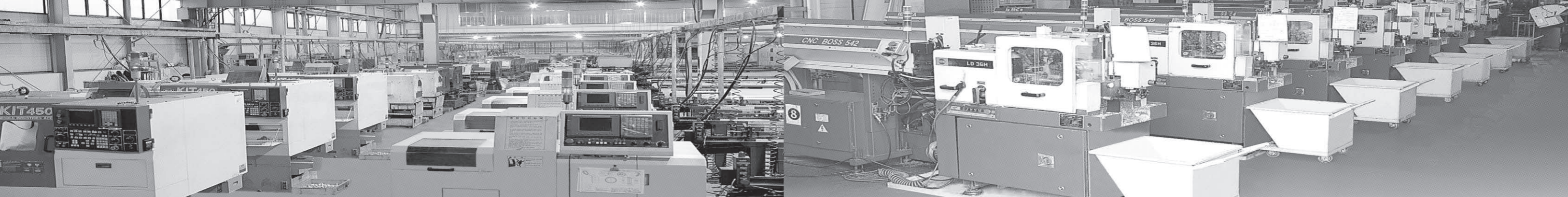
The "L" size plus "A2" makes the total length of the fitting.

▶ Size of thread parts




Thread Type	Metric thread		Taper thread			
	M5	M6	R1/8	R1/4	R3/8	R1/2
A1	3.5	4.5	8.0	11.0	12.0	15.0
A2	3.5	4.5	4.0	6.0	6.5	8.0

▶ Standard size of metric thread




Thread Code	Thread Size	Name of products applied
M3	M3 × 0.5	All products available
M5	M5 × 0.8	
M6	M6 × 1.0	
M6	M6 × 0.75	Only use for "PCC" model of compact one-touch fitting
M8	M8 × 0.75	



Classification of Warning Indication

-  **DANGER** Risk of death or serious injury. (The most dangerous condition.)
-  **WARNING** Potential risk of danger, death or serious injury. (Potential danger)
-  **CAUTION** Potential risk of danger and of financial damage.


Common Precautions


-  **DANGER** ▶ Never use for the following:
 - ① As equipment for the purpose of the maintenance and management of human life.
 - ② As equipment for the purpose of movement of human transportation.
 - ③ As equipment requiring essential safety.
-  **WARNING** ▶ Never use on the following environment:
 - ① Using for applications other than originally intended.
 - ② Place of excessive vibration, shock, rotation and curve.
 - ③ Place consisting of corrosive gas, inflammable/flammable gas, chemicals, sea water, water and vapor.
 - ▶ Never disassemble or remodel the equipment; this may cause malfunction or leakage.
 - ▶ When repairing or checking equipment, remove air pressure first.
 - ▶ Never tamper with the sleeve of fitting when pressure is on.
-  **CAUTION** ▶ Never assemble with parts from other manufacturers; this may cause leakage or damage to the equipment.

Sang-A Pneumatic Co., Ltd. is not responsible for damage or injury that may occur due to interchanging of parts outside of the Sang-A Pneumatic brand.

Using Precautions of Fitting Series

Never fail to check the following

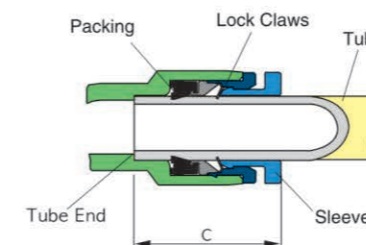
-  **WARNING**
 1. Never use for fluids other than air and water (Water: available in case of special order only)
 2. Never use at the place of spatter to avoid fire.
 3. Be sure to use with Rotary Joint to prevent damage or leakage at the place of rotation.
 4. Never use with water hotter than 60°C. This causes breakage of resin due to hydrolysis or heat.
 5. Be sure to use after checking static electricity prevention requirements.
 6. Avoid external impact such as bending, twisting and drawing on fittings.

-  **CAUTION** ❶ Be sure to meet the following conditions for the tube, otherwise it may cause leakage of air or inferiority of the application.

SIZE	POLYURETHANE TUBE	NYLON TUBE	SIZE	POLYURETHANE TUBE	NYLON TUBE
∅ 3mm	± 0.10	± 0.08	∅ 1/8	± 0.10	± 0.08
∅ 4mm	± 0.10	± 0.08	∅ 5/32	± 0.10	± 0.08
∅ 6mm	± 0.12	± 0.10	∅ 3/16	± 0.12	± 0.10
∅ 8mm	± 0.12	± 0.10	∅ 1/4	± 0.12	± 0.10
∅ 10mm	± 0.15	± 0.12	∅ 5/16	± 0.15	± 0.12
∅ 12mm	± 0.15	± 0.12	∅ 3/8	± 0.15	± 0.12
∅ 16mm	± 0.15	± 0.15	∅ 1/2	± 0.15	± 0.15

❷ Cautions in the application of tube:

- Be sure to confirm that the section of tube is cut at a right angle. Make sure that there is no indication of damage to the outside of the tube.
- Be sure to refer to the following for application and removal of the tube. Sang-A Pneumatic equipment is made to follow a 2-step insertion of tubing into the fitting. The 1st step goes past the Lock Claws, and the 2nd step goes into the Packing. Make sure that the second step has been acquired.
- The elliptical design of the sleeve makes for a simple and easy application. (Please order the round sleeve if there are restrictions)



▶ The size of Sleeve

SLEEVE SIZE	∅3	∅4	∅6	∅8	∅10	∅12	∅16
	General Specification (mm)	∅1/8	∅5/32	∅3/16	∅1/4	∅5/16	∅3/8
Compact Specification (mm)	10 × 12	11 × 13	12 × 14	14 × 16	17 × 19	21 × 23	24 × 27

- Minimum insertion part of tube is as follows and be sure to use leaving as much as the following size as margin.

TUBE SIZE	∅3	∅4	∅6	∅8	∅10	∅12	∅16
	General Specification (mm)	∅1/8	∅5/32, 3/16	∅1/4	∅5/16	∅3/8	∅1/2
Compact Specification (mm)	16	17	18.5	21	22	25	
	9.5	11.5	12.5	∅3/16 (N/A)			

❸ Cautions on disconnecting tube:

- Before disconnecting tube, be sure to confirm that the pressure inside the tube is at zero.
- Before disconnecting tube, pull it out after pressing the sleeve equally on both sides. Unequal pressing strength will make scratch on tube by insufficient open of lock claws, this will cause air leakage.
- Be sure not to shake or make 360 degree rotation when disconnecting the tube. The scratch made by the misuses will cause air leakage.

❹ Cautions on treatment of the equipment body:

- When fastening the body onto the six-angle part of the inside and outside of the fitting, choose the correct tool and size.
- When fastening the thread, please refer to the "Torque Recommended" (P11). If torque is higher than the recommended, this may cause damage or air leakage. If torque is lower than the recommended, this may cause air leakage.
- After fastening the thread, most of Sang-A equipment allows control of the direction of the pipe.

ONE-TOUCH FITTINGS

Metric Size R(PT) Thread Type

— One -Touch Fittings

- Compact One -Touch Fittings
- Speed Controllers
- Metal Body Speed Controllers
- Rotary Joints
- Stop Fittings
- Check Valves
- Ball Valves
- Main Blocks
- Hand Valves
- Hand Slide Valves
- Two-Touch Fittings

Application

- One-touch joints used in pneumatic piping.
- Used for a wide variety of models to meet all needs.

Feature

- Easy to connect/disconnect tube by one touch.
- PC type is useful for piping in confined space, given its six-angle wrench processing inside.
- Elliptical sleeve makes it possible to apply and remove the tube easily in confined space.
- Fittings are equipped with a Gasket, O-ring and Teflon-Treatment already on the thread.

Specification

Fluid	AIR(No other gases or liquids)	
Working Pressure Range	0 ~ 284PSI	0 ~ 20Kgf/cm ² (0~1960kPa)
Negative Pressure	-29.5 in Hg	-750mmHg(10Torr)
Temperature Range	32~176° F	0 ~ 80° C
Applicable Tube Material	Polyurethane and Nylon	



Product Code System

GPC 08-02 GPC 08-02 GR

① ② ③ ① ② ③ ④

① Type

② Tube Dia(∅D)

Code	04	06	08	10	12	16
Dia	∅4	∅6	∅8	∅10	∅12	∅16

③ Thread Size(T)

* Metric Thread & R(PT) Thread

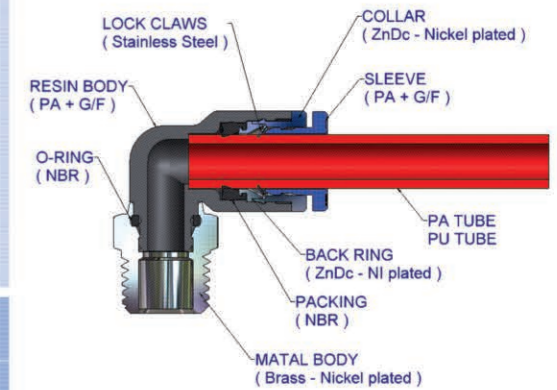
Code	Metric Size		Taper Pipe Thread			
	Size	Size	Size	Size	Size	Size
	M5	M6	R1/8	R1/4	R3/8	R1/2
	M5×0.8	M6×1.0				

④ Color(Gray fitting can be produced)

	BK	GR
Color	Black	Gray



Structural Diagram



Case In Use

► POC Model

- The hexagonal hole of the inside body makes it possible to tighten the fitting with a hexagonal wrench.
- A hexagonal wrench must be used due to the round exterior.

► PL Model

- Flexible for directional tube laying given its revolving construction of body (PL and PT type)

► Elliptical Sleeve

- Elliptical sleeve makes it possible to apply and remove the tube easily in confined spaces.

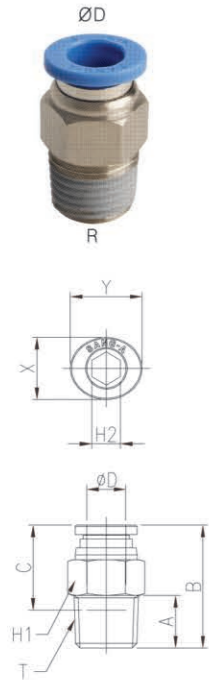
⚠ CAUTION

- Be sure to read the "Common Precautions" and the "Using Precautions of Fitting Series" (P12) before using.
- In putting tube on the fitting, be sure to push it deeply into the inside.
- In case of incorrect installation, there is a risk of air leakage or loose tube.

⚠ WARNING

- Be sure to confirm that proper conditions are met(specifications), otherwise there may be air leakage by damage on the fitting body.

GPC
Male Straight



MODEL[ØD-T] Tube(Metric)-Thread(R)

MODEL	ØD	R	A	B	C	H1	H2	X	Y	Orifice (Ømm)	W.G(g)	Qty/Inbox
GPC 03M3	3	M3	3	20.4	14.5	8	1.5	8.6	10.8	1.2	4.5	100
GPC 03M5	3	M5	4	20.1	14.5	8	2	8.6	10.8	2	4.7	100
GPC 03M6	3	M6	5	21.1	14.5	9	2	8.6	10.8	2	6.8	100
GPC 04M3	4	M3	3	20.4	14.5	8	1.5	8.6	10.8	1.2	4.2	100
GPC 04M5	4	M5	4	20.1	14.5	8	2	8.6	10.8	2	4.5	100
GPC 04M6	4	M6	5	21.1	14.5	9	3	8.6	10.8	3	6.3	100
GPC 0401	4	R1/8	8	20.1	14.5	10	3	8.6	10.8	3	8.6	100
GPC 0402	4	R1/4	11	20.1	14.5	14	3	8.6	10.8	3	17.3	100
GPC 0403	4	R3/8	12	21.1	14.5	17	3	8.6	10.8	3	30.0	50
GPC 06M5	6	M5	4	21.8	15.5	11	2	11	13	2	8.3	100
GPC 06M6	6	M6	5	22.8	15.5	11	3	11	13	3	8.0	100
GPC 0601	6	R1/8	8	22	15.5	11	4	11	13	4	9.2	100
GPC 0602	6	R1/4	11	22.8	15.5	14	4	11	13	4	18.2	100
GPC 0603	6	R3/8	12	21.8	15.5	17	4	11	13	4	28.4	50
GPC 0604	6	R1/2	15	25.8	15.5	21	4	11	13	4	54.4	50
GPC 0801	8	R1/8	8	27.7	17.8	13	5	13	15	5	13.7	100
GPC 0802	8	R1/4	11	25.7	17.8	14	6	13	15	6	17.1	100
GPC 0803	8	R3/8	12	23.7	17.8	17	6	13	15	6	27.3	50
GPC 0804	8	R1/2	15	26.7	17.8	21	6	13	15	6	51.8	50
GPC 1001	10	R1/8	8	29.4	19.4	17	5	16	18.5	5	22.2	50
GPC 1002	10	R1/4	11	32.4	19.4	17	6	16	18.5	6	27.6	50
GPC 1003	10	R3/8	12	28.4	19.4	17	8	16	18.5	8	29.3	50
GPC 1004	10	R1/2	15	27.3	19.4	21	8	16	18.5	8	48.5	50
GPC 1201	12	R1/8	8	32.4	22.4	19	5	19.5	22.5	5	28.9	50
GPC 1202	12	R1/4	11	35.4	22.4	19	6	19.5	22.5	6	34.2	50
GPC 1203	12	R3/8	12	31.8	22.4	19	8	19.5	22.5	8	33.5	50
GPC 1204	12	R1/2	15	33.8	22.4	21	8	19.5	22.5	8	54.8	25
GPC 1403	14	R3/8	12	39	24.4	22	8	23	25	8	53.9	25
GPC 1404	14	R1/2	15	36.5	24.4	22	10	23	25	10	58.9	25
GPC 1603	16	R3/8	12	39.7	25	24	8	24	27	8	58.7	25
GPC 1604	16	R1/2	15	42.2	25	24	10	24	27	10	58.2	25

*Hexagonal wrench may be used for a proper tightening.

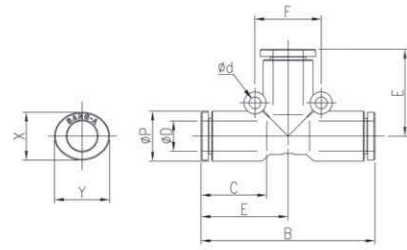
GMPC
Male Straight
(Sleeve round)



MODEL[ØD-T] Tube(Metric)-Thread(R)

MODEL	ØD	R	ØP	A	B	C	H1	H2	Orifice (Ømm)	W.G(g)	Qty/Inbox
GMPC 04M5	4	M5	8.2	4	20.1	14.5	8	2	2	4.5	100
GMPC 04M6	4	M6	8.8	5	21.1	14.5	9	3	3	6.3	100
GMPC 0401	4	R1/8	8.8	8	20.1	14.5	10	3	3	8.6	100
GMPC 0402	4	R1/4	8.8	11	20.1	14.5	14	3	3	17.3	100
GMPC 0403	4	R3/8	8.8	12	21.1	14.5	17	3	3	30.0	50
GMPC 06M5	6	M5	11	4	21.8	15.5	11	2	2	8.3	100
GMPC 06M6	6	M6	11	5	22.8	15.5	11	3	3	8.0	100
GMPC 0601	6	R1/8	11	8	22	15.5	11	4	4	9.2	100
GMPC 0602	6	R1/4	11	11	22.8	15.5	14	4	4	18.2	100
GMPC 0603	6	R3/8	11	12	22.8	15.5	17	4	4	28.4	50
GMPC 0604	6	R1/2	11	15	25.8	15.5	21	4	4	54.4	50
GMPC 0801	8	R1/8	13	8	27.7	17.8	13	5	5	13.7	100
GMPC 0802	8	R1/4	13	11	25.7	17.8	14	6	6	17.1	100
GMPC 0803	8	R3/8	13	12	23.7	17.8	17	6	6	27.3	50
GMPC 0804	8	R1/2	13	15	26.7	17.8	21	6	6	51.8	50
GMPC 1001	10	R1/8	15.5	8	29.4	19.4	17	5	5	22.2	50
GMPC 1002	10	R1/4	15.5	11	32.4	19.4	17	6	6	27.6	50
GMPC 1003	10	R3/8	15.5	12	28.4	19.4	17	8	8	29.3	50
GMPC 1004	10	R1/2	15.5	15	27.3	19.4	21	8	8	48.5	50
GMPC 1201	12	R1/8	18.8	8	32.4	22.4	19	5	5	28.9	50
GMPC 1202	12	R1/4	18.8	11	35.4	22.4	19	6	6	34.2	50
GMPC 1203	12	R3/8	18.8	12	31.8	22.4	19	8	8	33.5	50
GMPC 1204	12	R1/2	18.8	15	33.8	22.4	21	8	8	54.8	25

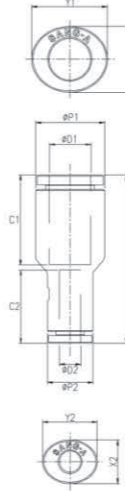
GPUT
Union Tee



MODEL [ØD-T] Tube(Metric)–Thread(R)

MODEL	ØD	ØP	B	C	E	F	Ød	X	Y	Orifice (Ømm)	W.G(g)	Qty/Inbox
GPUT 03	3	9	34.2	14.5	17.1	12	3.2	8.6	10.8	2.5	5.3	100
GPUT 04	4	9	34.2	14.5	17.1	12	3.2	8.6	10.8	3.2	5.0	100
GPUT 06	6	11.2	38	15.5	19	13	3.2	11	13	5	7.3	50
GPUT 08	8	13.6	47.2	17.8	23.6	18	3.2	13	15	7	14.1	50
GPUT 10	10	16.3	50	19.4	25	24	4.2	16	18.5	9	17.7	25
GPUT 12	12	19.7	64.4	22.4	32.2	28	4.2	19.5	22.5	10	33.5	20
GPUT 14	14	23.5	63.8	24.4	31.9	27	4.2	23	25	12	57.3	12
GPUT 16	16	25.6	68	25	34	30	4.2	24	27	14	53.8	12

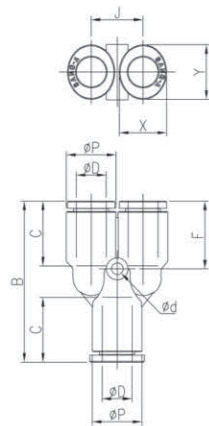
GPG
Reducer



MODEL [ØD-T] Tube(Metric)–Thread(R)

MODEL	ØD1	ØD2	ØP1	ØP2	B	C1	C2	X1	Y1	X2	Y2	Orifice (Ømm)	W.G(g)	Qty/Inbox
GPG 0403	4	3	9	9	30.2	14.5	14.5	8.6	10.8	8.6	10.8	2.5	2.9	100
GPG 0604	6	4	11.2	9	31.5	15.5	14.5	11	13	8.6	10.8	3.2	3.8	100
GPG 0804	8	4	13.6	9	33.3	17.8	14.5	13	15	8.6	10.8	3.2	4.9	50
GPG 0806	8	6	13.6	11.2	34.3	17.8	15.5	13	15	11	13	5	5.8	50
GPG 1006	10	6	16.3	11.2	35.9	19.4	15.5	16	18.5	11	13	5	7.2	50
GPG 1008	10	8	16.3	13.6	38.2	19.4	17.8	16	18.5	13	15	7	8.4	50
GPG 1208	12	8	19.7	13.6	41.2	22.4	17.8	19.5	22.5	13	15	7	12.4	25
GPG 1210	12	10	19.7	16.3	42.8	22.4	19.4	19.5	22.5	16	18.5	9	14.0	25
GPG 1612	16	12	25.6	19.7	48.9	25	22.4	24	27	19.5	22.5	10	23.4	25

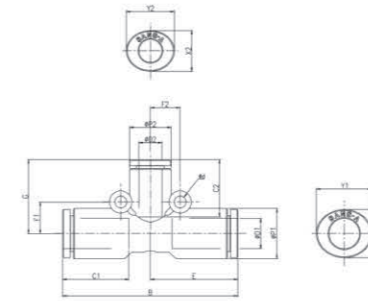
GPY
Union Y



MODEL [ØD-T] Tube(Metric)–Thread(R)

MODEL	ØD	ØP	B	C	F	J	Ød	X	Y	Orifice (Ømm)	W.G(g)	Qty/Inbox
GPY 03	3	9	31.2	14.5	13.2	9.3	3.2	8.6	10.8	2.1	5.2	100
GPY 04	4	9	31.2	14.5	13.2	9.3	3.2	8.6	10.8	2.1	4.9	100
GPY 06	6	11.2	34.7	15.5	14.1	11.4	3.2	11	13	3.6	7.3	50
GPY 08	8	13.6	44.2	17.8	18.6	14.2	3.2	13	15	5.4	13.9	50
GPY 10	10	16.3	46	19.4	18	17	4.2	16	18.5	6.4	17.7	25
GPY 12	12	19.7	56.8	22.4	23.9	20	4.2	19.5	22.5	7.3	32.5	20
GPY 14	14	23.5	59.3	24.4	24.4	24	4.2	23	25	8.8	53.7	16
GPY 16	16	25.6	62	25	24	26	4.2	24	27	12	55.5	12

GPUG
Different Dia of Union Tee

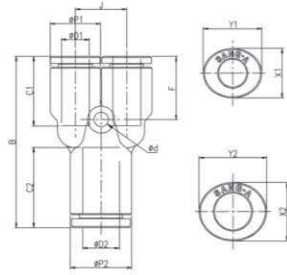


MODEL [ØD-T] Tube(Metric)–Thread(R)

MODEL	ØD1	ØD2	ØP1	ØP2	B	C1	C2	E	F1	F2	G	Ød	X1	Y1	X2	Y2	Orifice (Ømm)	W.G(g)	Qty/Inbox
GPUG 0604	6	4	11.2	9	37.9	15.5	14.5	19	6.5	6	18.1	3.2	11	13	8.6	11	3.2	6.2	50
GPUG 0804	8	4	13.6	11.2	47.2	17.8	14.5	23.6	8.5	8	19.6	3.2	13	15	8.6	11	3.2	12.1	50
GPUG 0806	8	6	13.6	11.2	47.2	17.8	15.5	23.6	8.5	8	20	3.2	13	15	11	13	5	10.0	50
GPUG 1006	10	6	16.3	13.6	50	19.4	15.5	25	10	9.5	23.5	4.2	16	19	11	13	5	18.3	25
GPUG 1008	10	8	16.3	13.6	50	19.4	17.8	25	10	9.5	24.1	4.2	16	19	13	15	7	14.7	25
GPUG 1208	12	8	19.7	16.3	64.4	22.4	17.8	32.2	12	10	25.1	4.2	19.5	23	13	15	7	30.1	25
GPUG 1210	12	10	19.7	16.3	64.4	22.4	19.4	32.2	12	10	25.5	4.2	19.5	23	16	19	9	25.6	20

GPW

Reducer Y

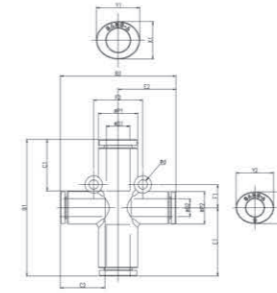


MODEL [ØD-T] Tube(Metric) – Thread(R)

MODEL	ØD1	ØD2	ØP1	ØP2	B	C1	C2	Ød	F	J	X1	Y1	X2	Y2	Orifice (Ømm)	W.G(g)	Qty/Inbox
GPW 0604	4	6	9	11.2	32.5	14.5	15.5	3.2	13.2	9.3	8.6	10.8	11	13	2.6	5.1	100
GPW 0804	4	8	11.2	13.6	37.7	14.5	17.8	3.2	13.7	11.4	8.6	10.8	13	15	2.6	12.3	50
GPW 0806	6	8	11.2	13.6	38.5	15.5	17.8	3.2	14.1	11.4	11	13	13	15	4.1	8.2	50
GPW 1006	6	10	13.6	16.3	42.6	15.5	19.4	3.2	17.2	14.2	11	13	16	18.5	4.1	19.8	25
GPW 1008	8	10	13.6	16.3	43.2	17.8	19.4	3.2	17.8	14.2	13	15	16	18.5	6.4	12.6	25
GPW 1208	8	12	16.3	19.7	50.5	17.8	22.4	4.2	17.6	17	13	15	19.5	22.5	6.4	29.4	25
GPW 1210	10	12	16.3	19.7	50.9	19.4	22.4	4.2	18	17	16	18.5	19.5	22.5	7.0	20.4	25

GPZA22

Different Dia of Union Cross(2/2)

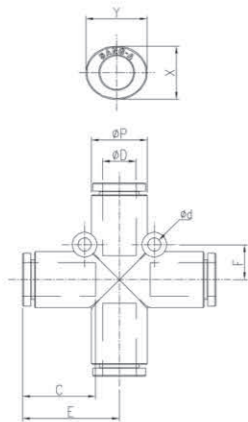


MODEL [ØD-T] Tube(Metric) – Thread(R)

MODEL	ØD1	ØD2	ØP1	ØP2	C1	C2	B1	B2	E1	E2	F1	F2	Ød	X1	Y1	X2	Y2	Orifice (Ømm)	W.G(g)	Qty/Inbox
GPZA22 0806	8	6	13.6	11.2	17.8	15.5	47.2	39.9	23.6	20	8	17	3.2	13	15	11	13	5	12.2	25
GPZA22 1008	10	8	16.3	13.6	19.4	17.8	50	48.2	25	24.1	9.5	20	4.2	16	18.5	13	15	7	18.0	25
GPZA22 1210	12	10	19.7	16.3	22.4	19.4	64.4	51	32.2	25.5	10	24	4.2	19.5	22.5	16	18.5	9	30.3	15

GPZA

Union Cross

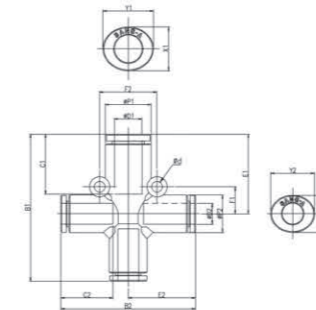


MODEL [ØD-T] Tube(Metric) – Thread(R)

MODEL	ØD	ØP	C	E	F	Ød	X	Y	Orifice (Ømm)	W.G(g)	Qty/Inbox
GPZA 04	4	9	14.5	17.1	6	3.2	8.6	10.8	3.2	5.9	50
GPZA 06	6	11.2	15.5	19	6.5	3.2	11	13	5	8.9	50
GPZA 08	8	13.6	17.8	23.6	8.5	3.2	13	15	7	14.8	25
GPZA 10	10	16.3	19.4	25	10	4.2	16	18.5	9	21.1	25
GPZA 12	12	19.7	22.4	32.2	12	4.2	19.5	22.5	10	38.8	15

GPZA31

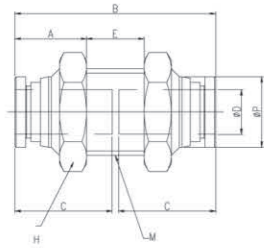
Different Dia of Union Cross(3/1)



MODEL [ØD-T] Tube(Metric) – Thread(R)

MODEL	ØD1	ØD2	ØP1	ØP2	C1	C2	B1	B2	E1	E2	F1	F2	Ød	X1	Y1	X2	Y2	Orifice (Ømm)	W.G(g)	Qty/Inbox
GPZA31 0806	8	6	13.6	11.2	17.8	15.5	43.6	39.9	23.6	20	8	17	3.2	13	15	11	13	5	10.9	25
GPZA31 1008	10	8	16.3	13.6	19.4	17.8	49.1	48.2	25	24.1	9.5	20	4.2	16	18.5	13	15	7	16.5	25
GPZA31 1210	12	10	19.7	16.3	22.4	19.4	57.7	51	32.2	25.5	10	24	4.2	19.5	22.5	16	18.5	9	25.9	15

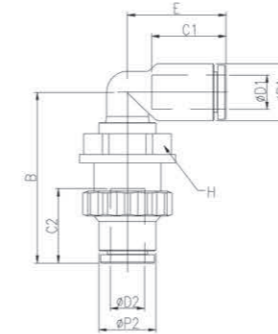
GPMM
Bukhead Union



MODEL[ØD-T] Tube(Metric)–Thread(R)

MODEL	ØD	ØP	M	A	H	B	C	E	Orifice (Ømm)	W.G(g)	Qty/Inbox
GPMM 04	4	8.8	M12 X 1.0P	10.7	14	30	14.5	8.6	3.2	18.6	100
GPMM 06	6	11	M14 X 1.0P	11.3	17	31.9	15.5	9.4	5	25.5	50
GPMM 08	8	13	M16 X 1.0P	13.2	19	37	17.8	10.6	7	35.5	50
GPMM 10	10	15.5	M20 X 1.0P	13.6	24	40.1	19.4	12.9	9	60.7	25
GPMM 12	12	18.8	M22 X 1.0P	15.3	26	45.8	22.4	15.4	10	78.3	25

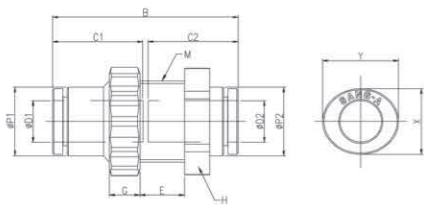
GPLM
Bukhead Union P



MODEL[ØD-T] Tube(Metric)–Thread(R)

MODEL	ØD1	ØD2	ØP1	ØP2	C1	C2	M	B	E	F	G	H	I	Orifice (Ømm)	W.G(g)	Qty/Inbox
GPLM 04	4	4	9	9	14.5	14.5	M12X1.5P	33.2	17.1	11.6	5	14	5.1	3.2	6.1	50
GPLM 06	6	6	11.2	11.2	15.5	15.5	M14X1.5P	35.3	18	13	5	17	6.6	4	9.5	50
GPLM 08	8	8	13.6	13.6	17.8	17.8	M16X1.5P	40.9	23.6	14	6	19	6.8	5.5	15.2	25
GPLM 10	10	10	16.3	16.3	19.4	19.4	M20X2.0P	45.6	25	16	6	24	8.15	9	21.9	20
GPLM 12	12	12	19.7	19.7	22.4	22.4	M24X2.0P	52.1	32.2	18	6	27	9.85	9.5	38.6	15

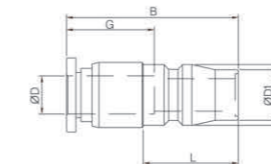
GPPM
Bukhead Union P



MODEL[ØD-T] Tube(Metric)–Thread(R)

MODEL	ØD1	ØD2	ØP1	ØP2	M	G	H	B	C1	C2	E	Orifice (Ømm)	W.G(g)	Qty/Inbox
GPPM 04	4	4	9	9	M12 X 1.5P	5	14	30	14.5	14.5	7.1	3.2	6.2	100
GPPM 06	6	6	11.2	11.2	M14 X 1.5P	5	17	31.9	15.5	15.5	8.6	5	9.3	50
GPPM 08	8	8	13.6	13.6	M16 X 1.5P	6	19	36.6	17.8	17.8	8.8	7	13.2	50
GPPM 10	10	10	16.3	16.3	M20 X 2.0P	6	24	40	19.4	19.4	10.2	9	22.1	25
GPPM 12	12	12	19.7	19.7	M24 X 2.0P	6	27	46	22.4	22.4	11.9	10	28.2	20

GPCP
Straight Ace Coupler Plug



MODEL[ØD-T] Tube(Metric)–Thread(R)

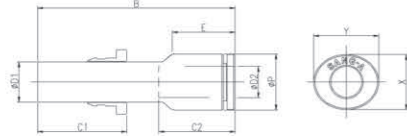
MODEL	ØD	ØD1	ØP	B	L	C	W.G(g)	Qty/Inbox
GPCP 04	4	10.9	13.1	31.6	20.5	14.5	19	100
GPCP 06	6	10.9	13.1	30.3	20.5	15.5	18	100
GPCP 08	8	10.9	13.1	35.2	20.5	17.8	19	100
GPCP 10	10	10.9	13.1	41.8	20.5	19.4	31	50
GPCP 12	12	10.9	13.1	45.8	20.5	22.4	43	50
GPCP 14	14	10.9	13.1	47.8	20.5	24.4	45	25
GPCP 16	16	10.9	13.1	48.5	20.5	25	54	25

GPGJ
Plug-in Reducer



MODEL[ØD-T] Tube(Metric)–Thread(R)

MODEL	ØD1	ØD2	ØP	B	C1	C2	E	X	Y	Orifice (Ømm)	W.G(g)	Qty/Inbox
GPGJ 0604	6	4	9	36.1	15.5	14.5	11.3	8.6	11	3.2	1.8	100
GPGJ 0804	8	4	9	36.9	17.8	14.5	11.3	8.6	11	3.2	2.1	100
GPGJ 0806	8	6	11.2	39.5	17.8	15.5	12.6	11	13	5	2.9	50
GPGJ 1006	10	6	11.2	40.3	19.4	15.5	12.6	11	13	5	3.2	50
GPGJ 1008	10	8	13.6	45.6	19.4	17.8	16.6	13	15	7	4.6	50
GPGJ 1206	12	6	11.2	45	22.4	15.5	16.3	11	13	5	4.3	25
GPGJ 1208	12	8	13.6	46.6	22.4	17.8	16.6	13	15	7	5.4	25
GPGJ 1210	12	10	16.3	46.6	22.4	19.4	15	16	19	9	6.7	25

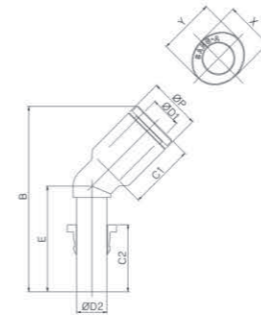


GPLJ45
Plug-in Extended Elbow



MODEL[ØD-T] Tube(Metric)–Thread(R)

MODEL	ØD1	ØD2	ØP	B	C1	C2	E	X	Y	Orifice (Ømm)	W.G(g)	Qty/Inbox
GPLJ45 04	4	4	9	35	14.5	14.5	20	8.6	10.8	2	1.7	100
GPLJ45 06	6	6	11.2	41.9	15.5	15.5	26	11	13	4	2.8	50
GPLJ45 08	8	8	13.6	49.1	17.8	17.8	28	13	15	6	4.6	50
GPLJ45 10	10	10	16.3	53.6	19.4	19.4	30.5	16	18.5	8	6.7	25
GPLJ45 12	12	12	19.7	62.3	22.4	22.4	33	19.5	22.5	9	12.5	25

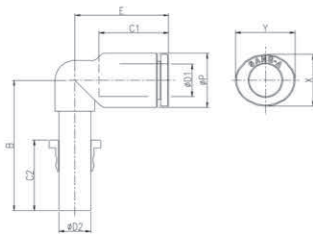


GPLJ
Plug-in Elbow



MODEL[ØD-T] Tube(Metric)–Thread(R)

MODEL	ØD1	ØD2	ØP	B	C1	C2	E	X	Y	Orifice (Ømm)	W.G(g)	Qty/Inbox
GPLJ 03	3	3	9	23.5	14.5	14.5	17.1	8.6	10.8	1.5	1.8	100
GPLJ 04	4	4	9	23.5	14.5	14.5	17.1	8.6	10.8	2.5	1.8	100
GPLJ 06	6	6	11.2	29.6	15.5	15.5	18	8.6	13	4	3.0	50
GPLJ 08	8	8	13.6	32.8	17.8	17.8	23.6	13	15	6	4.9	50
GPLJ 10	10	10	16.3	36.2	19.4	19.4	25	16	18.5	8	7.3	25
GPLJ 12	12	12	19.7	39.9	22.4	22.4	32.2	19.5	22.5	9	13.5	25
GPLJ 14	14	14	23.5	42.8	24.4	24.4	31.9	23	25	11	21.4	20
GPLJ 16	16	16	25.6	44.8	25	25	34	24	27	13	21.8	15

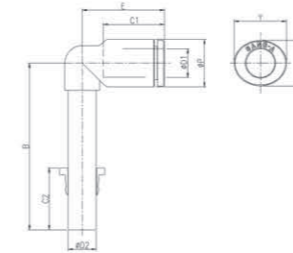


GPLLJ
Plug-in Extended Elbow



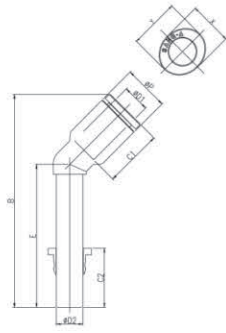
MODEL[ØD-T] Tube(Metric)–Thread(R)

MODEL	ØD1	ØD2	ØP	B	C1	C2	E	X	Y	Orifice (Ømm)	W.G(g)	Qty/Inbox
GPLLJ 04	4	4	9	33.5	14.5	14.5	17.1	8.6	10.8	2.5	1.9	100
GPLLJ 06	6	6	11.2	42.1	15.5	15.5	18	11	13	4	3.3	50
GPLLJ 08	8	8	13.6	47.8	17.8	17.8	23.6	13	15	6	5.1	50
GPLLJ 10	10	10	16.3	53.7	19.4	19.4	25	16	18.5	8	7.5	25
GPLLJ 12	12	12	19.7	60.9	22.4	22.4	32.2	19.5	22.5	9	15.1	25
GPLLJ 14	14	14	23.5	67.3	24.4	24.4	31.9	23	25	11	23.4	20
GPLLJ 16	16	16	25.6	71.3	25	25	34	24	27	13	24.5	20



GPLLJ45

Plug-in Reducer Elbow

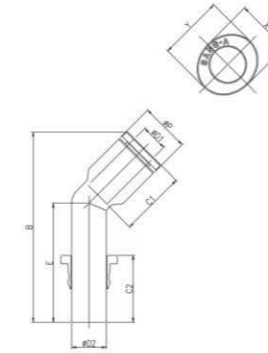


MODEL[ØD-T] Tube(Metric)–Thread(R)

MODEL	ØD1	ØD2	ØP	B	C1	C2	E	X	Y	Orifice (Ømm)	W.G(g)	Qty/Inbox
GPLLJ45 04	4	4	9	45	14.5	14.5	30	8.6	10.8	2	1.9	100
GPLLJ45 06	6	6	11.2	54.4	15.5	15.5	38	11	13	4	3.1	50
GPLLJ45 08	8	8	13.6	64.1	17.8	17.8	43	13	15	6	5.1	50
GPLLJ45 10	10	10	16.3	71.1	19.4	19.4	48	16	18.5	8	7.4	25
GPLLJ45 12	12	12	19.7	83.3	22.4	22.4	54	19.5	22.5	9	13.9	25

GPLGJ45

Plug-in Reducer Elbow

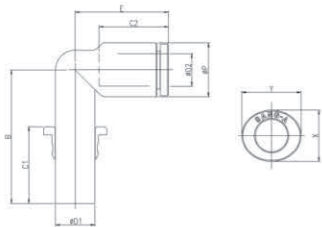


MODEL[ØD-T] Tube(Metric)–Thread(R)

MODEL	ØD1	ØD2	ØP	B	C1	C2	E	X	Y	Orifice (Ømm)	W.G(g)	Qty/Inbox
GPLGJ45 0604	4	6	9	40	14.5	15.5	25	8.6	10.8	3.2	2.0	100
GPLGJ45 0806	6	8	11.2	43.9	15.5	17.8	27.5	11	13	4	3.1	50
GPLGJ45 1008	8	10	13.6	51.1	17.8	19.4	30	13	15	6	4.9	25
GPLGJ45 1210	10	12	16.3	55.6	19.4	22.4	32.5	16	18.5	8	8.2	25

GPLGJ

Plug-in Reducer Elbow

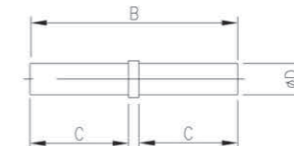


MODEL[ØD-T] Tube(Metric)–Thread(R)

MODEL	ØD1	ØD2	ØP	B	C1	C2	E	X	Y	Orifice (Ømm)	W.G(g)	Qty/Inbox
GPLGJ 0604	6	4	9	28.5	15.5	14.5	17.1	8.6	10.8	3.2	2.1	50
GPLGJ 0806	8	6	11.2	30.6	17.8	15.5	18	11	13	5	3.2	50
GPLGJ 1008	10	8	13.6	33.8	19.4	17.8	23.6	13	15	7	5.4	50
GPLGJ 1210	12	10	16.3	38.2	22.4	19.4	25	16	18.5	9	8.1	25

PIJ

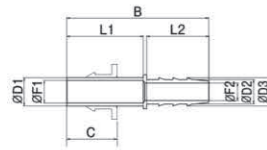
Tube Splicer



MODEL[ØD-T] Tube(Metric)–Thread(R)

MODEL	ØD	B	C	Orifice (Ømm)	W.G(g)	Qty/Inbox
PIJ 04	4	37.5	17.75	2	0.5	100
PIJ 06	6	39.5	18.75	4	0.9	100
PIJ 08	8	43.2	20.6	5	1.7	50
PIJ 10	10	47	22.5	6.5	3	50
PIJ 12	12	52.8	25.4	8	4.4	50
PIJ 16	16	60	29	13	8.5	50

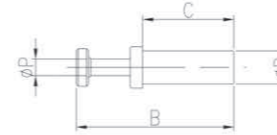
PJH
Plug-In Extended Elbow



MODEL[ØD-T] Tube(Metric)–Thread(R)

MODEL	B	C	ØD1	ØD2	ØD3	ØF1	ØF2	L1	L2	W.G(g)	Qty/ Inbox
PJH 04-04	36	16	4	4.8	5.9	2	2	18	17	0.9	100
PJH 04-05	36	16	4	6	6.9	2	4.2	18	17	0.8	100
PJH 06-05	41	17	6	5.9	6.9	4	4	23	17	1.1	100
PJH 06-06	41	17	6	6.8	7.9	4	4	23	17	1.4	100
PJH 08-06	43	18.5	8	6.8	7.9	6	4	25	17	1.7	100
PJH 08-08	48.2	18.5	8	8.6	10	6	6	25	22	2.3	100
PJH 10-08	50.2	21	10	8.6	10	8	6.2	27	22	2.7	100
PJH 12-08	54.2	22.5	12	8.6	10	10	6.2	31	22	2.8	100
PJH 12-10	54.7	22.5	12	10.6	12	10	8	31	22.5	3.1	50
PJH 12-13	55	22.5	12	13.5	15	10	10	31	22.5	5	50
PJH 14-14	59.5	24.5	14	14.7	16	12	10	35.5	22.5	5.8	50
PJH 04-1/8	36	16	4	3.8	5	2	2	17	17	0.5	100
PJH 08-1/4	43	18.5	8	7.3	8.5	6	4.6	24	17	1.7	100
PJH 10-1/4	45.2	21	10	7.3	8.5	8	4.6	26	17	2.3	100
PJH 12-1/2	55	22.5	12	13.2	14.5	10	10	30	22.5	4.7	50
PJH 14-1/2	59.5	24.5	14	13.2	14.5	12	10	34.5	22.5	4.8	50

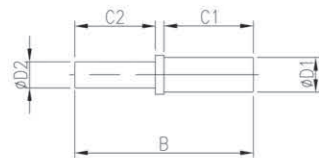
PP
Plug



MODEL[ØD-T] Tube(Metric)–Thread(R)

MODEL	ØD	B	ØP	C	W.G(g)	Qty/ Inbox
PP 04	4	30	2	19	0.4	100
PP 06	6	34	3	20	0.7	100
PP 08	8	38	4	22	1.4	100
PP 10	10	41	5	25	2	50
PP 12	12	43	7	27	3.6	50
PP 16	16	47	9	31	4	25

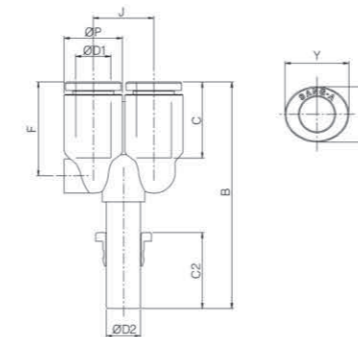
PIG
Reducer Tube Splicer



MODEL[ØD-T] Tube(Metric)–Thread(R)

MODEL	ØD1	ØD2	B	C1	C2	Orifice (Ømm)	W.G(g)	Qty/ Inbox
PIG 06-04	6	4	37.5	18.6	17.7	2	0.7	100
PIG 08-04	6	4	44	22	19	2	0.9	100
PIG 08-06	8	6	41.2	20.6	18.6	4	1.5	100
PIG 10-06	10	6	48	25	20	4	1.6	100
PIG 10-08	10	8	45	22.6	20.4	5	2.8	100
PIG 12-08	12	8	52	27	22	5	2.6	50
PIG 12-10	12	10	49.8	25.4	22.4	5.5	4.9	50
PIG 16-12	16	12	54	27	25	9	8.2	50

GPYJ
Plug-in Y

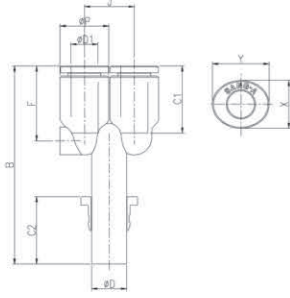


MODEL[ØD-T] Tube(Metric)–Thread(R)

MODEL	ØD1	ØD2	ØP	B	C1	C2	F	J	X	Y	Orifice (Ømm)	W.G(g)	Qty/ Inbox
GPYJ 04	4	4	9	37.8	14.5	14.5	16	9.3	8.6	10.8	2	3.4	100
GPYJ 06	6	6	11.2	45	15.5	15.5	17.2	11.4	11	13	3.5	5.4	50
GPYJ 08	8	8	13.6	53.1	17.8	17.8	22	14.2	13	15	4.4	9.2	50
GPYJ 10	10	10	16.3	56	19.4	19.4	22.6	17	16	18.5	5.6	13.5	25
GPYJ 12	12	12	19.7	63.4	22.4	22.4	27.2	20	19.5	22.5	6.4	24.0	20

GPWJ

Plug-in Reducer Y

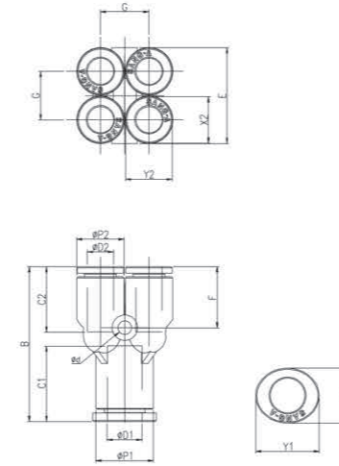


MODEL[ØD-T] Tube(Metric)–Thread(R)

MODEL	ØD1	ØD2	ØP	B	C1	C2	F	J	X	Y	Orifice (Ømm)	W.G(g)	Qty/Inbox
GPWJ 0604	6	4	9	42.8	14.5	14.5	16	9.3	8.6	10.8	2	3.7	50
GPWJ 0806	8	6	11.2	45.5	15.5	15.5	17.2	11.4	11	13	3.5	5.8	50
GPWJ 1008	10	8	13.6	53.1	17.8	17.8	22	14.2	13	15	4.4	9.3	50
GPWJ 1210	12	10	16.3	58	19.4	19.4	22.6	17	16	18.5	5.6	14.4	25

GPXG

Reducer Double Y Union

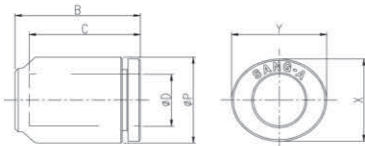


MODEL[ØD-T] Tube(Metric)–Thread(R)

MODEL	ØD1	ØD2	ØP1	ØP2	B	C1	C2	E	F	G	Ød	X1	Y1	X2	Y2	Orifice (Ømm)	W.G(g)	Qty/Inbox
GPXG 0604	6	4	11.2	9	32.5	15.5	14.5	18.2	13.1	9.2	3.2	11	13	8.6	8.6	2.3	7.8	25
GPXG 0806	8	6	13.6	11.2	36.6	17.8	15.5	22.6	14.5	11.5	3.2	13	15	11	11	3.7	14.0	25

GPPF

Cap

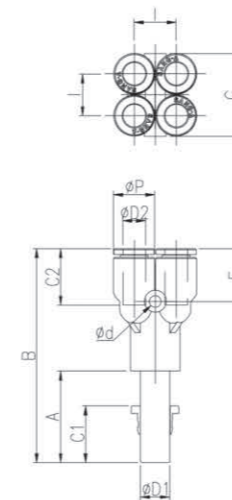


MODEL[ØD-T] Tube(Metric)–Thread(R)

MODEL	ØD	ØP	B	C	X	Y	W.G(g)	Qty/Inbox
GPPF 04	4	9	15.6	14.5	8.6	10.8	1.4	100
GPPF 06	6	11.2	17	15.5	11	13	2.2	100
GPPF 08	8	13.6	19.8	17.8	13	15	3.6	100
GPPF 10	10	16.3	21	19.4	16	18.5	5.1	50
GPPF 12	12	19.7	25.4	22.4	19.5	22.5	9.3	50

GPXJ

Reducer Double Y

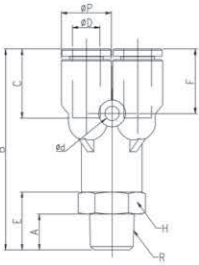
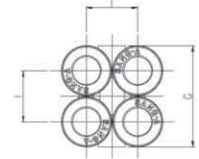


MODEL[ØD-T] Tube(Metric)–Thread(R)

MODEL	ØD1	ØD2	ØP	A	B	C1	C2	F	G	I	Ød	Orifice (Ømm)	W.G(g)	Qty/Inbox
GPXJ 0604	6	4	9	23	53	15.5	14.5	13.1	18.2	9.2	3.2	2.3	8.2	25
GPXJ 0806	8	6	11.2	25	58.5	17.8	15.5	14.5	22.6	11.5	3.2	3.7	13.2	25

GPXT

Male Double Y



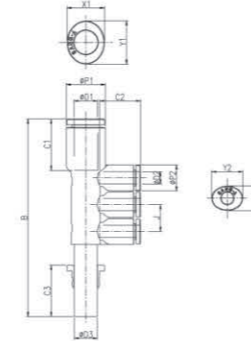
MODEL [ØD-T] Tube(Metric) – Thread(R)

MODEL	ØD	R	ØP	A	B	C	E	F	G	H	I	Ød	Orifice (Ømm)	W.G(g)	Qty/Inbox
GPXT 0401	4	R1/8	9	8	41.5	14.5	13	13.1	18.2	11	9.2	3.2	2.3	14.2	25
GPXT 0402	4	R1/4	9	11	44.5	14.5	16	13.1	18.2	14	9.2	3.2	2.3	22.3	25
GPXT 0601	6	R1/8	11.2	8	45	15.5	13	14.5	22.6	13	11.5	3.2	3.7	20.4	25
GPXT 0602	6	R1/4	11.2	11	47.5	15.5	15.5	14.5	22.6	14	11.5	3.2	3.7	27.6	25

*Rotating body construction after a proper installation.

GPKJ

Plug-In Reducer Triple Branch

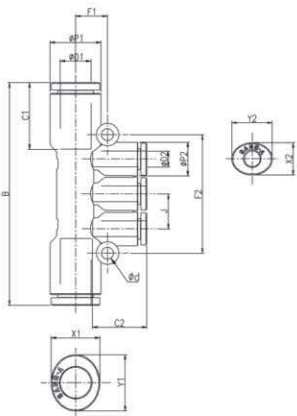


MODEL [ØD-T] Tube(Metric) – Thread(R)

MODEL	ØD1	ØD2	ØD3	ØP1	ØP2	B	C1	C2	C3	J	X1	Y1	X2	Y2	Orifice (Ømm)	W.G(g)	Qty/Inbox
GPKJ 0604	6	4	6	11.2	9	64.2	15.5	14.5	15.5	9.3	11	13	8.6	10.8	3.2	7.7	25
GPKJ 0804	8	4	8	13.6	9	68.5	17.8	14.5	17.8	9.3	13	15	8.6	10.8	3.2	9.6	25
GPKJ 0806	8	6	8	13.6	11.2	75	17.8	15.5	17.8	11.4	13	15	11	13	5	12.2	25
GPKJ 1006	10	6	10	16.3	11.2	78.4	19.4	15.5	19.4	11.4	16	18.5	11	13	5	14.8	25
GPKJ 1008	10	8	10	16.3	13.6	86.2	19.4	17.8	19.4	14.2	16	18.5	13	15	7	19.4	20

GPKG

Reducer Triple Branch Union

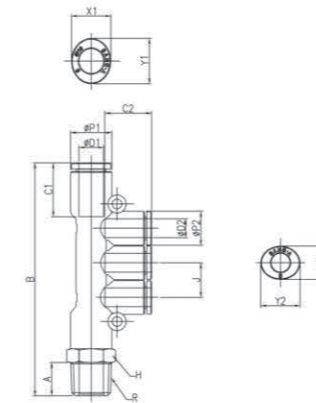


MODEL [ØD-T] Tube(Metric) – Thread(R)

MODEL	ØD1	ØD2	ØP1	ØP2	B	C1	C2	Ød	F1	F2	J	X1	Y1	X2	Y2	Orifice (Ømm)	W.G(g)	Qty/Inbox
GPKG 0604	6	4	11.2	9	54.7	15.5	14.5	3.2	6.5	30.6	9.3	11	13	8.6	10.8	3.2	7.9	25
GPKG 0804	8	4	13.6	9	59.4	17.8	14.5	3.2	8.5	31.6	9.3	13	15	8.6	10.8	3.2	10.3	25
GPKG 0806	8	6	13.6	11.2	66	17.8	15.5	3.2	8.5	38.8	11.4	13	15	11	13	5	13.0	25
GPKG 1006	10	6	16.3	11.2	68.8	19.4	15.5	4.2	10	38.8	11.4	16	19	11	13	5	15.8	25
GPKG 1008	10	8	16.3	13.6	76.4	19.4	17.8	4.2	10	47.4	14.2	16	19	13	15	7	20.4	20

GPKD

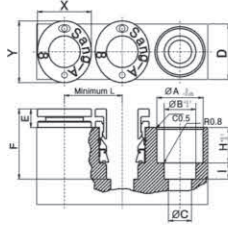
Male Reducer Triple Branch



MODEL [ØD-T] Tube(Metric) – Thread(R)

MODEL	ØD1	ØD2	R	ØP1	ØP2	B	C1	C2	A	H	J	X1	Y1	X2	Y2	Orifice (Ømm)	W.G(g)	Qty/Inbox
GPKD 0604-01	6	4	R1/8	11.2	9	63.8	15.5	14.5	8	11	9.3	11	13	8.6	10.8	3.2	16.6	25
GPKD 0604-02	6	4	R1/4	11.2	9	66.8	15.5	14.5	11	14	9.3	11	13	8.6	10.8	3.2	23.8	25
GPKD 0804-02	8	4	R1/4	13.6	9	70.3	17.8	14.5	11	14	9.3	13	15	8.6	10.8	3.2	25.8	25
GPKD 0806-02	8	6	R1/4	13.6	11.2	76.9	17.8	15.5	11	14	11.4	13	15	11	13	5	28.5	25
GPKD 0806-03	8	6	R3/8	13.6	11.2	77.9	17.8	15.5	12	17	11.4	13	15	11	13	5	36.0	25
GPKD 1008-03	10	8	R3/8	16.3	13.6	88.4	19.4	17.8	12	17	14.2	16	18.5	13	15	7	44.9	20

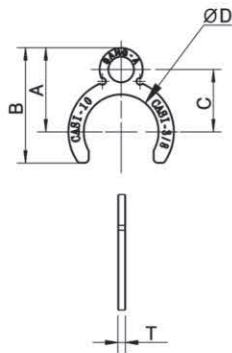
CAS
Insert-Tube



MODEL[ØD-T] Tube(Metric)–Thread(R)

MODEL	ØD	ØA	ØB	ØC	D	E	F	H	I	L	X	Y	W.G(g)	Qty/ Inbox
CAS-N04	4	8.1	4.2	2.5	11	4.7	16	7.8	3.5	11	10	12	1.8	100
CAS-N06	6	10	6.2	4	13	5	17.2	8.2	4	13	12	14	2.2	100
CAS-N08	8	12	8.2	6	15	4.8	18.2	9.2	4.5	15	14	16	2.9	100
CAS-N10	10	15.1	10.2	8	18	5.8	21	10.2	5	18	17	19	3.5	100
CAS-N12	12	17.7	12.2	10	22	5.2	22.4	12.2	5	22	21	23	4	100

CASI
Insert-Tube Clip



MODEL[ØD-T] Tube(Metric)–Thread(R)

MODEL	ØD	A	B	C	T	Qty/ Inbox
CASI 04	5.2	9	11.3	6	0.8	100
CASI 06	7.9	10	13.5	7	1	100
CASI 08	9.7	11	15.3	8	1	100
CASI 10	11.9	13.5	18.5	10	1.2	100
CASI 12	14.8	14.3	20.5	11	1.6	100

Metric Size R(PT) Thread Type

- One -Touch Fittings
- **Compact One -Touch Fittings**
- Speed Controllers
- Metal Body Speed Controllers
- Rotary Joints
- Stop Fittings
- Check Valves
- Ball Valves
- Main Blocks
- Hand Valves
- Hand Slide Valves
- Two-Touch Fittings

COMPACT ONE-TOUCH FITTINGS

Application

- Compact type one-touch joints used in small types of pneumatic piping.
- A wide variety of models are available to meet most your needs.

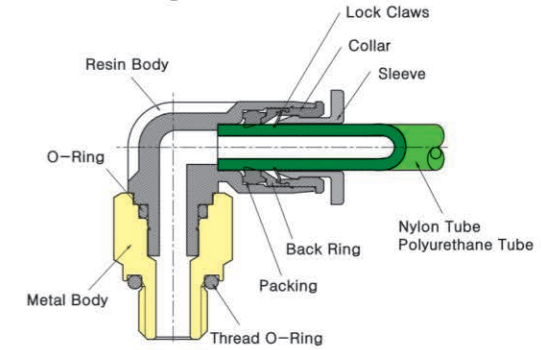
Feature

- The world's smallest quick-fitting joints feature 40% smaller volume ratio and 20% smaller O.D. ratio in comparison to the conventional type.
- The compact type joints, which are nickel plated, are excellent not only in appearance but also in rust resistance.
- The elliptical sleeve helps easy application or removal of the tube in confined space.

Specification

Fluid	Air(No other gases or liquids)	
Working Pressure Range	0~150PSI	0~9Kgf/cm ² (0~900kPa)
Negative Pressure	-29.50 in Hg	-750mmHg(10Torr)
Temperature Range	32~140° F	0~60° C
Applicable Tube Material	Polyurethane and Nylon	

Structural Diagram



Case In Use

- ▶ **POC Model/PCC Model**
The hexagonal shape on the inside of the body makes it possible to tighten the fitting by use of a hexagonal wrench. In the case of POC, PCC a hexagonal wrench must be used due to the round exterior.
- ▶ **PLL Model/PL Model**
Long brass body helps tightening with ease away from any obstacles.

Product Code System

PC 06-01 C

① ② ③ ④

① Type

② Tube Dia(ØD)

Code	03	04	06	10	12	16
Dia	Ø3	Ø4	Ø6	Ø10	Ø12	Ø16

③ Thread Size(T)

	Metric Size			
Code	M3	M5	M6	01
Size	M5×0.8	M5×0.8	M6×1.0	R1/8

④ C=COMPACT

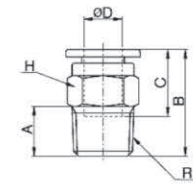
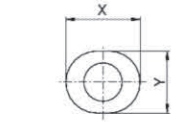
CAUTION

- Be sure to read the "Common Precautions" and the "Using Precautions of Fitting Series" (P12) before using.
- Tube should be securely pushed into the fitting, otherwise air leakage may occur.

WARNING

- Be sure to confirm that proper conditions are met, otherwise air leakage may occur.

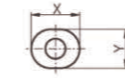
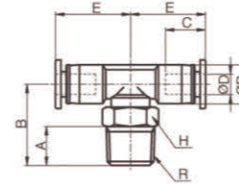
PC-C
Male Straight



MODEL [ØD-T] Tube (Metric) - Thread (R)

MODEL	ØD	R	C	B	H	A	X	Y	Orifice (Ømm)	W.G(g)	Qty/Inbox
PC 03-M3C	3	M3	9.5	13.6	6	3	7	6	1.2	1.3	100
PC 03-M5C	3	M5	9.5	15.7	8	3.5	7	6	2	3.1	100
PC 03-M6C	3	M6	9.5	16.5	8	4.5	7	6	2	3.3	100
PC 04-M3C	4	M3	11.5	17.2	8	3	10	8	1.2	3.2	100
PC 04-M5C	4	M5	11.5	15.7	8	3.5	10	8	2	2.9	100
PC 04-M6C	4	M6	11.5	16.9	8	4.5	10	8	3	3.2	100
PC 04-01C	4	R1/8	11.5	15.7	10	8	10	8	3	6	100
PC 06-M5C	6	M5	12.5	16.8	10	3.5	12	10	2	3.8	100
PC 06-M6C	6	M6	12.5	17.8	10	4.5	12	10	3	4.1	100
PC 06-01C	6	R1/8	12.5	17.9	10	8	12	10	4.5	5.3	100

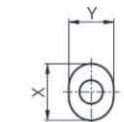
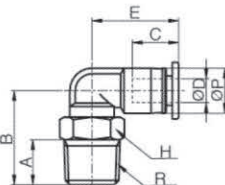
PT-C
Male Branch Tee



MODEL [ØD-T] Tube (Metric) - Thread (R)

MODEL	ØD	R	ØP	C	A	B	E	H	X	Y	Orifice (Ømm)	W.G(g)	Qty/Inbox
PT 03-M3C	3	M3	6	9.5	3	12.4	11.2	6	7	6	1.2	2	100
PT 03-M5C	3	M5	6	9.5	3.5	13.5	11.2	8	7	6	2	3.2	100
PT 03-M6C	3	M6	6	9.5	4.5	14.5	11.2	8	7	6	2.4	3.5	100
PT 04-M3C	4	M3	8	11.5	3	15	13.1	8	10	8	1.2	4.2	100
PT 04-M5C	4	M5	8	11.5	3.5	14.5	13.1	8	10	8	2	4.1	100
PT 04-M6C	4	M6	8	11.5	4.5	15.5	13.1	10	10	8	2.4	4.4	100
PT 04-01C	4	R1/8	8	11.5	8	16.4	13.1	12	10	8	2.8	6.9	100
PT 06-M5C	6	M5	10.5	12.5	3.5	15.5	14.4	8	12	10	2	5.4	100
PT 06-M6C	6	M6	10.5	12.5	4.5	16.5	14.4	8	12	10	2.4	5.7	100
PT 06-01C	6	R1/8	10.5	12.5	8	17.4	14.4	10	12	10	3	8.2	100

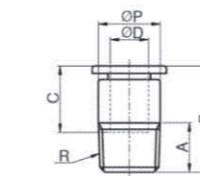
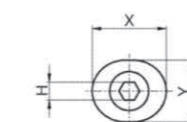
PL-C
Male Elbow



MODEL [ØD-T] Tube (Metric) - Thread (R)

MODEL	ØD	R	ØP	B	E	C	A	H	X	Y	Orifice (Ømm)	W.G(g)	Qty/Inbox
PL 03-M3C	3	M3	6	12.4	11.2	9.5	3	6	7	6	1.2	1.6	100
PL 03-M5C	3	M5	6	13.5	11.2	9.5	3.5	8	7	6	2	2.7	100
PL 03-M6C	3	M6	6	14.5	11.2	9.5	4.5	8	7	6	2.4	3	100
PL 04-M3C	4	M3	8	14	15.6	11.5	3	8	10	8	1.2	3.3	100
PL 04-M5C	4	M5	8	13.5	15.6	11.5	3.5	8	10	8	2	3.3	100
PL 04-M6C	4	M6	8	14.5	15.6	11.5	4.5	10	10	8	2.4	3.7	100
PL 04-01C	4	R1/8	8	15.6	15.6	11.5	8	12	10	8	2.8	6.1	100
PL 06-M5C	6	M5	10.5	13.5	16.9	12.5	3.5	8	12	10	2	3.9	100
PL 06-M6C	6	M6	10.5	14.5	16.9	12.5	4.5	8	12	10	2.4	4.2	100
PL 06-01C	6	R1/8	10.5	16.9	16.9	12.5	8	10	12	10	3	6.8	100

POC-C
Round Male Straight



MODEL [ØD-T] Tube (Metric) - Thread (R)

MODEL	ØD	R	C	A	B	H	ØP	X	Y	Orifice (Ømm)	W.G(g)	Qty/Inbox
POC 03-M3C	3	M3	9.5	3	15.9	1.5	6	7	6	1.2	1.7	100
POC 03-M5C	3	M5	9.5	3.5	17.5	2	8	7	6	2	3.8	100
POC 03-M6C	3	M6	9.5	4.5	19.7	3	8	7	6	2	4.2	100
POC 04-M3C	4	M3	11.5	3	18	1.5	8	10	8	1.2	3.4	100
POC 04-M5C	4	M5	11.5	3.5	18.7	2.5	8	10	8	2	3.8	100
POC 04-M6C	4	M6	11.5	4.5	19.7	3	8	10	8	3	4	100
POC 04-01C	4	R1/8	11.5	8	15.8	3	10	10	8	3	5.5	100
POC 06-M5C	6	M5	12.5	3.5	17.3	2.5	10	12	10	2	3.9	100
POC 06-M6C	6	M6	12.5	4.5	18.3	3	10	12	10	3	4.1	100
POC 06-01C	6	R1/8	12.5	8	16.9	4	10	12	10	4.5	4.5	100

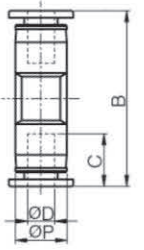
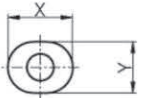
Compact One - Touch Fittings

Compact One - Touch Fittings

PUC-C
Union Straight

MODEL [ØD-T] Tube (Metric) - Thread (R)

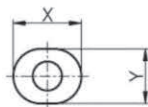
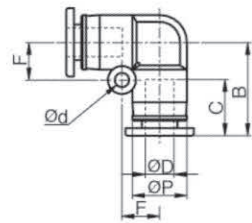
MODEL	ØD	ØP	B	C	X	Y	Orifice (Ømm)	W.G(g)	Qty/Inbox
PUC 03C	3	6	20.4	9.5	7	6	2.5	1.1	100
PUC 04C	4	8	23.8	11.5	10	8	3	2	100
PUC 06C	6	10.5	25.1	12.5	12	10	4	3.2	100



PUL-C
Union Straight

MODEL [ØD-T] Tube (Metric) - Thread (R)

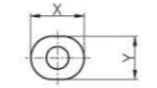
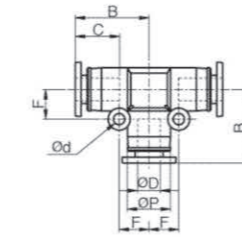
MODEL	ØD	ØP	Ød	C	F	B	X	Y	Orifice (Ømm)	W.G(g)	Qty/Inbox
PUL 03C	3	6	3.2	9.5	4.5	11.4	7	6	2.5	1.1	100
PUL 04C	4	8	3.2	11.5	5.8	13.9	10	8	3	2.1	100
PUL 06C	6	10.5	3.2	12.5	6.5	15.4	12	10	4	3.4	100



PUT-C
Union Tee

MODEL [ØD-T] Tube (Metric) - Thread (R)

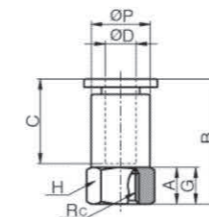
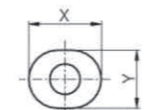
MODEL	ØD	ØP	Ød	F	C	B	X	Y	Orifice (Ømm)	W.G(g)	Qty/Inbox
PUT 03C	3	6	3.2	4.5	9.5	11.4	7	6	2.5	1.7	100
PUT 04C	4	8	3.2	5.8	11.5	13.9	10	8	3	3.1	100
PUT 06C	6	10.5	3.2	6.5	12.5	15.4	12	10	4	5	100



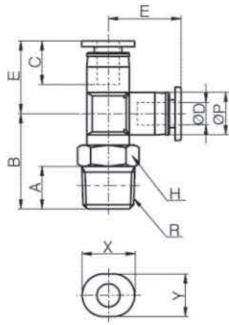
PCF-C
Female Straight

MODEL [ØD-T] Tube (Metric) - Thread (R)

MODEL	ØD	Rc	G	C	A	B	H	ØP	X	Y	Orifice (Ømm)	W.G(g)	Qty/Inbox
PCF 03-M3C	3	M3	5	9.5	3	14.9	8	8	7	6	2	3.8	100
PCF 03-M5C	3	M5	5	9.5	5	16.9	8	8	7	6	2.5	4.1	100
PCF 04-M3C	4	M3	5	11.5	3	15	8	8	10	8	2	3.7	100
PCF 04-M5C	4	M5	5	11.5	5	17	8	8	10	8	2.5	3.8	100



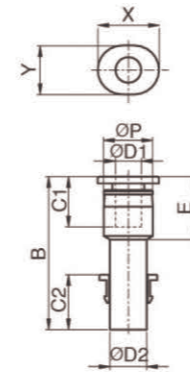
PST-C
Male Run Tee



MODEL [ØD-T] Tube (Metric) - Thread (R)

MODEL	ØD	R	ØP	C	A	B	E	H	X	Y	Orifice (Ømm)	W.G(g)	Qty/Inbox
PST 03-M3C	3	M3	6	9.5	3	11.4	11.2	6	7	6	1.2	2	100
PST 03-M5C	3	M5	6	9.5	3.5	13.5	11.2	8	7	6	2	3.3	100
PST 03-M6C	3	M6	6	9.5	4.5	14.5	11.2	8	7	6	2.4	3.6	100
PST 04-M3C	4	M3	8	11.5	3	15	13.1	8	10	8	1.2	4.2	100
PST 04-M5C	4	M5	8	11.5	3.5	14.5	13.1	8	10	8	2	4.3	100
PST 04-M6C	4	M6	8	11.5	4.5	15.5	13.1	8	10	8	2.4	4.5	100
PST04-01C	4	R1/8	8	11.5	8	16.4	13.1	10	10	8	2.8	7	100
PST 06-M5C	6	M5	10.5	12.5	3.5	16.5	14.4	8	12	10	2	5.6	100
PST 06-M6C	6	M6	10.5	12.5	4.5	17.5	14.4	8	12	10	2.4	5.9	100
PST 06-01C	6	R1/8	10.5	12.5	8	18	14.4	10	12	10	3	8.4	100

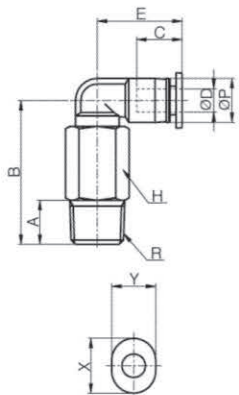
PGJ-C
Reducer



MODEL [ØD-T] Tube (Metric) - Thread (R)

MODEL	ØD1	ØD2	ØP	C1	C2	E	B	X	Y	Orifice (Ømm)	W.G(g)	Qty/Inbox
PGJ 04-03C	3	4	6.5	9.5	11.5	11.2	29.2	7	6	2.5	0.9	100
PGJ 06-04C	4	6	9	11.5	12.5	13.2	33.2	10	8	3	1.8	100

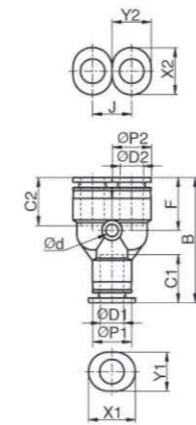
PLL-C
Extended Male Elbow



MODEL [ØD-T] Tube (Metric) - Thread (R)

MODEL	ØD	R	ØP	B	E	C	A	H	X	Y	Orifice (Ømm)	W.G(g)	Qty/Inbox
PLL 03-M3C	3	M3	6	19.4	11.2	9.5	3	6	7	6	1.2	3.1	100
PLL 03-M5C	3	M5	6	25.5	11.2	9.5	3.5	8	7	6	2	7.6	100
PLL 04-M3C	4	M3	8	23	15.6	11.5	3	8	10	8	1.2	7.4	100
PLL 04-M5C	4	M5	8	25.5	15.6	11.5	3.5	8	10	8	2	7.9	100
PLL 04-M6C	4	M6	8	26	15.6	11.5	4.5	8	10	8	2.4	8.3	100
PLL 04-01C	4	R1/8	8	28.1	15.6	11.5	8	10	10	8	2.8	13.2	100
PLL 06-M5C	6	M5	10.5	25.5	16.9	12.5	3.5	8	12	10	2	8.5	100
PLL 06-M6C	6	M6	10.5	26	16.9	12.5	4.5	8	12	10	2.4	8.9	100
PLL 06-01C	6	R1/8	10.5	29.4	16.9	12.5	8	10	12	10	3	13.7	100

PW-C
Reducer Y



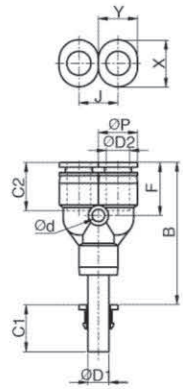
MODEL [ØD-T] Tube (Metric) - Thread (R)

MODEL	ØD1	ØD2	ØP1	ØP2	Ød	F	J	C1	C2	B	X1	Y1	X2	Y2	Orifice (Ømm)	W.G(g)	Qty/Inbox
PW 04-03C	4	3	8	8	3.2	13.4	8	11.5	9.5	30	10	8	7	6	2.5	3.6	100
PW 06-04C	6	4	10.5	8	3.2	13.6	10.5	12.5	11.5	31.5	12	10	10	8	3	4.1	100

Compact One - Touch Fittings

Compact One - Touch Fittings

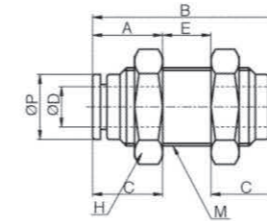
PWJ-C
Plug-In Reducer Y



MODEL [ØD-T] Tube (Metric) - Thread (R)

MODEL	ØD1	ØD2	ØP	C1	C2	Ød	F	J	B	X	Y	Orifice (Ømm)	W.G(g)	Qty/Inbox
PWJ 04-03C	4	3	8	11.5	9.5	3.2	13.4	8	33	7	6	2	3.7	100
PWJ 06-04C	6	4	10.5	12.5	11.5	3.2	13.6	10.5	38.5	10	8	3	4.2	100

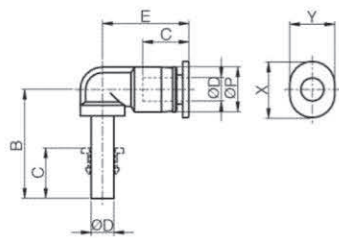
PMM-C
Bulkhead Union



MODEL [ØD-T] Tube (Metric) - Thread (R)

MODEL	ØD	M	ØP	A	E	B	H	C	Orifice (Ømm)	W.G(g)	Qty/Inbox
PMM 03C	3	M8 × 0.75P	6	7	7.5	20	10	9.5	2	5.2	100
PMM 04C	4	M10 × 1.0P	8	9	7.5	24	12	11.5	3	8.6	100
PMM 06C	6	M12 × 1.0P	10.5	10.5	6	25.9	14	12.5	4	13.4	100

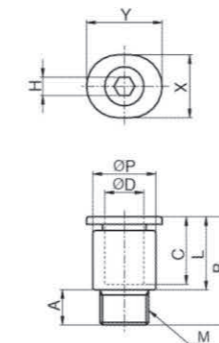
PLJ-C
Plug-In Elbow



MODEL [ØD-T] Tube (Metric) - Thread (R)

MODEL	ØD	ØP	C	B	E	X	Y	Orifice (Ømm)	W.G(g)	Qty/Inbox
PLJ 03C	3	6	9.5	21.6	11.2	7	6	1.5	1.2	100
PLJ 04C	4	8	11.5	27.6	15.6	10	8	2	2	100
PLJ 06C	6	10.5	12.5	29.6	16.9	12	10	2.4	2.6	100

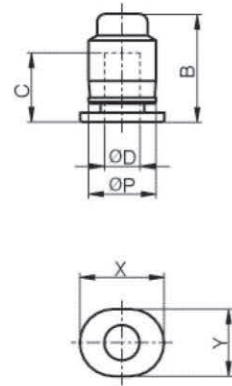
PCC-C
Round Male Straight



MODEL [ØD-T] Tube (Metric) - Thread (R)

MODEL	ØD	M	L	C	A	B	H	ØP	X	Y	Orifice (Ømm)	W.G(g)	Qty/Inbox
PCC 03-M6C	3	M6 × 0.75	11.1	9.5	3.5	14.6	2	8	7	6	2.5	2.9	100
PCC 04-M6C	4	M6 × 0.75	11	11.5	3.5	14.5	2.5	8	10	8	2.6	2.3	100
PCC 04-M8C	4	M8 × 0.75	10.5	11.5	4	14.5	3	10	10	8	3	4.6	100
PCC 06-M8C	6	M8 × 0.75	11.5	12.5	4	14.5	4	10	12	10	4	3.5	100

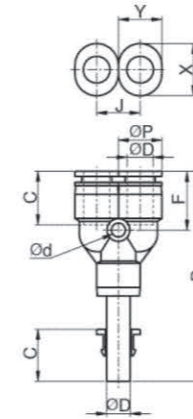
PPF-C
Cap



MODEL [ØD-T] Tube (Metric) - Thread (R)

MODEL	ØD	ØP	B	C	X	Y	W.G(g)	Qty/Inbox
PPF 03C	3	6	10.7	9.5	7	6	0.5	100
PPF 04C	4	8	12	11.5	10	8	1	100
PPF 06C	6	10.5	12.5	12.5	12	10	1.5	100

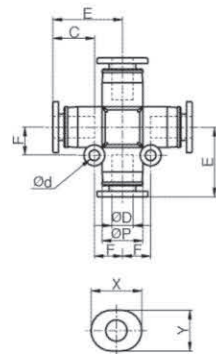
PYJ-C
Plug-In Y



MODEL [ØD-T] Tube (Metric) - Thread (R)

MODEL	ØD	ØP	Ød	F	C	J	B	X	Y	Orifice (Ømm)	W.G(g)	Qty/Inbox
PYJ 03C	3	8	3.2	13.2	9.5	8	43.5	7	6	1.5	3	100
PYJ 04C	4	8	3.2	13.3	11.5	8	45	10	8	2	3.5	100
PYJ 06C	6	10.5	3.2	13.6	12.5	10.4	50.5	12	10	2.4	5.5	100

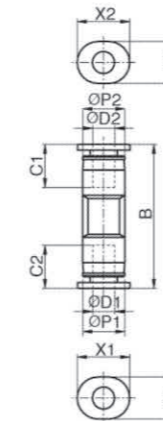
PZA-C
Union Cross



MODEL [ØD-T] Tube (Metric) - Thread (R)

MODEL	ØD	ØP	Ød	F	E	C	X	Y	Orifice (Ømm)	W.G(g)	Qty/Inbox
PZA 03C	3	6	3.2	4.5	11.5	9.5	7	6	2.5	2.2	100
PZA 04C	4	8	3.2	5.5	13.6	11.5	10	8	3	4.1	100
PZA 06C	6	10.4	3.2	6.5	15.9	12.5	12	10	4	6.6	100

PG-C
Reducer



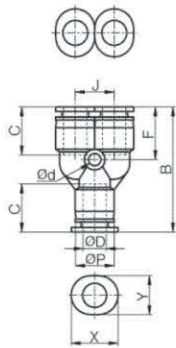
MODEL [ØD-T] Tube (Metric) - Thread (R)

MODEL	ØD1	ØD2	ØP1	ØP2	C1	C2	B	X1	Y1	X2	Y2	Orifice (Ømm)	W.G(g)	Qty/Inbox
PG 0403C	3	4	6	8	9.5	11.5	22.5	7	6	10	8	2.5	1.5	100
PG 0604C	4	6	8	10.5	11.5	12.5	24	10	8	12	10	3	2.5	100

PY-C
Union Y

MODEL[ØD-T] Tube(Metric)–Thread(R)

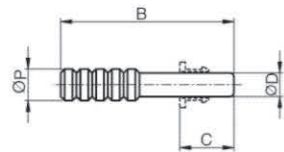
MODEL	ØD	ØP	Ød	F	C	J	B	X	Y	Orifice (Ømm)	W.G(g)	Qty/Inbox
PY 03C	3	8	3.2	13.2	9.5	8	29.9	7	6	2.5	3.6	100
PY 04C	4	8	3.2	13.3	11.5	8	30.1	10	8	3	3.4	100
PY 06C	6	10.5	3.2	13.6	12.5	10.5	32.1	12	10	4	5.3	100



PP-C
Plug

MODEL[ØD-T] Tube(Metric)–Thread(R)

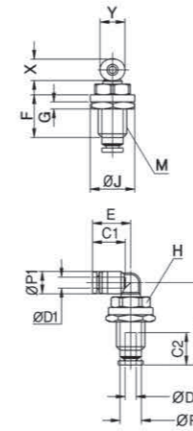
MODEL	ØD	B	C	ØP	W.G(g)	Qty/Inbox
PP 03C	3	22	9.5	4	0.3	100



PLM-C
Bulkhead Union P

MODEL[ØD-T] Tube(Metric)–Thread(R)

MODEL	ØP1	ØD1	ØP2	ØD2	E	C1	C2	B	F	G	H	ØJ	M	X	Y	Orifice (Ømm)	W.G(g)	Qty/Inbox
PLM 03C	6.3	3	6	3	10.6	9.5	9.5	22.4	11	2	10	12.5	M8×0.75P	9	7	2.5	5.2	100
PLM 04C	8	4	8	4	15.3	11.5	11.5	24.4	13	3	12	14	M8×0.76P	10	8	3	8.6	100
PLM 06C	10.4	6	10	6	16.3	12.5	12.5	31.5	16.6	4	14	17	M8×0.77P	12	10	4	13.4	100



Metric Size R(PT) Thread Type

- One -Touch Fittings
- Compact One -Touch Fittings
- **Speed Controllers**
- Metal Body Speed Controllers
- Rotary Joints
- Stop Fittings
- Check Valves
- Ball Valves
- Main Blocks
- Hand Valves
- Hand Slide Valves
- Two-Touch Fittings

SPEED CONTROLLERS

Application

- Valve used for controlling the operation speed of a driving device.
- Used for movement of machines such as cylinder, pneumatic finger, etc.

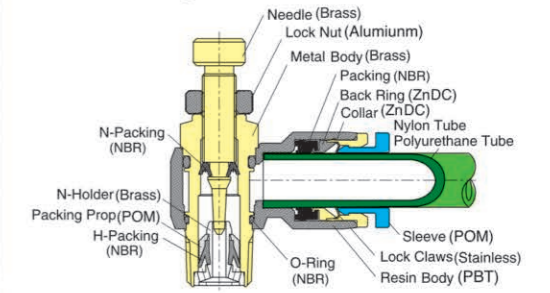
Feature

- Precisely permit the optimal rate of airflow for the smooth cylinder movement of driving devices.
- The Compact and light body permits use in confined space.
- Uni-directional airflow is available for either exhaust or inlet flow control methods.
- The compact design provides a comparable range of speed as the conventional speed controllers do.

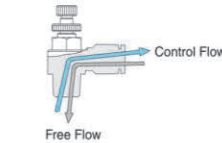
Specification

Fluid	Air(No other gases or liquids)	
Working Pressure Range	0~150PSI	0~9Kgf/cm ² (0~900kPa)
Negative Pressure	7.5PSI	0.5Kgf/cm ² (50kPa)
Temperature Range	32~140° F	0~60° C
Applicable Tube Material	Polyurethane and Nylon	

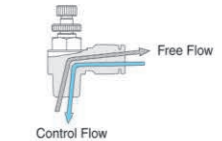
Structural Diagram



Case In Use



- **Out-Type**
- The way to control of airflow from the thread to the sleeve.
 - Air passes freely from the sleeve to the thread.



- **In-Type**
- The way to control of airflow from the sleeve to the thread.
 - Air passes freely from the thread to the sleeve.



- **Flat-Type**
- The way to control of Free Flow or Control Flow upon piping in accordance with the signal on the body.
 - Air flows from each side of sleeve.

Product Code System

NSE O8-O2 O

① ② ③ ④

① Type

② Tube Dia(∅D)

Code	03	04	06	10	12	16
Dia	∅3	∅4	∅6	∅10	∅12	∅16

③ Thread Size(T)

	Metric Size			Taper Pipe Thread		
Code	M3	M5	01	02	03	04
Size	M3×0.5	M5×0.8	R1/8	R1/4	R3/8	R1/2

④ Control Method

Type	Meter out		Meter in	
	Standard	Compact	Standard	Compact
Sleeve	Blue	Black	Red	Red
Symbol				

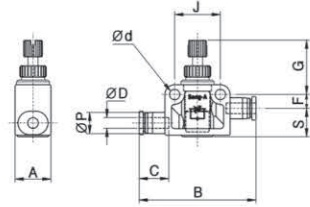
CAUTION

- Be sure to read "Common Precautions" and "Using Precautions of Fitting Series"(P12) before using.
- Never remove the needle by force. It causes separation of the needle from the body.
- There can be a slight leakage, therefore do not use in applications requiring zero air flow rate.

WARNING

- Be sure to use after confirming structural diagram and control direction of each controller, otherwise fittings may result in damage.
- Never roll or turn the body by force.
- When controlling the objective machine's speed, slowly open the needle of speed controller from the closed position.

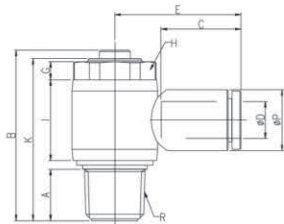
NSF-C
Mini Union Straight



MODEL[\varnothing D-T] Tube(Inch) – Thread(R)

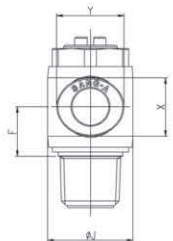
MODEL	\varnothing D	A	B	\varnothing d	C	F	G	J	\varnothing P	S	W.G(g)	Qty/Inbox
NSF 03C	3	11	33	3.2	9.5	4.25	13.5	14	6.3	8.75	8.75	50

GNSH
Straight



MODEL[\varnothing D-T] Tube(Metric) – Thread(R)

MODEL	\varnothing D	R	\varnothing P	A	B	C	E	F	G	H	I	\varnothing J	K	X	Y	W.G(g)	Qty/Inbox
GNSH 03M5	3	M5	9	3.5	22.5	14.5	19.5	6.6	3.5	8	11.8	10	21	8.6	10.8	6.6	100
GNSH 04M5	4	M5	9	3.5	22.5	14.5	19.5	6.6	3.5	8	11.8	10	21	8.6	10.8	7	100
GNSH 0401	4	R1/8	9	8	30	14.5	21.5	8.8	4	13	14.5	14	28.5	8.6	10.8	19.5	50
GNSH 0402	4	R1/4	9	11	38	14.5	24	11	4	17	18	19	36.1	8.6	10.8	37.4	50
GNSH 0403	4	R3/8	9	12	45.2	14.5	25.7	13.3	5.5	21	21	22.4	42.5	8.6	10.8	70.6	25
GNSH 06M5	6	M5	11.2	3.5	22.5	15.5	20.5	7.1	3.5	8	11.8	10	21	8.6	10.8	7.8	100
GNSH 0601	6	R1/8	11.2	8	30	15.5	22.5	8.8	4	13	14.5	14	28.5	11	13	20.2	50
GNSH 0602	6	R1/4	11.2	11	38	15.5	25	11	4	17	18	19	36.1	11	13	38.2	50
GNSH 0603	6	R3/8	11.2	12	45.2	15.5	26.7	13.3	5.5	21	21	22.4	42.5	11	13	71.4	25
GNSH 0801	8	R1/8	13.6	8	30	17.8	25.6	9.5	4	13	14.5	14	28.5	13	15	21.5	50
GNSH 0802	8	R1/4	13.6	11	38	17.8	28.1	11	4	17	18	19	36.1	13	15	39.5	50
GNSH 0803	8	R3/8	13.6	12	45.2	17.8	29.8	13.3	5.5	21	21	22.4	42.5	13	15	71.8	25
GNSH 0804	8	R1/2	13.6	15	51.4	17.8	32.1	13.8	7	24	22	27	48.7	13	15	111.7	20
GNSH 1002	10	R1/4	16.3	11	38	19.4	28.9	11.7	4	17	18	19	36.1	16	18.5	42.4	25
GNSH 1003	10	R3/8	16.3	12	45.2	19.4	30.6	13.3	5.5	21	21	22.4	42.5	16	18.5	73.8	25
GNSH 1004	10	R1/2	16.3	15	51.4	19.4	32.9	13.8	7	24	22	27	48.7	16	18.5	112.8	20
GNSH 1203	12	R3/8	19.7	12	45.2	22.4	35.9	13.3	5.5	21	21	22.4	42.5	19.5	22.5	78.2	25
GNSH 1204	12	R1/2	19.7	15	51.4	22.4	38.2	13.8	7	24	22	27	48.7	19.5	22.5	117.2	20



METAL BODY SPEED CONTROLLERS

Application

- Valve used for controlling the operation speed of a driving device.
- Using the pipe which connected to actuator

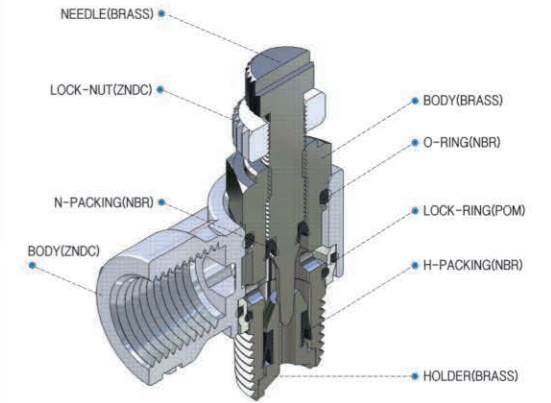
Feature

- Reduce the number and cost of the plumber
- Piping can be set freely
- Easy speed control, permit constant speed in low flow area.
- Needle valve leak prevention appliance

Specification

Fluid	Air(No other gases or liquids)
Working Pressure Range	9kgf/cm ² (0.9Mpa)
Negative Pressure	1kgf/cm ² (0.1Mpa)
Temperature Range	-750mmHg(10Torr)
Applicable Tube Material	0~60 °C

Structural Diagram



Metric Size R(PT) Thread Type

One -Touch Fittings

Compact One -Touch Fittings

Speed Controllers

— Metal Body Speed Controllers

Rotary Joints

Stop Fittings

Check Valves

Ball Valves

Main Blocks

Hand Valves

Hand Slide Valves

Two-Touch Fittings



Product Code System

NSL O2 - O

① Type

② Tube Dia(ØD)

③ Metric Size & Taper Pipe Thread

Section	Metric Size	Taper Pipe Thread			
		01	02	03	04
Diameter	M5				
Cylinder direct	M5 X 0.8	R(PT)1/8	R(PT)1/4	R(PT)3/8	R(PT)1/2
Tube direct		Rc(PT)1/8	Rc(PT)1/4	Rc(PT)3/8	Rc(PT)1/2

• Parallel Pipe Thread

Section	Parallel Pipe Thread	Taper Pipe Thread			
		G01	G02	G03	G04
Diameter					
Cylinder direct	PF 1/8	PF 1/4	PF 3/8	PF 1/2	
Tube direct	PF 1/8	PF 1/4	PF 3/8	PF 1/2	

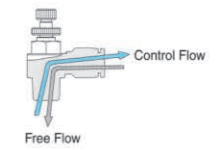
• Unified Fine Thread & American Standard Taper Pipe Thread

Section	Unified Fine Thread	American Standard Taper Pipe Thread(Inch)			
		U10	N01	N02	N03
Diameter					
Cylinder direct	10-32UNF	NPT 1/8	NPT 1/4	NPT 3/8	NPT 1/2
Tube direct	10-32UNF	NPT 1/8	NPT 1/4	NPT 3/8	NPT 1/2

③ Control Method

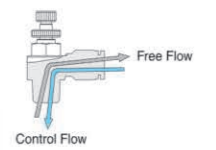
Type	Meter out	Meter in
Symbol		

Case In Use



► Out-Type

- The way to control of airflow from the thread to the sleeve.
- Air passes freely from the sleeve to the thread.



► In-Type

- The way to control of airflow from the sleeve to the thread.
- Air passes freely from the thread to the sleeve.

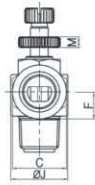
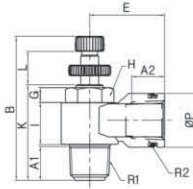
⚠ CAUTION

- Be sure to read "Common Precautions" and "Using Precautions of Fitting Series"(P12) before using.
- Never remove the needle by force. It causes separation of the needle from the body.
- There can be a slight leakage, therefore do not use in applications requiring zero air flow rate.

⚠ WARNING

- Be sure to use after confirming structural diagram and control direction of each controller, otherwise fittings may result in damage.
- Never roll or turn the body by force.
- When controlling the objective machine's speed, slowly open the needle of speed controller from the closed position.

NSL
Straight



MODEL [ØD-T] Tube (Metric) – Thread (R)

MODEL	R1	R2	ØP	A1	A2	B	C	E	F	G	H	I	ØJ	K	L	M	W.G(g)	Qty/ Inbox
NSL M5	M5	M5	8	3.5	4.5	29.5	8	10.5	6.0	4	8	9.1	10	19.5	5	2.5	8.7	100
NSL 01	R1/8	R1/8	14	7.7	8.5	40.1	14	18	7.8	4	10	12.2	14.6	25.6	10.5	3.5	23.5	50
NSL 02	R1/4	R1/4	18	11.2	11	48	18	25	9	5	14	14	19	31.9	11.1	3.5	51	50
NSL 03	R3/8	R3/8	22	13.3	12	54.2	22	30	11	5	19	15.7	24	37.2	12	3.5	109.4	25
NSL 04	R1/2	R1/2	27	16.5	15	61.8	27	35.5	13.5	5.5	24	20	29	44.8	12	3.5	167	20

Metric Size R(PT) Thread Type

- One -Touch Fittings
- Compact One -Touch Fittings
- Speed Controllers
- Metal Body Speed Controllers
- **Rotary Joints**
- Stop Fittings
- Check Valves
- Ball Valves
- Main Blocks
- Hand Valves
- Hand Slide Valves
- Two-Touch Fittings

ROTARY JOINTS

Application

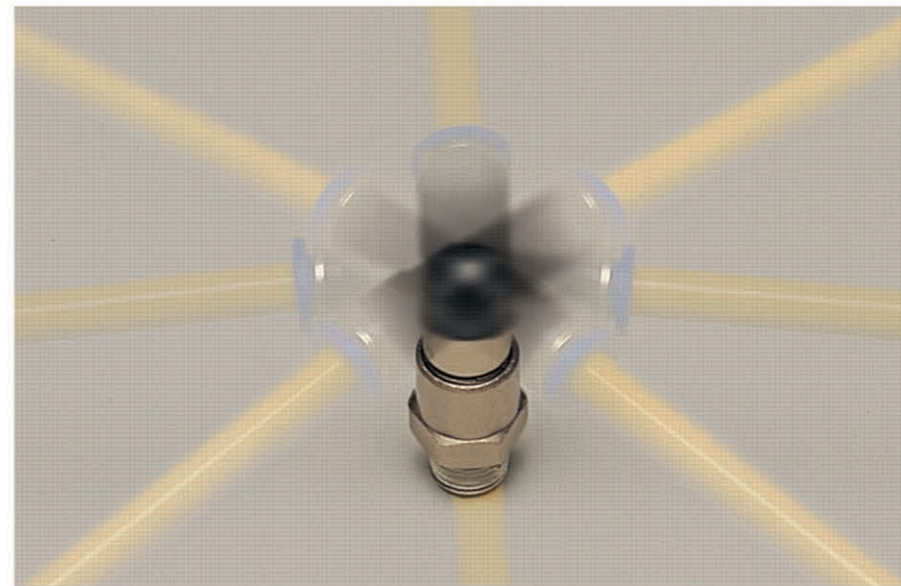
- Used for supplying compressed air at swiveling or swinging connections.
- Used for index tables and industrial robots.

Feature

- Built in bearings, suitable for high-speed swiveling pneumatic connections..

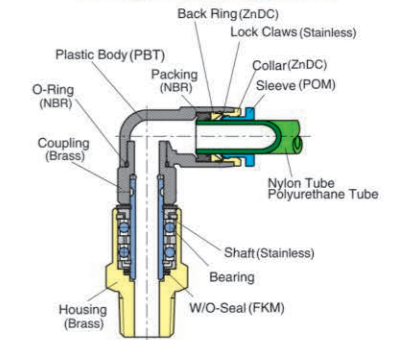
Specification

Fluid	Air(No other gases or liquids)	
Working Pressure Range	0~150PSI	0~9Kgf/cm ² (0~900kPa)
Negative Pressure	-29.50 in Hg	-750mmHg(10Torr)
Temperature Range	32~140° F	0~60° C
Applicable Tube Material	Polyurethane and Nylon	

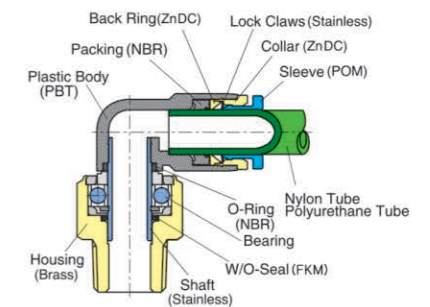


Structural Diagram

▼High Rotary Joint



▼Rotary Joint



Product Code System

NHRC 06-01

① ② ③

① Type

② Tube Dia(∅D)

Code	04	06	08	10	12
Dia	∅4	∅6	∅8	∅10	∅12

③ Thread Size(T)

	Metric Size		Taper Pipe Thread			
Code	M5	M6	01	02	03	04
Size	M5×0.8	M6×1.0	R1/8	R1/4	R3/8	R1/2

Number of Rotations

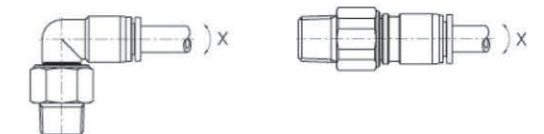
	Tube Dia	∅4	∅6	∅8	∅10	∅12	
r.p.m	Low	NRC, NRL	500	500	400	300	250
	High	NHRC, NHRL, NHRS, NHRF	1,500	1,200	1,200	1,000	1,000

⚠ CAUTION

-Be sure to read "Common Precautions" and "Using Precautions of Fitting Series" (P12) before using.

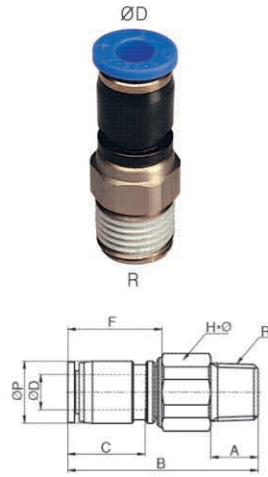
⚠ WARNING

- When using at high speed, use PU tube.
- Nylon or other hard tube can cause overload of the rotation.



NRC

Straight

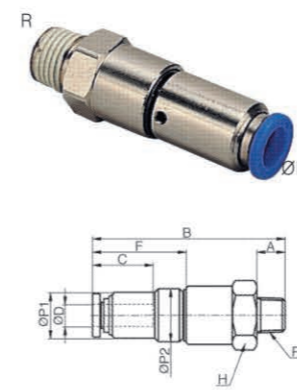


MODEL[ØD-T] Tube(Metric)-Thread(R)

MODEL	ØD	R	F	ØP	C	A	B	H×Ø	RPM	Orifice (mm)	W.G(g)	Qty/Inbox
NRC 04-M5	4	M5	17.7	10.4	16	3.5	33.4	12×13	500	2	12.2	100
NRC 04-M6	4	M6	17.7	10.4	16	4.5	33.9	12×13	500	3	12.6	100
NRC 04-01	4	R1/8	17.7	10.4	16	8	34.7	12×13	500	3	14.2	100
NRC 06-M5	6	M5	18.5	12.4	17	3.5	36.5	14×15	500	2	17.1	100
NRC 06-M6	6	M6	18.5	12.4	17	4.5	36.5	14×15	500	3	19.1	100
NRC 06-01	6	R1/8	18.5	12.4	17	8	36.5	14×15	500	4	16.9	50
NRC 06-02	6	R1/4	20.2	12.4	17	11	36.5	14×15	500	4	21.9	50
NRC 08-01	8	R1/8	20.2	14.4	18.5	8	43.6	17×18	400	6	30.2	50
NRC 08-02	8	R1/4	20.2	14.4	18.5	11	43.6	17×18	400	6	30.6	50
NRC 08-03	8	R3/8	22.8	14.4	18.5	12	43.6	17×18	400	6	39.8	50
NRC 10-03	10	R3/8	29.6	18	21	12	56.1	22×24	300	7.5	66.7	25
NRC 10-04	10	R1/2	29.6	18	21	15	57.1	22×24	300	7.5	77.7	25
NRC 12-03	12	R3/8	31.5	21.8	22.5	12	61.5	24×26	250	9	95.6	25
NRC 12-04	12	R1/2	31.5	21.8	22.5	15	61.5	24×26	250	9	101.1	25

NHRC

Straight

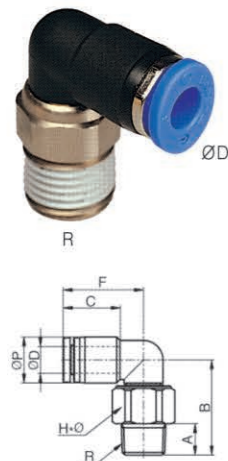


MODEL[ØD-T] Tube(Metric)-Thread(R)

MODEL	ØD	R	F	C	B	ØP1	ØP2	A	H	RPM	Orifice (mm)	W.G(g)	Qty/Inbox
NHRC 04-M5	4	M5	21.7	16	42.4	10.4	11	3.5	12	1500	2	23.7	100
NHRC 04-M6	4	M6	21.7	16	43.2	10.4	11	4.5	12	1500	3	23.8	100
NHRC 04-01	4	R1/8	21.7	16	46.7	10.4	11	8	12	1500	3	28.2	50
NHRC 06-01	6	R1/8	24	17	52	13	15	8	17	1200	4	27	50
NHRC 06-02	6	R1/4	24	17	52	13	15	11	17	1200	4	55.4	50
NHRC 08-01	8	R1/8	24.3	18.5	52.3	14.4	15	8	17	1200	6	51.5	50
NHRC 08-02	8	R1/4	24.3	18.5	55.3	14.4	15	11	17	1200	6	57.4	50
NHRC 10-03	10	R3/8	29.3	21	64.8	18	20	12	24	1000	7.5	114.1	25
NHRC 10-04	10	R1/2	29.3	21	67.8	18	20	15	24	1000	7.5	130.1	25
NHRC 12-03	12	R3/8	32	22.5	67.5	21.8	20	12	24	1000	9	119.1	25
NHRC 12-04	12	R1/2	32	22.5	70.5	21.8	20	15	24	1000	9	135.2	25

NRL

Elbow

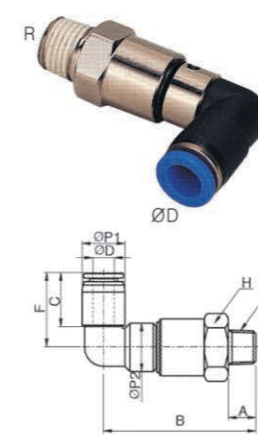


MODEL[ØD-T] Tube(Metric)-Thread(R)

MODEL	ØD	R	F	ØP	C	A	B	H×Ø	RPM	Orifice (mm)	W.G(g)	Qty/Inbox
NRL 04-M5	4	M5	20.2	10.4	16	3.5	20.7	12×13	500	2	12.3	100
NRL 04-M6	4	M6	20.2	10.4	16	4.5	21.2	12×13	500	3	13	100
NRL 04-01	4	R1/8	20.2	10.4	16	8	22	12×13	500	4	13.7	100
NRL 06-M5	6	M5	22.9	12.4	17	3.5	24.2	14×15	500	2	17.9	50
NRL 06-M6	6	M6	22.9	12.4	17	4.5	24.2	14×15	500	3	19.8	50
NRL 06-01	6	R1/8	22.9	12.4	17	8	24.2	14×15	500	4	17.6	50
NRL 06-02	6	R1/4	22.9	12.4	17	11	26.2	14×15	500	4	22.2	50
NRL 08-01	8	R1/8	25.9	14.4	18.5	8	30.6	17×18	400	6	29	50
NRL 08-02	8	R1/4	25.9	14.4	18.5	11	30.6	17×18	400	6	31.7	50
NRL 08-03	8	R3/8	25.9	14.4	18.5	12	30.6	17×18	400	6	40.8	50
NRL 10-03	10	R3/8	29.8	17.6	21	12	35.3	22×24	300	7.5	62.9	25
NRL 10-04	10	R1/2	29.8	17.6	21	15	36.3	22×24	300	7.5	73.1	25
NRL 12-03	12	R3/8	32.7	21	22.5	12	40.5	24×26	250	9	81	25
NRL 12-04	12	R1/2	32.7	21	22.5	15	40.5	24×26	250	9	87.6	25

NHRL

Elbow

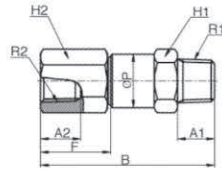


MODEL[ØD-T] Tube(Metric)-Thread(R)

MODEL	ØD	R	F	C	B	ØP1	ØP2	A	H	RPM	Orifice (mm)	W.G(g)	Qty/Inbox
NHRL 04-M5	4	M5	20.2	16	33	10	11	3.5	12	1500	2	20.1	100
NHRL 04-M6	4	M6	20	16	34	10	11	4.5	12	1500	3	20.6	100
NHRL 04-01	4	R1/8	20.2	16	37.5	10	11	8	12	1500	6	25	50
NHRL 06-01	6	R1/8	22.9	17	43.2	12.4	14	8	17	1200	6	44.4	50
NHRL 06-02	6	R1/4	22.9	17	46.2	12.4	14	11	17	1200	6	50.2	50
NHRL 08-01	8	R1/8	25.9	18.5	44.2	14.4	14	8	17	1200	6	47.3	50
NHRL 08-02	8	R1/4	25.9	18.5	47.2	14.4	14	11	17	1200	6	53	50
NHRL 10-03	10	R3/8	29.8	21	55.3	17.6	20	12	24	1000	9	107.9	20
NHRL 10-04	10	R1/2	29.8	21	58.3	17.6	20	15	24	1000	9	124.6	20
NHRL 12-03	12	R3/8	33.7	22.5	57	21	20	12	24	1000	9	113.2	20
NHRL 12-04	12	R1/2	33.7	22.5	60	21	20	15	24	1000	9	128.9	20

NHRF

Bush

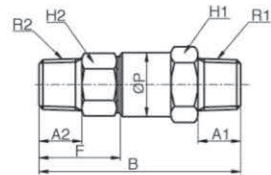


MODEL[ØD-T] Tube(Metric)–Thread(R)

MODEL	R1	R2	F	B	ØP	A1	A2	H1	H2	RPM	Orifice (mm)	W.G(g)	Qty/Inbox
NHRF 01-01	R1/8	Rc1/8	21	49	16.5	8	9	17	14	1200	6	48.2	50
NHRF 01-02	R1/8	Rc1/4	24	52	16.5	8	12	17	17	1200	6	50	50
NHRF 02-01	R1/4	Rc1/8	21	52	16.5	11	9	17	14	1200	6	60.5	50
NHRF 02-02	R1/4	Rc1/4	24	55	16.5	11	12	17	17	1200	6	63.6	50
NHRF 03-03	R3/8	Rc3/8	28	63.5	23.5	12	13	24	22	1000	9	126.8	25
NHRF 03-04	R3/8	Rc1/2	31	66.5	23.5	12	16	24	24	1000	9	131	25
NHRF 04-03	R1/2R	Rc3/8	28	66.5	23.5	15	13	24	22	1000	9	145	25
NHRF 04-04	1/2	Rc1/2	31	69.5	23.5	15	16	24	24	1000	9	150.3	25

NHRS

Nipple



MODEL[ØD-T] Tube(Metric)–Thread(R)

MODEL	R1	R2	F	B	ØP	A1	A2	H1	H2	RPM	Orifice (mm)	W.G(g)	Qty/Inbox
NHRS 01-01	R1/8	R1/8	21	49	16.5	8	8	17	14	1200	6	43.7	50
NHRS 01-02	R1/8	R1/4	24	52	16.5	8	11	17	14	1200	6	52	50
NHRS 02-01	R1/4	R1/8	21	52	16.5	11	8	17	14	1200	6	52	50
NHRS 02-02	R1/4	R1/4	24	55	16.5	11	11	17	14	1200	6	55.3	50
NHRS 03-03	R3/8	R3/8	28	63.5	23.5	12	12	24	22	1000	9	120.2	25
NHRS 03-04	R3/8	R1/2	31	66.5	23.5	12	15	24	22	1000	9	135	25
NHRS 04-03	R1/2R	R3/8R	28	66.5	23.5	15	12	24	22	1000	9	135	25
NHRS 04-04	1/2	1/2	31	69.5	23.5	15	15	24	22	1000	9	150	25

Metric Size R(PT) Thread Type

- One -Touch Fittings
- Compact One -Touch Fittings
- Speed Controllers
- Metal Body Speed Controllers
- Rotary Joints
- **Stop Fittings**
- Check Valves
- Ball Valves
- Main Blocks
- Hand Valves
- Hand Slide Valves
- Two-Touch Fittings

STOP FITTINGS

Application

- Installed where the pneumatic connections are changed frequently.
- Used at laboratory or for instructing pneumatic connections.

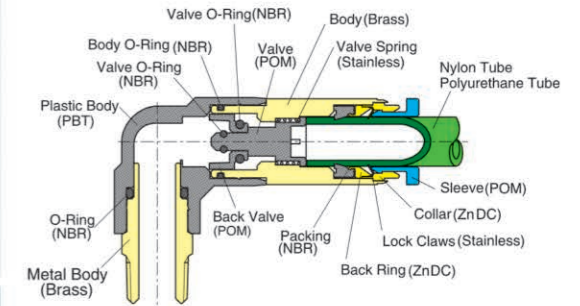
Feature

- Upon disconnecting the tube, the airflow will stop.

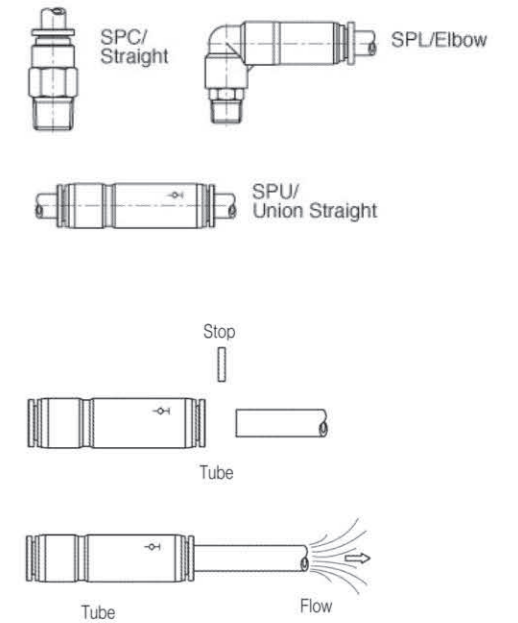
Specification

Fluid	Air(No other gases or liquids)	
Working Pressure Range	0~150PSI	0~9Kgf/cm ² (0~900kPa)
Negative Pressure	-29.50 in Hg	-750mmHg(10Torr)
Temperature Range	32~140° F	0~60° C
Applicable Tube Material	Polyurethane and Nylon	

Structural Diagram



Control Method



Product Code System

SPC O6-O1

	①	②	③			
① Type						
② Tube Dia(∅D)	Code	04	06	08	10	12
	Dia	∅4	∅6	∅8	∅10	∅12
③ Thread Size(T)		Metric Size		Taper Pipe Thread		
	Code	M5	M6	01	02	03
	Size	M5 × 0.8	M6 × 1.0	R1/8	R1/4	R3/8
						R1/2

CAUTION

- Be sure to read the "Common Precautions" and "Using Precautions of Fitting Series"(P12) before using.
- Be sure to confirm the direction of the stop instrument.

WARNING

- Be careful of spring-up of the tube in case of disconnection when the pressure is on in the stop fitting.



MODEL[ØD-T] Tube(Metric)–Thread(R)

MODEL	ØD	R	H	C	ØP	B	A	W.G(g)	Qty/Inbox
SPC 04-01	4	R1/8	10	16	10	25.5	8	10.5	100
SPC 06-01	6	R1/8	12	17	12	27.8	8	12.7	100
SPC 06-02	6	R1/4	14	17	13	27.8	11	21.3	50
SPC 08-01	8	R1/8	14	18.5	14	31.8	8	24	50
SPC 08-02	8	R1/4	14	18.5	14	31.8	11	20.4	50
SPC 08-03	8	R3/8	17	18.5	17	31.8	12	38.7	50
SPC 10-02	10	R1/4	17	21	17	36.1	11	29.4	50
SPC 10-03	10	R3/8	17	21	17	36.1	12	34.3	50
SPC 10-04	10	R1/2	21	21	18	36.1	15	61	50
SPC 12-03	12	R3/8	21	22	20.2	44.2	12	58.8	25
SPC 12-04	12	R1/2	21	22	20.2	44.2	15	66.9	25

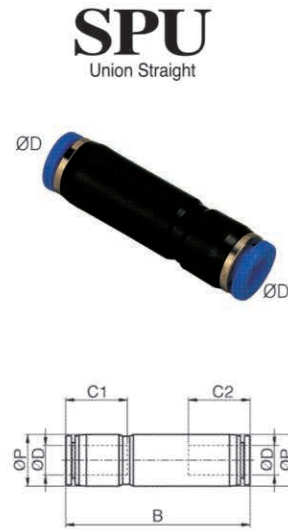


MODEL[ØD-T] Tube(Metric)–Thread(R)

MODEL	ØD1	ØD2	ØP	C1	C2	F	B	L	ØN	X	Y	W.G(g)	Qty/Inbox
SPUM 04	4	4	10.4	16	16	9.4	37.4	43.2	17	10	12	7.4	50
SPUM 06	6	6	12.4	17	17	9.9	41.5	47.7	20.5	12	14	9.9	50
SPUM 08	8	8	14.4	18.5	18.5	10.6	47.2	53.4	23	14	16	15.9	50
SPUM 10	10	10	17.6	21	21	11.3	52.9	59.9	29	17	19	27.7	50
SPUM 12	12	12	21.2	22	22	10.5	63.3	70.9	32	21	23	35.5	25

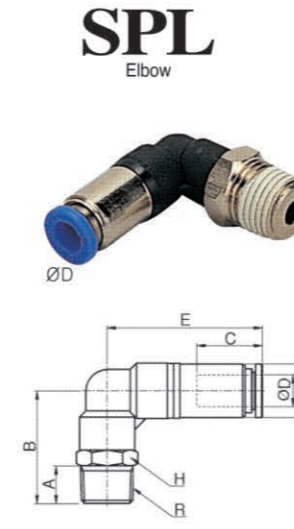
Stop Fittings

Stop Fittings



MODEL[ØD-T] Tube(Metric)–Thread(R)

MODEL	ØD	C1	C2	ØP	B	W.G(g)	Qty/Inbox
SPU 04	4	16	16	10	42.9	6.6	50
SPU 06	6	17	17	12.4	46.9	8.2	50
SPU 08	8	18.5	18.5	14.4	52.6	12.7	50
SPU 10	10	21	21	17.6	59.2	22.9	50
SPU 12	12	22	22	21.2	71.8	36.8	25



MODEL[ØD-T] Tube(Metric)–Thread(R)

MODEL	ØD	R	C	E	ØP	B	H	A	W.G(g)	Qty/Inbox
SPL 04-M5	4	M5	16	30.7	10	22.1	10	5.5	15.9	100
SPL 04-M6	4	M6	16	30.7	10	22.1	10	5.5	15.9	100
SPL 04-01	4	R1/8	16	30.7	10	24.6	10	8	19.7	50
SPL 06-M5	6	M5	17	31.9	12.8	22.6	12	8.5	20.1	100
SPL 06-01	6	R1/8	17	31.9	12.8	24	12	8	20.5	50
SPL 06-02	6	R1/4	17	31.9	12.8	28	14	11	30.6	50
SPL 08-01	8	R1/8	18.5	40.8	14.4	27	14	8	32	50
SPL 08-02	8	R1/4	18.5	40.8	14.4	31	14	11	39.2	50
SPL 08-03	8	R3/8	18.5	40.8	14.4	32	17	12	48.8	50
SPL 10-02	10	R1/4	21	47.6	17.6	35	17	11	56.2	25
SPL 10-03	10	R3/8	21	47.6	17.6	36	17	12	65.9	25
SPL 10-04	10	R1/2	21	47.6	17.6	39	21	15	89.5	25
SPL 12-03	12	R3/8	22	55.5	21	38	21	12	83.7	25
SPL 12-04	12	R1/2	22	55.5	21	41	21	15	106.6	25

Metric Size R(PT) Thread Type

- One -Touch Fittings
- Compact One -Touch Fittings
- Speed Controllers
- Metal Body Speed Controllers
- Rotary Joints
- Stop Fittings
- **Check Valves**
- Ball Valves
- Main Blocks
- Hand Valves
- Hand Slide Valves
- Two-Touch Fittings

CHECK VALVES

Application

- Check Valves permit airflow in one direction.
- Used for maintaining the output pressure at a constant level.

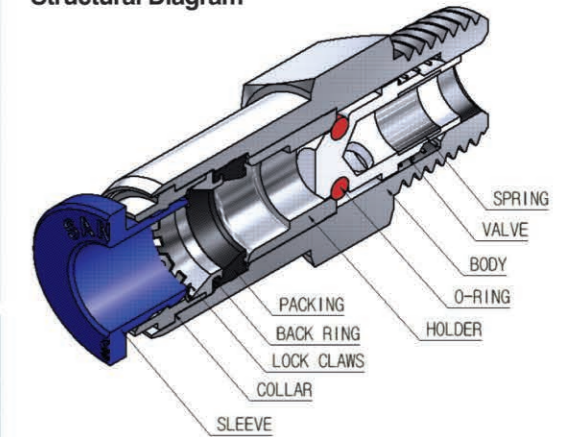
Feature

- The check valves permit the airflow in one direction but stops in the reverse direction.
- The check valve works at the pressure of 0.1kgf/cm², keeps 1.42 PSI in vacuum and connects at a low pressure.

Specification

Fluid	AIR (No other gases or liquids)	
Working Pressure Range	0~284PSI	0 ~ 20Kgf/cm ² (0~1960kPa)
Negative Pressure	-29.50 in Hg	-750mmHg(10Torr)
Temperature Range	32~176° F	0~80° C
Applicable Tube Material	Polyurethane and Nylon	

Structural Diagram



Product Code System

GPCVC 06-01 0

① ② ③ ④

- ① Type
- ② Tube Dia(∅D)

Code	04	06	08	10	12
Dia	∅4	∅6	∅8	∅10	∅12

- ③ Thread Size(T)

Code	Metric Size		Taper Pipe Thread			
	M5	M6	01	02	03	04
Size	M5×0.8	M6×1.0	R1/8	R1/4	R3/8	R1/2

- ④ Control Method

Type	Meter IN Thread to Tube	Meter OUT Tube to Thread
PCVC		
PCVF		
PCVU		In case of PCVU model, you should pipe according to signal of the body.

⚠ CAUTION

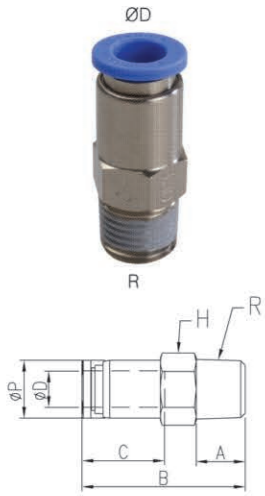
- Be sure to read the "Common Precautions" and "Using Precautions of Fitting Series" (P12) before using.
- Be sure to confirm the direction of the stop instrument. Reverse direction will not allow airflow.

⚠ WARNING

- Be careful of a scald by the heat generation on the body for the high frequency of stop circulation effect.

GPCVC

Straight

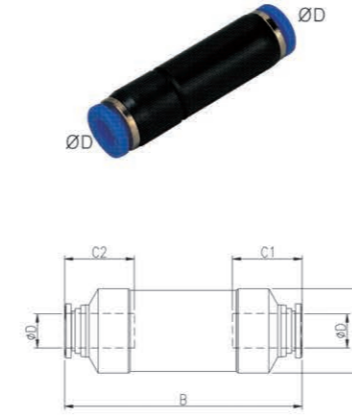


MODEL [ØD-T] Tube (Metric) - Thread (R)

MODEL	ØD	R	H	C	ØP	B	A	W.G(g)	Qty/Inbox
GPCVC 04M5	4	M5	9	16	8.8	31.3	5.4	9.7	100
GPCVC 04M6	4	M6	9	16	8.8	32.3	6.4	10.1	100
GPCVC 0401	4	R1/8	10	16	8.8	25.9	8	10.8	100
GPCVC 0601	6	R1/8	12	17	11	32.25	8	13.6	100
GPCVC 0602	6	R1/4	14	17	11	32.25	11	22	50
GPCVC 0801	8	R1/8	14	18.5	13	32.6	8	18.1	50
GPCVC 0802	8	R1/4	14	18.5	13	36.6	11	21.6	50
GPCVC 1003	10	R3/8	24	21	25	60.7	12	43	20
GPCVC 1004	10	R1/2	27	21	28	66.5	15	54.2	20
GPCVC 1203	12	R3/8	24	22	25	63.5	12	48.1	20
GPCVC 1204	12	R1/2	27	22	28	69.5	15	61.1	20

GPCVU

Union Straight



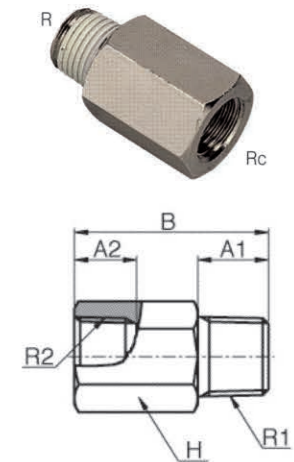
MODEL [ØD-T] Tube (Metric) - Thread (R)

MODEL	ØD	C1	C2	ØP	B	W.G(g)	Qty/Inbox
GPCVU 04	4	16	16	10	40.4	4.9	100
GPCVU 06	6	17	17	11.2	47.7	7.5	50
GPCVU 08	8	18.5	18.5	13.6	50.4	11.7	50
GPCVU 10	10	21	21	25	71.5	56	25
GPCVU 12	12	22	22	25	77	63	25

*Ø10 이상은 알루미늄 재질

PCVVF

Buch



MODEL [ØD-T] Tube (Metric) - Thread (R)

MODEL	R1	R2	H	A1	A2	B	W.G(g)	Qty/Inbox
PCVVF 01-01	R1/8	Rc1/8	14	6	9	22.8	21.2	100
PCVVF 02-02	R1/4	Rc1/4	17	8	11	28.5	37.8	50
PCVVF 03-03	R3/8	Rc3/8	24	10	13	54.3	53	25
PCVVF 04-04	R1/2	Rc1/2	27	12	16	63.1	61.3	25

Metric Size R(PT) Thread Type

- One -Touch Fittings
- Compact One -Touch Fittings
- Speed Controllers
- Metal Body Speed Controllers
- Rotary Joints
- Stop Fittings
- Check Valves
- **Ball Valves**
- Main Blocks
- Hand Valves
- Hand Slide Valves
- Two-Touch Fittings

BALL VALVES

Application

- Used for controlling air supply in the opened and closed positions.

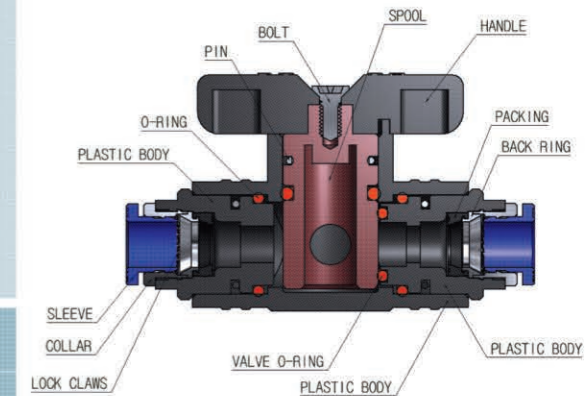
Feature

- Available for water as well as air with PPS resin body.
- The sectional dimension of the compact body optimizes as much flow as the tube capacity in proportion.

Specification

Fluid	Air & Water	
Working Pressure Range	0 ~ 284PSI	
Negative Pressure	-29.5 in Hg	-750mmHg(10Torr)
Temperature Range	32~176° F	0~80° C
Applicable Tube Material	Polyurethane and Nylon	

Structural Diagram



Product Code System

GBC 20 - 08 02

① ② ③ ④

- ① Type
- ② Effective Sectional Area

	Metric Size	
Code	20	60
Size	20mm ²	60mm ²

- ③ Tube Dia(∅D)

Code	06	08	10	12
Dia	∅6	∅8	∅10	∅12

- ④ Thread Size(T)

	Taper Pipe Thread			
Code	01	02	03	04
Size	R1/8	R1/4	R3/8	R1/2

⚠ CAUTION

- Be sure to read the "Common Precautions" and "Using Precautions of Fitting Series"(P12) before using.
- Be sure to turn at a right angle(90°) when operating handle, otherwise it may cause the shortage of fluid.

⚠ WARNING

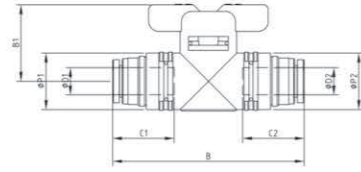
- When using with water, the pressure must not exceed 0~3kgf/cm².
Be sure not to use in a place of vibration, bending, or shocking.
- Be sure to confirm that the Lock Pin is applied correctly. Without the Lock Pin, the body can be disassembled.

GBUC
Union



MODEL [ØD-T] Tube (Metric) – Thread (R)

MODEL	ØD1	ØD2	C1	C2	ØP1	ØP2	B	B1	W.G(g)	Qty/Inbox
GBUC 20-0606	6	6	17	17	17	17	55.3	23	20.3	25
GBUC 20-0808	8	8	18.5	18.5	17	17	57.6	23	21.1	25
GBUC 60-1010	10	10	21	21	24	24	74.4	28	47.5	12
GBUC 60-1212	12	12	22	22	24	24	80.2	28	52.4	12

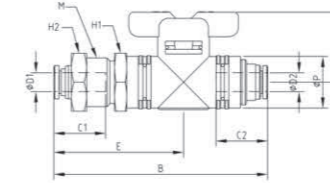


GBM
Bulkhead Union



MODEL [ØD-T] Tube (Metric) – Thread (R)

MODEL	ØD1	ØD2	M	C1	C2	ØP	H1	H2	E	B	B1	W.G(g)	Qty/Inbox
GBM 20-0606	6	6	M16	17	17	17	19	19	42.65	70.3	23	53.1	25
GBM 20-0806	8	6	M16	18.5	17	17	19	19	43.6	71.25	23	50.7	25
GBM 20-0808	8	8	M16	18.5	18.5	17	19	19	43.6	72.4	23	51.2	25
GBM 60-1010	10	10	M22	21	21	24	24	26	54.4	91.6	28	121.8	12
GBM 60-1210	12	10	M22	22	21	24	24	26	55.4	92.6	28	116.7	12
GBM 60-1212	12	12	M22	22	22	24	24	26	55.4	95.5	28	119.2	12

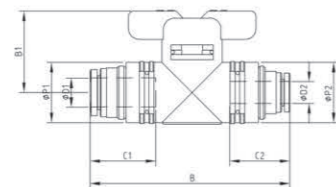


GBUG
Reducing Union



MODEL [ØD-T] Tube (Metric) – Thread (R)

MODEL	ØD1	ØD2	C1	C2	ØP1	ØP2	B	B1	Orifice (mm)	W.G(g)
GBUG 20-0806	8	6	18.5	17	17	17	56.45	23	20.8	25
GBUG 60-1210	12	10	22	21	24	24	77.3	28	50.2	12

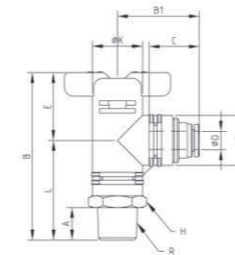


GBL
Elbow



MODEL [ØD-T] Tube (Metric) – Thread (R)

MODEL	ØD	R	C	ØP	E	L	A	ØK	H	B	B1	W.G(g)	Qty/Inbox
GBL 20-06-01	6	R1/8	17	17	23	30.75	8	17	17	53.75	27.7	30.9	25
GBL 20-06-02	6	R1/4	17	17	23	33.75	11	17	17	56.75	27.7	36	25
GBL 20-06-03	6	R3/8	17	17	23	34.75	12	17	17	57.75	27.7	42	25
GBL 20-08-01	8	R1/8	18.5	17	23	30.75	8	17	17	53.75	28.85	31.4	25
GBL 20-08-02	8	R1/4	18.5	17	23	33.75	11	17	17	56.75	28.85	36.3	25
GBL 20-08-03	8	R3/8	18.5	17	23	34.75	12	17	17	57.75	28.85	42.3	25
GBL 60-10-02	10	R1/4	21	24	28	44.1	11	24	24	72.1	38.1	93	12
GBL 60-10-03	10	R3/8	21	24	28	45.1	12	24	24	73.1	38.1	98	12
GBL 60-10-04	10	R1/2	21	24	28	49.1	15	24	24	77.1	38.1	105.7	12
GBL 60-12-02	12	R1/4	22	24	28	44.4	11	24	24	72.1	41	95.4	12
GBL 60-12-03	12	R3/8	22	24	28	45.1	12	24	24	73.1	41	100.4	12
GBL 60-12-04	12	R1/2	22	24	28	49.1	15	24	24	77.1	41	108	12

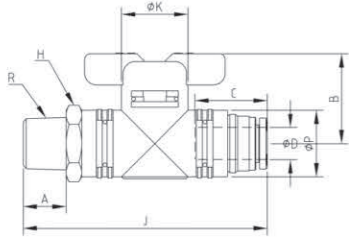


GBC
Straight



MODEL[ØD-T] Tube(Metric)-Thread(R)

MODEL	ØD	R	C	ØP	A	H	J	ØK	B	W.G(g)	Qty/ Inbox
GBC 20-06-01	6	R1/8	17	17	8	17	58.35	17	23	32.1	25
GBC 20-06-02	6	R1/4	17	17	11	17	61.35	17	23	37.1	25
GBC 20-06-03	6	R3/8	17	17	12	17	62.35	17	23	43	25
GBC 20-08-01	8	R1/8	18.5	17	8	17	59.5	17	23	32.5	25
GBC 20-08-02	8	R1/4	18.5	17	11	17	62.5	17	23	37.5	25
GBC 20-08-03	8	R3/8	18.5	17	12	17	63.5	17	23	43.4	25
GBC 60-10-02	10	R1/4	21	24	11	24	80.4	24	28	94.4	12
GBC 60-10-03	10	R3/8	21	24	12	24	81.4	24	28	99	12
GBC 60-10-04	10	R1/2	21	24	15	24	85.4	24	28	107.2	12
GBC 60-12-02	12	R1/4	22	24	11	24	83.3	24	28	96.9	12
GBC 60-12-03	12	R3/8	22	24	12	24	84.3	24	28	101.9	12
GBC 60-12-04	12	R1/2	22	24	15	24	88.3	24	28	109.6	12



GBLG
Reducing Union Elbow



MODEL[ØD-T] Tube(Metric)-Thread(R)

MODEL	ØD1	ØD2	C1	C2	ØP1	ØP2	E	ØK	B	B1	W.G(g)	Qty/ Inbox
GBLG 20-0608	6	8	17	18.5	17	17	27.7	17	50.7	28.85	19.6	25
GBLG 20-0806	8	6	18.5	17	17	17	28.85	17	51.85	27.70	19.6	25
GBLG 60-1012	10	12	21	22	24	24	38.1	24	66.1	41.0	48.5	12
GBLG 60-1210	12	10	22	21	24	24	41.0	24	69.0	38.1	48.4	12

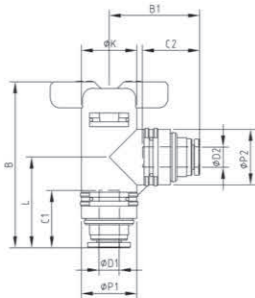


GBUL
Union Elbow



MODEL[ØD-T] Tube(Metric)-Thread(R)

MODEL	ØD1	ØD2	C1	C2	ØP1	ØP2	ØK	B	L	B1	W.G(g)	Qty/ Inbox
GBUL 20-0606	6	6	17	17	17	17	17	50.7	27.7	27.7	19.2	25
GBUL 20-0808	8	8	18.5	18.5	17	17	17	51.85	28.85	28.85	20	25
GBUL 60-1010	10	10	21	21	24	24	24	66.1	38.1	38.1	46	12
GBUL 60-1212	12	12	22	22	24	24	24	69.0	41.0	41.0	51	12

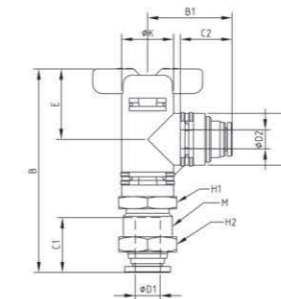


GBLM
Bulkhead Union Elbow



MODEL[ØD-T] Tube(Metric)-Thread(R)

MODEL	ØD1	ØD2	M	C1	C2	ØP	E	ØK	B	H1	H2	B1	W.G(g)	Qty/ Inbox
GBLM 20-0606	6	6	M16	17	17	17	23	17	65.7	19	19	27.7	52	25
GBLM 20-0806	8	6	M16	18.5	17	17	23	17	66.65	19	19	27.7	49.6	25
GBLM 20-0808	8	8	M16	18.5	18.5	17	23	17	66.65	19	19	28.85	50	25
GBLM 60-1010	10	10	M22	21	21	24	28	24	83.3	24	26	38.1	120.4	12
GBLM 60-1210	12	10	M22	22	21	24	28	24	84.3	24	26	38.1	115	12
GBLM 60-1212	12	12	M22	22	22	24	28	24	84.3	24	26	41	117.7	12



Metric Size R(PT) Thread Type

- One -Touch Fittings
- Compact One -Touch Fittings
- Speed Controllers
- Metal Body Speed Controllers
- Rotary Joints
- Stop Fittings
- Check Valves
- Ball Valves
- Main Blocks**
- Hand Valves
- Hand Slide Valves
- Two-Touch Fittings

MAIN BLOCKS

Application

- Used for assembling a variety of manifold blocks for concentrated branching.
- Main Blocks provide comparable flow rates to steel piping.

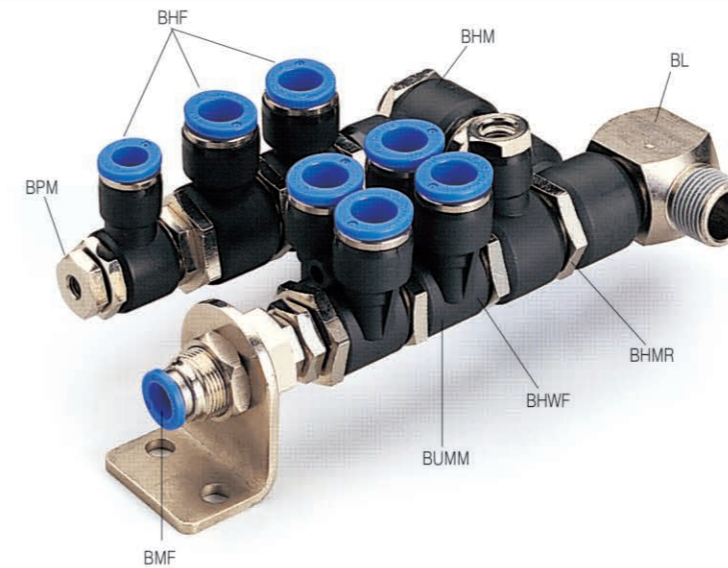
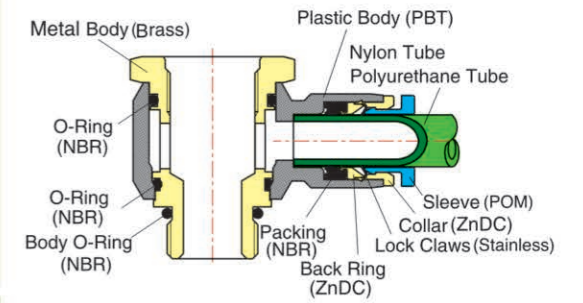
Feature

- 14 types of different shapes can be combined freely depending on the user's application.

Specification

Fluid	Air(No other gases or liquids)	
Working Pressure Range	0~150PSI	0~9Kgf/cm ² (0~900kPa)
Negative Pressure	-29.50 in Hg	-750mmHg(10Torr)
Temperature Range	32~140° F	0~60° C
Applicable Tube Material	Polyurethane and Nylon	

Structural Diagram



Method of Assembly

The above pictures show that the metric threads can connect to each different Main Block with the same thread size.

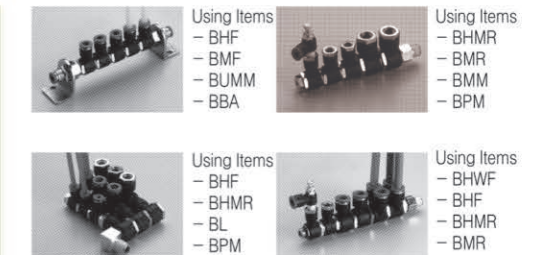
Generally, BHF, BHMF, and BHMR decide the shape of complete assembly and BMR, BI, BRM, BUMR, BMF used for outlet of air at the end.

BPM or BCM is used for blocking the outlet.

For the connection of different thread sizes of Main Block, use BMM.

BUMM is for connecting with female Main Block and BBA is for bracketing the assembly.

Case In Use



Product Code System

BHF 14 - 08

① ② ③

- ① Type
- ② Thread Size(T)

Metric Size				
Code	08	12	14	18
Size	M8×1.0	M12×1.0	M14×1.0	M18×1.0

Thread Size						
Code	M5	M6	01	02	03	04
Size	M5×0.8	M6×1.0	R1/8	R1/4	R3/8	R1/2

- ③ Tube Dia(∅D)

Taper Pipe Thread					
Code	04	06	08	10	12
Dia	∅04	∅06	∅08	∅10	∅12

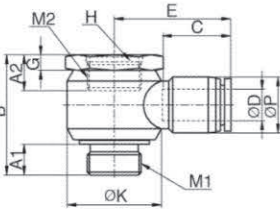
CAUTION

- Be sure to read the "Common Precautions" and "Using Precautions of Fitting Series"(P12) before using.
- Use a wrench to assemble or disassemble the Main Block.

WARNING

- When installing multiple connections, be sure to fix it with bracket BBA. Failure to do so may cause damage or transformation of the blocks.

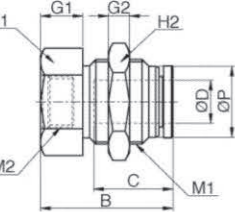
BHF
Universal Quick



MODEL[ØD-T] Tube(Metric)-Thread(R)

MODEL	ØD	ØP	C	E	H	A1	A2	M1	M2	G	B	ØK	Orifice (mm)	W.G(g)	Qty/Inbox
BHF 0408	4	10.4	16	23.4	14	6.5	7	M8	M8	4	25.7	15.5	3	14.3	50
BHF 0608	6	12.4	17	24.2	14	6.5	7	M8	M8	4	25.7	15.5	5	16.4	50
BHF 0612	6	12.4	17	26.7	17	7	7.5	M12	M12	4	27.2	20	5	24.5	50
BHF 0812	8	14.4	18.5	29.2	17	7	7.5	M12	M12	4	27.2	20	7	25.7	50
BHF 0814	8	14.4	18.5	31.2	22	8	8.5	M14	M14	4	31.2	24.5	7	27.7	25
BHF 1014	10	17.6	21	32	22	8	8.5	M14	M14	4	31.2	24.5	8	40.2	25
BHF 1214	12	21	22.5	33.8	22	8	8.5	M14	M14	4	31.2	24.5	10	43.4	20
BHF 1218	12	21	22.5	36.8	24	8	8.5	M18	M18	5	35.2	30	10	57.3	20

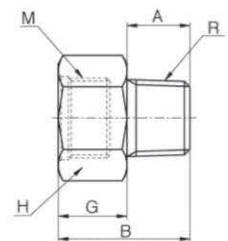
BMF
Bulkhead Reducer



MODEL[ØD-T] Tube(Metric)-Thread(R)

MODEL	ØD	C	ØP	M1	M2	G1	G2	H1	H2	B	Orifice (mm)	W.G(g)	Qty/Inbox
BMF 04M8	4	14	9.6	M12	M8	8	4	14	14	25	3	18.1	50
BMF 06M8	6	15.5	11.6	M14	M8	8	4	17	17	27.5	4.5	28.9	50
BMF 06M12	6	15.5	11.6	M14	M12	10	4	17	17	28.5	4.5	33	50
BMF 08M12	8	16.3	13.6	M16	M12	10	5	19	19	29	7	36.6	50
BMF 08M14	8	16.3	13.6	M16	M14	12	5	19	19	31	9	37.2	25
BMF 10M12	10	18.7	16.8	M20	M12	10	5	22	22	31.3	7	58.6	50
BMF 10M14	10	18.7	16.8	M20	M14	10	5	24	24	31.3	9	62.2	25
BMF 12M14	12	21.8	19.6	M22	M14	12	6	24	26	34.4	11	74.1	25
BMF 12M18	12	21.8	19.6	M22	M18	12	6	26	26	34.4	11	74.8	25

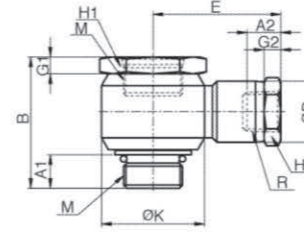
BMR
Bush



MODEL[ØD-T] Tube(Metric)-Thread(R)

MODEL	H	A	M	R	G	B	Orifice (mm)	W.G(g)	Qty/Inbox
BMR 0801	12	8	M8	R1/8	12	20	6	10.9	100
BMR 1201	17	8	M12	R1/8	12	20	6	18.9	100
BMR 1202	17	11	M12	R1/4	12	23	9	20.8	100
BMR 1203	17	12	M12	R3/8	12	24	10	36.5	100
BMR 1402	19	11	M14	R1/4	12	23	9	23.3	50
BMR 1403	19	12	M14	R3/8	12	24	12	25.6	50
BMR 1404	22	15	M14	R1/2	10	25	13	43.3	50
BMR 1803	22	12	M18	R3/8	13	25	12	31.6	50
BMR 1804	24	15	M18	R1/2	10	25	12	41.7	50

BHMR
Universal Rc Thread



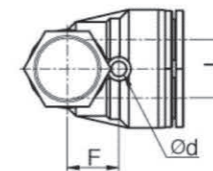
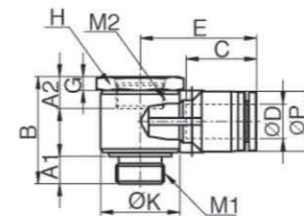
MODEL[ØD-T] Tube(Metric)-Thread(R)

MODEL	ØD	R	M	E	A1	A2	G1	G2	H1	H2	B	ØK	Orifice (mm)	W.G(g)	Qty/Inbox
BHMR 08M5	12.5	M5	M8	23.2	6.5	5	4	4	14	11	25.7	15.5	4	21.5	50
BHMR 08M6	12.5	M6	M8	23.2	6.5	6	4	4	14	11	25.7	15.5	4	21.1	50
BHMR 0801	14.5	R1/8	M8	28.4	6.5	10	4	4	17	14	26.7	20	5	31	50
BHMR 12M6	12.5	M6	M12	28.4	7	8	4	4	17	11	27.2	20	4	29.2	50
BHMR 1201	14.5	R1/8	M12	28.4	7	8	4	4	17	14	27.2	20	5	33.4	50
BHMR 1401	14.5	R1/8	M14	30.4	8	10	4	4	22	14	31.2	24.5	5	43.8	25
BHMR 1402	21	R1/4	M14	32.5	1	14	4	4	22	19	31.2	24.5	9	43.7	25
BHMR 1802	21	R1/4	M18	35.5	8	14	5	4	24	19	35.2	30	9	71.5	20
BHMR 1803	25	R3/8	M18	36.5	8	17	5	5	27	22	35.2	30	9	72.5	20

MODEL[ØD-T] Tube(Metric)-Thread(R)

MODEL	ØD	C	ØP	E	G	H	A1	A2	M1	M2	B	F	J	ØK	Ød	Orifice (mm)	W.G(g)	Qty/Inbox
BHWF 1014	10	21	18	34.3	4	22	8	8.5	M14	M14	31.2	15	17	23	4.4	8	47.4	20
BHWF 1218	12	22.5	21	38.3	5	24	8	8.5	M18	M18	35.2	17	20	30	4.4	10	67.5	20

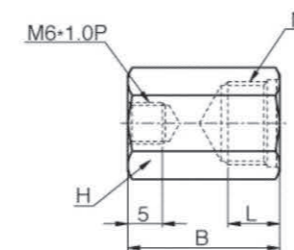
BHWF
Universal Branch



MODEL[ØD-T] Tube(Metric)-Thread(R)

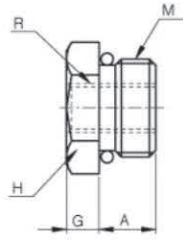
MODEL	H	L	M	B	W.G(g)	Qty/Inbox
BCM 08	12	7	M8	20	16.1	100
BCM 12	14	7.5	M12	22	25	100
BCM 14	17	8.5	M14	23	33.3	100
BCM 18	22	8.5	M18	25	63.8	100

BCM
Cap



BRM

Bush

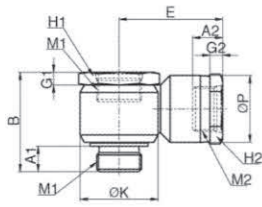


MODEL [ØD-T] Tube(Metric) – Thread(R)

MODEL	H	R	M	G	A	W.G(g)	Qty/Inbox
BRM 08M5	12	M5	M8	4	6.5	4.7	100
BRM 12M6	14	M6	M12	4	7	9.1	100
BRM 1401	17	R1/8	M14	4	8	6.1	100
BRM 1802	19	R1/4	M18	4	8	14	100

BHM

Universal M Thread

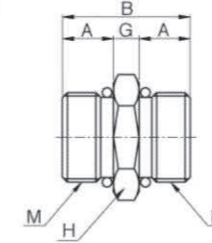


MODEL [ØD-T] Tube(Metric) – Thread(R)

MODEL	ØP	E	G1	G2	H1	H2	A1	A2	M1	M2	B	ØK	Orifice (mm)	W.G(g)	Qty/Inbox
BHM 1208	12.4	26	4	4	17	12	7	7	M8	M12	27.2	20	5	33.3	50
BHM 1212	18	29.5	4	4	17	17	7	7.5	M12	M12	27.2	20	9	48.5	50
BHM 1412	18	31.5	4	4	22	17	8	7.5	M12	M14	31.2	24.5	9	58.7	25
BHM 1414	21	34	4	4	22	19	8	8.5	M14	M14	31.2	24.5	9	55.3	25
BHM 1814	21	37	5	4	24	19	8	8.5	M14	M18	35.2	30	9	69.3	20
BHM 1818	25	35.5	5	4	27	22	8	8.5	M18	M18	35.2	30	13	75	20

BUMM

Nipple

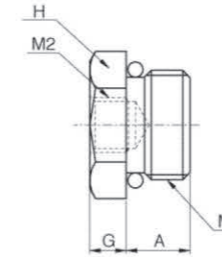
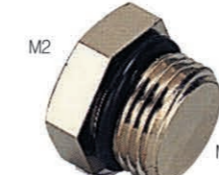


MODEL [ØD-T] Tube(Metric) – Thread(R)

MODEL	H	A	M	G	B	Orifice(mm)	W.G(g)	Qty/Inbox
BUMM 0808	12	6.5	M8	4	17	4	6.7	100
BUMM 1212	14	7	M12	4	18	7	11.2	100
BUMM 1414	17	8	M14	4	20	9	15	50
BUMM 1818	19	8	M18	4	20	13	18.5	50

BPM

Plug

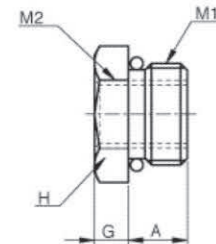


MODEL [ØD-T] Tube(Metric) – Thread(R)

MODEL	H	M1	M2	G	H	W.G(g)	Qty/Inbox
BPM 08	6.5	M8	M6	4	12	8.5	100
BPM 12	7	M12	M6	4	14	10.1	100
BPM 14	8	M14	M6	4	17	16	100
BPM 18	8	M18	M6	4	19	24.5	100

BMM

Bush

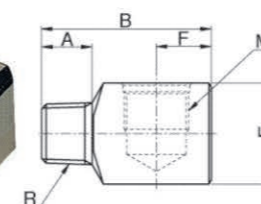


MODEL [ØD-T] Tube(Metric) – Thread(R)

MODEL	H	M1	M2	G	A	W.G(g)	Qty/Inbox
BMM 1208	14	M12	M8	5	7	7.8	100
BMM 1412	17	M14	M12	4	8	10.8	100
BMM 1814	19	M18	M14	4	8	23.5	100

BL

Elbow

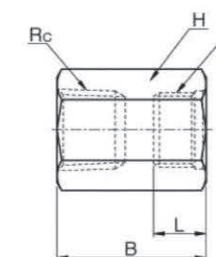


MODEL [ØD-T] Tube(Metric) – Thread(R)

MODEL	E	F	A	R	M	B	Orifice (mm)	W.G(g)	Qty/Inbox
BL 0801	17	8	8	R1/8	M8	28	6	39.9	100
BL 1201	19	10	11	R1/8	M12	29	6	45.2	100
BL 1202	19	10	11	R1/4	M12	32	9	47.1	100
BL 1402	22	12	11	R1/4	M14	37	9	76.8	50
BL 1403	22	12	12	R3/8	M14	38	12	80.4	50
BL 1404	22	12	15	R1/2	M14	39	13	89	50
BL 1803	27	14	12	R3/8	M18	44	9	145.3	25
BL 1804	27	14	15	R1/2	M18	45	13	153.5	25

BUMR

Socket



MODEL [ØD-T] Tube(Metric) – Thread(R)

MODEL	H	L	Rc	M	B	Orifice (mm)	W.G(g)	Qty/Inbox
BUMR 0801	12	7	Rc1/8	M8	20	6	11.9	100
BUMR 1202	17	7.5	Rc1/4	M12	24	9	27.8	50
BUMR 1403	22	8.5	Rc3/8	M14	27	11	57.9	25
BUMR 1804	27	8.5	Rc1/2	M18	28	15	84	25

Metric Size R(PT) Thread Type

- One -Touch Fittings
- Compact One -Touch Fittings
- Speed Controllers
- Metal Body Speed Controllers
- Rotary Joints
- Stop Fittings
- Check Valves
- Ball Valves
- Main Blocks
- **Hand Valves**
- Hand Slide Valves
- Two-Touch Fittings

HAND VALVES

Application

- Used for turning air pressure on and off for pneumatic devices.

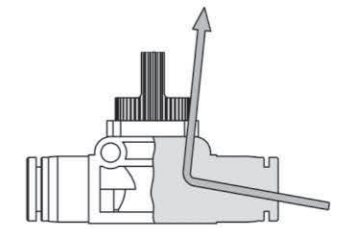
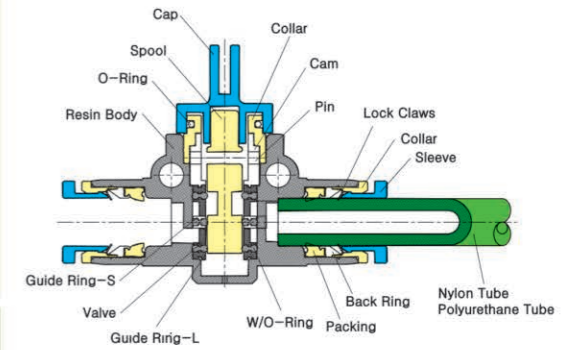
Feature

- When off, the three-way direction control valve discharges the residual pressure and blocks air flow-in.

Specification

Fluid	Air(No other gases or liquids)	
Working Pressure Range	0~284PSI	0~20Kgf/cm ² (0~1960kPa)
Negative Pressure	-29.5 in Hg	-750mmHg(10Torr)
Temperature Range	32~176° F	0~80° C
Applicable Tube Material	Polyurethane and Nylon	

Structural Diagram



► 3 Way Direction, 2 Way Direction

- The three-way direction control valve, when the air is stopped, discharges residual pressure to the outlet, which assures safety in repairing or adjusting connected devices.
- The two-way direction control valve does not discharge residual pressure, and is suitable for a reservoir tank or other device that does not require a discharging residual pressure.
- The two-way direction control valve is also suitable for the system where a vacuum pipe is used.

Product Code System

GHVFS 06 - 01

	①	②	③			
① Type						
② Tube Dia(∅D)	Code	04	06	08	10	12
	Dia	∅4	∅6	∅8	∅10	∅12
③ Thread Size(T)						
	Code	01	02	03	04	
	Size	R1/8	R1/4	R3/8	R1/2	

⚠ CAUTION

- Be sure to read the "Common Precautions" and "Using Precautions of Fitting Series" (P12) before using.
- When operating handle, turn at a right angle(90°), otherwise it may cause a shortage of fluid.

Metric Size R(PT) Thread Type

- One -Touch Fittings
- Compact One -Touch Fittings
- Speed Controllers
- Metal Body Speed Controllers
- Rotary Joints
- Stop Fittings
- Check Valves
- Ball Valves
- Main Blocks
- Hand Valves
- **Hand Slide Valves**
- Two-Touch Fittings

HAND SLIDE VALVES

Application

- Used for turning air pressure on and off for pneumatic devices.

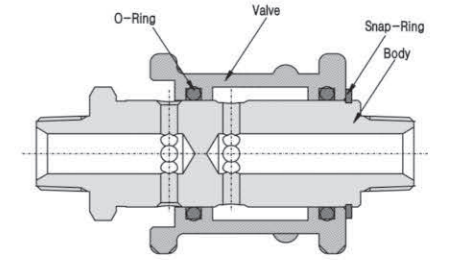
Feature

- Made of brass or aluminum for a long life-span.

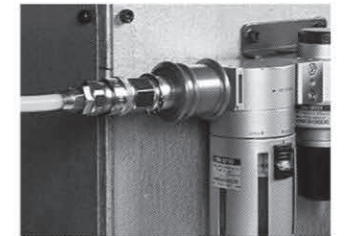
Specification

Fluid	Air(No other gases or liquids)	
Working Pressure Range	0~150PSI	0~9Kg/cm ² (0~900kPa)
Negative Pressure	-29.50 in Hg	-750mmHg(10Torr)
Temperature Range	32~140° F	0~60° C
Applicable Tube Material	Polyurethane and Nylon	

Structural Diagram



Case In Use



Product Code System

HSV M - 01

① ② ③

① Type

② Connection size

Code	M	H			P
Dia	③ 참조	Ø9	Ø11	Ø15	Ace Coupler의 접속용 Plug

③ Thread Size(T)

Code	M5	M6	01	02	03	04	06
Size	M5×0.8	M6×1.0	R1/8	R1/4	R3/8	R1/2	R3/4

⚠ CAUTION

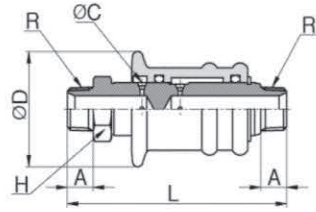
- Be sure to read the "Common Precautions" and "Using Precautions of Fitting series"(P12) before using.
- If valve is not open enough, it causes a shortage of air or fluid.

⚠ WARNING

- Use after confirming the direction of air flow. When use in the wrong air flow direction, it may cause damage.
- When repairing or checking the machine, be sure to turn the electricity or air off, and secure to check that residual pressure is at zero.

HSV(M)

Nipple Slide Type



MODEL [ØD-T] Tube(Metric) – Thread(R)

MODEL	ØD	L	A	R	ØC	H	Orifice (mm)	W.G(g)	Qty/Inbox
HSV M-M5	20	45	4.5	M5	1.4	9	2.4	22.9	50
HSV M-01	24	53.6	7.5	R1/8	1.4	14	4.5	45.4	25
HSV M-02	35	71.9	8.5	R1/4	3.3	17	8	112.3	12
HSV M-03	45	83	11	R3/8	3.8	26	9	180	6
HSV M-04	45	85	12	R1/2	3.8	26	13	259.6	6
HSV M-06	50	103	14	R3/4	6.9	32	19	400.4	3

Metric Size R(PT) Thread Type

- One -Touch Fittings
- Compact One -Touch Fittings
- Speed Controllers
- Metal Body Speed Controllers
- Rotary Joints
- Stop Fittings
- Check Valves
- Ball Valves
- Main Blocks
- Hand Valves
- Hand Slide Valves
- **Two-Touch Fittings**

TWO-TOUCH FITTING

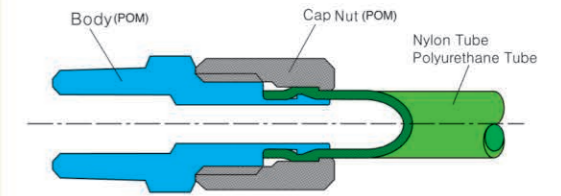
Application

- Nut-tightened air connector used for pneumatic piping.

Feature

- Effective use at the place of vibration or rocking.
- Long life-span made of plastic.
- Excellent in anti-corrosion and anti-chemicals.

Structural Diagram



Specification

Fluid	Air(No other gases or liquids)	
Working Pressure Range	0~150PSI	0~9Kgf/cm ² (0~900kPa)
Negative Pressure	-29.50 in Hg	-750mmHg(10Torr)
Temperature Range	32~140° F	0~60° C
Applicable Tube Material	Polyurethane and Nylon	



Product Code System

TC 04 - 01

① ② ③

① Type

Code	Metric Size				
	TC	TL	TUT	THT	THL
Type	STRAIGHT	ELBOW	UNION	TEE ROTATION	ELBOW

② Tube Dia(∅D)

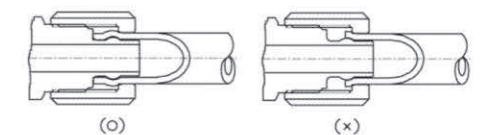
Code	04	06	08	10	12
Dia	∅4×∅2.5	∅6×∅4	∅8×∅5.5	∅10×∅6.5	∅12×∅8

③ Thread Size(T)

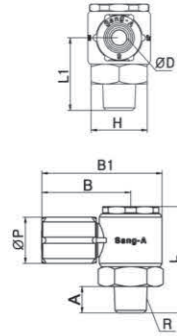
Code	Thread Size			
	01	02	03	04
Size	R1/8	R1/4	R3/8	R1/2

CAUTION

- Be sure to read the "Common Precautions" and "Using Precautions of Fitting Series" (P12) before using.
- Fastening the cap by force will cause damage on thread or body.
- Push the tube fully into the end when connecting.
- Cut the used part of tube after using once.
- Seal with teflon, failure to do so will cause air leakage.



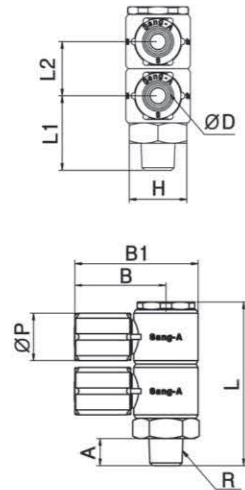
THL(D1)
Single Universal Elbow



MODEL [ØD-T]

MODEL	ØD	R	A	B	B1	H	L	L1	ØP	Orifice (mm)	W.G(g)	Qty/Inbox
THL 0401-D1	4	R1/8	8	20.2	27.9	14	30.2	21	10	2	18.7	50
THL 0402-D1	4	R1/4	11	20.2	27.9	14	33.2	24	10	2	19.7	50
THL 0601-D1	6	R1/8	8	23.2	30.9	14	30.3	21	12	3	19.7	50
THL 0602-D1	6	R1/4	11	23.2	30.9	14	33.3	24	12	3	31.2	25
THL 0801-D1	8	R1/8	8	26.9	36.4	17	32.2	22	14	4.6	55	25
THL 0802-D1	8	R1/4	11	26.9	36.4	17	35.2	25	14	4.6	60	25
THL 0803-D1	8	R3/8	12	26.9	36.4	17	36.2	26	14	4.6	65.2	20
THL 1002-D1	10	R1/4	11	29.5	41	21	42.5	30	17	5.2	32.5	25
THL 1003-D1	10	R3/8	12	29.5	41	21	43.5	31	17	5.2	66.6	20
THL 1004-D1	12	R1/2	15	29.5	41	21	47	34	17	5.2	72	20
THL 1202-D1	12	R1/4	11	38	53	27	47	33	19	6.5	67	20
THL 1203-D1	12	R3/8	12	38	53	27	48	34	19	6.5	69.3	20
THL 1204-D1	12	R1/2	15	38	53	27	51	37	19	6.5	73	20

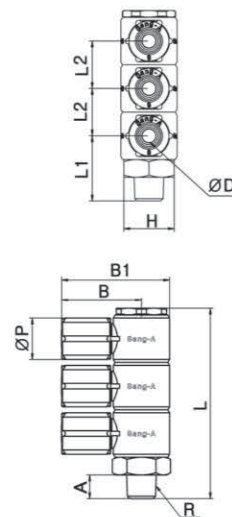
THL(D2)
Double Universal Elbow



MODEL [ØD-T]

MODEL	ØD	R	A	B	B1	H	L	L1	L2	ØP	Orifice (mm)	W.G(g)	Qty/Inbox
THL 0401-D2	4	R1/8	8	20.2	27.9	14	44.2	21	14	10	2	29.7	25
THL 0402-D2	4	R1/4	11	20.2	27.9	14	47.2	24	14	10	2	34	25
THL 0601-D2	6	R1/8	8	23.2	30.9	14	44.3	21	14	12	3	31.7	25
THL 0602-D2	6	R1/4	11	23.2	30.9	14	47.3	24	14	12	3	46.2	25
THL 0801-D2	8	R1/8	8	26.9	36.4	17	48.3	22	16	14	4.6	45	25
THL 0802-D2	8	R1/4	11	26.9	36.4	17	51.3	25	16	14	4.6	47.2	25
THL 0803-D2	8	R3/8	12	26.9	36.4	17	52.3	26	16	14	4.6	100.7	25
THL 1002-D2	10	R1/4	11	29.5	41	21	62.5	30	20	14	5.2	49.1	20
THL 1003-D2	10	R3/8	12	29.5	41	21	63.5	31	20	17	5.2	103.2	12
THL 1004-D2	12	R1/2	15	29.5	41	21	66.5	34	20	17	5.2	108	12
THL 1202-D2	12	R1/4	11	38	53	27	68.8	32.9	21.8	19	6.5	115	9
THL 1203-D2	12	R3/8	12	38	53	27	69.8	33.9	21.8	19	6.5	120	9
THL 1204-D2	12	R1/2	15	38	53	27	72.8	37	21.8	19	6.5	131	9

THL(D3)
Triple Universal Elbow



MODEL [ØD-T]

MODEL	ØD	R	A	B	B1	H	L	L1	L2	ØP	Orifice (mm)	W.G(g)	Qty/Inbox
THL 0401-D3	4	R1/8	8	20.2	27.9	14	58.2	21	14	10	2	40.5	50
THL 0402-D3	4	R1/4	11	20.2	27.9	14	61.2	24	14	10	2	42	50
THL 0601-D3	6	R1/8	8	23.2	30.9	14	58.3	21	14	12	3	43.3	25
THL 0602-D3	6	R1/4	11	23.2	30.9	14	61.3	24	14	12	3	62.9	20
THL 0801-D3	8	R1/8	8	26.9	36.4	17	64.3	22	16	14	4.6	61.5	20
THL 0802-D3	8	R1/4	11	26.9	36.4	17	67.3	25	16	14	4.6	64.4	20
THL 0803-D3	8	R3/8	12	26.9	36.4	17	68.3	26	16	14	4.6	73.4	12
THL 1002-D3	10	R1/4	11	29.5	41	21	82.5	30	20	14	5.2	67.2	20
THL 1003-D3	10	R3/8	12	29.5	41	21	83.5	31	20	17	5.2	80	12
THL 1004-D3	12	R1/2	15	29.5	41	21	86.5	34	20	17	5.2	91	6
THL 1202-D3	12	R1/4	11	38	53	27	90.6	32.9	21.8	19	6.5	100	8
THL 1203-D3	12	R3/8	12	38	53	27	91.6	33.9	21.8	19	6.5	109	8
THL 1204-D3	12	R1/2	15	38	53	27	94.6	37	21.8	19	6.5	120	6

ONE-TOUCH FITTINGS

Metric Size G(PF) Thread Type

— One -Touch Fittings

- Compact One -Touch Fittings
- Speed Controllers
- Metal Body Speed Controllers
- Rotary Joints
- Stop Fittings
- Check Valves
- Ball Valves
- Hand Valves

Application

- One-touch joints used in pneumatic piping.
- Used for a wide variety of models to meet all needs.

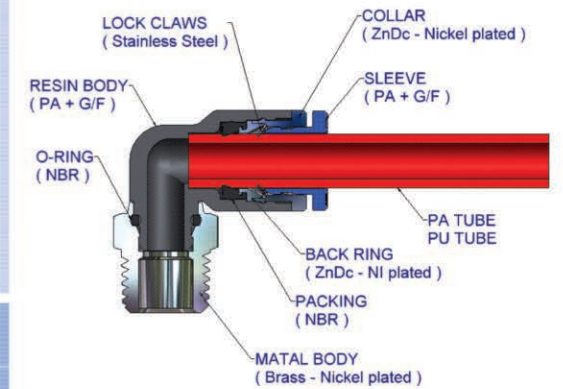
Feature

- Easy to connect/disconnect tube by one touch.
- PC type is useful for piping in confined space, given its six-angle wrench processing inside.
- Elliptical sleeve makes it possible to apply and remove the tube easily in confined space.
- Fittings are equipped with a Gasket, O-ring and Teflon-Treatment already on the thread.

Specification

Fluid	AIR(No other gases or liquids)	
Working Pressure Range	0 ~ 284PSI	0 ~ 20Kgf/cm ² (0~1960kPa)
Negative Pressure	-29.5 in Hg	-750mmHg(10Torr)
Temperature Range	32~176° F	0 ~ 80° C
Applicable Tube Material	Polyurethane and Nylon	

Structural Diagram



Case In Use

► POC Model

- The hexagonal hole of the inside body makes it possible to tighten the fitting with a hexagonal wrench.
- A hexagonal wrench must be used due to the round exterior.

► PL Model

- Flexible for directional tube laying given its revolving construction of body (PL and PT type)

► Elliptical Sleeve

- Elliptical sleeve makes it possible to apply and remove the tube easily in confined spaces.

Product Code System

GPC 08-G01

① ② ③

① Type

② Tube Dia(∅D)

Code	04	06	08	10	12	16
Dia	∅4	∅6	∅8	∅10	∅12	∅16

③ Thread Size(T)

	Metric Size		Taper Pipe Thread			
Code	M5	M6	G01	G02	G03	G04
Size	M5×0.8	M6×1.0	R1/8	R1/4	R3/8	R1/2

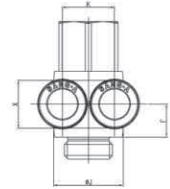
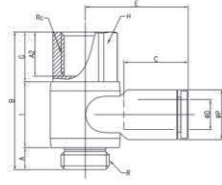
⚠ CAUTION

- Be sure to read the "Common Precautions" and the "Using Precautions of Fitting Series" (P12) before using.
- In putting tube on the fitting, be sure to push it deeply into the inside.
- In case of incorrect installation, there is a risk of air leakage or loose tube.

⚠ WARNING

- Be sure to confirm that proper conditions are met(specifications), otherwise there may be air leakage by damage on the fitting body.

GPAF-GG
Dual Female Banjo



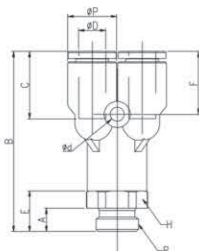
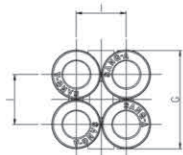
MODEL [ØD-T] Tube (Metric) - Thread (G)

MODEL	ØD	R	Rc	ØP	A1	A2	B	C	E	F	G	H	I	ØJ	K	X	Orifice (Ømm)	W.G(g)	Qty/Inbox
GPAF04G01-G01	4	G1/8	G1/8	9	5	9	30	14.5	20.6	7.3	10.5	13	14.5	14	9.3	8.6	3.2	19.8	50
GPAF04G02-G02	4	G1/4	G1/4	9	6	12	37.5	14.5	22.6	9	13.5	16	18	19	9.3	8.6	3.2	33.4	50
GPAF04G03-G03	4	G3/8	G3/8	9	7	13	43	14.5	24.6	10.5	15	20	21	22.4	9.3	8.6	3.2	52.6	25
GPAF06G01-G01	6	G1/8	G1/8	11.2	5	9	30	15.5	22	7.3	10.5	13	14.5	14	11.4	11	5	21.4	50
GPAF06G02-G02	6	G1/4	G1/4	11.2	6	12	37.5	15.5	23.5	9	13.5	16	18	19	11.4	11	5	34.9	50
GPAF06G03-G03	6	G3/8	G3/8	11.2	7	13	43	15.5	25.7	10.5	15	20	21	22.4	11.4	11	5	54.2	25
GPAF08G01-G01	8	G1/8	G1/8	13.6	5	9	30	17.8	25.6	8	10.5	13	14.5	14	14.2	13	5.2	24.2	25
GPAF08G02-G02	8	G1/4	G1/4	13.6	6	12	37.5	17.8	28.1	9	13.5	16	18	19	14.2	13	6.8	37.7	25
GPAF08G03-G03	8	G3/8	G3/8	13.6	7	13	43	17.8	29.8	10.5	15	20	21	22.4	14.2	13	7	55.8	25
GPAF08G04-G04	8	G1/2	G1/2	13.6	8.5	16	49.5	17.8	32.1	11	19	24	22	27	14.2	13	7	92.4	20
GPAF10G02-G02	10	G1/4	G1/4	16.3	6	12	37.5	19.4	27.5	9.7	13.5	16	18	19	17	16	7.3	38.9	15
GPAF10G03-G03	10	G3/8	G3/8	16.3	7	13	43	19.4	29.6	10.5	15	20	21	22.4	17	16	9	59.8	15
GPAF10G04-G04	10	G1/2	G1/2	16.3	8.5	16	49.5	19.4	31.5	11	19	24	22	27	17	16	9	95.3	15
GPAF12G03-G03	12	G3/8	G3/8	19.7	7	13	43	22.4	32.4	11.9	15	20	21	22.4	20	19.5	8.7	68.1	10
GPAF12G04-G04	12	G1/2	G1/2	19.7	8.5	16	49.5	22.4	34.9	11.9	19	24	22	27	20	19.5	10	103.7	10

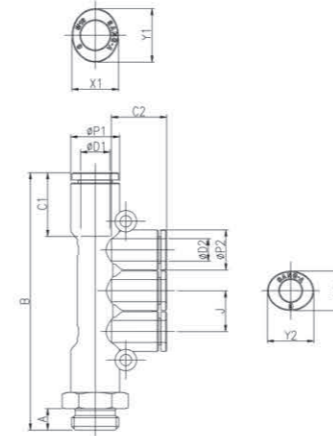
MODEL [ØD-T] Tube (Metric) - Thread (G)

MODEL	ØD	R	ØP	A	B	C	E	F	G	H	I	Ød	Orifice (Ømm)	W.G(g)	Qty/Inbox
GPXT04G01	4	G1/8	9	5	38.3	14.5	9.8	13.1	18.2	13	9.2	3.2	2.3	14.3	25
GPXT04G02	4	G1/4	9	6	39	14.5	10.5	13.1	18.2	16	9.2	3.2	2.3	18.6	25
GPXT06G01	6	G1/8	11.2	5	41.3	15.5	9.3	14.5	22.6	13	11.5	3.2	3.7	19.5	25
GPXT06G02	6	G1/4	11.2	6	42.5	15.5	10.5	14.5	22.6	16	11.5	3.2	3.7	23.9	25

GPXT-G
Male Double Y



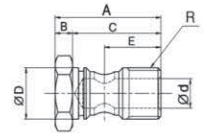
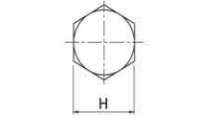
GPKD-G
Male Reducer Triple Branch



MODEL [ØD-T] Tube (Metric) - Thread (G)

MODEL	ØD1	ØD2	R	ØP1	ØP2	B	C1	C2	A	H	J	X1	Y1	X2	Y2	Orifice (Ømm)	W.G(g)	Qty/Inbox
GPKD0604-G01	6	4	G1/8	11.2	9	60.6	15.5	14.5	5	13	9.3	11	13	8.6	10.8	3.2	15.7	25
GPKD0604-G02	6	4	G1/4	11.2	9	61.3	15.5	14.5	6	16	9.3	11	13	8.6	10.8	3.2	20.1	25
GPKD0804-G02	8	4	G1/4	13.6	9	65.3	17.8	14.5	6	16	9.3	13	15	8.6	10.8	3.2	23.0	25
GPKD0806-G02	8	6	G1/4	13.6	11.2	71.9	17.8	15.5	6	16	11.4	13	15	11	13	5	25.7	25
GPKD0806-G03	8	6	G3/8	13.6	11.2	72.9	17.8	15.5	7	20	11.4	13	15	11	13	5	31.6	25
GPKD1008-G03	10	8	G3/8	16.3	13.6	83.4	19.4	17.8	7	20	14.2	16	18.5	13	15	7	44.5	20

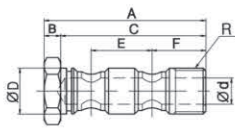
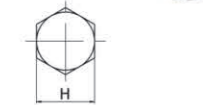
PGB(D1)



MODEL [ØD-T] Tube(Metric) – Thread(G)

MODEL	ØD	M	Ød	A	B	C	E	H	W.G(g)	Qty/ Inbox
PGB G01(1)	9.7	G1/8	5	26.5	4	22.5	14	14	16.3	100
PGB G02(1)	13.1	G1/4	7	32	5	27	17.5	17	26.6	50
PGB G03(1)	16.6	G3/8	9.5	36.5	6	30.5	19.5	21	33.2	25
PGB G04(1)	20.9	G1/2	11.5	40.5	6	34.5	22.5	24	43.2	25

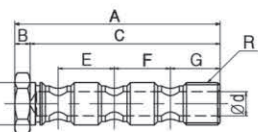
PGB(D2)



MODEL [ØD-T] Tube(Metric) – Thread(G)

MODEL	ØD	M	Ød	A	B	C	E	F	H	W.G(g)	Qty/ Inbox
PGB G01(2)	9.7	G1/8	5	43.5	4	39.5	17	14.0	14	33.5	50
PGB G02(2)	13.1	G1/4	7	51	5	46	19	17.5	17	36.5	50
PGB G03(2)	16.6	G3/8	9.5	58.5	6	52.5	22	19.5	21	39.5	25
PGB G04(2)	20.9	G1/2	11.5	64.5	6	58.5	24	22.5	24	42.5	20

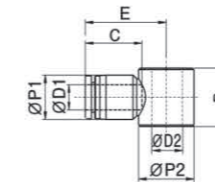
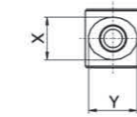
PGB(D3)



MODEL [ØD-T] Tube(Metric) – Thread(G)

MODEL	ØD	M	Ød	A	B	C	E	F	G	H	W.G(g)	Qty/ Inbox
PGB G01(3)	9.7	G1/8	5	60.5	4	56.5	17	17	14	14	36	50
PGB G02(3)	13.1	G1/4	7	70	5	65	19	19	17.5	17	39	25
PGB G03(3)	16.6	G3/8	9.5	80.5	6	74.5	22	22	19.5	21	42	20
PGB G04(3)	20.9	G1/2	11.5	88.5	6	82.5	24	24	22.5	24	44	20

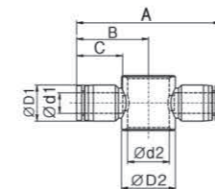
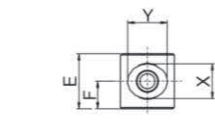
PGL



MODEL [ØD-T] Tube(Metric) – Thread(G)

MODEL	R	E	C	B	ØP1	ØD1	ØP2	ØD2	X	Y	W.G(g)	Qty/ Inbox
PGL04-G01P	G1/8	19	16	17	10.4	4	15	9.8	10	12	2.2	25
PGL06-G01P	G1/8	19.8	17	17	12.4	6	15	9.8	12	14	3	25
PGL06-G02P	G1/4	20.9	17	19	12.4	6	18	13.2	12	14	3.5	25
PGL08-G01P	G1/8	21.6	18.5	17	14.4	8	15	9.8	14	16	4.1	25
PGL08-G02P	G1/4	21.6	18.5	19	14.4	8	18	13.2	14	16	4.5	25
PGL08-G03P	G3/8	24	18.5	22	14.4	8	21.5	16.7	14	16	5.8	12
PGL10-G02P	G1/4	24	21	19	17.6	10	18	13.2	17	19	7.2	12
PGL10-G03P	G3/8	25.5	21	22	17.6	10	21.5	16.7	17	19	8.9	12
PGL12-G03P	G3/8	28	22.5	22	21.2	12	21.5	16.7	21	23	9.8	12
PGL12-G04P	G1/2	30.3	22.5	24	21.2	12	26	21	21	23	12	12

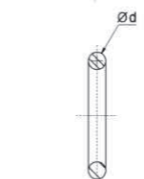
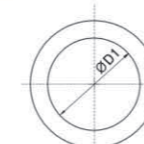
PGT



MODEL [ØD-T] Tube(Metric) – Thread(G)

MODEL	R	A	B	C	ØD1	Ød1	ØD2	Ød2	E	F	X	Y	W.G(g)	Qty/ Inbox
PGT04-G01P	G1/8	38	19	16	10.4	4	15	9.8	17	8.5	10	12	4.5	50
PGT06-G01P	G1/8	39.9	19.8	17	12.4	6	15	9.8	17	8.5	12	14	5.6	50
PGT06-G02P	G1/4	41.8	20.9	17	12.4	6	18	13.2	19	9.5	12	14	6.5	50
PGT08-G01P	G1/8	43.2	21.6	18.5	14.4	8	15	9.8	17	8.5	14	16	7.7	50
PGT08-G02P	G1/4	43.2	21.6	18.5	14.4	8	18	13.2	19	9.5	14	16	9	50
PGT08-G03P	G3/8	48	24	18.5	14.4	8	21.5	16.7	22	11	14	16	11	25
PGT10-G02P	G1/4	48	24	21	17.6	10	18	13.2	19	9.5	17	19	13.4	25
PGT10-G03P	G3/8	51	25.5	21	17.6	10	21.5	16.7	22	11	17	19	15.4	25
PGT12-G03P	G3/8	56	28	22.5	21.2	12	21.5	16.7	22	11	21	23	18.8	25
PGT12-G04P	G1/2	60	30	22.5	21.2	12	26	21	24	12	21	23	20.2	20

PGO



MODEL [ØD-T] Tube(Metric) – Thread(G)

MODEL	R	ØD1	W.G(g)	Qty/ Inbox
PGO G01	Ø8	Ø1.5	0.2	100
PGO G02	Ø12	Ø1.5	0.3	100
PGO G03	Ø15.5	Ø1.5	0.4	100
PGO G04	Ø19.5	Ø1.5	0.5	100

Metric Size G(PF) Thread Type

- One -Touch Fittings
- **Compact One -Touch Fittings**
- Speed Controllers
- Metal Body Speed Controllers
- Rotary Joints
- Stop Fittings
- Check Valves
- Ball Valves
- Hand Valves

COMPACT ONE-TOUCH FITTINGS

Application

- Compact type one-touch joints used in small types of pneumatic piping.
- A wide variety of models are available to meet most your needs.

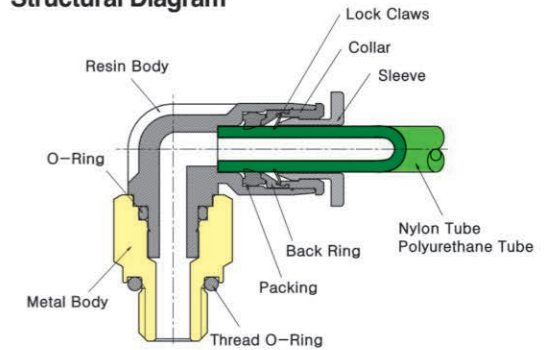
Feature

- The world's smallest quick-fitting joints feature 40% smaller volume ratio and 20% smaller O.D. ratio in comparison to the conventional type.
- The compact type joints, which are nickel plated, are excellent not only in appearance but also in rust resistance.
- The elliptical sleeve helps easy application or removal of the tube in confined space.

Specification

Fluid	Air(No other gases or liquids)	
Working Pressure Range	0~150PSI	0~9Kgf/cm ² (0~900kPa)
Negative Pressure	-29.50 in Hg	-750mmHg(10Torr)
Temperature Range	32~140° F	0~60° C
Applicable Tube Material	Polyurethane and Nylon	

Structural Diagram



Case In Use

- ▶ **POC Model/PCC Model**
The hexagonal shape on the inside of the body makes it possible to tighten the fitting by use of a hexagonal wrench. In the case of POC, PCC a hexagonal wrench must be used due to the round exterior.
- ▶ **PLL Model/PL Model**
Long brass body helps tightening with ease away from any obstacles.

Product Code System

PC O6-O1 C

- ① Type
- ② Tube Dia(∅D)

Code	03	04	06	10	12	16
Dia	∅3	∅4	∅6	∅10	∅12	∅16

- ③ Thread Size(T)

	Metric Size			
Code	M3	M5	M6	01
Size	M5 × 0.8	M5 × 0.8	M6 × 1.0	R1/8

- ④ C=COMPACT

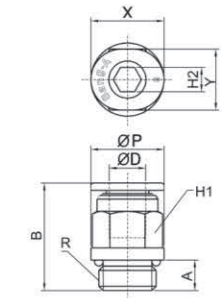
CAUTION

- Be sure to read the "Common Precautions" and the "Using Precautions of Fitting Series" (P12) before using.
- Tube should be securely pushed into the fitting, otherwise air leakage may occur.

WARNING

- Be sure to confirm that proper conditions are met, otherwise air leakage may occur.

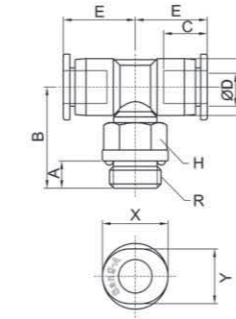
PC-C(G)
Male Straight



MODEL [ØD-T] Tube (Metric) - Thread (G)

MODEL	ØD	R	C	B	ØP	H	A	X	Y	Orifice (Ømm)	W.G(g)	Qty/Inbox
PC 04G-01C	4	G1/8	11.5	15.2	12	10	5	10	8	3	6.3	100
PC 06G-01C	6	G1/8	12.5	17.5	12	10	5	12	10	4	5.5	100

PT-C(G)
Male Branch Tee



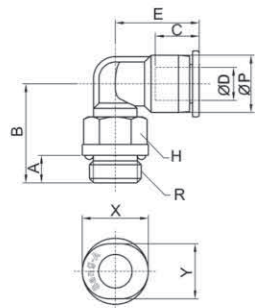
MODEL [ØD-T] Tube (Metric) - Thread (G)

MODEL	ØD	R	C	B	ØP	H	A	E	X	Y	Orifice (Ømm)	W.G(g)	Qty/Inbox
PT 04G-01C	4	G1/8	11.5	16.4	8	10	5	13.1	10	8	2.8	7	100
PT 06G-01C	6	G1/8	12.5	17.4	10.5	10	5	14.4	12	10	3	8.3	100

MODEL [ØD-T] Tube (Metric) - Thread (G)

MODEL	ØD	R	C	B	ØP	H	A	E	X	Y	Orifice (Ømm)	W.G(g)	Qty/Inbox
PL 04G-01C	4	G1/8	11.5	15.6	8	10	5	15.6	10	8	2.8	6.2	100
PL 06G-01C	6	G1/8	12.5	16.9	10.5	10	5	16.9	12	10	3	6.9	100

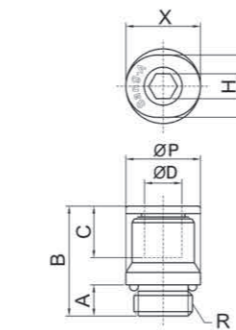
PL-C(G)
Male Elbow



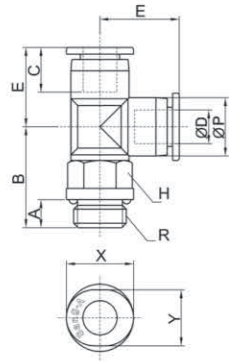
MODEL [ØD-T] Tube (Metric) - Thread (G)

MODEL	ØD	R	C	B	ØP	A	X	Y	Orifice (Ømm)	W.G(g)	Qty/Inbox
POC 04G-01C	4	G1/8	11.5	16.8	12	5	10	8	3	5.4	100
POC 06G-01C	6	G1/8	12.5	16.7	12	5	12	10	4	5.6	100

POC-C(G)
Round Male Straight



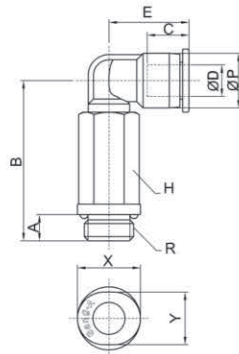
PST-C(G)
Male Run Tee



MODEL [ØD-T] Tube (Metric) – Thread (G)

MODEL	ØD	R	C	B	ØP	H	A	E	X	Y	Orifice (2mm)	W.G(g)	Qty/Inbox
PST04G-01C	4	G1/8	11.5	16.4	8	10	5	13.1	10	8	2.8	7.1	100
PST06G-01C	6	G1/8	12.5	18	10.5	10	5	14.4	12	10	3	8.5	100

PLL-C(G)
Extended Male Elbow



MODEL [ØD-T] Tube (Metric) – Thread (G)

MODEL	ØD	R	C	B	ØP	H	A	E	X	Y	Orifice (2mm)	W.G(g)	Qty/Inbox
PLL04G-01C	4	G1/8	11.5	28.1	8	10	5	15.6	10	8	2.8	13.2	100
PLL06G-01C	6	G1/8	12.5	29.4	10.5	10	5	16.9	12	10	3	13.7	100

Metric Size G(PF) Thread Type

One -Touch Fittings

Compact One -Touch Fittings

— **Speed Controllers**

Metal Body Speed Controllers

Rotary Joints

Stop Fittings

Check Valves

Ball Valves

Hand Valves

SPEED CONTROLLERS

Application

- Valve used for controlling the operation speed of a driving device.
- Used for movement of machines such as cylinder, pneumatic finger, etc.

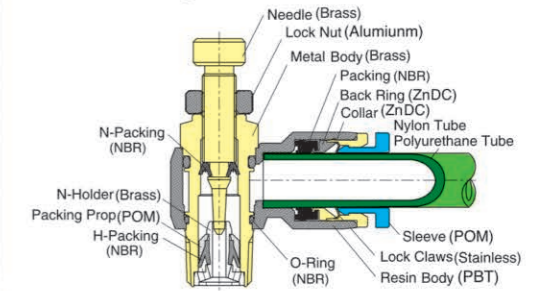
Feature

- Precisely permit the optimal rate of airflow for the smooth cylinder movement of driving devices.
- The Compact and light body permits use in confined space.
- Uni-directional airflow is available for either exhaust or inlet flow control methods.
- The compact design provides a comparable range of speed as the conventional speed controllers do.

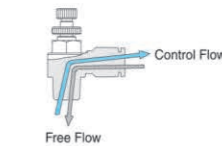
Specification

Fluid	Air(No other gases or liquids)	
Working Pressure Range	0~150PSI	0~9Kgf/cm ² (0~900kPa)
Negative Pressure	7.5PSI	0.5Kgf/cm ² (50kPa)
Temperature Range	32~140° F	0~60° C
Applicable Tube Material	Polyurethane and Nylon	

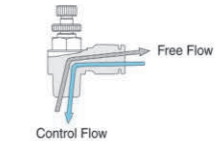
Structural Diagram



Case In Use



- **Out-Type**
- The way to control of airflow from the thread to the sleeve.
 - Air passes freely from the sleeve to the thread.



- **In-Type**
- The way to control of airflow from the sleeve to the thread.
 - Air passes freely from the thread to the sleeve.



- **Flat-Type**
- The way to control of Free Flow or Control Flow upon piping in accordance with the signal on the body.
 - Air flows from each side of sleeve.

Product Code System

NSE O8-GO2 O

① ② ③ ④

① Type

② Tube Dia(∅D)

Code	03	04	06	08	10	12
Dia	∅3	∅4	∅6	∅8	∅10	∅12

③ Thread Size(T)

Code	Metric Size		Taper Pipe Thread			
	M3	M5	G01	G02	G03	G04
Size	M3×0.5	M5×0.8	R1/8	R1/4	R3/8	R1/2

④ Control Method

Type	Meter out		Meter in	
	Standard Blue	Compact Black	Standard Red	Compact Red
Symbol				

CAUTION

- Be sure to read "Common Precautions" and "Using Precautions of Fitting Series"(P12) before using.
- Never remove the needle by force. It causes separation of the needle from the body.
- There can be a slight leakage, therefore do not use in applications requiring zero air flow rate.

WARNING

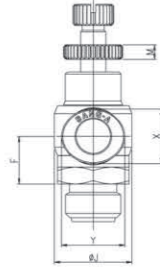
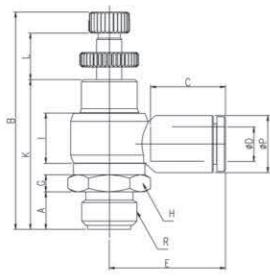
- Be sure to use after confirming structural diagram and control direction of each controller, otherwise fittings may result in damage.
- Never roll or turn the body by force.
- When controlling the objective machine's speed, slowly open the needle of speed controller from the closed position.

GNSE-G
Male Straight



MODEL [ØD-T] Tube (Metric) - Thread (G)

MODEL	ØD	R	ØP	A	B	C	E	F	G	H	I	ØJ	K	L	M	X	Y	W.G(g)	Qty/Inbox
GNSE 04G01	4	G1/8	9	6.4	42.6	14.5	20.9	9.9	4	14	12.2	14.4	28.1	10.5	3.5	8.6	10.8	20.8	50
GNSE 04G02	4	G1/4	9	9	51.7	14.5	22.8	12.4	4	17	12	18.4	35.6	11.1	3.5	8.6	10.8	22	50
GNSE 06G01	6	G1/8	11.2	6.4	42.6	15.5	22	9.9	4	14	12.2	14.4	28.1	10.5	3.5	11	13	21.6	50
GNSE 06G02	6	G1/4	11.2	9	51.7	15.5	24	12.4	4	17	12	18.4	35.6	11.1	3.5	11	13	39.8	50
GNSE 06G03	6	G3/8	11.2	10.7	58.3	15.5	26	15.3	5	20	15.7	22	41.3	12	3.5	11	13	72.5	25
GNSE 08G01	8	G1/8	13.6	6.4	42.6	17.8	25.1	8.9	4	14	12.2	14.4	28.1	10.5	3.5	13	15	22.6	50
GNSE 08G02	8	G1/4	13.6	9	51.7	17.8	27.6	11.3	4	17	12	18.4	35.6	11.1	3.5	13	15	44.6	50
GNSE 08G03	8	G3/8	13.6	10.7	58.3	17.8	28.6	15.9	5	20	15.7	22	41.3	12	3.5	13	15	73.4	25
GNSE 08G04	8	G1/2	13.6	13	61.8	17.8	31.6	16.7	6	24	18	28	44.8	12	3.5	13	15	100.1	25
GNSE 10G02	10	G1/4	16.3	9	51.7	19.4	29.6	9.8	4	17	12	18.4	35.6	11.1	3.5	16	18.5	47.6	25
GNSE 10G03	10	G3/8	16.3	10.7	58.3	19.4	30	14.3	5	20	15.7	22	41.3	12	3.5	16	18.5	76.3	25
GNSE 10G04	10	G1/2	16.3	13	61.8	19.4	32.9	15.1	6	24	18	28	44.8	12	3.5	16	18.5	103.2	20
GNSE 12G03	12	G3/8	19.7	10.7	58.3	22.4	35.9	12.6	5	20	15.7	22	41.3	12	3.5	19.5	22.5	79.4	20
GNSE 12G04	12	G1/2	19.7	13	61.8	22.4	38.9	13.4	6	24	18	28	44.8	12	3.5	19.5	22.5	106.1	20

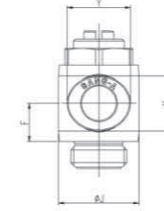
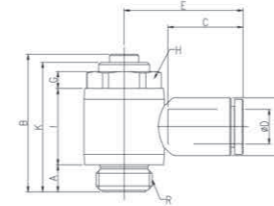


GNSH-G
Elbow G-Thread



MODEL [ØD-T] Tube (Metric) - Thread (G)

MODEL	ØD	R	ØP	A	B	C	E	F	G	H	I	ØJ	K	X	Y	W.G(g)	Qty/Inbox
GNSH 04G01	4	G1/8	9	5	30	14.5	21.5	7.3	4	13	14.5	14	28.5	8.6	10.8	19.2	50
GNSH 04G02	4	G1/4	9	6	32.5	14.5	24	9	4	16	18	19	30.6	8.6	10.8	31.3	50
GNSH 04G03	4	G3/8	9	7	45.2	14.5	25.7	10.5	6.5	20	21	22.4	42.5	8.6	10.8	71.2	25
GNSH 06G01	6	G1/8	11.2	5	30	15.5	22.5	7.3	4	13	14.5	14	28.5	11	13	19.9	50
GNSH 06G02	6	G1/4	11.2	6	32.5	15.5	25	9	4	16	18	19	30.6	11	13	32.1	50
GNSH 06G03	6	G3/8	11.2	7	45.2	15.5	26.7	10.5	6.5	20	21	22.4	42.5	11	13	72.0	25
GNSH 08G01	8	G1/8	13.6	5	30	17.8	25.6	8	4	13	14.5	14	28.5	13	15	21.2	50
GNSH 08G02	8	G1/4	13.6	6	32.5	17.8	28.1	9	4	16	18	19	30.6	13	15	33.4	50
GNSH 08G03	8	G3/8	13.6	7	45.2	17.8	29.8	10.5	6.5	20	21	22.4	42.5	13	15	72.4	25
GNSH 08G04	8	G1/2	13.6	8.5	51.7	17.8	32.1	11	7	24	22	27	49	13	15	103.8	20
GNSH 10G02	10	G1/4	16.3	6	32.5	19.4	28.9	9.7	4	16	18	19	30.6	16	18.5	36.3	25
GNSH 10G03	10	G3/8	16.3	7	45.2	19.4	30.6	10.5	6.5	20	21	22.4	42.5	16	18.5	74.4	25
GNSH 10G04	10	G1/2	16.3	8.5	51.7	19.4	32.9	11	7	24	22	27	49	16	18.5	104.9	20
GNSH 12G03	12	G3/8	19.7	7	45.2	22.4	35.9	11.9	6.5	20	21	22.4	42.5	19.5	22.5	78.8	25
GNSH 12G04	12	G1/2	19.7	8.5	51.7	22.4	38.2	11.9	7	24	22	27	49	19.5	22.5	109.3	20



Metric Size G(PF) Thread Type

One -Touch Fittings

Compact One -Touch Fittings

Speed Controllers

— Metal Body Speed Controllers

Rotary Joints

Stop Fittings

Check Valves

Ball Valves

Hand Valves

METAL BODY SPEED CONTROLLERS

Application

- Valve used for controlling the operation speed of a driving device.
- Using the pipe which connected to actuator

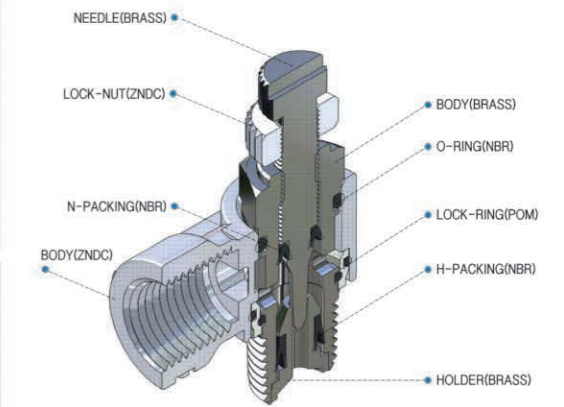
Feature

- Reduce the number and cost of the plumber
- Piping can be set freely
- Easy speed control, permit constant speed in low flow area.
- Needle valve leak prevention appliance

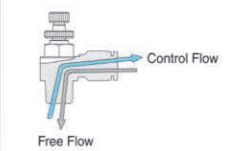
Specification

Fluid	Air (No other gases or liquids)
Working Pressure Range	9kgf/cm ² (0.9Mpa)
Negative Pressure	1kgf/cm ² (0.1Mpa)
Temperature Range	-750mmHg(10Torr)
Applicable Tube Material	0~60 ° C

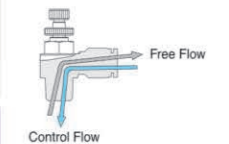
Structural Diagram



Case In Use



- **Out-Type**
- The way to control of airflow from the thread to the sleeve.
 - Air passes freely from the sleeve to the thread.



- **In-Type**
- The way to control of airflow from the sleeve to the thread.
 - Air passes freely from the thread to the sleeve.

CAUTION

- Be sure to read “Common Precautions” and “Using Precautions of Fitting Series”(P12) before using.
- Never remove the needle by force. It causes separation of the needle from the body.
- There can be a slight leakage, therefore do not use in applications requiring zero air flow rate.

WARNING

- Be sure to use after confirming structural diagram and control direction of each controller, otherwise fittings may result in damage.
- Never roll or turn the body by force.
- When controlling the objective machine's speed, slowly open the needle of speed controller from the closed position.

Product Code System

NSL O2 - O

① Type ① ② ③

② Tube Dia(∅D)
• Metric Size & Taper Pipe Thread

Section		Metric Size	Taper Pipe Thread			
		M5	01	02	03	04
Diameter	Cylinder direct	M5 X 0.8	R(PT)1/8	R(PT)1/4	R(PT)3/8	R(PT)1/2
	Tube direct		Rc(PT)1/8	Rc(PT)1/4	Rc(PT)3/8	Rc(PT)1/2

• Parallel Pipe Thread

Section		Taper Pipe Thread			
		G01	G02	G03	G04
Diameter	Cylinder direct	PF 1/8	PF 1/4	PF 3/8	PF 1/2
	Tube direct	PF 1/8	PF 1/4	PF 3/8	PF 1/2

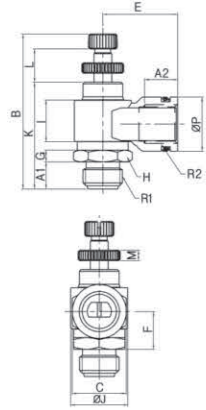
• Unified Fine Thread & American Standard Taper Pipe Thread

Section		Unified Fine Thread	American Standard Taper Pipe Thread(Inch)			
		U10	N01	N02	N03	N04
Diameter	Cylinder direct	10-32UNF	NPT 1/8	NPT 1/4	NPT 3/8	NPT 1/2
	Tube direct	10-32UNF	NPT 1/8	NPT 1/4	NPT 3/8	NPT 1/2

③ Control Method

Type	Meter out	Meter in
Symbol		

NSL-G
Elbow G-Thread



MODEL [ØD-T] Tube (Metric) – Thread (G)

MODEL	R1	R2	ØP	A1	A2	B	C	E	F	G	H	I	ØJ	K	L	M	W.G(g)	Qty/ Inbox
NSL G01	G1/8	G1/8	14	6.4	8.5	42.6	14	18	9.1	4	14	12.2	14.6	28.1	10.5	3.5	29.7	50
NSL G02	G1/4	G1/4	18	9	11	51.7	18	25	12.6	4	17	14	19	35.6	11.1	3.5	65.1	50
NSL G03	G3/8	G3/8	22	10.7	12	58.3	22	30	14.5	5	20	15.7	24	41.3	12	3.5	110.5	25
NSL G04	G1/2	G1/2	27	13	15	61.8	27	35.5	15.7	6	24	20	29	44.8	12	3.5	165.5	20

Metric Size G(PF) Thread Type

- One -Touch Fittings
- Compact One -Touch Fittings
- Speed Controllers
- Metal Body Speed Controllers
- **Rotary Joints**
- Stop Fittings
- Check Valves
- Ball Valves
- Hand Valves

ROTARY JOINTS

Application

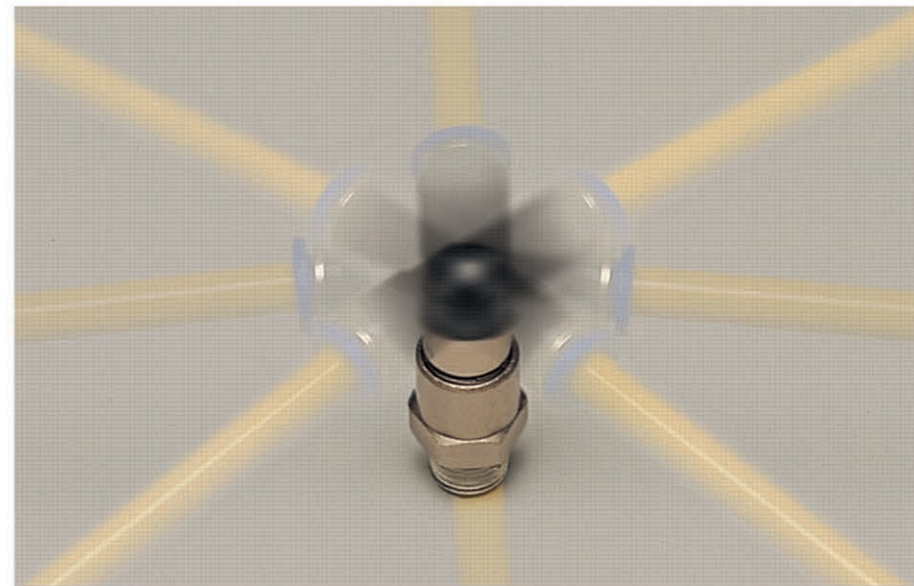
- Used for supplying compressed air at swiveling or swinging connections.
- Used for index tables and industrial robots.

Feature

- Built in bearings, suitable for high-speed swiveling pneumatic connections..

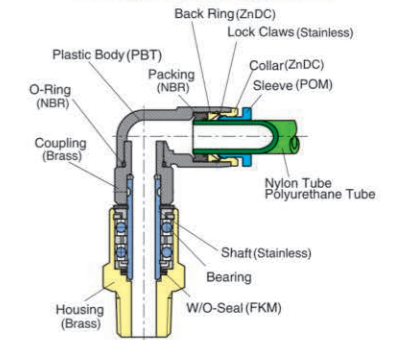
Specification

Fluid	Air(No other gases or liquids)	
Working Pressure Range	0~150PSI	0~9Kgf/cm ² (0~900kPa)
Negative Pressure	-29.50 in Hg	-750mmHg(10Torr)
Temperature Range	32~140° F	0~60° C
Applicable Tube Material	Polyurethane and Nylon	

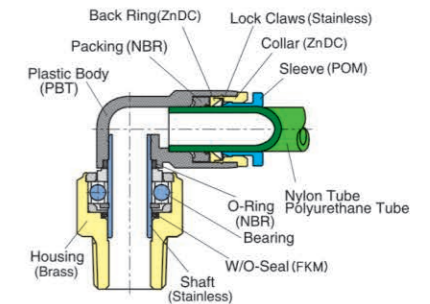


Structural Diagram

▼High Rotary Joint



▼Rotary Joint



Product Code System

NHRC 06-G01

① ② ③

① Type

② Tube Dia(∅D)

Code	04	06	08	10	12
Dia	∅4	∅6	∅8	∅10	∅12

③ Thread Size(T)

	Metric Size		Taper Pipe Thread			
Code	M5	M6	G01	G02	G03	G04
Size	M5×0.8	M6×1.0	R1/8	R1/4	R3/8	R1/2

Number of Rotations

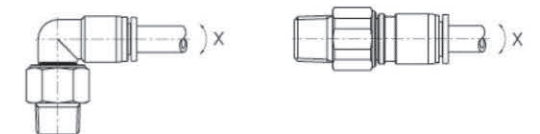
	Tube Dia	∅4	∅6	∅8	∅10	∅12	
r.p.m	Low	NRC, NRL	500	500	400	300	250
	High	NHRC, NHRL, NHRS, NHRF	1,500	1,200	1,200	1,000	1,000

⚠ CAUTION

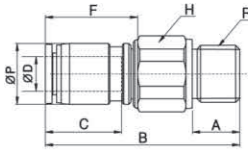
-Be sure to read "Common Precautions" and "Using Precautions of Fitting Series" (P12) before using.

⚠ WARNING

-When using at high speed, use PU tube.
-Nylon or other hard tube can cause overload of the rotation.



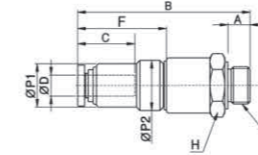
NRC-G
Straight



MODEL [ØD-T] Tube (Metric) - Thread (G)

MODEL	ØD	R	F	ØP	C	A	B	H	RPM	Orifice (mm)	W.G(g)	Qty/Inbox
NRC 04-G01	4	G1/8	17.7	10.4	16	6	33.4	14	500	3	16	100
NRC 06-G01	6	G1/8	18.5	12.4	17	6	38.5	14	500	4	16	50
NRC 06-G02	6	G1/4	20.2	12.4	17	8	38.5	17	500	4	20.5	50
NRC 08-G01	8	G1/8	20.2	14.4	18.5	6	43.6	17	400	6	29	50
NRC 08-G02	8	G1/4	20.2	14.4	18.5	8	45.6	17	400	6	29.5	50
NRC 08-G03	8	G3/8	22.8	14.4	18.5	10	47.6	21	400	6	37.5	50
NRC 10-G03	10	G3/8	29.6	18	21	10	54.1	22	300	7.5	65.7	25
NRC 10-G04	10	G1/2	29.6	18	21	12	55.6	24	300	7.5	75	25
NRC 12-G03	12	G3/8	31.5	21.8	22	10	61.5	24	250	9	93	25
NRC 12-G04	12	G1/2	31.5	21.8	22	12	58.5	24	250	9	100.1	25

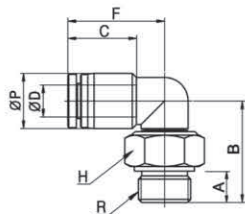
NHRC-G
Straight



MODEL [ØD-T] Tube (Metric) - Thread (G)

MODEL	ØD	R	F	C	B	ØP1	ØP2	A	H	RPM	Orifice (mm)	W.G(g)	Qty/Inbox
NHRC 04-G01	4	G1/8	21.7	16	50	10.4	11	6	14	1500	3	28.2	50
NHRC 06-G01	6	G1/8	24	17	50.3	13	15	6	17	1500	4	27	50
NHRC 06-G02	6	G1/4	24	17	52.3	13	15	8	17	1200	4	55.4	50
NHRC 08-G01	8	G1/8	24.3	18.5	50.3	14.4	15	6	17	1200	6	51.5	50
NHRC 08-G02	8	G1/4	24.3	18.5	52.3	14.4	15	8	17	1200	6	57.4	50
NHRC 08-G03	8	G3/8	24.3	18.5	53.8	14.4	15	10	21	200	6	58.1	25
NHRC 10-G03	10	G3/8	29.3	21	62.8	18	20	10	24	1000	7.5	114.1	25
NHRC 10-G04	10	G1/2	29.3	21	63.8	18	20	12	24	1000	7.5	130.1	25
NHRC 12-G03	12	G3/8	32	22	55.0	21.8	20	10	24	1000	9	119.1	25
NHRC 12-G04	12	G1/2	32	22	67.5	21.8	20	12	24	1000	9	135.2	25

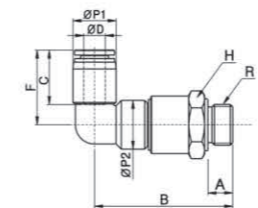
NRL-G
Elbow



MODEL [ØD-T] Tube (Metric) - Thread (G)

MODEL	ØD	R	F	ØP	C	A	B	H	RPM	Orifice (mm)	W.G(g)	Qty/Inbox
NRL 04-G01	4	G1/8	20.2	10.4	16	6	22	14	500	3	12.3	100
NRL 06-G01	6	G1/8	22.9	12.4	17	6	26.2	14	500	4	17.6	50
NRL 06-G02	6	G1/4	22.9	12.4	17	8	26.2	17	500	4	22.2	50
NRL 08-G01	8	G1/8	25.9	14.4	18.5	6	30.6	17	400	6	29	50
NRL 08-G02	8	G1/4	25.9	14.4	18.5	8	32.6	17	400	6	31.7	50
NRL 08-G03	8	G3/8	25.9	14.4	18.5	10	34.6	21	400	6	40.8	50
NRL 10-G03	10	G3/8	29.8	17.6	21	10	33.3	22	300	7.5	62.9	25
NRL 10-G04	10	G1/2	29.8	17.6	21	12	34.8	24	300	7.5	73.1	25
NRL 12-G03	12	G3/8	32.7	21	22.5	10	40.5	24	250	9	81	25
NRL 12-G04	12	G1/2	32.7	21	22.5	12	37.5	24	250	9	87.6	25

NHRL-G
Elbow

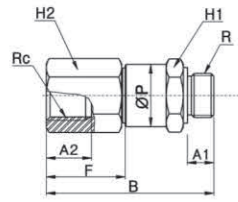


MODEL [ØD-T] Tube (Metric) - Thread (G)

MODEL	ØD	R	F	C	B	ØP1	ØP2	A	H	RPM	Orifice (mm)	W.G(g)	Qty/Inbox
NHRL 04-G01	4	G1/8	20.2	16	35.5	10	11	6	14	1500	3	23	50
NHRL 06-G01	6	G1/8	22.9	17	42.2	12.4	14	6	17	1500	4	43.3	50
NHRL 06-G02	6	G1/4	22.9	17	43.2	12.4	14	8	17	1200	4	57.2	50
NHRL 08-G01	8	G1/8	25.9	18.5	42.2	14.4	14	6	17	1200	6	45.3	50
NHRL 08-G02	8	G1/4	25.9	18.5	43.2	14.4	14	8	17	1200	6	50.3	50
NHRL 10-G03	10	G3/8	29.8	21	53.3	17.6	20	10	24	1000	7.5	105.9	20
NHRL 10-G04	10	G1/2	29.8	21	55.3	17.6	20	12	24	1000	7.5	121.5	20
NHRL 12-G03	12	G3/8	33.7	22.5	55	21	20	10	24	1000	9	110.2	20
NHRL 12-G04	12	G1/2	33.7	22.5	57	21	20	12	24	1000	9	125.8	20

NHRF-G

Bush



MODEL[ØD-T] Tube(Metric)-Thread(G)

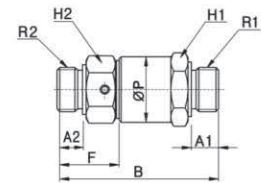
MODEL	R	Rc	F	B	ØP	A1	A2	H1	H2	RPM	Orifice (mm)	W.G(g)	Qty/Inbox
NHRF G01-G01	G1/8	G1/8	21	49	16.5	8	9	17	14	1200	6	48.2	50
NHRF G01-G02	G1/8	G1/4	24	52	16.5	8	12	17	17	1200	6	50	50
NHRF G02-G01	G1/4	G1/8	21	52	16.5	11	9	17	14	1200	6	60.5	50
NHRF G02-G02	G1/4	G1/4	24	55	16.5	11	12	17	17	1200	6	63.6	50
NHRF G03-G03	G3/8	G3/8	28	63.5	23.5	12	13	24	22	1000	9	126.8	25
NHRF G03-G04	G3/8	G1/2	31	66.5	23.5	12	16	24	24	1000	9	131	25
NHRF G04-G03	G1/2	G3/8	28	66.5	23.5	15	13	24	22	1000	9	145	25
NHRF G04-G04	G1/2	G1/2	31	69.5	23.5	15	16	24	24	1000	9	150.3	25

Rotary Joints

Rotary Joints

NHRS-G

Nipple



MODEL[ØD-T] Tube(Metric)-Thread(G)

MODEL	R1	R2	F	B	ØP	A1	A2	H1	H2	RPM	Orifice (mm)	W.G(g)	Qty/Inbox
NHRS G01-G01	G1/8	G1/8	21	49	16.5	8	8	17	14	1200	6	43.7	50
NHRS G01-G02	G1/8	G1/4	24	52	16.5	8	11	17	14	1200	6	52	50
NHRS G02-G01	G1/4	G1/8	21	52	16.5	11	8	17	14	1200	6	52	50
NHRS G02-G02	G1/4	G1/4	24	55	16.5	11	11	17	14	1200	6	55.3	50
NHRS G03-G03	G3/8	G3/8	28	63.5	23.5	12	12	24	22	1000	9	120.2	25
NHRS G03-G04	G3/8	G1/2	31	66.5	23.5	12	15	24	22	1000	9	135	25
NHRS G04-G03	G1/2	G3/8	28	66.5	23.5	15	12	24	22	1000	9	135	25
NHRS G04-G04	G1/2	G1/2	31	69.5	23.5	15	15	24	22	1000	9	150	25

Metric Size G(PF) Thread Type

- One -Touch Fittings
- Compact One -Touch Fittings
- Speed Controllers
- Metal Body Speed Controllers
- Rotary Joints
- **Stop Fittings**
- Check Valves
- Ball Valves
- Hand Valves

STOP FITTINGS

Application

- Installed where the pneumatic connections are changed frequently.
- Used at laboratory or for instructing pneumatic connections.

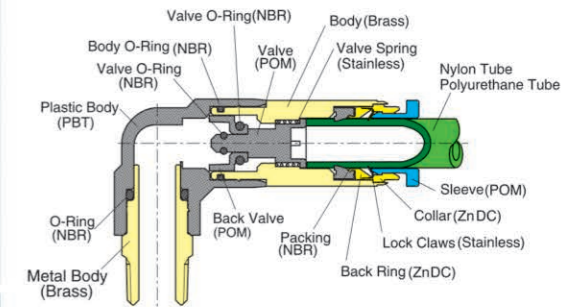
Feature

- Upon disconnecting the tube, the airflow will stop.

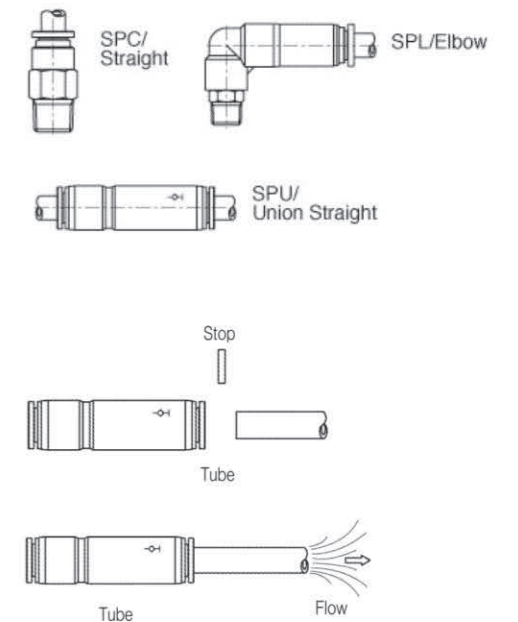
Specification

Fluid	Air(No other gases or liquids)	
Working Pressure Range	0~150PSI	0~9Kgf/cm ² (0~900kPa)
Negative Pressure	-29.50 in Hg	-750mmHg(10Torr)
Temperature Range	32~140° F	0~60° C
Applicable Tube Material	Polyurethane and Nylon	

Structural Diagram



Control Method



Product Code System

SPC 06-G01

① ② ③

① Type

② Tube Dia(∅D)

Code	04	06	08	10	12
Dia	∅4	∅6	∅8	∅10	∅12

③ Thread Size(T)

	Metric Size		Taper Pipe Thread			
Code	M5	M6	G 01	G02	G03	G04
Size	M5 × 0.8	M6 × 1.0	R1/8	R1/4	R3/8	R1/2

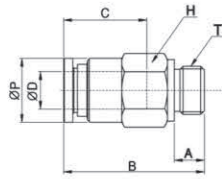
CAUTION

- Be sure to read the "Common Precautions" and "Using Precautions of Fitting Series" (P12) before using.
- Be sure to confirm the direction of the stop instrument.

WARNING

- Be careful of spring-up of the tube in case of disconnection when the pressure is on in the stop fitting.

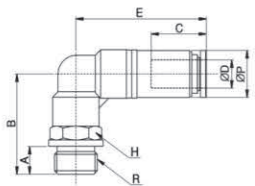
SPC-G
Straight



MODEL[ØD-T] Tube(Metric)-Thread(G)

MODEL	ØD	R	H	C	ØP	B	A	W.G(g)	Qty/ Inbox
SPC 04-G01	4	G1/8	14	16	10	26.6	6	10.5	100
SPC 06-G01	6	G1/8	14	17	12	26.9	6	12.7	100
SPC 06-G02	6	G1/4	17	17	13	29.4	8	21.3	50
SPC 08-G01	8	G1/8	17	18.5	14	31.8	8	24	50
SPC 08-G02	8	G1/4	17	18.5	14	33.8	8	20.4	50
SPC 08-G03	8	G3/8	21	18.5	17	33.8	10	38.7	50
SPC 10-G02	10	G1/4	17	21	17	37.3	8	29.4	50
SPC 10-G03	10	G3/8	21	21	17	38.3	10	34.3	50
SPC 10-G04	10	G1/2	24	21	18	38.3	12	61	50
SPC 12-G03	12	G3/8	21	22	20.2	46	10	58.8	25
SPC 12-G04	12	G1/2	24	22	20.2	49	12	66.9	25

SPL-G
Elbow



MODEL[ØD-T] Tube(Metric)-Thread(G)

MODEL	ØD	R	C	E	ØP	B	H	A	W.G(g)	Qty/ Inbox
SPL 04-G01	4	G1/8	16	30.7	10	25.6	10	6	19.7	50
SPL 06-G01	6	G1/8	17	31.9	12.8	25	12	6	20.5	50
SPL 06-G02	6	G1/4	17	31.9	12.8	28	14	6	30.6	50
SPL 08-G01	8	G1/8	18.5	40.8	14.4	27	14	8	32	50
SPL 08-G02	8	G1/4	18.5	40.8	14.4	31	14	8	39.2	50
SPL 08-G03	8	G3/8	18.5	40.8	14.4	34	17	10	48.8	50
SPL 10-G02	10	G1/4	21	47.6	17.6	35	17	8	56.2	25
SPL 10-G03	10	G3/8	21	47.6	17.6	38	17	10	65.9	25
SPL 10-G04	10	G1/2	21	47.6	17.6	40	19	12	89.5	25
SPL 12-G03	12	G3/8	22	55.5	21	38.9	21	10	83.7	25
SPL 12-G04	12	G1/2	22	55.5	21	41.9	21	12	106.6	25

Metric Size G(PF) Thread Type

- One -Touch Fittings
- Compact One -Touch Fittings
- Speed Controllers
- Metal Body Speed Controllers
- Rotary Joints
- Stop Fittings
- **Check Valves**
- Ball Valves
- Hand Valves

CHECK VALVES

Application

- Check Valves permit airflow in one direction.
- Used for maintaining the output pressure at a constant level.

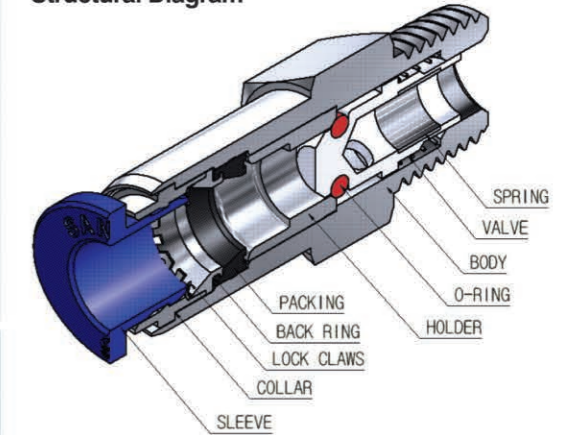
Feature

- The check valves permit the airflow in one direction but stops in the reverse direction.
- The check valve works at the pressure of 0.1kgf/cm², keeps 1.42 PSI in vacuum and connects at a low pressure.

Specification

Fluid	AIR (No other gases or liquids)	
Working Pressure Range	0~284PSI	0 ~ 20Kg/cm ² (0~1960kPa)
Negative Pressure	-29.50 in Hg	-750mmHg(10Torr)
Temperature Range	32~176° F	0~80° C
Applicable Tube Material	Polyurethane and Nylon	

Structural Diagram



Product Code System

GPCVC O6 - G01 O

① Type ② Tube Dia(∅D)

Code	04	06	08	10	12
Dia	∅4	∅6	∅8	∅10	∅12

③ Thread Size(T)

Code	Metric Size		Taper Pipe Thread			
	M5	M6	G01	G02	G03	G04
Size	M5 × 0.8	M6 × 1.0	R1/8	R1/4	R3/8	R1/2

④ Control Method

Type	Meter IN Thread to Tube	Meter OUT Tube to Thread
PCVC		
PCVF		
PCVU	In case of PCVU model, you should pipe according to signal of the body.	

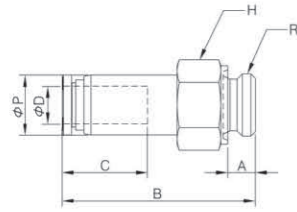
CAUTION

- Be sure to read the "Common Precautions" and "Using Precautions of Fitting Series" (P12) before using.
- Be sure to confirm the direction of the stop instrument. Reverse direction will not allow airflow.

WARNING

- Be careful of a scald by the heat generation on the body for the high frequency of stop circulation effect.

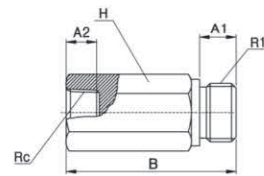
GPCVC-G
Straight



MODEL[ØD-T] Tube(Metric)-Thread(G)

MODEL	ØD	R	H	C	ØP	B	A	W.G(g)	Qty/Inbox
GPCVC 04G01	4	G1/8	14	16	8.8	25.9	5	15.5	100
GPCVC 06G01	6	G1/8	14	17	11	36.05	5	19.2	100
GPCVC 06G02	6	G1/4	17	17	11	32.25	6	28.1	50
GPCVC 08G01	8	G1/8	14	18.5	13	36.4	5	23.2	50
GPCVC 08G02	8	G1/4	17	18.5	13	41.9	6	32.8	50
GPCVC 10G03	10	G3/8	24	21	25	57.7	7	43	20
GPCVC 10G04	10	G1/2	27	21	28	63	8.5	54.2	20
GPCVC 12G03	12	G3/8	24	22	25	60.5	7	48.1	20
GPCVC 12G04	12	G1/2	27	22	28	66	8.5	61.1	20

PCVF-G
Bush



MODEL[ØD-T] Tube(Metric)-Thread(G)

MODEL	R1	Rc	H	A1	A2	B	W.G(g)	Qty/Inbox
PCVF G01-G01	G1/8	G1/8	14	6	9	22.8	22	100
PCVF G02-G02	G1/4	G1/4	17	8	11	28.5	40.5	50
PCVF G03-G03	G3/8	G3/8	24	10	13	54.3	60	25
PCVF G04-G04	G1/2	G1/2	27	12	16	63.1	80.4	25

Metric Size G(PF) Thread Type

- One -Touch Fittings
- Compact One -Touch Fittings
- Speed Controllers
- Metal Body Speed Controllers
- Rotary Joints
- Stop Fittings
- Check Valves
- **Ball Valves**
- Hand Valves

BALL VALVES

Application

- Used for controlling air supply in the opened and closed positions.

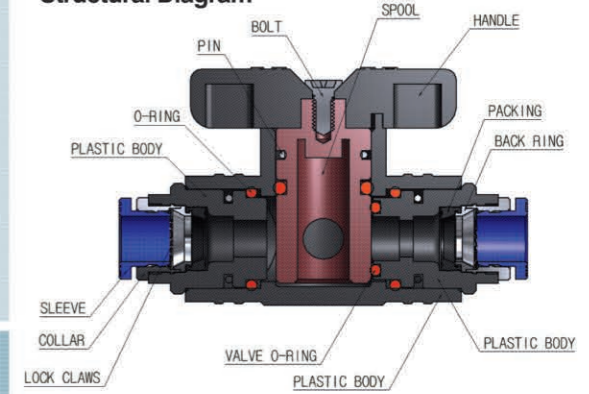
Feature

- Available for water as well as air with PPS resin body.
- The sectional dimension of the compact body optimizes as much flow as the tube capacity in proportion.

Specification

Fluid	Air & Water	
Working Pressure Range	0 ~ 284PSI	
Negative Pressure	-29.5 in Hg	-750mmHg(10Torr)
Temperature Range	32~176° F	0~80° C
Applicable Tube Material	Polyurethane and Nylon	

Structural Diagram



Product Code System

GBC 20-08-G02

① Type ② ③ ④

- ① Type
- ② Effective Sectional Area

	Metric Size	
Code	20	60
Size	20mm ²	60mm ²

- ③ Tube Dia(∅D)

Code	06	08	10	12
Dia	∅6	∅8	∅10	∅12

- ④ Thread Size(T)

	Taper Pipe Thread			
Code	G01	G02	G03	G04
Size	R1/8	R1/4	R3/8	R1/2

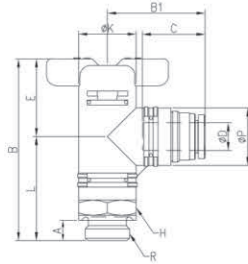
⚠ CAUTION

- Be sure to read the "Common Precautions" and "Using Precautions of Fitting Series"(P12) before using.
- Be sure to turn at a right angle(90°) when operating handle, otherwise it may cause the shortage of fluid.

⚠ WARNING

- When using with water, the pressure must not exceed 0~3kgf/cm².
Be sure not to use in a place of vibration, bending, or shocking.
- Be sure to confirm that the Lock Pin is applied correctly. Without the Lock Pin, the body can be disassembled.

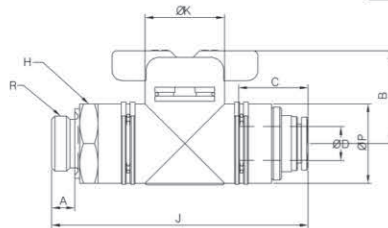
GBL-G
Elbow



MODEL[ØD-T] Tube(Metric)-Thread(G)

MODEL	R	C	ØP	E	L	A	ØK	H	B	B1	W.G(g)	Qty/ Inbox
GBL 20-06G01	G1/8	17	17	23	29.75	5	17	17	52.75	27.7	31	25
GBL 20-06G02	G1/4	17	17	23	30.75	6	17	17	53.75	27.7	36	25
GBL 20-06G03	G3/8	17	17	23	31.75	7	17	17	54.75	27.7	41.9	25
GBL 20-08G01	G1/8	18.5	17	23	29.75	5	17	17	52.75	28.85	31.4	25
GBL 20-08G02	G1/4	18.5	17	23	30.75	6	17	17	53.75	28.85	34.4	25
GBL 20-08G03	G3/8	18.5	17	23	31.75	7	17	17	54.75	28.85	42.3	25
GBL 60-10G02	G1/4	21	24	28	40.1	6	24	24	68.1	38.1	93	12
GBL 60-10G03	G3/8	21	24	28	41.1	7	24	24	69.1	38.1	98	12
GBL 60-10G04	G1/2	21	24	28	42.6	8.5	24	24	70.6	38.1	105.4	12
GBL 60-12G02	G1/4	22	24	28	40.1	6	24	24	68.1	41	95.4	12
GBL 60-12G03	G3/8	22	24	28	41.1	7	24	24	69.1	41	100.4	12
GBL 60-12G04	G1/2	22	24	28	42.6	8.5	24	24	70.6	41	108.1	12

GBC-G
Straight



MODEL[ØD-T] Tube(Metric)-Thread(G)

MODEL	ØD	R	C	ØP	A	H	J	ØK	B	W.G(g)	Qty/ Inbox
GBC 20-06G01	6	G1/8	17	17	5	17	57.35	17	23	32.1	25
GBC 20-06G02	6	G1/4	17	17	6	17	58.35	17	23	37.1	25
GBC 20-06G03	6	G3/8	17	17	7	21	59.35	17	23	42.9	25
GBC 20-08G01	8	G1/8	18.5	17	5	17	58.5	17	23	32.5	25
GBC 20-08G02	8	G1/4	18.5	17	6	17	59.5	17	23	37.5	25
GBC 20-08G03	8	G3/8	18.5	17	7	21	60.5	17	23	43.4	25
GBC 60-10G02	10	G1/4	21	24	6	24	76.4	24	28	94.4	12
GBC 60-10G03	10	G3/8	21	24	7	24	77.4	24	28	99.4	12
GBC 60-10G04	10	G1/2	21	24	8.5	24	78.9	24	28	107.2	12
GBC 60-12G02	12	G1/4	22	24	6	24	79.3	24	28	96.9	12
GBC 60-12G03	12	G3/8	22	24	7	24	80.3	24	28	101.9	12
GBC 60-12G04	12	G1/2	22	24	8.5	24	81.8	24	28	109.6	12

Metric Size G(PF) Thread Type

- One -Touch Fittings
- Compact One -Touch Fittings
- Speed Controllers
- Metal Body Speed Controllers
- Rotary Joints
- Stop Fittings
- Check Valves
- Ball Valves
- Hand Valves

HAND VALVES

Application

- Used for turning air pressure on and off for pneumatic devices.

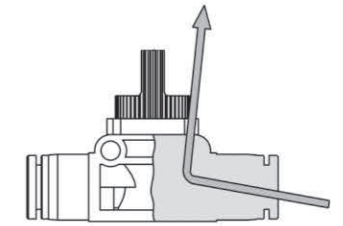
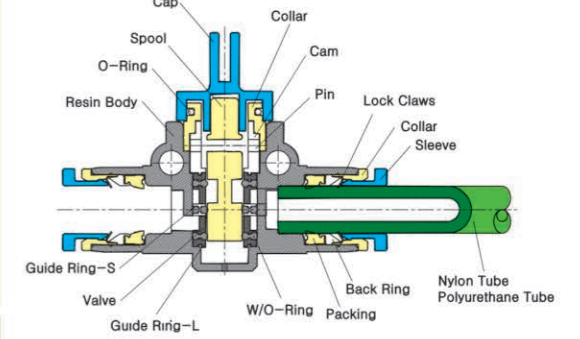
Feature

- When off, the three-way direction control valve discharges the residual pressure and blocks air flow-in.

Specification

Fluid	Air(No other gases or liquids)	
Working Pressure Range	0~284PSI	0~20Kgf/cm ² (0~1960kPa)
Negative Pressure	-29.5 in Hg	-750mmHg(10Torr)
Temperature Range	32~176° F	0~80° C
Applicable Tube Material	Polyurethane and Nylon	

Structural Diagram



► 3 Way Direction, 2 Way Direction

- The three-way direction control valve, when the air is stopped, discharges residual pressure to the outlet, which assures safety in repairing or adjusting connected devices.
- The two-way direction control valve does not discharge residual pressure, and is suitable for a reservoir tank or other device that does not require a discharging residual pressure.
- The two-way direction control valve is also suitable for the system where a vacuum pipe is used.

Product Code System

GHVFS 06 - G01

① Type						
② Tube Dia(∅D)	Code	04	06	08	10	12
	Dia	∅4	∅6	∅8	∅10	∅12
③ Thread Size(T)						
	Code	G01	G02	G03	G04	
	Size	R1/8	R1/4	R3/8	R1/2	

⚠ CAUTION

- Be sure to read the "Common Precautions" and "Using Precautions of Fitting Series" (P12) before using.
- When operating handle, turn at a right angle(90°), otherwise it may cause a shortage of fluid.

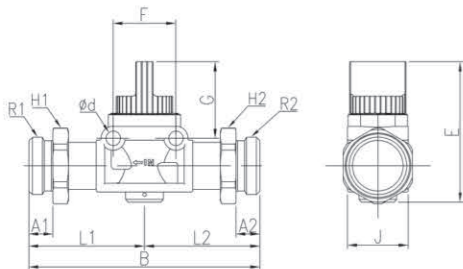
GHVSS-G

Nipple



MODEL [ØD-T] Tube (Metric) - Thread (G)

MODEL	A1	A2	L1	L2	B	E	J	F	H1	H2	R1	R2	Ød	G	W.G(g)	Qty/Inbox
GHVSS G01-G01	5.3	5.3	31.3	31.3	62.6	40.7	17.56	18.2	13	13	G1/8	G1/8	4.2	22.2	29.8	25
GHVSS G02-G01	6	5.3	32.5	31.3	63.8	40.7	17.6	18.2	16	13	G1/4	G1/8	4.2	22.2	34.1	25
GHVSS G02-G02	6	6	32.5	32.5	65	40.7	17.6	18.2	16	16	G1/4	G1/4	4.2	22.2	38.4	25
GHVSS G03-G02	7	6	37.5	39	76.5	40.9	21.2	24	20	16	G3/8	G1/4	4.2	20.1	60	20
GHVSS G03-G03	7	7	37.5	37.5	75	40.9	21.2	24	20	20	G3/8	G3/8	4.2	20.1	60.7	20
GHVSS G04-G03	8.5	7	39	37.5	76.5	40.9	21.2	24	24	20	G1/2	G3/8	4.2	20.1	74.1	20
GHVSS G04-G04	8.5	8.5	39	39	78	40.9	21.2	24	24	24	G1/2	G1/2	4.2	20.1	87.5	20



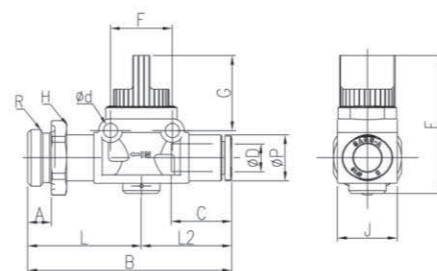
GHVSF-G

Straight G Thread-Fitting



MODEL [ØD-T] Tube (Metric) - Thread (G)

MODEL	ØD	ØP	C	L1	L2	A	B	G	F	H	R	Ød	E	J	W.G(g)	Qty/Inbox
GHVSF 04-01	4	9	14.5	27.8	21.6	5.3	49.4	22.2	18.2	10	G1/8	4.2	40.7	17.6	20.2	25
GHVSF 04-02	4	9	14.5	28.5	21.6	6	50.1	22.2	18.2	14	G1/4	4.2	40.7	17.6	24.5	25
GHVSF 04-03	4	9	14.5	30	21.6	7	51.6	22.2	18.2	17	G3/8	4.2	40.7	17.6	31.5	25
GHVSF 06-01	6	11.2	15.5	30.3	24.5	5.3	54.8	22.2	18.2	11	G1/8	4.2	40.7	17.6	21.8	25
GHVSF 06-02	6	11.2	15.5	31	24.5	6	55.5	22.2	18.2	14	G1/4	4.2	40.7	17.6	26.2	25
GHVSF 06-03	6	11.2	15.5	32.5	24.5	7	57	22.2	18.2	17	G3/8	4.2	40.7	17.6	32.9	25
GHVSF 08-01	8	13.6	17.8	31.3	26.6	5.3	57.9	22.2	18.2	13	G1/8	4.2	40.7	17.6	23.7	25
GHVSF 08-02	8	13.6	17.8	32.5	26.6	6	59.1	22.2	18.2	14	G1/4	4.2	40.7	17.6	28	25
GHVSF 08-03	8	13.6	17.8	33.5	26.6	7	60.1	22.2	18.2	17	G3/8	4.2	40.7	17.6	33.9	25
GHVSF 10-02	10	16.3	19.4	39	30.5	6	69.5	20.1	24	17	G1/4	4.2	40.9	21.2	42.8	20
GHVSF 10-03	10	16.3	19.4	37.5	30.5	7	68	20.1	24	17	G3/8	4.2	40.9	21.2	43.6	20
GHVSF 10-04	10	16.3	19.4	39	30.5	8.5	69.5	20.1	24	21	G1/2	4.2	40.9	21.2	57	20
GHVSF 12-02	12	19.7	22.4	41	33.4	6	74.4	20.1	24	19	G1/4	4.2	40.9	21.2	54.4	20
GHVSF 12-03	12	19.7	22.4	39.5	33.4	7	72.9	20.1	24	19	G3/8	4.2	40.9	21.2	51	20
GHVSF 12-04	12	19.7	22.4	41	33.4	8.5	74.4	20.1	24	21	G1/2	4.2	40.9	21.2	66	20



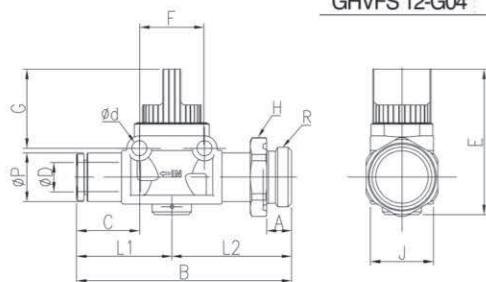
GHVFS-G

Straight Fitting-G Thread



MODEL [ØD-T] Tube (Metric) - Thread (G)

MODEL	ØD	ØP	C	L1	L2	A	B	G	F	H	R	Ød	E	J	W.G(g)	Qty/Inbox
GHVFS 04-G01	4	9	14.5	21.6	27.8	5.3	49.4	22.2	18.2	10	G1/8	4.2	40.7	17.6	20.2	25
GHVFS 04-G02	4	9	14.5	21.6	28.5	6	50.1	22.2	18.2	14	G1/4	4.2	40.7	17.6	24.5	25
GHVFS 04-G03	4	9	14.5	21.6	30	7	51.6	22.2	18.2	17	G3/8	4.2	40.7	17.6	31.5	25
GHVFS 06-G01	6	11.2	15.5	24.5	30.3	5.3	54.8	22.2	18.2	11	G1/8	4.2	40.7	17.6	21.8	25
GHVFS 06-G02	6	11.2	15.5	24.5	31	6	55.5	22.2	18.2	14	G1/4	4.2	40.7	17.6	26.2	25
GHVFS 06-G03	6	11.2	15.5	24.5	32.5	7	57	22.2	18.2	17	G3/8	4.2	40.7	17.6	32.9	25
GHVFS 08-G01	8	13.6	17.8	26.6	31.3	5.3	57.9	22.2	18.2	13	G1/8	4.2	40.7	17.6	23.7	25
GHVFS 08-G02	8	13.6	17.8	26.6	32.5	6	59.1	22.2	18.2	14	G1/4	4.2	40.7	17.6	28	25
GHVFS 08-G03	8	13.6	17.8	26.6	33.5	7	60.1	22.2	18.2	17	G3/8	4.2	40.7	17.6	33.9	25
GHVFS 10-G02	10	16.3	19.4	30.5	39	6	69.5	20.1	24	17	G1/4	4.2	40.9	21.2	42.8	20
GHVFS 10-G03	10	16.3	19.4	30.5	37.5	7	68	20.1	24	17	G3/8	4.2	40.9	21.2	43.6	20
GHVFS 10-G04	10	16.3	19.4	30.5	39	8.5	69.5	20.1	24	21	G1/2	4.2	40.9	21.2	57	20
GHVFS 12-G02	12	19.7	22.4	33.4	41	6	74.4	20.1	24	19	G1/4	4.2	40.9	21.2	54.4	20
GHVFS 12-G03	12	19.7	22.4	33.4	39.5	7	72.9	20.1	24	19	G3/8	4.2	40.9	21.2	51	20
GHVFS 12-G04	12	19.7	22.4	33.4	41	8.5	74.4	20.1	24	21	G1/2	4.2	40.9	21.2	66	20



INSERT FITTING

Application

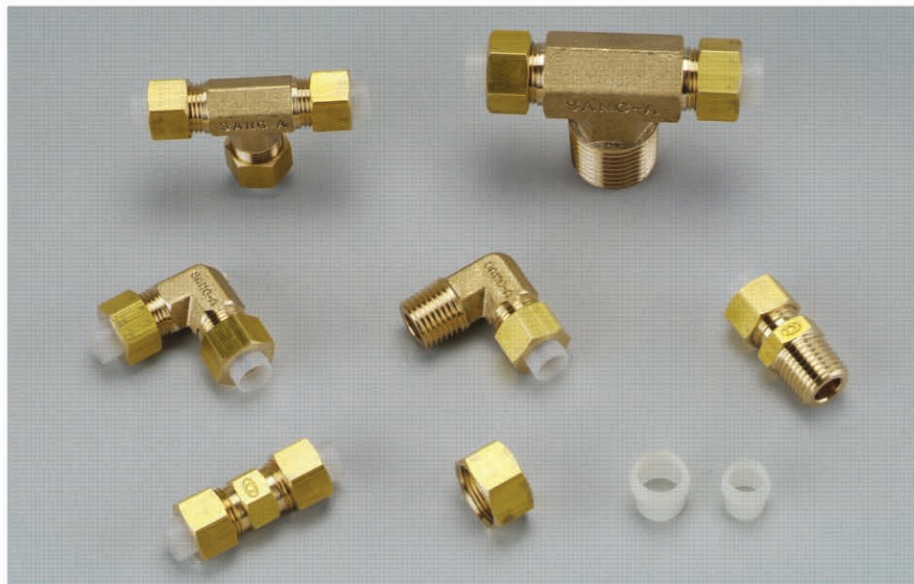
- Lock nut fittings for multi-purpose pipe connection.

Feature

- Lock nut structure provides the semipermanent application.
- Effective use at the place of vibration & negative pressure.
- Excellent application for high temperature place.

Specification

Fluid	Air, Water, Oil		
Working Pressure Range	Equal to Tube working pressure		
Negative Pressure	-29.50 in Hg	-750mmHg(10Torr)	
Temperature Range	-40~176° F	-40~80° C	Air, Oil
	32~158° F	-0~70° C	
Applicable Tube Material	PU, PA Tube		



Product Code System

IC 04 - 02 - 01

① ② ③

① Type

② Tube Dia(∅D)

Code	04	06	08	10	12	16
Dia	∅4	∅6	∅8	∅10	∅12	∅16

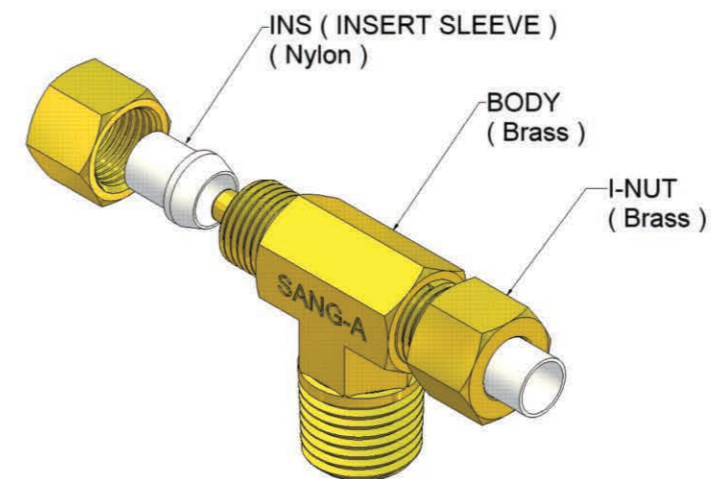
③ Thread Size(T)

		Thread Size			
Code	01	02	03	04	
Size	R1/8	R1/4	R3/8	R1/2	

Insert Fitting



Structural Diagram



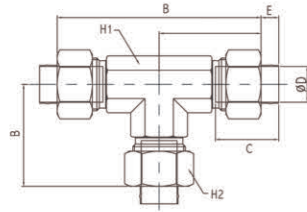
CAUTION

- Be sure to read the "Common Precautions" and "Using Precautions of Fitting Series"(P12) before using.
- Failure of fitting connection causes air leakage or tube disconnection.

WARNING

- Be sure to check the fluid specification.

IUT
Union Tee



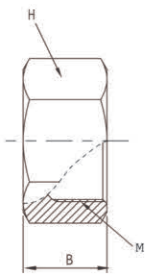
MODEL[ØD-T] Tube(Metric)

MODEL	B1	B2	L	C	E	H1	H2	ØD	W.G(g)	Qty/Inbox
IUT 04-02	20.05	20.05	40.1	13.6	4.55	10	10	4.2	25	50
IUT 06-04	20.3	20.3	40.6	13.8	4.5	10	12	6.2	36	50
IUT 08-05	23.2	23.2	46.4	15.6	4.4	12	14	8.2	51	25
IUT 08-06	23.2	23.2	46.4	15.6	4.4	12	14	8.2	50	25
IUT 10-6.5	28.9	28.9	57.8	17.8	4.9	14	17	10.2	76	25
IUT 10-08	28.9	28.9	57.8	17.8	4.9	14	17	10.2	75	25
IUT 12-08	29.4	29.4	58.8	18.8	5.4	14	19	12.2	94	20
IUT 12-09	29.4	29.4	58.8	18.8	5.4	14	19	12.2	93	20
IUT 16-11	36.3	36.3	72.6	23.3	5.5	18	27	16.2	169.4	20

MODEL[ØD-T] Tube(Inch)

MODEL	B1	B2	L	C	E	H1	H2	ØD	W.G(g)	Qty/Inbox
IUT 1/4	20.3	20.3	40.6	13.8	4.5	10	12	6.55	28	50
IUT 5/16	23.2	23.2	46.4	15.6	4.4	12	14	8.2	42	25
IUT 3/8	28.7	28.7	57.4	17.8	5.1	14	17	9.75	72	25
IUT 1/2	29.55	29.55	59.1	18.8	5.3	14	19	12.9	74	20

INUT



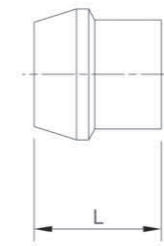
MODEL[ØD-T] Tube(Metric)

MODEL	B	H	M	W.G(g)	Qty/Inbox
INUT 04	9.0	10.0	M8X0.75P	3.7	100
INUT 06	9.0	12.0	M10X1.0P	4.7	100
INUT 08	9.0	14.0	M12X1.0P	5.8	100
INUT 10	10.0	17.0	M15X1.0P	8.9	100
INUT 12	11.0	19.0	M17X1.0P	11.1	100
INUT 16	13.0	27.0	M22X1.0P	33.6	50

MODEL[ØD-T] Tube(Inch)

MODEL	B	H	M	W.G(g)	Qty/Inbox
INUT 1/4	9.0	12.0	M10X1.0P	4.9	100
INUT 5/16	9.0	14.0	M12X1.0P	5.8	100
INUT 3/8	10.0	17.0	M15X1.0P	9.4	100
INUT 1/2	11.0	19.0	M17X1.0P	11.4	100

IMS



MODEL[ØD-T] Tube(Metric)

MODEL	L	W.G(g)	Qty/Inbox
IMS 04	10.0	0.74	100
IMS 06	9.5	1.01	100
IMS 08	10.5	1.52	100
IMS 10	10.7	2.09	100
IMS 12	11.5	2.61	100
IMS 16	13.5	5.32	50

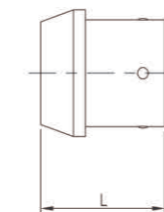
MODEL[ØD-T] Tube(Metric)

MODEL	L	W.G(g)	Qty/Inbox
INS 04	10.3	0.12	100
INS 06	10.5	0.18	100
INS 08	11.3	0.28	100
INS 10	12.5	0.4	100
INS 12	13.5	0.57	100
INS 16	16.0	1.18	50

MODEL[ØD-T] Tube(Inch)

MODEL	L	W.G(g)	Qty/Inbox
INS 1/4	10.5	0.18	100
INS 5/16	10.5	0.28	100
INS 3/8	12.5	0.41	100
INS 1/2	13.5	0.59	100

INS



SILENCERS

Application

- Used for suppressing the noise of air release, applied to exhausted port of machine.

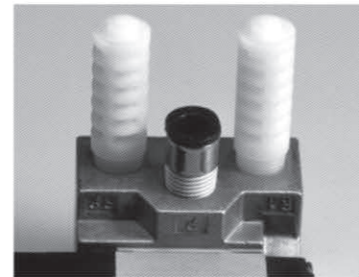
Feature

- Excellent noise suppression effect.
- Several options of materials (Brass, Stainless Steel, Plastic, Al)
- High durability and wide applications.
- Compact design is suitable for installing in confined space.



Case In Use

- Applied to exhausted port of machine.
- Sintering Silencer for anti-corrosion & high temperature place and ST Silencer for superior silence & contaminated place.



Silencers



Product Code System

SL 01

① ②

① Type

② Thread Size

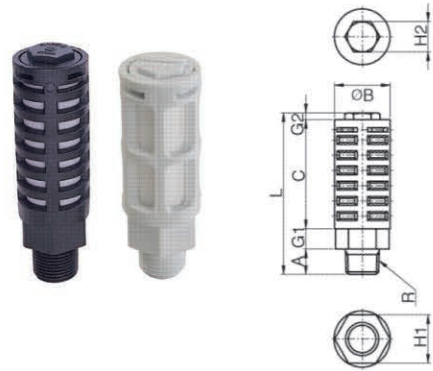
Thread Size	Metric Thread	Tape Pipe Thread									
Code	M5	01	02	03	04	06	08	10	12	16	
Size	M5	R1/8	R1/4	R3/8	R1/2	R3/4	R1	R1 1/4	R1 1/2	R2	

Thread Size	Tape Paralle Thread					
Code	G01	G02	G03	G04	G06	G08
Size	G1/8	G1/4	G3/8	G1/2	G3/4	G1

CAUTION

- Be sure to read the "Common Precautions" and "Using Precautions of Fitting Series" (P12) before using.
- Replace silencer after moderate use.
- Seal with Teflon, failure to do so will cause air leakage.
- Clean regularly to maintain good air release efficiency.
- Fastening the thread by force will cause damage on the body.

ST

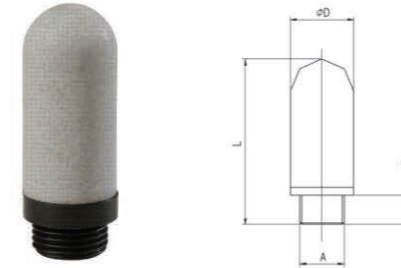


- ▶ **Application** : Used for suppressing the noise of air release, applied to exhausted port of machine.
- ▶ **Material** : PBT, PE
- ▶ **Feature** : Small size used for in low noisy applications.
Made of plastic, very light and strong.
Compact design is suitable for installing in confined space.

MODEL[ØD-T] Tube(Metric)-Thread(R) (mm)											
MODEL	R	ØB	L	C	A	H1	H2	G1	G2	W.G(g)	Qty/Inbox
ST M5	M5	7.5	18	-	5	-	-	-	-	0.5	100
ST 01	R 1/8	10.6	36.1	25.7	8	-	5.5	-	2.4	3	100
ST 02	R 1/4	22	63.7	43	10	19	12	8	2.7	10.5	25
ST 03	R 3/8	25	84.5	58	13.5	22	14	10	3.0	18.5	20
ST 04	R 1/2	30	93.5	64	15.5	27	19	10.5	3.5	29.5	12
ST G01	G 1/8	16	41	25	7	14	8	7	2	4.5	50
ST G02	G 1/4	21	64	42.5	10	18	12	10	2.5	12	25
ST G03	G 3/8	25	85	59.5	13	21.5	14.5	10	2.5	19.5	20
ST G04	G 1/2	30	94	67	14	26	19	10	3	30	12

*The color of ST M5, ST G is gray.

SMT

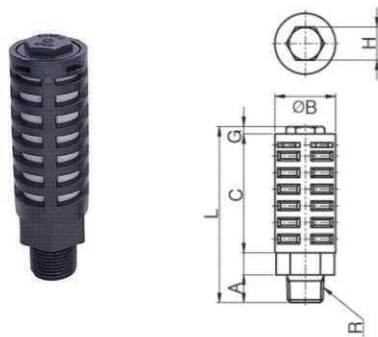


- ▶ **Application** : Used for suppressing the noise of air release, applied to exhausted port of machine.
- ▶ **Material** : PE
- ▶ **Feature** : Used for high flow and pressure applications.
Made of plastic, very light and strong.
Excellent noise suppression effect.

MODEL[ØD-T] Tube(Metric)-Thread(R) (mm)						
MODEL	A	F	ØD	L	W.G(g)	Qty/Inbox
SMT M5	M5	4	7	23	0.5	100
SMT G01	G 1/8	6.3	12.5	30	1.5	50
SMT G02	G 1/4	7.4	17	34.5	4	100
SMT G03	G 3/8	10.5	25	65	8	25
SMT G04	G 1/2	10.6	25	67	9	25
SMT G06	G 3/4	16	37	138	40.5	6
SMT G08	G 1	20	48	150	59	15

ST(M)

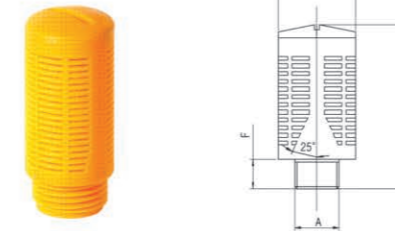
Silencers(Manifold)



- ▶ **Application** : Used for suppressing the noise of air release, applied to exhausted port of machine.
- ▶ **Material** : PBT, PE
- ▶ **Feature** : Excellent noise suppression effect
Made of plastic, very light and strong.
Compact design is suitable for installing in confined space.

MODEL[ØD-T] Tube(Metric)-Thread(R) (mm)									
MODEL	R	ØB	L	C	A	H	G	W.G(g)	Qty/Inbox
ST M02	R 1/4	15	46.5	36	8	10	2.5	4.9	50
ST M03	R 3/8	22	57.7	45	10	12	2.7	13.7	25

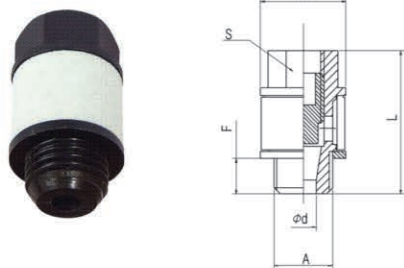
SLT



- ▶ **Application** : Used for suppressing the noise of air release, applied to exhausted port of machine.
- ▶ **Material** : PE
- ▶ **Feature** : Used for high flow and pressure applications.
Made of plastic, very light and strong.
Excellent noise suppression effect.

MODEL[ØD-T] Tube(Metric)-Thread(R) (mm)						
MODEL	A	ØD	L	F	W.G(g)	Qty/Inbox
SLT G01	G 1/8	16	32	6.5	3.5	100
SLT G02	G 1/4	20	42	8	6	50
SLT G03	G 3/8	24	56	10	12.5	25
SLT G04	G 1/2	24	56	10	14.5	25
SLT G06	G 3/4	48	114	18.5	105.5	4
SLT G08	G 1	48	114	18.5	113.5	4

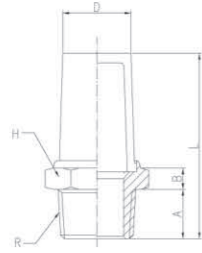
STP



- ▶ **Application** : Used for suppressing the noise of air release, applied to exhausted port of machine.
- ▶ **Material** : Nylon, PE
- ▶ **Feature** : Small size used for in low noisy applications.
Made of plastic, very light and strong.
Compact design is suitable for installing in confined space.

MODEL[ØD-T] Tube(Metric)-Thread(R) (mm)									
MODEL	A	ØD	d	F	S	L	W.G(g)	Qty/Inbox	
STP G01	G 1/8	15	3	7	13	20.5	3.5	100	
STP G02	G 1/4	18	5	8.7	15	29.2	8.5	100	
STP G03	G 3/8	24	8	10	20	38.4	19.5	50	

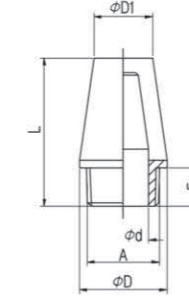
SL



- ▶ **Application** : Hydraulic & Pneumatic equipment, Water Purifier, Automobile parts, Water Ionizer, Water Heater, Tooling, etc.
- ▶ **Material** : Brass
- ▶ **Feature** : Silencer with Brass Sintering which is not burn is strong in heat and high pressure.

MODEL[ØD-T] Tube(Metric)–Thread(R) (mm)								
MODEL	R	A	B	L	D	H	W.G(g)	Qty/Inbox
SL M5	M5	4	3	20.7	4	9	3	100
SL 01	R 1/8	7	3.5	24.5	8	12	6	100
SL 02	R 1/4	9.5	4	31.5	10	15	13	50
SL 03	R 3/8	10.5	5	39.9	12	19	22	50
SL 04	R 1/2	12	6	47.3	15	22	37	25
SL 06	R 3/4	12	6.5	55.8	19	27	55	20
SL 08	R 1	14.5	7	70.5	32	36	122.5	8
SL 10	R 1 1/4	15	7.5	75.8	32	46	202.5	6
SL 12	R 1 1/2	15	8	81.8	38	52	258	4
SL 16	R 2	16.5	9	105.3	50	64	415.5	2

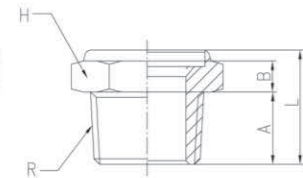
SCL



- ▶ **Application** : Hydraulic & Pneumatic equipment, Water Purifier, Automobile parts, Water Ionizer, Water Heater, Tooling, etc.
- ▶ **Material** : Steel, Brass
- ▶ **Feature** : Silencer with Brass Sintering which is not burn is strong in heat and high pressure. Silencer with steel is excellent in anti-corrosion. Superior mechanical strength.

MODEL[ØD-T] Tube(Metric)–Thread(R) (mm)								
MODEL	A	ØD	ØD1	Ød	F	L	W.G(g)	Qty/Inbox
SCL M5	M5	6.5	5.5	3	5	16	1.5	100
SCL 01	R 1/8	12	8	6.5	7	22	7	100
SCL 02	R 1/4	15	11	9	9.5	27.5	14	100
SCL 03	R 3/8	19	14	11.5	10.5	38.5	27	50
SCL 04	R 1/2	23	18	15.5	12	45	46.5	25
SCL 06	R 3/4	30	25	22	12	57	74.5	20
SCL 08	R 1	37	30	28	14.5	66.5	119	8

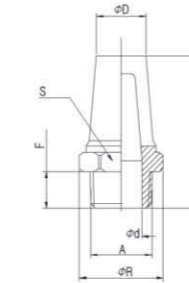
SM



- ▶ **Application** : Hydraulic & Pneumatic equipment, Water Purifier, Automobile parts, Water Ionizer, Water Heater, Tooling, etc.
- ▶ **Material** : Brass
- ▶ **Feature** : Silencer with Brass Sintering which is not burn is strong in heat and high pressure. Easy to install it in the defined space, due to compact height.

MODEL[ØD-T] Tube(Metric)–Thread(R) (mm)							
MODEL	R	A	B	L	H	W.G(g)	Qty/Inbox
SM M5	M5	4	3	8.5	8	1	100
SM 01	R 1/8	7	3.5	11.5	12	5.5	100
SM 02	R 1/4	9.5	4	15	15	10.5	100
SM 03	R 3/8	10.5	5	17	19	17	50
SM 04	R 1/2	12	6	20	22	29	25
SM 06	R 3/4	12	6.5	20.5	27	40	25
SM 08	R 1	14.5	7	24.5	36	75	15

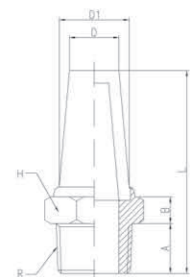
SCEL



- ▶ **Application** : Hydraulic & Pneumatic equipment, Water Purifier, Automobile parts, Water Ionizer, Water Heater, Tooling, etc.
- ▶ **Material** : Steel, Brass
- ▶ **Feature** : Silencer with Brass Sintering which is not burn is strong in heat and high pressure. Silencer with steel is excellent in anti-corrosion. Superior mechanical strength.

MODEL[ØD-T] Tube(Metric)–Thread(R) (mm)								
MODEL	A	R	ØD	Ød	F	S	L	W.G(g)
SCEL M5	M5	7.8	5	2.5	4	7	17.5	3
SCEL 01	R 1/8	13.2	8.5	7	7	12	23.5	7.5
SCEL 02	R 1/4	16.2	11	9.5	9.5	15	30.5	13
SCEL 03	R 3/8	20.5	14	12.5	10.5	19	38.5	24.5
SCEL 04	R 1/2	25.6	17	15.5	12	23	44.5	42
SCEL 06	R 3/4	33.4	21	20.5	12	30	54.5	70
SCEL 08	R 1	40	26.5	26	14.5	36	69.5	116.5

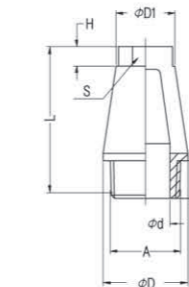
SSL



- ▶ **Application** : Hydraulic & Pneumatic equipment, Water Purifier, Automobile parts, Water Ionizer, Water Heater, Tooling, etc.
- ▶ **Material** : Stainless Steel
- ▶ **Feature** : Silencer with stainless steel is strong in heat and high pressure. It is excellent in anti-corrosion and anti-chemicals.

MODEL[ØD-T] Tube(Metric)–Thread(R) (mm)								
MODEL	R	A	B	L	D	D1	H	W.G(g)
SSL 01	R 1/8	7	4.5	29	8.2	9	12	8.5
SSL 02	R 1/4	9.5	4.5	33.5	10.5	12.5	15	14
SSL 03	R 3/8	10.5	5	40.5	12.5	15	19	25.5
SSL 04	R 1/2	12	6.5	50.5	16	18	23	43
SSL 06	R 3/4	12	7	59	22	25	30	71.5
SSL 08	R 1	15	8	71	27.5	30	36	115

SCTL



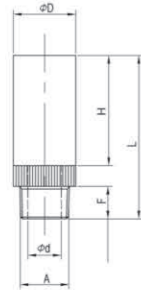
- ▶ **Application** : Hydraulic & Pneumatic equipment, Water Purifier, Automobile parts, Water Ionizer, Water Heater, Tooling, etc.
- ▶ **Material** : Steel, Brass
- ▶ **Feature** : Silencer with Brass Sintering which is not burn is strong in heat and high pressure. Silencer with steel is excellent in anti-corrosion. Superior mechanical strength.

MODEL[ØD-T] Tube(Metric)–Thread(R) (mm)								
MODEL	A	ØD	ØD1	Ød	F	H	S	L
SCTL 01	R 1/8	12	10	6.5	7	3	8	24
SCTL 02	R 1/4	15	11.5	9	9.5	4	10	31.5
SCTL 03	R 3/8	19	15.5	11.5	10.5	5	13	39.5
SCTL 04	R 1/2	23	17.8	15.5	12	6	15	47.5
SCTL 06	R 3/4	30	25	22	12	6	19	59
SCTL 08	R 1	37	31	28	14.5	7	24	72

Silencers

Silencers

SCB

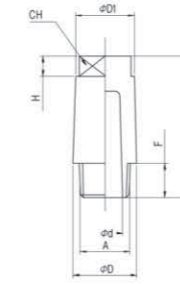


- ▶ **Application** : Hydraulic & Pneumatic equipment, Water Purifier, Automobile parts, Water Ionizer, Water Heater, Tooling, etc.
- ▶ **Material** : Steel, Red Copper
- ▶ **Feature** : It is strong in heat and high pressure. Strong thread with red cooper. It is excellent in anti-corrosion and anti-chemicals. Superior mechanical strength.

MODEL[ϕD -T] Tube(Metric)–Thread(R) (mm)

MODEL	A	ϕD	ϕd	F	H	L	W.G(g)	Qty/Inbox
SCB M5	R M5	8	3	4.5	11	18	2.5	100
SCB 6S	R $\frac{1}{8}$	11	6.5	7	14	23.5	7	100
SCB 6L	R $\frac{1}{8}$	13	7	8	25	38	18	100

STL

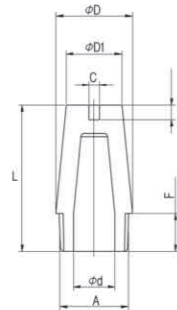


- ▶ **Application** : Hydraulic & Pneumatic equipment, Water Purifier, Automobile parts, Water Ionizer, Water Heater, Tooling, etc.
- ▶ **Material** : Brass
- ▶ **Feature** : Silencer with Brass Sintering which is not burn is strong in heat and high pressure. Superior mechanical strength.

MODEL[ϕD -T] Tube(Metric)–Thread(R) (mm)

MODEL	A	ϕD	$\phi D1$	ϕd	F	H	CH	L	W.G(g)	Qty/Inbox
STL 01	R $\frac{1}{8}$	12	8.5	5	7	4.5	7	23.5	5.5	100
STL 02	R $\frac{1}{4}$	14	11.5	6.2	9.5	4.5	9	29.5	14.5	100
STL 03	R $\frac{3}{8}$	18	15.5	9	10.5	6	13	36.5	29	50
STL 04	R $\frac{1}{2}$	24	20.5	13	12	7	17	45	64	25

SDL

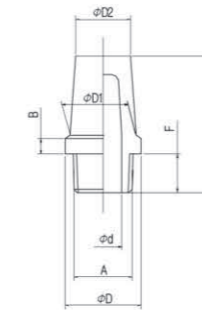


- ▶ **Application** : Hydraulic & Pneumatic equipment, Water Purifier, Automobile parts, Water Ionizer, Water Heater, Tooling, etc.
- ▶ **Material** : Brass
- ▶ **Feature** : Silencer with Brass Sintering which is not burn is strong in heat and high pressure. Excellent noise suppression effect. Superior mechanical strength.

MODEL[ϕD -T] Tube(Metric)–Thread(R) (mm)

MODEL	A	ϕD	$\phi D1$	ϕd	F	C	T	L	W.G(g)	Qty/Inbox
SDL 01	R $\frac{1}{8}$	11	8	6	7	1.5	2	22.5	5	100
SDL 02	R $\frac{1}{4}$	14	10	8.5	9.5	1.5	2	28	10.5	100
SDL 03	R $\frac{3}{8}$	18	15	11	11	2	2	36	24.5	50
SDL 04	R $\frac{1}{2}$	24	19	15	12	2	3	45	49	25
SDL 06	R $\frac{3}{4}$	29.5	20	20	12	2.5	3	65	81.5	20
SDL 08	R 1	35.5	26.5	25	15	4	4	75	125.5	8

SBL

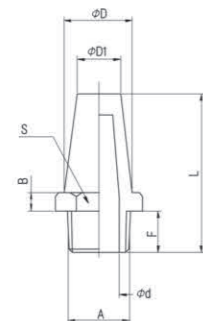


- ▶ **Application** : Hydraulic & Pneumatic equipment, Water Purifier, Automobile parts, Water Ionizer, Water Heater, Tooling, etc.
- ▶ **Material** : Brass
- ▶ **Feature** : Silencer with Brass Sintering which is not burn is strong in heat and high pressure. Superior mechanical strength.

MODEL[ϕD -T] Tube(Metric)–Thread(R) (mm)

MODEL	A	ϕD	$\phi D1$	$\phi D2$	ϕd	F	H	L	W.G(g)	Qty/Inbox
SBL 01	R $\frac{1}{8}$	12.5	10.8	9	6	7	2.5	23	5.5	100
SBL 02	R $\frac{1}{4}$	16	13.2	11	7.5	9.5	3	29.5	14.5	100
SBL 03	R $\frac{3}{8}$	20	16.5	14.5	10	10.5	3.5	37.5	29	50
SBL 04	R $\frac{1}{2}$	26	20.5	18	12	12	4	45	64	25

SEL

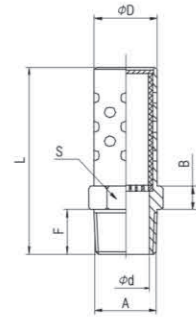


- ▶ **Application** : Hydraulic & Pneumatic equipment, Water Purifier, Automobile parts, Water Ionizer, Water Heater, Tooling, etc.
- ▶ **Material** : Brass
- ▶ **Feature** : Silencer with Brass Sintering which is not burn is strong in heat and high pressure. Superior mechanical strength.

MODEL[ϕD -T] Tube(Metric)–Thread(R) (mm)

MODEL	A	ϕD	$\phi D1$	ϕd	F	B	S	L	W.G(g)	Qty/Inbox
SEL 01	R $\frac{1}{8}$	10	8	4	7	4	13	29	10	100
SEL 02	R $\frac{1}{4}$	14	12	6	9.5	4	17	35.5	20	100
SEL 03	R $\frac{3}{8}$	16.5	15	9	10.5	5	22	36.5	24.5	50
SEL 04	R $\frac{1}{2}$	20.5	19	12	12	7	27	44	58	25
SEL 06	R $\frac{3}{4}$	24	22	16	14	10	32	65	74	20
SEL 08	R 1	31	28	22	16	10	41	75	115.5	8

SB

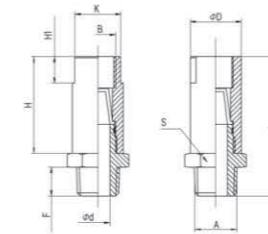


- ▶ **Application** : Hydraulic & Pneumatic equipment, Automobile parts, Tooling, etc.
- ▶ **Material** : Steel
- ▶ **Feature** : Used for high exhaust flow and unifying force applications. Excellent noise suppression effect.

MODEL[ØD-T] Tube(Metric)-Thread(R) (mm)

MODEL	A	F	ØD	Ød	L	B	S	W.G(g)	Qty/Inbox
SB 01	R 1/8	7	10.4	6	35	3.5	11.1	8	50
SB 02	R 1/4	11	13.4	8.5	45	4	14.29	15.5	50
SB 03	R 3/8	12.8	16.5	12	53	4.5	17.4	24.5	25
SB 04	R 1/2	15.817	21.5	15	70	5	22.2	50.5	25
SB 06	R 3/4	.7	26.5	20	80	6	27	71.5	12
SB 08	R1	22.5	32.3	26	98	7	33.3	126.5	12
SB 10	R 1/4	23	42.3	32	114	7.5	43	253.5	2
SB 12	R 1/2	25.5	50.3	40	127	8.5	51	321	2
SB 16	R2	26	59.3	50	140	9	60	450.5	1

SAM

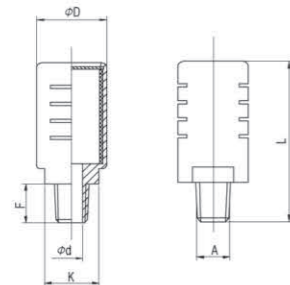


- ▶ **Application** : Hydraulic & Pneumatic equipment, Automobile parts, Tooling, etc.
- ▶ **Material** : AL, Brass
- ▶ **Feature** : Designed for exhausting water or remnants. AL material strong in corrosion and poor environment.

MODEL[ØD-T] Tube(Metric)-Thread(R) (mm)

MODEL	A	B	ØD	K	Ød	F	H	H1	S	L	W.G(g)	Qty/Inbox
SAM 01	R 1/8	R 1/8	16	14	5.5	7	34	7	16	49	18.5	50
SAM 02	R 1/4	R 1/4	18.5	17	8	9.5	39	10	19	55.5	28.5	25
SAM 03	R 3/8	R 3/8	22	20	10	12.5	44	10	22	61.5	41	25
SAM 04	R 1/2	R 1/2	28	26	14.5	16.5	55	10	28.7	77	78	10
SAM 06	R 3/4	R 3/4	37.5	35	21	19	62	17.5	38	88	153	6

SLM

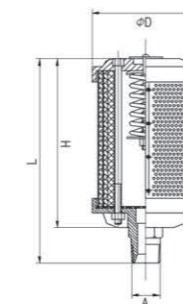


- ▶ **Application** : Hydraulic & Pneumatic equipment, Automobile parts, Tooling, etc.
- ▶ **Material** : AL
- ▶ **Feature** : Used for high exhaust flow and unifying force applications. AL material strong in corrosion and poor environment. Excellent noise suppression effect. Used for large equipment with high exhaust flow.

MODEL[ØD-T] Tube(Metric)-Thread(R) (mm)

MODEL	A	F	ØD	Ød	K	L	W.G(g)	Qty/Inbox
SLM 01	R 1/8	7	10.4	6	16	35	16	50
SLM 02	R 1/4	11	13.4	8.5	16	45	16.5	50
SLM 03	R 3/8	12.8	16.5	12	25	53	49	12
SLM 04	R 1/2	15.8	21.5	15	25	70	49.5	12
SLM 06	R 3/4	17.7	26.5	20	41	80	78	6
SLM 08	R1	22.5	32.3	26	41	98	155.5	2
SLM G01	G 1/8	7	10.4	6	16	35	14	50
SLM G02	G 1/4	11	13.4	8.5	16	45	26.5	12
SLM G03	G 3/8	12.8	16.5	12	25	53	50	12
SLM G04	G 1/2	15.8	21.5	15	25	70	73.5	12
SLM G06	G 3/4	17.7	26.5	20	41	80	129.5	6
SLM G08	G1	22.5	32.3	26	41	98	155	2

SAL

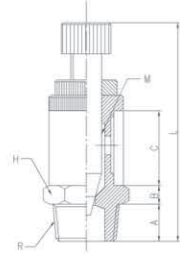


- ▶ **Application** : Hydraulic & Pneumatic equipment, Automobile parts, Tooling, etc.
- ▶ **Material** : AL
- ▶ **Feature** : Used for large equipment with high exhaust flow and noise. AL material strong in corrosion and poor environment. High silence effect with high density and exhaust flow.

MODEL[ØD-T] Tube(Metric)-Thread(R) (mm)

MODEL	A	ØD	H	L	W.G(g)	Qty/Inbox
SAL 04	R 1/2	80	125	159	331	1
SAL 06	R 3/4	87	156	180	513	3
SAL 08	R1	99	183	218	710	3
SAL 10	R1 1/4	99	183	218	731	3
SAL 12	R1 1/2	133	297	340	1922.5	1
SAL 16	R2	133	432	470	2502	1

SBC

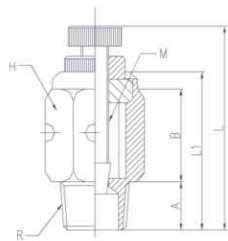


- ▶ **Application** : Hydraulic & Pneumatic equipment, Automobile parts, Tooling, etc.
- ▶ **Material** : Brass
- ▶ **Feature** : Silencer with Brass Sintering has the flow controller which controls the speed of cylinder.

MODEL [ØD-T] Tube(Metric)–Thread(R) (mm)

MODEL	R	A	B	C	L	H	M	W.G(g)	Qty/Inbox
SBC 01	R 1/8	7	3	10	34	12	M4×0.5	17.5	50
SBC 02	R 1/4	9.5	4	10.5	37	14	M5×0.5	27.5	25
SBC 03	R 3/8	10.5	4	15	48	17	M7×0.75	47	25
SBC 04	R 1/2	12	5	22	58.5	24	M9×0.75	84	12
SBC 06	R 3/4	12	7	24	66	27	M10×1	140	12
SBC 08	R 1	14.5	8	34	80.5	34	M10×1	224.5	9

SCC

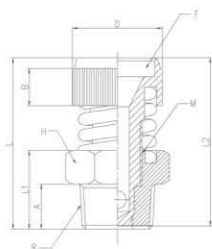


- ▶ **Application** : Hydraulic & Pneumatic equipment, Automobile parts, Tooling, etc.
- ▶ **Material** : Brass
- ▶ **Feature** : Silencer with Brass Sintering has the flow controller which controls the speed of cylinder. The brass cover around filter provides strong body.

MODEL [ØD-T] Tube(Metric)–Thread(R) (mm)

MODEL	R	A	B	L1	L	H	M	W.G(g)	Qty/Inbox
SCC 01	R 1/8	7	13.5	22.9	34.2	13	M4×0.5	16	50
SCC 02	R 1/4	9.5	15.5	27.5	38.5	14	M5×0.5	28	25
SCC 03	R 3/8	10.5	17.5	30.5	44	17	M7×0.75	44.5	25
SCC 04	R 1/2	12	20	34	48.5	22	M9×0.75	77.5	20
SCC 06	R 3/4	14.5	24	41.5	60	27	M10×1	125.5	20
SCC 08	R 1	16	31	50	70	34	M10×1	218	9

SDC



- ▶ **Application** : Hydraulic & Pneumatic equipment, Automobile parts, Tooling, etc.
- ▶ **Material** : Brass
- ▶ **Feature** : Silencer with Brass Sintering has the flow controller which controls the speed of cylinder. Easy to install it in the defined space, due to compact height.

MODEL [ØD-T] Tube(Metric)–Thread(R) (mm)

MODEL	R	A	B	D	L1	L2	H	L	M	F	W.G(g)	Qty/Inbox
SDC 01	R 1/8	7	5	12	11.5	21.8	12	24	M6×0.75	10×2	16	50
SDC 02	R 1/4	9.5	6.5	14	15	25.8	15	29.5	M8×0.5	12×2	28	25
SDC 03	R 3/8	10.5	8.5	17	16.5	31	19	33.5	M10×1	14×2	44.5	25
SDC 04	R 1/2	12	8.5	18	20	33.5	22	37	M12×1	16×2	77.5	20
SDC 06	R 3/4	12	11	23	21	46	27	48	M14×1	20×3	125.5	20
SDC 08	R 1	15	15.5	28	25	55.5	34	57	M16×1.5	25×3	218	9

AIR GUN

Application

- Used for installation on machines for cleaning debris and particles, best in confined space.

Feature

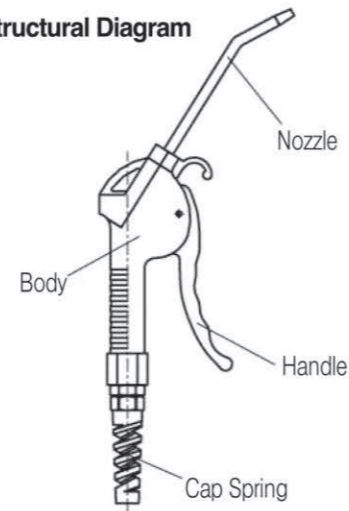
- Various size of nozzle makes it easy to clean the machines and the equipment.
- Easy control of airflow volume.

Specification

Fluid	Air(No other gases or liquids)	
Working Pressure Range	15~150PSI	1~9.9Kgf/cm ² (0~990kPa)
Temperature Range	32~140° F	0~60° C



Structural Diagram



Product Code System

AG - 08 - 02 - S - B

① ② ③ ④ ⑤

- ① Type
② Tube Dia(ØD)

	Metric Size	
Code	08	10
Dia	Ø8	Ø10

- ③ Thread Size (Rc)

	Metric Size	
Code	02	03
Dia	Rc1/4	Rc3/8

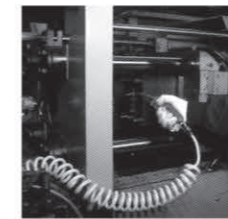
- ④ Nozzle Size

Type	Metric Size			Nozzle-Coupler		
	S	M	L	SP	MP	LP
Size	Short	Medium	Long	Short	Medium	Long

- ⑤ Color

B	R	BU
Black	Red	Blue

Air Gun



Case In Use

Convenient to clean dangerous parts and to remove foreign substances from the machine(CNC LATHE, AUTOMATIC LATHE, CATAPLUT and PRESS)



- Be sure to read the "Common Precautions" and "Using Precautions of Fitting Series"(P12) before using.
- Be sure to clean the machine after stopping its operation.
- Avoid excessive impact or shock on the body, otherwise it may cause air leakage from the damage.

TUBE CUTTER

Application

- Safe, efficient, accurate tool for cutting tubing.

Specification

Available Tube	Polyurethane and Nylon
Cutting Outer Dia	Ø3.0 ~ Ø12.0
Material	Polyacetal, Stainless steel
Standard Color	Blue

Product Code System

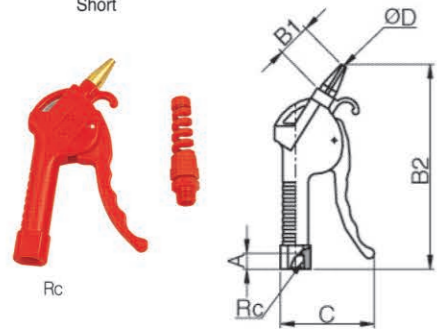
TC (TUBE CUTTER)

MODEL	W.G(g)	Q'ty/Inbox
Tube Cutter	30.5	24



AG-S

Short

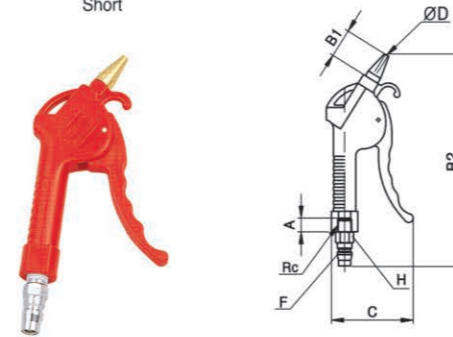


MODEL [ØD-T] Tube (Metric) – Thread (R)

MODEL	B1	B2	C	ØD	Rc	A	W.G(g)	Qty/Inbox
AIR GUN 0802S	25	158	95	2.5	Rc1/4	12	143.8	50
AIR GUN 1002S	25	158	95	2.5	Rc1/4	12	143.8	50
AIR GUN 1003S	25	158	95	2.5	Rc3/8	12	143.8	50

AG-SP

Short

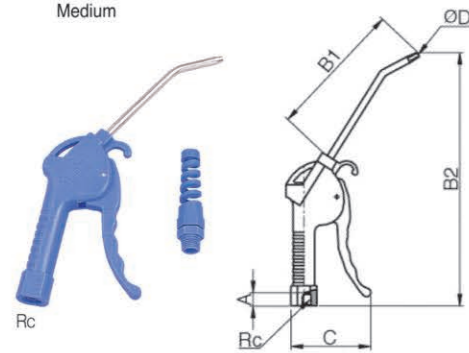


MODEL [ØD-T] Tube (Metric) – Thread (R)

MODEL	B1	B2	F	H	C	ØD	Rc	A	W.G(g)	Qty/Inbox
AIR GUN 02SP	25	187	CM22	14	95	2.5	Rc1/4	12	143.8	50

AG-M

Medium

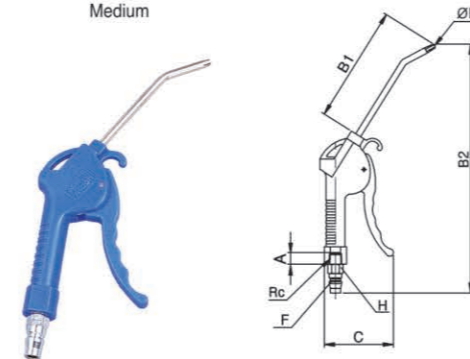


MODEL [ØD-T] Tube (Metric) – Thread (R)

MODEL	B1	B2	C	ØD	Rc	A	W.G(g)	Qty/Inbox
AIR GUN 0802M	105	231	95	2.5	Rc1/4	12	145.8	50
AIR GUN 1002M	105	231	95	2.5	Rc1/4	12	145.8	50
AIR GUN 1003M	105	231	95	2.5	Rc3/8	12	145.8	50

AG-MP

Medium

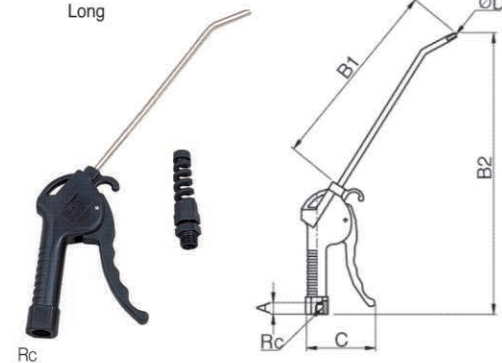


MODEL [ØD-T] Tube (Metric) – Thread (R)

MODEL	B1	B2	F	H	C	ØD	Rc	A	W.G(g)	Qty/Inbox
AIR GUN 02MP	105	260	CM22	14	95	2.5	Rc1/4	12	145.8	50

AG-L

Long

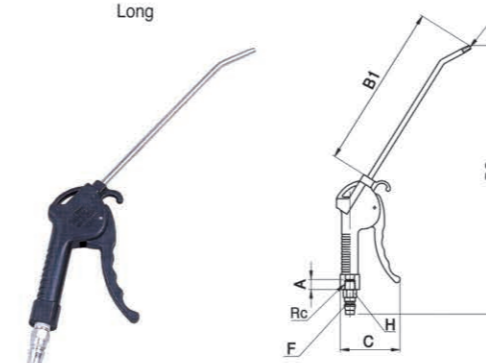


MODEL [ØD-T] Tube (Metric) – Thread (R)

MODEL	B1	B2	C	ØD	Rc	A	W.G(g)	Qty/Inbox
AIR GUN 0802L	221	292	95	2.5	Rc1/4	12	164.4	30
AIR GUN 1002L	221	292	95	2.5	Rc1/4	12	164.4	30
AIR GUN 1003L	221	292	95	2.5	Rc3/8	12	164.4	30

AG-LP

Long



MODEL [ØD-T] Tube (Metric) – Thread (R)

MODEL	B1	B2	F	H	C	ØD	Rc	A	W.G(g)	Qty/Inbox
AIR GUN 02LP	221	321	CM22	14	95	2.5	Rc1/4	12	164.4	30

POLYURETHANE TUBE

Application

- Used for industrial robots and pneumatic piping.
- Used for various applications by functions.

Feature

- Higher flexibility than nylon(PA) helps working achievement.
- Higher flexibility in low temperature.

Specification

Fluid	Air(No other gases or liquids)	
Working Pressure Range	0~150PSI	0~9Kgf/cm ² (0~900kPa)
Negative Pressure	-29.50 in Hg	-750mmHg(10Torr)
Temperature Range	32~140° F	-15~60° C

Product Code System

U - 08 - 50 - B
UC - 08 - 50 - 05-Y

① ② ③ ④
① ② ③ ⑤ ④

① Type

②③ Tube Dia(∅D)

Code	Metric Size									
	0320	0420	0425	0640	0850	0855	1065	1280	1290	1611
Outer Dia	∅3	∅4	∅4	∅6	∅8	∅8	∅10	∅12	∅12	∅16
Inner Dia	∅2	∅2	∅2.5	∅4	∅5	∅5.5	∅6.5	∅8	∅9	∅11

Code	Inch Size							
	1/8	5/32	3/16	1/4	5/16	3/8	1/2	5/8
Outer Dia	∅1/8	∅5/32	∅3/16	∅1/4	∅5/16	∅3/8	∅1/2	∅5/8

④ Color

Color	C	BK	R	Bu	Y	G	W	O
	Clear	Black	Red	Blue	Yellow	Green	White	Orange

⑤ Length(m)

Common Precautions of Tube Series

Never fail to check the following

⚠ WARNING

1. Never use for applications other than air.
Using for applications other than air, it causes water leakage by breakage or crack of tube from chemical reaction.
2. Installing the tube near heater, it causes exposition of tube from heat.
3. Scarring the tube with a gimlet or a pin, it causes breakage of tube.
4. Twisting, screwing or bending the tube, it causes breakage or leakage of air.
5. Never use tube in a place of rising spatter.

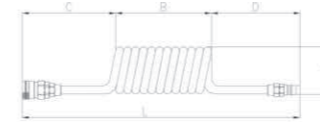
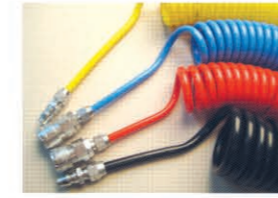
⚠ CAUTION

1. Be sure to keep the radius of curvature of tube per size.
2. Be sure to leave a margin for unexpected additional length of tube when piping.
3. Be sure to check that the section of tube is at a right angle(90°) or tube is oval, not round

Polyurethane Tube



AC

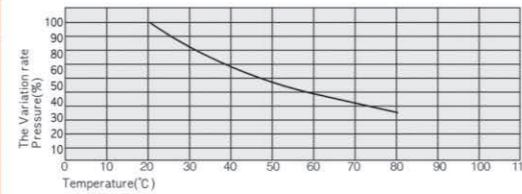


MODEL [OUT-IN] Metric size

MODEL	O.D mm	I.D mm	Length (m)	Working (m)	A	B	C	D	L	Color						
										C	BK	R	BU	Y	G	O
AC 0805-50	8	5	5	4	52.5	78	131	123	546	°	°	°	°	°	°	°
AC 0805-75	8	5	7.5	6	52.5	167	131	123	698	°	°	°	°	°	°	°
AC 0805-100	8	5	10	8	52.5	257	131	123	849	°	°	°	°	°	°	°
AC 1065-50	10	6.5	5	4	65.2	69	142	134	567	°	°	°	°	°	°	°
AC 1065-75	10	6.5	7.5	6	65.2	150	142	134	718	°	°	°	°	°	°	°
AC 1065-100	10	6.5	10	8	65.2	228	142	134	869	°	°	°	°	°	°	°
AC 1208-50	12	8	5	4	87	200	143	135	532	°	°	°	°	°	°	°
AC 1208-75	12	8	7.5	6	87	291	143	135	664	°	°	°	°	°	°	°
AC 1208-100	12	8	10	8	87	443	143	135	796	°	°	°	°	°	°	°

Working Pressure

- Temperature limits of tube : -40°C~80°C
- Normal Pressure : Control normal pressure within 1/3 of tube burst pressure.



NYLON TUBE

Application

- Used for hydraulic and pneumatic connections.
- Used for chemical plant, pneumatic connection, medical instrument and food industry.

Feature

- Long Life-span with durability, anti-weather, anti-flexibility. Anti-pressure, anti-vibration, anti-corrosion, heat-proof.
- Lightweight & flexible.
- Used for medical instrument and food industry.

Specification

Fluid	Air(No other gases or liquids)	
Working Pressure Range(20°C)	0~210PSI	0~15Kgf/cm ² (0~1.5MPa)
Negative Pressure	-29.5 in Hg	-750mm Hg(10Torr)
Temperature Range	5~140°F	-15~60°C

Product Code System

N - 08 - 60 - C

① ② ③ ④

① Type

②③ Tube Dia(ØD)

	Metric Size							
Code	0320	0420	0425	0640	0860	1080	1290	1613
Outer Dia	Ø3	Ø4	Ø4	Ø6	Ø8	Ø10	Ø12	Ø16
Inner Dia	Ø2	Ø2	Ø2.5	Ø4	Ø6	Ø8	Ø9	Ø13

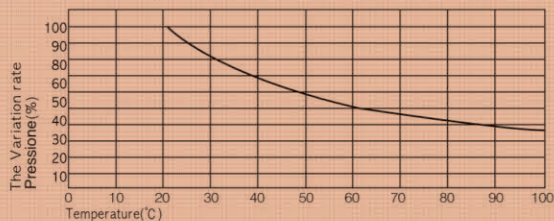
	Inch Size							
Code	1/8	5/32	3/16	1/4	5/16	3/8	1/2	5/8
Outer Dia	Ø1/8	Ø5/32	Ø3/16	Ø1/4	Ø5/16	Ø3/8	Ø1/2	Ø5/8

④ Color

	C	BK
Color	Clear	Black

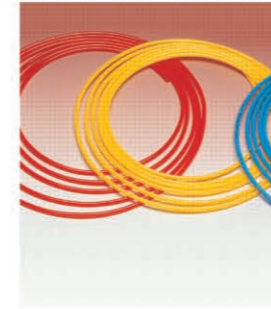
Working Pressure

- Control working pressure within 1/3 of tube burst pressure at working temperature(20°C)
- Working pressure = Burst pressure(kg/cm²) x Vibration (%) x 1/3
Ex) N8 X 6 Tube
- In case of working temperature 50°C.
Burst pressure 60kg/cm² x vibration rate 60%
- ∴ Control working pressure below 12kg/cm².



Nylon Tube

N



MODEL [OUT-IN] Metric size

MODEL	Outer Dia (mm)	Inner Dia (mm)	Packing Unit (m)	The radius of curvature (mm)	Burst pressure (kg/cm ²)	W/G (g/m)	Color							
							C	BK	R	BU	Y	G	W	O
N-03020	3	2	200	20	150	7	○	○	○	○	○	○	○	○
N-04020	4	2	200	20	150	9	○	○	○	○	○	○	○	○
N-04025	4	2.5	200	20	60	9	○	○	○	○	○	○	○	○
N-06040	6	4	100	30	90	17	○	○	○	○	○	○	○	○
N-08060	8	6	100	48	60	23	○	○	○	○	○	○	○	○
N-10080	10	8	100	60	50	36	○	○	○	○	○	○	○	○
N-12090	12	9	100	72	60	52	○	○	○	○	○	○	○	○

MODEL [OUT-IN] Inch Size

MODEL	Outer Dia (mm)	Inner Dia (mm)	Packing Unit (m)	The radius of curvature (mm)	Burst pressure (kg/cm ²)	W/G (g/m)	Color							
							C	BK	R	BU	Y	G	W	O
N1/8-1.6	3.17	1.6	200	12	84	5	○	○	○	○	○	○	○	○
N1/8-2.0	3.17	2	200	12	84	5	○	○	○	○	○	○	○	○
N5/32-2.0	3.97	2	200	15	70	9	○	○	○	○	○	○	○	○
N5/32-2.5	3.97	2.5	200	15	70	9	○	○	○	○	○	○	○	○
N3/16-3.5	4.76	3.5	200	25	61	12	○	○	○	○	○	○	○	○
N1/4-4.6	6.35	4.6	100	25	45	27	○	○	○	○	○	○	○	○
N5/16-6.0	7.94	6	100	50	50	27	○	○	○	○	○	○	○	○
N3/8-6.9	9.52	6.9	100	60	45	35	○	○	○	○	○	○	○	○
N1/2-9.5	12.7	9.5	100	70	45	56	○	○	○	○	○	○	○	○

Common Precautions of Tube Series

Never fail to check the following

⚠ WARNING

1. Never use for applications other than air.
Using for applications other than air, it causes water leakage by breakage or crack of tube from chemical reaction.
2. Installing the tube near heater, it causes exposition of tube from heat.
3. Scarring the tube with a gimlet or a pin, it causes breakage of tube.
4. Twisting, screwing or bending the tube, it causes breakage or leakage of air.
5. Never use tube in a place of rising spatter.

⚠ CAUTION

1. Be sure to keep the radius of curvature of tube per size.
2. Be sure to leave a margin for unexpected additional length of tube when piping.
3. Be sure to check that the section of tube is at a right angle(90°) or tube is oval, not round.

HOSE BAND

Application

- Used for the hose connection and leakage tightness.
- Applied for wide range of hose equipment.

Feature

- Durable and anti-corrosive with Stainless Steel(SUS304)
- Smooth surface for hose protection
- Excellent at the high temperature and pressure from high tensile strength
- High Torque from the high quality material
- Precise and safe products produced in the precise equipment

Specification

Material	SUS 304
Working Torque	under 80kgf · cm



Product Code System

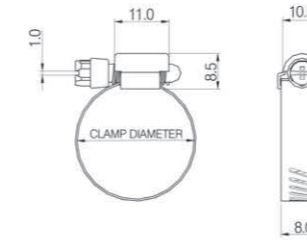
HBS 03

① ② ③

- ① MODEL : HOSE BAND
- ② TYPE : S = Small, L = Large
- ③ SIZE : 03 = 3/8"

Hose Band

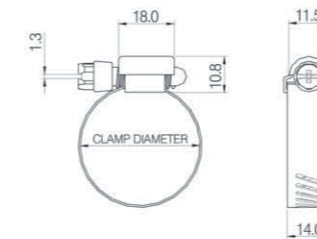
HBS Mini Hose Band



MINI HOSE BAND

MODEL	SIZE(INCH)	∅D(Min)	∅D(Max)	W.G(g)	Q'ty/Inbox
HBS 03	Mini 3/8 (Small)	6	16	6	100
HBS 04	Mini 1/2 (Medium)	8	18	6	100
HBS 05	Mini 5/8 (Large)	8	22	6.5	100
HBS 08	Mini 1"	11	25	6.5	100
HBS 10	Mini 1-1/4"	20	32	7	100

HBL Hose Band



HOSE BAND

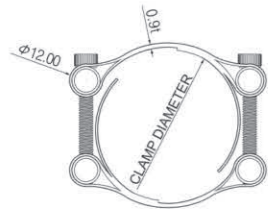
MODEL	SIZE(INCH)	∅D(Min)	∅D(Max)	W.G(g)	Q'ty/Inbox
HBL 06	3/4"	10	22	17.5	50
HBL 08	1"	15	25	18	50
HBL 10	1 1/4"	20	32	19	100
HBL 12	1 1/2"	25	42	20.5	100
HBL 14	1 3/4"	30	45	22	100
HBL 16	2"	35	50	23.5	100
HBL 18	2 1/4"	40	56	24	100
HBL 20	2 1/2"	45	64	25.5	100
HBL 24	3"	50	75	27.5	100
HBL 28	3 1/2"	75	92	30	100
HBL 32	4"	80	100	33	100
HBL 36	4 1/2"	90	117	35	100
HBL 40	5"	100	125	37.5	50
HBL 48	6"	130	150	42	50
HBL 56	7"	150	175	46.5	50
HBL 64	8"	150	200	52.5	50
HBL 72	9"	175	200	57	50
HBL 80	10"	225	250	58.5	50
HBL 88	11"	250	275	63	50
HBL 96	12"	275	300	69	50

HIGH PRESSURE HOSE BAND

High Pressure Hose Band

HDT

Double Band(Steel)

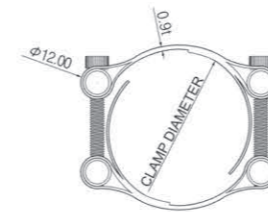


DOUBLE BAND(STEEL)

MODEL	SIZE(mm)	∅D(Min)	∅D(Max)	W.G(g)	Q'ty/Inbox
HDT 50	50	35	50	129	10
HDT 55	55	40	55	136	10
HDT 60	60	45	60	138	10
HDT 65	65	50	65	142	10
HDT 70	70	55	70	152	10
HDT 75	75	60	75	152.5	10
HDT 80	80	65	80	157.5	10
HDT 85	85	70	85	162.5	10
HDT 90	90	75	90	166.5	10
HDT 95	95	80	95	172	10
HDT 100	100	85	100	177	10
HDT 105	105	90	105	184	10
HDT 110	110	95	110	191.5	10
HDT 115	115	100	115	198.5	10
HDT 120	120	105	120	199.5	10
HDT 130	130	115	130	201	10
HDT 140	140	125	140	218	5
HDT 150	150	135	150	217	5
HDT 160	160	145	160	236.5	5
HDT 170	170	155	170	241.5	5
HDT 180	180	165	180	251.5	5
HDT 190	190	175	190	260.5	5
HDT 200	200	185	200	270	5
HDT 210	210	195	210	280.5	5
HDT 220	220	205	220	291	5

HDS

Double Band(SUS)

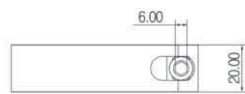


DOUBLE BAND(SUS)

MODEL	SIZE(mm)	∅D(Min)	∅D(Max)	W.G(g)	Q'ty/Inbox
HDS 50	50	35	50	132.5	10
HDS 55	55	40	55	138.0	10
HDS 60	60	45	60	142.5	10
HDS 65	65	50	65	146.5	10
HDS 70	70	55	70	151.0	10
HDS 75	75	60	75	160.0	10
HDS 80	80	65	80	156.5	10
HDS 85	85	70	85	169.0	10
HDS 90	90	75	90	169.5	10
HDS 95	95	80	95	177.5	10
HDS 100	100	85	100	186.0	10
HDS 105	105	90	105	189.5	10
HDS 110	110	95	110	188.0	10
HDS 115	115	100	115	196.5	10
HDS 120	120	105	120	201.0	10
HDS 130	130	115	130	207.0	10
HDS 140	140	125	140	219.0	5
HDS 150	150	135	150	245.5	5
HDS 160	160	145	160	231.0	5
HDS 170	170	155	170	245.0	5
HDS 180	180	165	180	254.5	5
HDS 190	190	175	190	286.0	5
HDS 200	200	185	200	286.0	5
HDS 210	210	195	210	286.5	5
HDS 220	220	205	220	287.0	5

HST

Single Band(Steel)



SINGLE BAND(STEEL)

MODEL	SIZE(mm)	∅D(Min)	∅D(Max)	W.G(g)	Q'ty/Inbox
HST 40	40	33	40	83.5	10
HST 45	45	38	45	87.5	10
HST 50	50	43	50	92.5	10
HST 55	55	48	55	101.5	10
HST 60	60	53	60	97	10
HST 65	65	58	65	104	10
HST 70	70	63	70	110	10

HSS

Single Band(SUS)



SINGLE BAND(SUS)

MODEL	SIZE(mm)	∅D(Min)	∅D(Max)	W.G(g)	Q'ty/Inbox
HSS 40	40	33	40	55.5	10
HSS 45	45	38	45	55.5	10
HSS 50	50	43	50	66.5	10
HSS 55	55	48	55	78.5	10
HSS 60	60	53	60	82.5	10
HSS 65	65	58	65	82	10
HSS 70	70	63	70	96.5	10

AUTO ACE COUPLER(Steel)

Application

- Used for piping of compressed air connections.
- Used for air tool equipped with drive and impact.

Feature

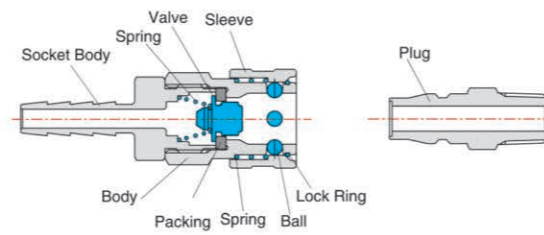
- one-touch joints
- Uni-directional shut-off coupler with an automatic shut-off valve built in the socket.
- Recommended for piping of compressed air.

Specification

Fluid	Air
Material	Steel(chrome~plated)
Working Pressure Range	10kgf / cm ² (1000kPa)
Maximum Pressure	20kgf / cm ² (2000kPa)



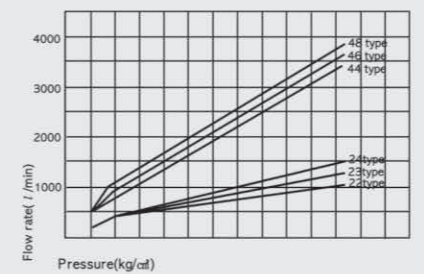
Structural Diagram



Auto Ace Coupler (Steel)



Flow Rate



Measuring Conditions

- Fluid type : Air
- Temperature : Room temperature(20°C)

How to check table

This diagram shows the flow quantity of input condition in flowing air.

Example

For 24 type, in case using pressure is 5kg/cm², find out flowing rate of vertical part according to the interchange of 24 type's round line and indicated arrow's pressure.

Product Code System

A H H 22

① ② ③ ④

① Auto Ace Couplers		② Type	
H	Socket	H	Hose Stem
		M	Male Thread
		F	Female Thread
		N	Hose Nut Type

③ Thread Size(T)						
Size	22	23	24	44	46	48
H	9.0	11.0	15.0	15.0	21.0	27.0
M	R1/4	R 3/8	R1/2	R1/2	R3/4	R1
F	Rc1/4	Rc 3/8	Rc1/2	Rc1/2	Rc3/4	Rc1
Size	21	22	23	24	25	26
N	8×5	9×6	10×6.5	12×8	12.5×8.5	16×11

► Minimum Sectional Area(mm²)

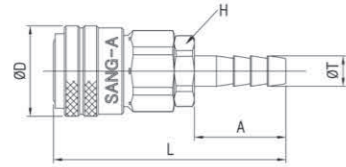
22 Type	23 Type	24 Type	44 Type	46 Type	48 Type
H M · F	H M · F	H M · F	H M · F	H M · F	H M · F
19 32	32 32	32 32	63 80	80 80	80 80

Common Using Precautions of Coupler Series

Never fail to check the following

- WARNING**
1. Avoid applying or removing when pressure is on. It causes the danger of jumping of plug body.
 2. Never touch the equipment under pressure in the state of putting plug and socket on the body. It causes "opening" by touch.
 3. Never use coupler in place of rotary joint or other revolving joint.
 4. Secure to flow the fluid from socket to plug.
 5. Avoid the instrument or machine giving strong bending weight, excessive vibration or shock.
 6. To use the coupler on a vibration tool such as jet chisel, be sure to connect with 30cm rubber tube between tool and coupler.
- CAUTION**
1. When putting plug into socket, secure to push it until it stops. Otherwise it may cause leakage. In addition, be sure to check whether it will come out or not by pulling it out.
 2. Be careful of plug body jumping by compressed air discharging when disconnecting.
 3. Be sure not only to have dust or contamination with intended fluid but also to have flaws on body. It may cause leakage.
 4. When pushing tube into the socket body, fix it with hose-band after wearing silicon.
 5. Never fasten the thread over maximum limit of torque. It may cause breakage.

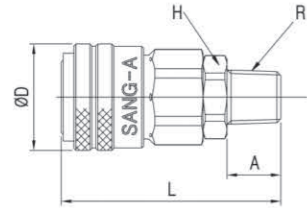
AHH
Plug Nipple



MODEL[ØD-T] Tube(Metric) – Thread(R)

MODEL	ØD	ØT	A	L	H	W.G(g)	Q'ty/Inbox
AHH 22	26.7	9	27	68.6	19	100.1	25
AHH 23	26.7	11	29	71.1	19	105.3	25
AHH 24	26.7	14.8	33	75.1	19	126.8	25

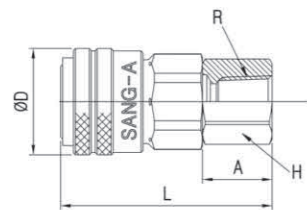
AHM
Plug Male



MODEL[ØD-T] Tube(Metric) – Thread(R)

MODEL	ØD	R	A	L	H	W.G(g)	Q'ty/Inbox
AHM 22	26.7	PT1/4	13.5	55.1	19	101.8	25
AHM 23	26.7	PT3/8	14	56.1	19	111	25
AHM 24	26.7	PT1/2	15	57.1	21	124.9	25

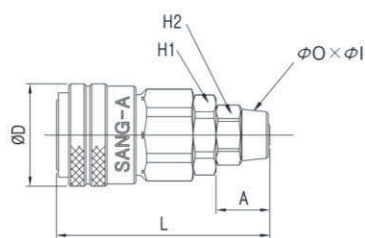
AHF
Plug Female



MODEL[ØD-T] Tube(Metric) – Thread(R)

MODEL	ØD	R	A	L	H	W.G(g)	Q'ty/Inbox
AHF 22	26.7	PT1/4	17.5	53.1	19	103.4	25
AHF 23	26.7	PT3/8	18.5	54.1	21	104.5	25
AHF 24	26.7	PT1/2	20	55.6	25	121.3	25

AHN
Plug Nut



MODEL[ØD-T] Tube(Metric) – Thread(R)

MODEL	ØD	A	L	H1	H2	ØO×Ø1	W.G(g)	Q'ty/Inbox
AHN 21	26.7	14	55.6	19	14	8X5	98.2	25
AHN 23	26.7	16	57.6	19	15	10X6.5	116.9	25
AHN 24	26.7	19	60.6	19	19	12X8	129.4	25

ACE COUPLER

Application

- Used for piping of compressed air connections.
- Used for air tool equipped with drive and impact.

Feature

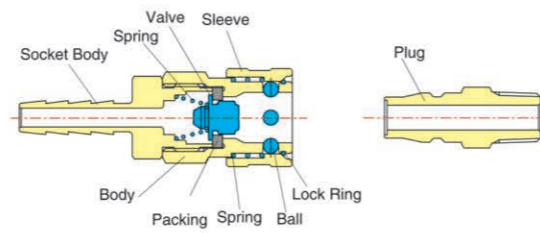
- Uni-directional shut-off coupler with an automatic shut-off valve built in the socket.
- Recommended for piping of compressed air.

Specification

Fluid	Air, Water, Oil		
Material	Brass(chrome-plated)	Steel(chrome-plated)	Stainless steel
Working Pressure Range	10kgf/cm ² (1000kPa)	10kgf/cm ² (1000kPa)	15kgf/cm ² (1500kPa)
Maximum Pressure	15kgf/cm ² (1500kPa)	20kgf/cm ² (2000kPa)	20kgf/cm ² (2000kPa)



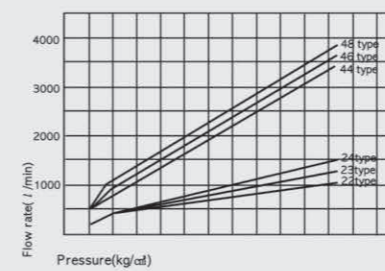
Structural Diagram



Ace Coupler (Steel)



Flow Rate



Measuring Conditions

- Fluid type : Air
- Temperature : Room temperature(20°C)

How to check table

This diagram shows the flow quantity of input condition in flowing air.

Example

For 24 type, in case using pressure is 5kg/cm², find out flowing rate of vertical part according to the interchange of 24 type's round line and indicated arrow's pressure.

Product Code System

C H 22

① ② ③

① Model

C	Plug
H	Socket

② Type

H	Hose Stem
M	Male Thread
F	Female Thread
N	Hose Nut Type

③ Thread Size(T)

Size	22	23	24	44	46	48
H	9.0	11.0	15.0	15.0	21.0	27.0
M	R1/4	R 3/8	R1/2	R1/2	R3/4	R1
F	Rc1/4	Rc 3/8	Rc1/2	Rc1/2	Rc3/4	Rc1

Size	21	22	23	24	25	26
N	8×5	9×6	10×6.5	12×8	12.5×8.5	16×11

▶ Minimum Sectional Area(mm²)

22 Type	23 Type	24 Type	44 Type	46 Type	48 Type
H M · F	H M · F	H M · F	H M · F	H M · F	H M · F
19 32	32 32	32 32	63 80	80 80	80 80

Common Using Precautions of Coupler Series

Never fail to check the following

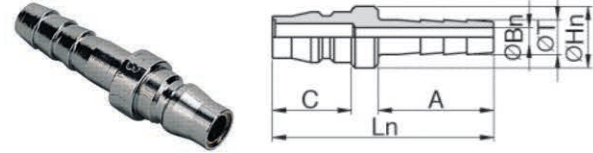
⚠ WARNING

1. Avoid applying or removing when pressure is on. It causes the danger of jumping of plug body.
2. Never touch the equipment under pressure in the state of putting plug and socket on the body. It causes "opening" by touch.
3. Never use coupler in place of rotary joint or other revolving joint.
4. Secure to flow the fluid from socket to plug.
5. Avoid the instrument or machine giving strong bending weight, excessive vibration or shock.
6. To use the coupler on a vibration tool such as jet chisel, be sure to connect with 30cm rubber tube between tool and coupler.

⚠ CAUTION

1. When putting plug into socket, secure to push it until it stops. Otherwise it may cause leakage. In addition, be sure to check whether it will come out or not by pulling it out.
2. Be careful of plug body jumping by compressed air discharging when disconnecting.
3. Be sure not only to have dust or contamination with intended fluid but also to have flaws on body. It may cause leakage.
4. When pushing tube into the socket body, fix it with hose-band after wearing silicon.
5. Never fasten the thread over maximum limit of torque. It may cause breakage.

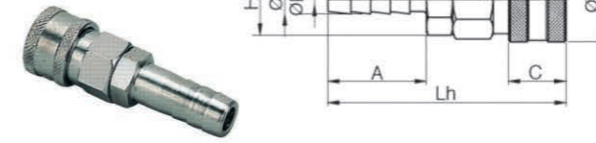
CH
Plug Nipple



MODEL[ØD-T] Tube(Metric) – Thread(R)

MODEL	Ln	C	A	ØBn	ØT	ØHn	W.G(g) Steel	W.G(g) Brass	Qty/Inbox
CH22	57.5	20.5	30	5	9	16	30.3	31.4	50
CH23	61.5	20.5	34	7	11	16	33	36.4	50
CH24	63.5	20.5	34	7	15	20	61.3	66.8	50
CH44	66	23	36	9	15	22	65.7	70.5	20
CH46	77	23.4	45	13	21	30	123.2	131.3	20
CH48	85	23.4	53.5	20	27	34	139.4	154.2	16

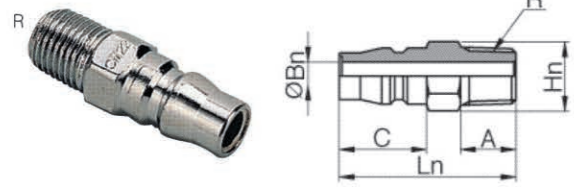
HH
Socket Nipple



MODEL[ØD-T] Tube(Metric) – Thread(R)

MODEL	Ln	C	A	ØBh	ØT	Hn	ØD	W.G(g) Steel	W.G(g) Brass	Qty/Inbox
HH22	72.5	17.5	30	5	9	19	26	103.7	111.5	20
HH23	76.5	17.5	34	7	11	19	26	107.5	115.2	20
HH24	78.5	17.5	36	7	15	19	26	128.4	129.7	20
HH44	83.1	20	36	9	15	29	34	215.6	234.5	12
HH46	92.1	20	45	14	21	29	34	240.5	260.4	12
HH48	102.1	20	55	20	27	29	34	277.2	298.6	9

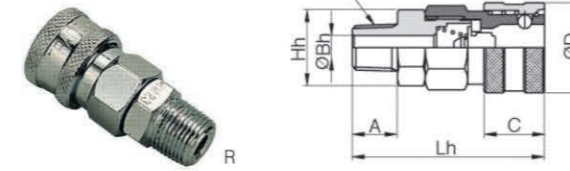
CM
Plug Male



MODEL[ØD-T] Tube(Metric) – Thread(R)

MODEL	Ln	C	A	R	ØBn	Hn	W.G(g) Steel	W.G(g) Brass	Qty/Inbox
CM21	37.5	20.5	9	R1/8	7	14	23	24.3	100
CM22	41.5	20.5	13	R1/4	7	14	25.6	29.8	100
CM23	42.5	20.5	14	R3/8	7	17	33.3	44.9	50
CM24	46.5	20.5	16	R1/2	7	22	65.9	76.8	25
CM44	50	23.4	16	R1/2	13	22	69.3	73.7	25
CM46	55	23.4	18	R3/4	13	32	117.8	124	12
CM48	63	23.4	23	R1	13	35	185.1	197.3	9

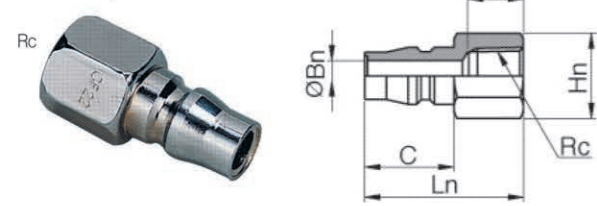
HM
Socket Male



MODEL[ØD-T] Tube(Metric) – Thread(R)

MODEL	Ln	C	R	A	ØBh	Hh	ØD	W.G(g) Steel	W.G(g) Brass	Qty/Inbox
HM22	55.5	17.5	R1/4	13	7	19	26	102	108.2	20
HM23	56.5	17.5	R3/8	14	7	19	26	111.3	119.1	20
HM24	58.5	17.5	R1/2	16	9	22	26	126.3	139	20
HM44	63.1	20	R1/2	16	10	29	34	207.9	224.7	12
HM46	66.1	20	R3/4	18	16	32	34	238.5	254.3	12
HM48	70.1	20	R1	23	22	35	34	281	293.7	12

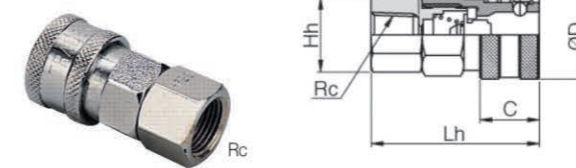
CF
Plug Female



MODEL[ØD-T] Tube(Metric) – Thread(R)

MODEL	Ln	C	A	Rc	ØBn	Hn	W.G(g) Steel	W.G(g) Brass	Qty/Inbox
CF22	36.5	20.5	14	Rc1/4	7	17	27.9	39	50
CF23	37.5	20.5	15	Rc3/8	7	22	37.4	50	50
CF24	38.5	20.5	16	Rc1/2	7	26	61.9	70.3	25
CF44	41	23	16	Rc1/2	13	29	91.3	73	25
CF46	45	23	17	Rc3/4	13	35	122.2	124.3	20
CF48	54	23	22	Rc1	13	41	200.8	197.2	12

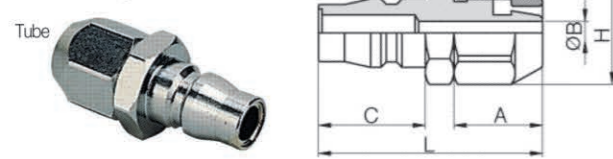
HF
Socket Female



MODEL[ØD-T] Tube(Metric) – Thread(R)

MODEL	Lh	C	Rc	A	Hn	ØD	W.G(g) Steel	W.G(g) Brass	Qty/Inbox
HF22	49.5	17.5	Rc1/4	14	19	26	101	110.9	20
HF23	50.5	17.5	Rc3/8	14	22	26	101.9	110	20
HF24	52.5	17.5	Rc1/2	15	26	26	119.7	132.6	20
HF44	57.1	20	Rc1/2	16	29	34	214	253	9
HF46	61.1	20	Rc3/4	17	35	34	256.8	274	9
HF48	68.1	20	Rc1	22	41	34	331.5	360	6

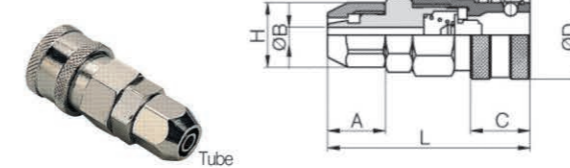
CN
Plug Nut



MODEL[ØD-T] Tube(Metric) – Thread(R)

MODEL	L	C	A	ØB	H	W.G(g) Steel	Qty/Inbox
CN21(8×5)	41	20.5	15	3.5	16	31.89	50
CN22(9×6)	43	20.5	17	4	17	37.3	50
CN23(10×6.5)	43	20.5	17	4.5	17	50.2	25
CN24(12×8)	46.5	20.5	20	6.5	19	70.3	25
CN25(12.5×8.5)	48.5	20.5	22	7	19	81.2	25
CN26(16×11)	52	20.5	25	9.5	24	113.5	12

HN
Socket Nut



MODEL[ØD-T] Tube(Metric) – Thread(R)

MODEL	L	C	A	ØB	H	ØD	W.G(g) Steel	Qty/Inbox
HN21(8×5)	58	17.5	15	3.5	16	26	100.9	20
HN22(9×6)	60	17.5	17	4	17	26	101.2	20
HN23(10×6.5)	59.5	17.5	17	4.5	17	26	119.1	20
HN24(12×8)	62.5	17.5	20	6.5	19	26	132.5	12
HN25(12.5×8.5)	65.3	17.5	22	7	19	26	147.5	12
HN26(16×11)	67.5	17.5	25	9.5	24	26	235.8	6

COMPACT ACE COUPLER

Application

- Used for piping of compressed air connections.
- Used for air tool equipped with drive and impact.

Feature

- Uni-directional shut-off coupler with an automatic shut-off valve built in the socket.
- Recommended for piping of compressed air.

Specification

Fluid	Air, Water, Oil		
Material	Brass(chrome-plated)	Steel(chrome-plated)	Stainless steel
Working Pressure Range	10kgf/cm ² (1000kPa)	10kgf/cm ² (1000kPa)	15kgf/cm ² (1500kPa)
Maximum Pressure	15kgf/cm ² (1500kPa)	20kgf/cm ² (2000kPa)	20kgf/cm ² (2000kPa)



Product Code System

H S H 22

① SMALL ② ③

① Model

H: Socket

② Type

H	Hose Stem
M	Male Thread
F	Female Thread
N	Hose Nut Type

③ Thread Size(T)

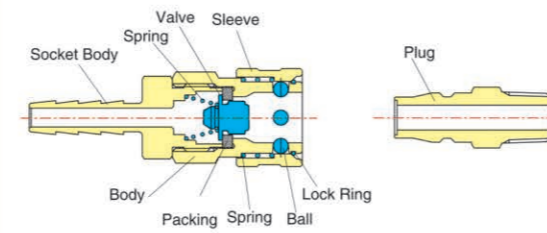
Size	22	23	24
H	9.0	11.0	15.0
M	R1/4	R 3/8	R1/2
F	Rc1/4	Rc 3/8	Rc1/2

Size	21	23	24
N	8×5	10×6.5	12×8

▶ Minimum Sectional Area(mm²)

22 Type		23 Type		24 Type	
H	M · F	H	M · F	H	M · F
19	32	32	32	32	32

Structural Diagram

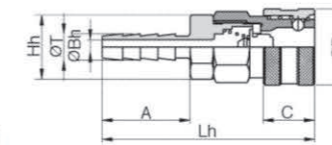


Compact Ace Coupler (Steel)



HSH

Socket Nipple

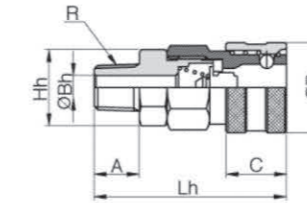


MODEL[ØD-T] Tube(Metric) – Thread(R)

MODEL	ØD	ØT	H	A	L	W.G(g)	Qty/Inbox
HSH 22	23.6	9	19	27	61.4	68.7	25
HSH 23	23.6	11	19	29	63.4	72	25
HSH 24	23.6	14.8	19	33	67.4	87.3	25

HSM

Socket Male

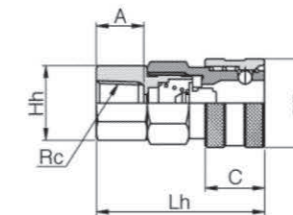


MODEL[ØD-T] Tube(Metric) – Thread(R)

MODEL	ØD	A	L	H	R	W.G(g)	Qty/Inbox
HSM 22	23.6	13.5	47.9	19	R1/4	67.8	25
HSM 23	23.6	14.0	48.4	19	R3/8	71.6	25
HSM 24	23.6	15	49.4	20.6	R1/2	82.8	25

HSF

Socket Female

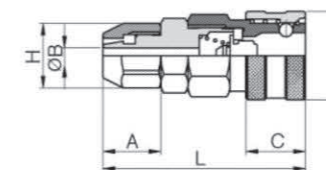


MODEL[ØD-T] Tube(Metric) – Thread(R)

MODEL	ØD	A	L	H	R	W.G(g)	Qty/Inbox
HSF 22	23.6	17.5	45.9	19	R1/4	77.8	25
HSF 23	23.6	18.5	46.9	20.6	R3/8	77.4	25
HSF 24	23.6	20	48.4	25	R1/2	90.3	25

HSN

Socket Nut



MODEL[ØD-T] Tube(Metric) – Thread(R)

MODEL	ØD	A	L	H1	H2	H×Ø	W.G(g)	Qty/Inbox
HSN 21	23.6	14	48.4	19	14	Ø8X5	70.5	25
HSN 23	23.6	16	50.4	19	15	Ø10X6.5	73.6	25
HSN 24	23.6	19	53.4	19	19	Ø12X8	82.4	25

MODEL	ØD	A	L	C	H1	H2	H×Ø	W.G(g)	Qty/Inbox
HSN S21	23.6	16.7	51.1	71.8	19	15	Ø8X5	79.8	25
HSN S23	23.6	20.5	54.9	76.2	19	16	Ø10X6.5	87	20
HSN S24	23.6	25	65	75.9	19	19	Ø12X8	97	20

MINOR COUPLER

Application

- Used for piping of compressed air connections.
- Used for air tool equipped with drive and impact.

Feature

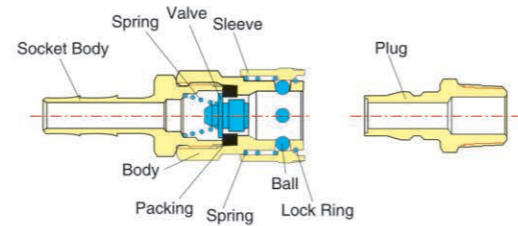
- Light and easy to use for it's made of ZnDc.

Specification

Fluid	Air
Material	ZnDc(chrome-plated)
Working Pressure Range	10kgf/cm ² (1000kPa)
Maximum Pressure	15kgf/cm ² (1500kPa)



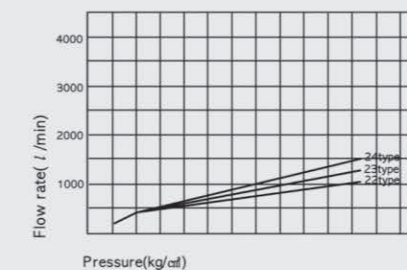
Structural Diagram



Minor Coupler



Flow Rate



Measuring Conditions

- Fluid type : Air
- Temperature : Room temperature(20°C)

How to check table

This diagram shows the flow quantity of input condition in flowing air.

Example

For 24 type, in case using pressure is 5kg/cm², find out flowing rate of vertical part according to the interchange of 24 type's round line and indicated arrow's pressure.

Product Code System

MC H 22

① ② ③

① Model

MC	Plug
MH	Socket

② Type

H	Hose Stem
M	Male Thread
F	Female Thread
N	Hose Nut Type

③ Thread Size(T)

Size	22	23	24
H	9.0	11.0	15.0
M	R1/4	R 3/8	R1/2
F	Rc1/4	Rc 3/8	Rc1/2

Size	21	22	23
N	8×5	10×6.5	12×8

▶ Minimum Sectional Area (mm²)

22 Type		23 Type		24 Type	
H	M · F	H	M · F	H	M · F
19	32	32	32	32	32

Common Using Precautions of Coupler Series

Never fail to check the following

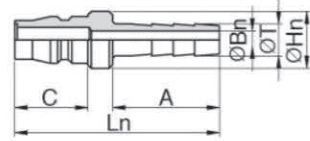
⚠ WARNING

1. Avoid applying or removing when pressure is on. It causes the danger of jumping of plug body.
2. Never touch the equipment under pressure in the state of putting plug and socket on the body. It causes "opening" by touch.
3. Never use coupler in place of rotary joint or other revolving joint.
4. Secure to flow the fluid from socket to plug.
5. Avoid the instrument or machine giving strong bending weight, excessive vibration or shock.
6. To use the coupler on a vibration tool such as jet chisel, be sure to connect with 30cm rubber tube between tool and coupler.

⚠ CAUTION

1. When putting plug into socket, secure to push it until it stops. Otherwise it may cause leakage. In addition, be sure to check whether it will come out or not by pulling it out.
2. Be careful of plug body jumping by compressed air discharging when disconnecting.
3. Be sure not only to have dust or contamination with intended fluid but also to have flaws on body. It may cause leakage.
4. When pushing tube into the socket body, fix it with hose-band after wearing silicon.
 - Never fasten the thread over maximum limit of torque, as it is made of ZINC. It may cause breakage.

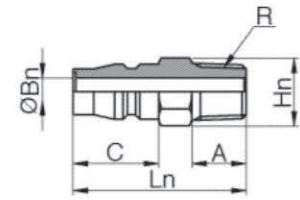
MCH
Plug Nipple



MODEL[ØD-T] Tube(Metric) – Thread(R)

MODEL	Ln	C	A	ØBn	ØT	ØHn	W.G(g)	Qty/In-Box
MCH22-S ZNDC	49.5	20.5	25	5	9	15	24.6	50
MCH23-S ZNDC	50.5	20.5	30	7	9.6	15	25.8	50
MCH24-S ZNDC	55.5	20.5	30	9	15	20	39.5	50

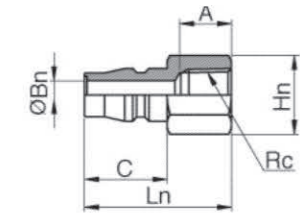
MCM
Plug Nipple Plug Male



MODEL[ØD-T] Tube(Metric) – Thread(R)

MODEL	Ln	C	A	R	ØBn	Hn	W.G(g)	Qty/In-Box
MCM22-S ZNDC	37.5	20.5	13	R1/4	7	14	25.8	100
MCM23-S ZNDC	38.5	20.5	13	R3/8	7	17	32.1	50
MCM24-S ZNDC	42	20.5	14.5	R1/2	7	22	46.9	50

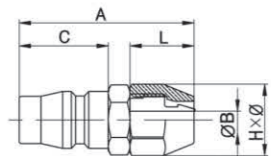
MCF
Plug Female



MODEL[ØD-T] Tube(Metric) – Thread(R)

MODEL	Ln	C	A	Rc	ØBn	Hn	W.G(g)	Qty/In-Box
MCF22-S ZNDC	34.5	20.5	12.5	Rc1/4	7	17	28.3	50
MCF23-S ZNDC	37	20.5	14	Rc3/8	7	22	32.9	50
MCF24-S ZNDC	38.5	20.5	15	Rc1/2	7	24	46.3	25

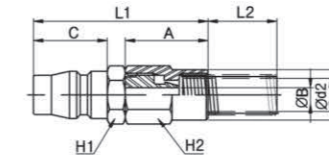
MCN
Plug Nut



MODEL[ØD-T] Tube(Metric) – Thread(R)

MODEL	L	C	A	ØB	HxØ	W.G(g)	Qty/In-Box
MCN21-S ZNDC	40.5	20.5	15	4	14x16	24.3	50
MCN23-S ZNDC	43.5	20.5	17	5	17x19	32.2	50
MCN24-S ZNDC	45.5	20.5	20	7	19x22	46.3	25

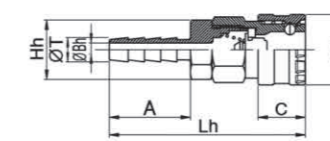
MCN-S
Plug Nut - Spring



MODEL[ØD-T] Tube(Metric) – Thread(R)

MODEL	ØD2	Ød2	ØB	L1	L2	A	C	H1	H2	W.G(g)	Qty/In-Box
MCN-S21S ZNDC	14	9.2	4	48.5	53	23	20.5	14	14	29.8	50
MCN-S23S ZNDC	17	11.2	5	53.5	67	27	20.5	17	17	39.2	25
MCN-S24S ZNDC	19	13.2	7	60.5	78	35	20.5	19	19	53.8	25

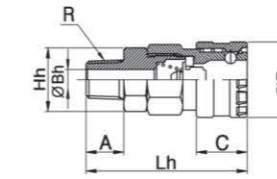
MHH
Socket Nipple



MODEL[ØD-T] Tube(Metric) – Thread(R)

MODEL	ØD	ØT	ØBn	Hn	Lh	A	C	W.G(g)	Qty/In-Box
MHH22-S ZNDC	26	9	5	19	65.5	25	17.5	88.7	25
MHH23-S ZNDC	26	11	7	19	70.5	30	17.5	89.6	25
MHH24-S ZNDC	26	15	9	19	70.5	30	17.5	94.2	25

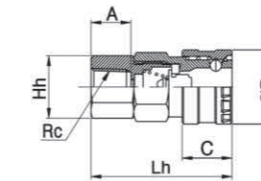
MHM
Socket Male



MODEL[ØD-T] Tube(Metric) – Thread(R)

MODEL	ØD	R	ØBn	Hn	Lh	A	C	W.G(g)	Qty/In-Box
MHM22-S ZNDC	26	R1/4	8.5	19	52.5	12	17.5	89.2	25
MHM23-S ZNDC	26	R3/8	9	19	53.5	13	17.5	90.8	25
MHM24-S ZNDC	26	R1/2	9	21	55.5	15	17.5	102	25

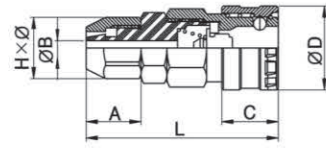
MHF
Socket Female



MODEL[ØD-T] Tube(Metric) – Thread(R)

MODEL	ØD	Rc	A	C	Hh	Lh	W.G(g)	Qty/In-Box
MHF22-S ZNDC	26	Rc1/4	12.5	17.5	19	48.5	88.1	25
MHF23-S ZNDC	26	Rc3/8	14	17.5	21	51	92.3	25
MHF24-S ZNDC	26	Rc1/2	15	17.5	26	52.5	102	25

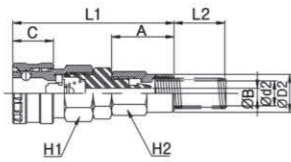
MHN
Socket Nut



MODEL[ØD-T] Tube(Metric) – Thread(R)

MODEL	ØD	L	A	C	ØB	H × Ø	W.G(g)	Qty/ Inbox
MHN21-S ZNDC	26	55.5	15	17.5	4	14 × 16	83.2	25
MHN23-S ZNDC	26	57.5	17	17.5	5	17 × 19	90.8	25
MHN24-S ZNDC	26	60.5	20	17.5	7	19 × 22	103.2	25

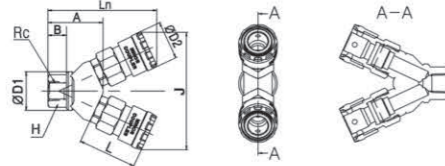
MHN-S
Socket Nut Spring



MODEL[ØD-T] Tube(Metric) – Thread(R)

MODEL	ØD2	Ød2	ØB	L1	L2	A	C	H1	H2	W.G(g)	Qty/ Inbox
MHN-S21S ZNDC	14	9.2	4	83	53	23	20.5	14	14	88.7	25
MHN-S23S ZNDC	17	11.2	5	88	67	27	20.5	17	17	97.8	20
MHN-S24S ZNDC	19	13.2	7	95	78	35	20.5	19	19	110.7	20

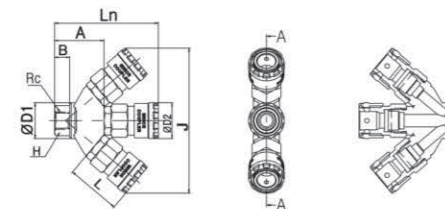
MLY
Branch Y



MODEL[ØD-T] Tube(Metric) – Thread(R)

MODEL	Rc	Ln	L	ØD1	ØD2	A	B	J	H	W.G(g)	Qty/ Inbox
MLY 22	Rc1/4	73.2	39.5	26	26	37	12.5	79	19	264.0	10

MLW
Branch Triple



MODEL[ØD-T] Tube(Metric) – Thread(R)

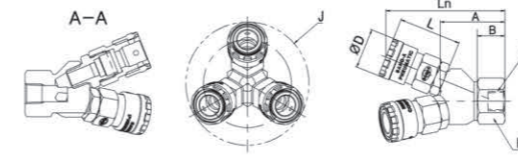
MODEL	Rc	Ln	L	ØD1	ØD2	A	B	J	H	W.G(g)	Qty/ Inbox
MLW 22	Rc1/4	75.5	39.5	26	26	20	11	105.5	19	352	8

MLR
Branch R



MODEL[ØD-T] Tube(Metric) – Thread(R)

MODEL	Rc	Ln	L	ØD	A	B	ØJ	H	W.G(g)	Qty/ Inbox
MLR 22	Rc1/4	82	39.5	26	42	18	90	26	352	5
MLR 23	Rc3/8	82	39.5	26	42	18	90	26	350	5



HP COUPLER

Application

- Used for plant piping of chemicals, steam and oil.

Feature

- Bi-directional shut-off coupler with an automatic shut-off valve incorporated on the both sides of CORK and HOLE.
- Excellent airtight effect, designed with high precision processing technology.

Specification

Fluid	Air, Water, Oil, Steam, Medicines, Gasolin (Another way air for Special Order)
Material	Brass
Working Pressure Range	0~70kgf/cm ² (7000kpa)
Temperature Range	-20~80℃

Product Code System

① 8 H

① Thread Size(T)

	Thread Size									
Code	1	2	3	4	6	8	10	12	16	
Size	Rc1/8"	Rc1/4"	Rc3/8"	Rc1/2"	Rc3/4"	Rc1"	Rc1 1/4"	Rc1 1/2"	Rc2"	

② Model

C	Plug
H	Socket

Valve Symbols



Two-way shut-off

Working Pressure



70kgf/cm²

Applicable fluids



Water Oil Gasoline

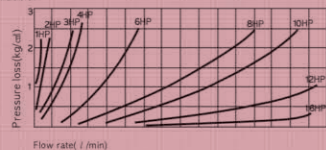


Steam Chemicals Air

► Minimum Sectional Area

Products Code	1HP	2HP	3HP	4HP	6HP	8HP	10HP	12HP	16HP
Minimum Sectional Area(cc)	11	23	46	89	198	315	580	870	1240
Inflow air volume(mm ³)	0.52	1.02	2.40	3.20	10.50	17.00	27.20	29.80	60.00

► Flow Rate



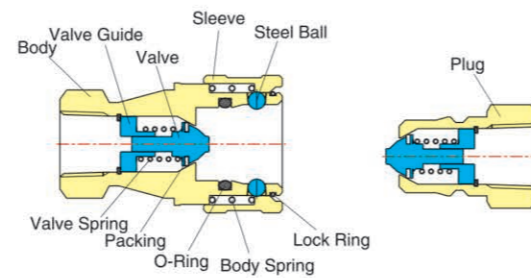
► Measuring Conditions

Fluid type : Water
Temperature : 30℃ ± 5℃
Motional viscosity : 50cm-Strokes
Specific gravity : 0.8727 × 10-3kg/cm³

► How to check table

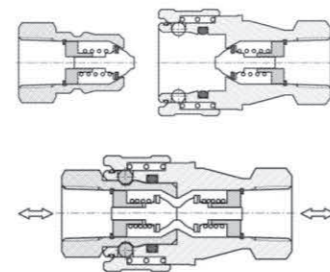
For example, when flowing 100l/mm of fluid at 6HP, the intersection of the horizontal axis flow at 100l/mm, makes a pressure loss of 2kg/cm².

Structural Diagram



► Automatic air flow control

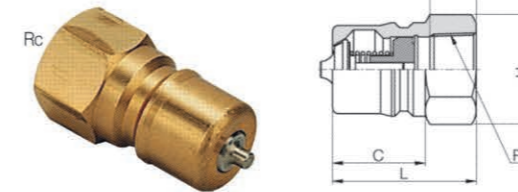
When disconnecting, the valves in the socket and plug instantly seal the air flow to prevent leakage. On the contrary, when connected, the valves in the socket and plug are opened and permit free flow of fluid through the couplings.



HP Coupler

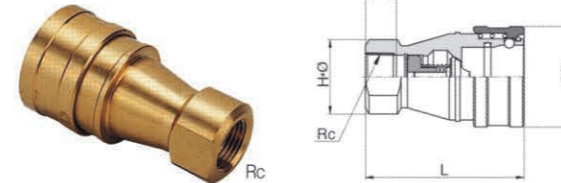
C

Plug Female



H

Socket Female



MODEL [ØD-T] Tube(Metric) – Thread(R)

MODEL	L	C	Rc	A	H	W.G(g)	Qty/Inbox
HP 1C(BRASS)	29	19	Rc1/8	11	14	18.6	100
HP 2C(BRASS)	36	22	Rc1/4	13	17	35.2	50
HP 3C(BRASS)	40	25	Rc3/8	13	21	60.3	25
HP 4C(BRASS)	44	28.4	Rc1/2	16	29	121.1	20
HP 6C(BRASS)	52	36	Rc3/4	17	35	208.1	12
HP 8C(BRASS)	62	40	Rc1"	20	41	347.2	6
HP 10C(BRASS)	70	45	Rc 1 1/4	24	54	649.6	1
HP 12C(BRASS)	75	49	Rc 1 1/2	24	63	923.4	1
HP 16C(BRASS)	80	52	Rc2"	27	77	1,574	1

MODEL [ØD-T] Tube(Metric) – Thread(R)

MODEL	L	ØD	Rc	A	H × Ø	W.G(g)	Qty/Inbox
HP 1H(BRASS)	48	23.6	Rc1/8	11	2hex14 × 18	82.1	25
HP 2H(BRASS)	58	27.5	Rc1/4	13	2hex19 × 22	131.8	25
HP 3H(BRASS)	65	34.5	Rc3/8	13	2hex21 × 25	201.6	12
HP 4H(BRASS)	72	44.5	Rc1/2	16	2hex29 × 35	421	6
HP 6H(BRASS)	88	54.5	Rc3/4	17	2hex35 × 41	698.6	2
HP 8H(BRASS)	102	64.5	Rc1"	20	2hex41 × 48	1,061.4	2
HP 10H(BRASS)	115	77.5	Rc 1 1/4	24	2hex54 × 59	1,724.1	1
HP 12H(BRASS)	124	87.8	Rc 1 1/2	24	2hex64 × 69	2,569.9	1
HP 16H(BRASS)	132	109	Rc2"	27	2hex77 × 86	3,867.1	1

Common Using Precautions of Coupler Series

Never fail to check the following

⚠ WARNING

1. Avoid applying or removing when pressure is on. It causes the danger of jumping of plug body.
2. Never touch the equipment under pressure in the state of putting plug and socket on the body. It causes "opening" by touch.
3. Never use coupler in place of rotary joint or other revolving joint.
4. Secure to flow the fluid from socket to plug.
5. Avoid the instrument or machine giving strong bending weight, excessive vibration or shock.
6. To use the coupler on a vibration tool such as jet chisel, be sure to connect with 30cm rubber tube between tool and coupler.

⚠ CAUTION

1. When putting plug into socket, secure to push it until it stops.
Otherwise it may cause leakage. In addition, be sure to check whether it will come out or not by pulling it out.
2. Be careful of plug body jumping by compressed air discharging when disconnecting.
3. Be sure not only to have dust or contamination with intended fluid but also to have flaws on body. It may cause leakage.
4. When pushing tube into the socket body, fix it with hose-band after wearing silicon.
5. Never fasten the thread over maximum limit of torque. It may cause breakage.

MOLD COUPLER

Application

- Used for piping of supplying cooling water on moulds.

Feature

- Quick assembly by one touch system.
- Uni-directional shut-off coupler with an automatic shut-off valve built in the socket.
- Useful in narrow space with O.D.(18.5mm).
- Easy to connect or disconnect between cork and hole with long sleeve construction.

Specification

Fluid	Water, Oil
Material	Brass
Working Pressure Range	10kgf/cm ² (1000kPa)
Maximum Pressure	15kgf/cm ² (1500kPa)



Product Code System

KC H 22

① ② ③

① Model

KC	Plug
KH	Socket

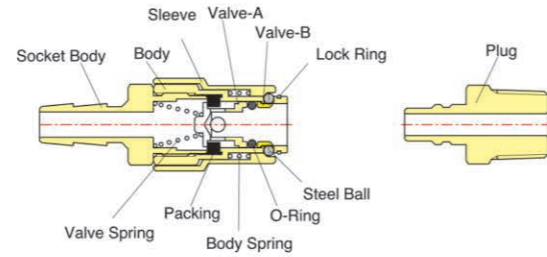
② Type

H	Hose Stem
M	Male Thread
F	Female Thread

③ Thread Size(T)

Size	21	22	23
H	1/8"	1/4"	3/8"
M	R1/8	R 1/4	R3/8
F	Rc1/8	Rc 1/4	Rc3/8

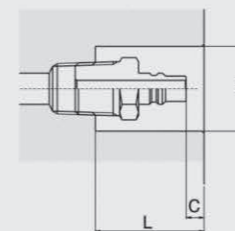
Structural Diagram



Mold Coupler



► Gland Dimensions for Embedding



Model	D	C	L
KCM21	20이상	0-3	28
KCM22	20이상	0-3	29
KCM23	23이상	0-3	30

- The size exceeding 3mm causes interference with socket, making connection and disconnection impossible.
- The size "D" is the smallest recommended diameter. Therefore, process the hole in optimal size.

Common Using Precautions of Coupler Series

Never fail to check the following

⚠ WARNING

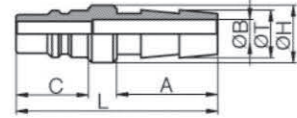
1. Avoid applying or removing when pressure is on. It causes the danger of jumping of plug body.
2. Never touch the equipment under pressure in the state of putting plug and socket on the body. It causes "opening" by touch.
3. Never use coupler in place of rotary joint or other revolving joint.
4. Secure to flow the fluid from socket to plug.
5. Avoid the instrument or machine giving strong bending weight, excessive vibration or shock.
6. To use the coupler on a vibration tool such as jet chisel, be sure to connect with 30cm rubber tube between tool and coupler.

⚠ CAUTION

1. When putting plug into socket, secure to push it until it stops. Otherwise it may cause leakage. In addition, be sure to check whether it will come out or not by pulling it out.
2. Be careful of plug body jumping by compressed air discharging when disconnecting.
3. Be sure not only to have dust or contamination with intended fluid but also to have flaws on body. It may cause leakage.
4. When pushing tube into the socket body, fix it with hose-band after wearing silicon.
5. Never fasten the thread over maximum limit of torque. It may cause breakage.

KCH

Plug Nipple

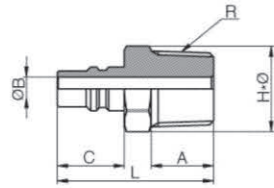


MODEL[ØD-T] Tube(Metric) – Thread(R)

MODEL	L	C	A	ØB	ØT	ØH	W.G(g)	Qty/ Inbox
KCH21 BRASS	42	15	21	4.5	8	12	12.5	100
KCH22 BRASS	42	15	21	6	10	12	15.5	100
KCH23 BRASS	42	15	21	7	12	14	20.1	100

KCM

Plug Male

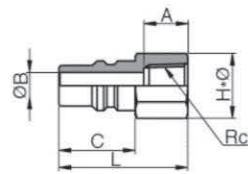


MODEL[ØD-T] Tube(Metric) – Thread(R)

MODEL	L	C	A	R	ØB	H×Ø	W.G(g)	Qty/ Inbox
KCM21 BRASS	31	15	11	R1/8	5.3	12.0×13.5	14.19	100
KCM22 BRASS	34	15	13	R1/4	5.3	14.0×15.5	22.66	100
KCM23 BRASS	35	15	14	R3/8	5.3	17.0×19.2	35.56	50

KCF

Plug Female

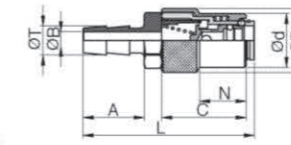


MODEL[ØD-T] Tube(Metric) – Thread(R)

MODEL	L	C	A	Rc	ØB	H×Ø	W.G(g)	Qty/ Inbox
KCF21 BRASS	28	15	10	Rc1/8	5.3	14×15.5	17.3	100
KCF22 BRASS	30.5	15	13	Rc1/4	5.3	17×19.2	24.5	50
KCF23 BRASS	32	15	14	Rc3/8	5.3	21×23.8	35.2	50

KHH

Socket Nipple

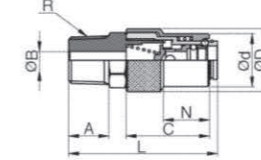


MODEL[ØD-T] Tube(Metric) – Thread(R)

MODEL	L	A	C	N	ØB	ØT	ØD	Ød	W.G(g)	Qty/ Inbox
KHH21 BRASS	58.8	21	29	16	4.5	6.5	22	18.5	62.2	25
KHH22 BRASS	58.8	21	29	16	6	10	22	18.5	63.3	25
KHH23 BRASS	58.8	21	29	16	7	12	22	18.5	65.6	25
KHH24 BRASS	58.8	21	29	16	9	16	22	18.5	73.9	25

KHM

Socket Male

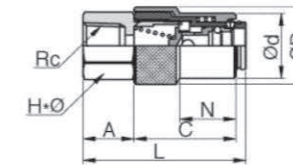


MODEL[ØD-T] Tube(Metric) – Thread(R)

MODEL	L	A	C	N	ØB	R	ØD	Ød	W.G(g)	Qty/ Inbox
KHM21 BRASS	48.8	11	29	16	6	R1/8	22	18.5	63	25
KHM22 BRASS	50.8	13	29	16	6	R1/4	22	18.5	67.7	25
KHM23 BRASS	51.8	14	29	16	6	R3/8	22	18.5	76.3	25

KHF

Socket Female



MODEL[ØD-T] Tube(Metric) – Thread(R)

MODEL	L	A	C	N	H×Ø	Rc	ØD	Ød	W.G(g)	Qty/ Inbox
KHF21 BRASS	43.3	13	29	16	11×19	Rc1/8	22	18.5	64.3	25
KHF22 BRASS	46.3	13	29	16	17×19.2	Rc1/4	22	18.5	65.5	25

CAM-LOCK COUPLER

Application

- Can connect the pipes, hoses, tubes, tanks without tools.

Feature

- Liquids, vapors, gases, powders, air leaks, such as the contents can be transported safely.
 - Various products for various transport properties (acid, alkali, high temperature, low temperature, food, etc.), you can select the most suitable products.

Specification

Material	Aluminum, Stainless Steel
Fluid	Air, Gas, Liquid
Temperature Range	-20 °c ~ 80 °c
Working Pressure Range	1/2" ~ 2" : 15kgf/cm ²
	2 1/2" ~ 4" : 10kgf/cm ²
	5" ~ 8" : 5kgf/cm ²



Product Code System

CA 1/2"

① ② ③

① Model : Cam-Lock Coupling

② Type

A	Female Thread Adapter	E	Hose Shank Coupler
B	Male Thread Coupler	F	Male Thread Coupler
C	Hose Shank Coupler	DC	Dust Cap
D	Female Thread Coupler	DP	Dust Plug

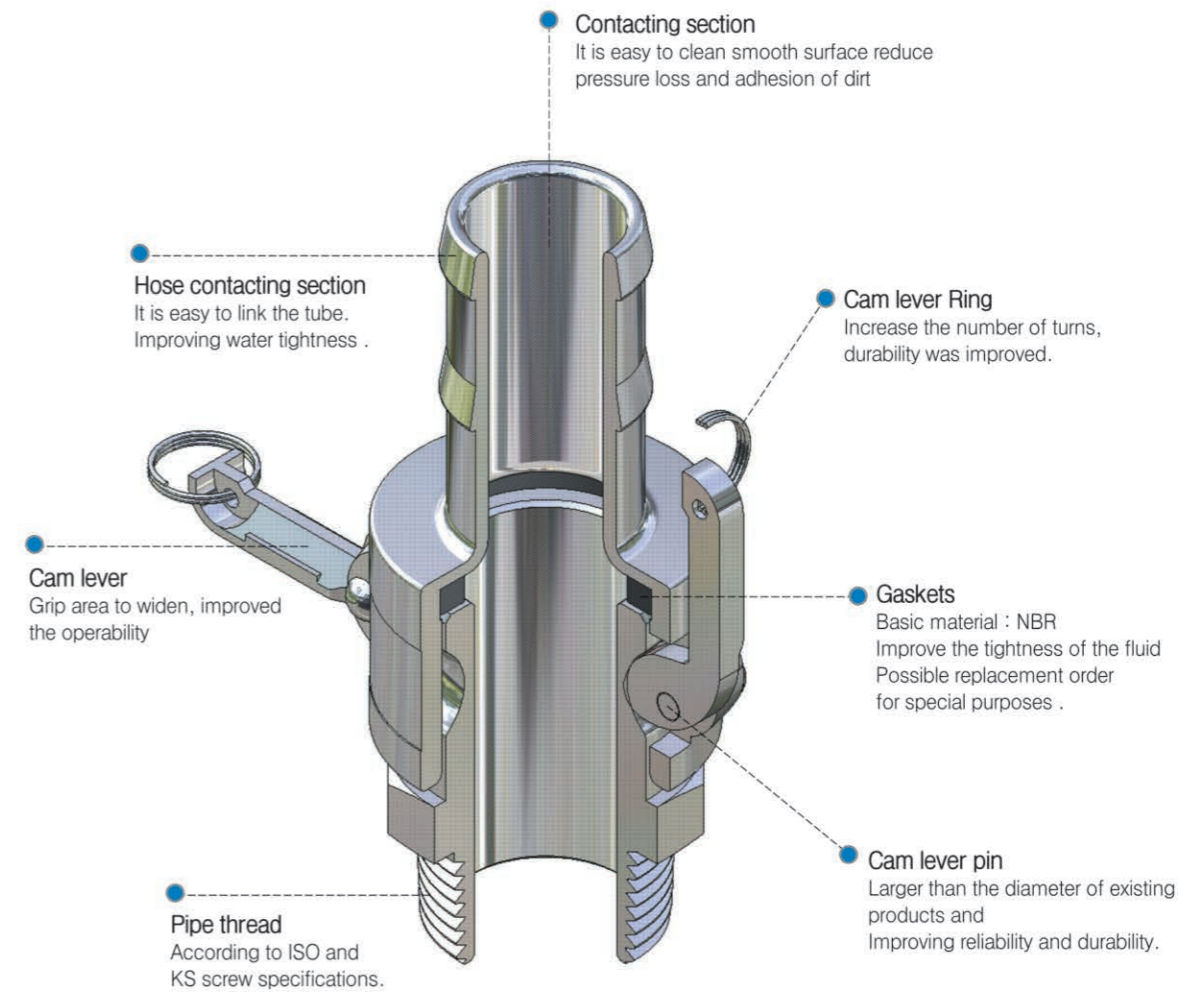
③ Thread Size(T)

Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"
mm	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"

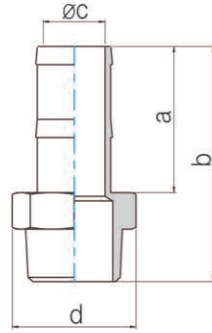
Cam-Lock Coupler



Structure & Features



CHM(SUS)
Hose Coupler



MODEL	a	b	Øc	d	W.G(g)	Q'ty/Inbox
CHM(SUS) 3/4"	48	78	14.2	34	136.9	10
CHM(SUS) 1"	56	91	21	40	202.1	10
CHM(SUS) 1 1/4"	64	102	27	50	340.9	10
CHM(SUS) 1 1/2"	72.4	109	33.5	56	405.6	10
CHM(SUS) 2"	78.5	118	44	63	587.3	10
CHM(SUS) 2 1/2"	90	137	58	80	867.2	12
CHM(SUS) 3"	100	150	70	96	1254.9	8
CHM(SUS) 4"	132	188	95	118	2125.9	6

ADJUSTABLE COOLANT NOZZLE

Feature

- Easy control of angle, length and diameter of the nozzle.
- Can be applied widely for a variety of chemical.
- Chemical, impact, heat resistance is excellent.
- Material: Dupont DelrinR 100 acetalpolyoxymethelene (POM) resin
- Chemical, impact, heat resistance is excellent.

Specification

Fluid	Air, Water, Oil	
Material	Acetal	
Melting Point	165°C	
Temperature Range	32 ~ 158°F	0 ~ 70°C

Flow Rates

Type	Pressure(kg/cm ²)	Flow Rates (L/hr)
1/4" System	2~3.5	900
3/8" System	2~3.5	1,500
1/2" System	1.5~2.5	1,800
3/4" System	0.7~1.4	1,900



Product Code System

JC 1/4" 02

① ② ③

① Type

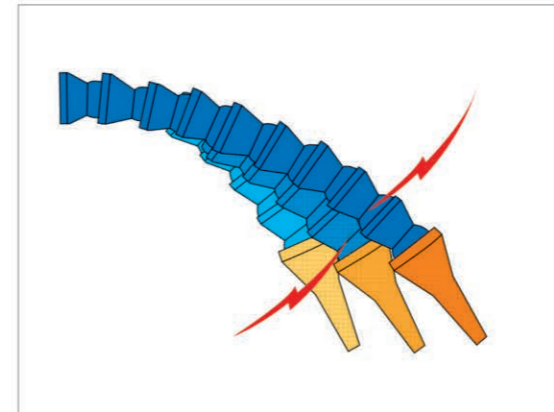
② Tube Dia(ØD)

CODE	Inch Size			
	1/4"	3/8"	1/2"	3/4"
DIA	Ø1/4	Ø3/8	Ø1/2	Ø3/4

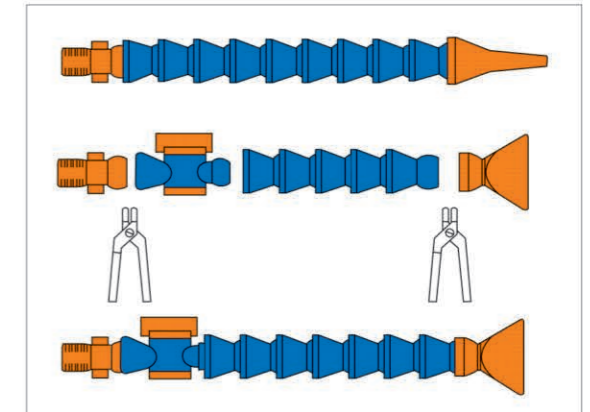
③ Thread Size (R)

CODE	Taper Pipe Thread			
	01	02	03	04
SIZE	R1/8	R1/4	R3/8	R1/2

Adjustable Coolant Nozzle

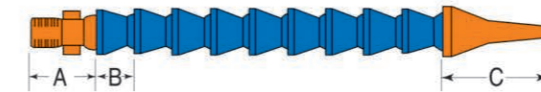


Once the target is set, it will not bounce back.



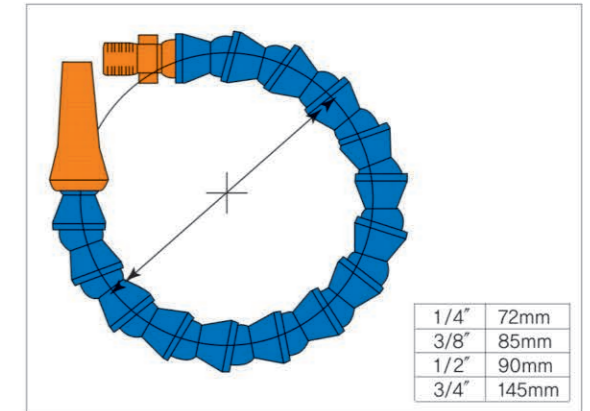
You can connect the coolant hose to any configuration with the assemble pliers.

▼ Size when assembled calculations



	Fitting (A)	Hose (B×Q'ty)	Nozzle (C)	= Length
1/4"	20.5mm (83025611)	15mm × Q'ty (83015600)	+ 30mm (83035600)	= Length
3/8"	25mm (83026013)	17.5mm × Q'ty (83016000)	+ 33mm (83036002)	= Length
1/2"	29.5mm (83026214)	21.5mm × Q'ty (83016200)	+ 38mm (83036203)	= Length
3/4"	30mm (83026716)	23.5mm × Q'ty (83016700)	+ 43mm (83036706)	= Length

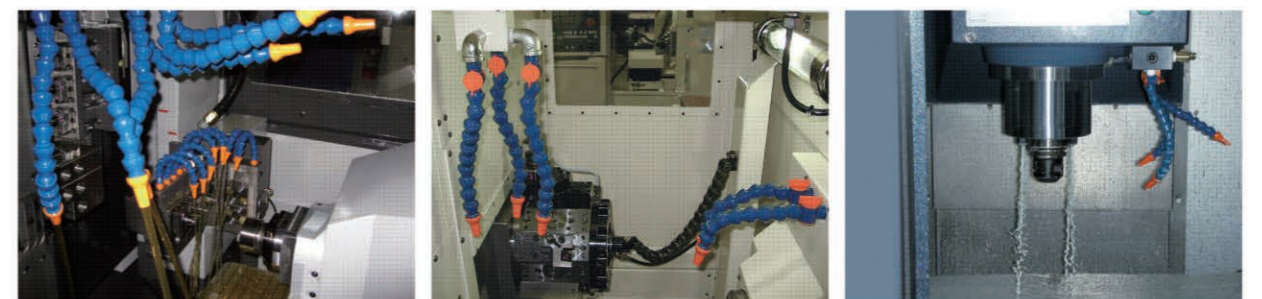
▼ Minimum circle diameter

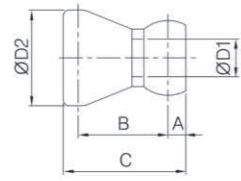


▼ Compatibility with chemical agents

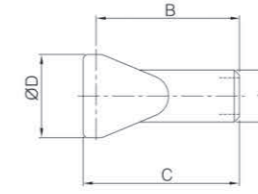
Chemicals	Pass/fail	Chemicals	Pass/fail
Solvent	0	Fertilizer	0
Lubricant	0	Acetone	0
Hydraulic	0	Benzene	0
Brake Fluid	0	Castor	0
Petroleum products	0	Phosphate	X
Detergent	0	Hydrochloric acid	X
Abscess	0	Hydrogen Peroxide	X
Herbicides	0	Sulfuric acid	X
Pesticides	0	Hypochlorite	X

Case in Use

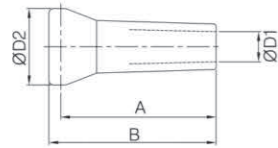




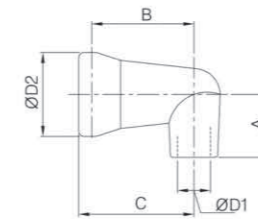
MODEL	ØD1	ØD2	A	B	C	Q'ty/Inbox
JH 1/4	6.3	16	3	15	20.5	200
JH 3/8	9.5	21	4.5	17.5	25	112
JH 1/2	12.7	25	5.5	21.5	30.5	60
JH 3/4	19	31	5.5	23.5	33.5	30



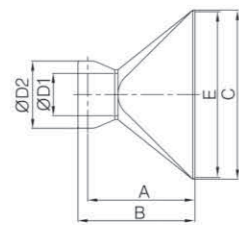
MODEL	ØD	A	B	C	Q'ty/Inbox
JNFS 1/4 7mm	16	10	27.5	30	25



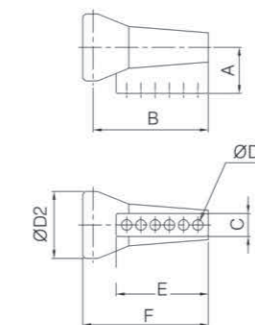
MODEL	ØD1	ØD2	A	B	Q'ty/Inbox
JN 1/4 -1/16	1.5	16	27.5	30	100
JN 1/4 -1/8	3.2	16	27.5	30	100
JN 1/4 -1/4	6.3	16	32.5	35	100
JN 3/8 -1/4	6.3	21	30	33	20
JN 3/8 -3/8	9.5	21	36	39	20
JN 3/8 -1/2	12.7	21	30	33	20
JN 1/2 -1/4	6.3	25	34.5	38	50
JN 1/2 -3/8	9.5	25	34.5	38	50
JN 1/2 -1/2	12.7	25	34.5	38	50
JN 3/4 -5/8	15.9	31	38.5	43	20
JN 3/4 -3/4	19.5	31	38.5	43	20



MODEL	ØD1	ØD2	A	B	C	Q'ty/Inbox
JNL 1/4 -1/16	1.6	16	12	19.5	22	100
JNL 1/4 -1/8	3.2	16	12	19.5	22	100
JNL 1/4 -1/4	6.3	16	12	19.5	22	100
JNL 1/2 -1/4	6.3	25	18	26.5	30	50
JNL 1/2 -3/8	9.5	25	18	26.5	30	50
JNL 1/2 -1/2	12.7	25	18	26.5	30	50

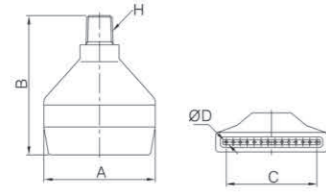


MODEL	ØD1	ØD2	A	B	C	E	Q'ty/Inbox
JNF 1/4 -1"	6.3	16	23.5	26	27	25.4	25
JNF 3/8 -1" 1/4	9.5	21	36	39	34	32	20
JNF 1/2 -1" 1/4	12.7	25	38	42.5	35	32	20
JNF 1/2 -1" 3/4	12.7	25	47	50.5	66.5	63.5	20
JNF 1/2 -2" 1/2	12.7	25	47	50.5	48	44.5	20
JNF 3/4 -3"	19.5	31	49.5	54	78	76.2	10



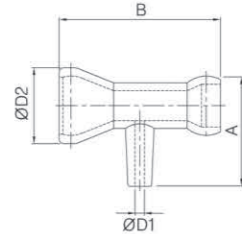
MODEL	ØD1	ØD2	A	B	C	E	F	Q'ty/Inbox
JNSL 1/4	2.5	16	11	27.5	5.5	22	30	100

JNS
Spray Nozzle



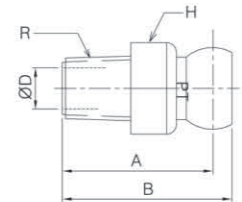
MODEL	ØD	A	B	C	H	Q'ty/Inbox
JNS 1/4	1	40	50	32.5	R1/8	25

JNT
T Nozzle



MODEL	ØD1	ØD2	A	B	Q'ty/Inbox
JNT 1/4	2	16	23.2	34	20

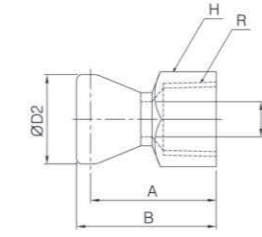
JC
Connector



MODEL	ØD	A	B	H	R	Q'ty/Inbox
JC 1/4 - 01	6.3	23	26	14	R1/8	100
JC 1/4 - 02	6.3	23	26	14	R1/4	100
JC 3/8 - 03	9.5	27.5	32	19	R3/8	50
JC 3/8 - 04	9.5	27.5	32	21	R1/2	50
JC 1/2 - 03	12.7	33	38.5	19	R3/8	50
JC 1/2 - 04	12.7	33	38.5	22	R1/2	50
JC 3/4 - 06	19.5	34.5	40	28	R3/4	20

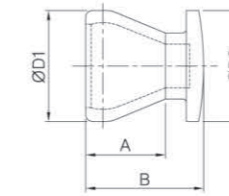
JCF

Female Screw connector



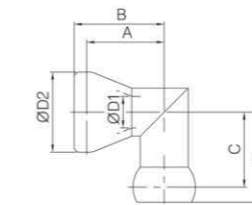
MODEL	ØD1	ØD2	A	B	H	R	Q'ty/Inbox
JCF 1/4-02	6.3	16	22.5	25	17	R1/4	20

JCAP
Sealing Cap



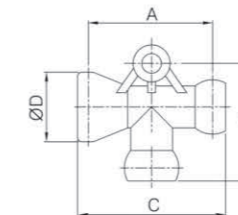
MODEL	ØD1	ØD2	A	B	Q'ty/Inbox
JCAP 1/4	16	16	11.5	17	20

JL
L Fitting



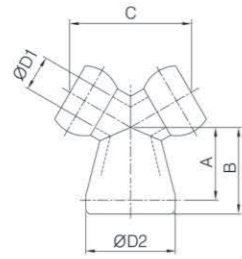
MODEL	ØD1	ØD2	A	B	C	E	Q'ty/Inbox
JL 1/4	6.3	16	15.5	18	15	18.0	20
JL 1/2	12.7	25	22.5	26	19.5	25	20

JT
T Fitting



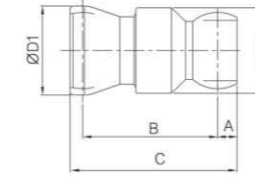
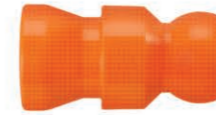
MODEL	ØD	A	B	C	Q'ty/Inbox
JT 1/4	16	28.5	27	34	20
JT 1/2	25	41	40	50	20

JY
Y Fitting



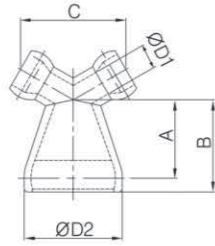
MODEL	ØD1	ØD2	A	B	C	Q'ty/Inbox
JY 1/4	6.3	16	13	15.5	21.7	20
JY 1/2	6.3	25	20	23.5	42.5	20
JY 3/4	6.3	31	24	28.5	48.5	10

JCV
In-Line Check Valve



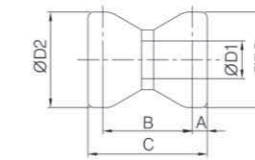
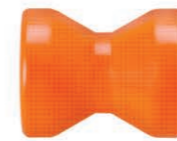
MODEL	ØD1	ØD2	A	B	C	Q'ty/Inbox
JCV 1/4	16	21	3	36.5	42	20
JCV 1/2	25	24	5.5	38	47	20

JRY
Reducing Y Fitting



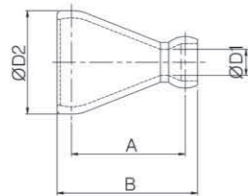
MODEL	ØD1	ØD2	A	B	C	Q'ty/Inbox
JRY 1/2 - 1/4	6.3	25	20	23.5	27	20
JRY 3/4 - 1/2	12.7	31	24	28.5	45	10

JDS
Double sockets



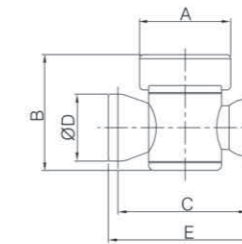
MODEL	ØD1	ØD2	ØD3	A	B	C	Q'ty/Inbox
JDS 1/4	6.3	16	16	2.5	30	40	20

JR
Adapter



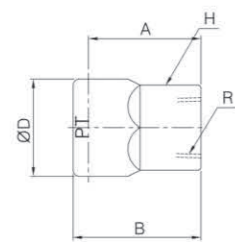
MODEL	ØD1	ØD2	A	B	Q'ty/Inbox
JR 1/2 - 1/4	6.3	25	27.5	34	20
JR 3/4 - 1/2	12.7	31	29	39	10

JV
In-line valve



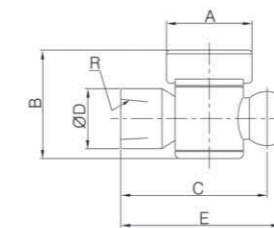
MODEL	ØD	A	B	C	E	Q'ty/Inbox
JV 1/4	16	27	30	30	36	20
JV 1/2	25	34	43	48.5	57	20

JSF
Female Screw Sockets



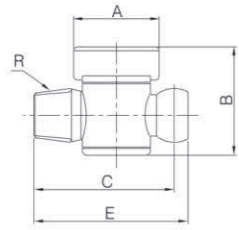
MODEL	ØD	A	B	H	R	Q'ty/Inbox
JSF 1/4 - 01	16	18.5	21	14	R1/8	20

JVF
Valve female screw



MODEL	ØD	A	B	C	E	R	Q'ty/Inbox
JVF 1/4 - 02	16	27	30	42	45	R1/4	50
JVF 1/2 - 04	24	34	43	56.5	62	R1/2	20

JVM
Valve male screw



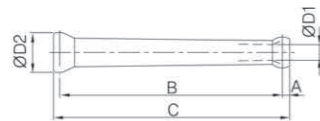
MODEL	A	B	C	E	R	Q'ty/Inbox
JVM 1/4 - 02	27	30	41	44	R1/4	50
JVM 3/8 - 03	25	34	44.5	49	R3/8	15
JVM 1/2 - 04	34	43.2	55.9	61.4	R1/2	20

JMS
Total Flow Control Manifold Kit



MODEL	Q'ty/Inbox
JMS 1/4	3
JMS 1/2	3

JHL
Long hose



MODEL	ØD1	ØD1	A	B	C	Q'ty/Inbox
JHL 1/4	6.3	16	3	90	95.5	25
JHL 1/2	12.7	25	5.5	88	97	20

JMSV
Total Flow Control Manifold Kit



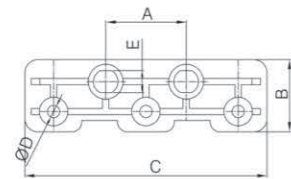
MODEL	Q'ty/Inbox
JMSV 1/4	2
JMSV 1/2	5

JHD
Hose Drum



MODEL	Q'ty/Inbox
JHD 1/4	1,015
JHD 3/8	868
JHD 1/2	701
JHD 3/4	645

JMB
Manifold Brackets



MODEL	ØD	A	B	C	E	Q'ty/Inbox
JMB 1/4	3.8	24.5	22	73.7	6.7	10
JMB 1/2	3.5	40	23	100	6.5	10

JP
Assembly Tool



MODEL	Q'ty/Inbox
JP 1/4	10
JP 3/8	10
JP 1/2	10
JP 3/4	10

High Pressure Nozzle

Feature

- Easy control of adjustable nozzle (injection point remains constant)
- Corresponding high water pressure , flow rate unchanged at maximum tilt angle
- Optimal use various machine tools (CNC machines, pholisher , etc.)
- Enhance the efficiency and precision.

Specification

Maximum Pressure	35kg / cm ²
Material	SUM 43
Temperature Range	70°C



Product Code System

JSN 01 40

JSNL 02 15

① ② ③ ① ② ④

① Type

CODE	JSN	JSNL
TYPE	STRAIGHT	ELBOW

② Thread Size

Metric Thread & R(PT) Thread

CODE	Metric Thread			Taper Pipe Thread			
	M10	M20	M24	01	02	03	04
SIZE	M10X1.25	M20X1.5	M24X2.0	R1/8	R1/4	R3/8	R1/2

③ Length of the nozzle

CODE	20	30	40	50	60	70	80
SIZE	20mm	30mm	40mm	50mm	60mm	70mm	80mm

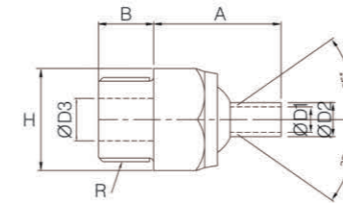
④ Angle of the nozzle

CODE	15	30
SIZE	15°	30°

High Pressure Nozzle

JSN

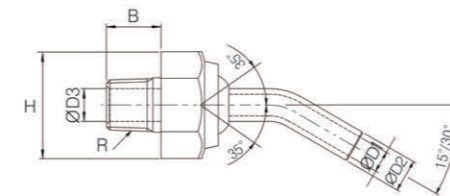
Steel Nozzle



MODEL	ØD1	ØD2	ØD3	A	B	H	R	Q'ty/Inbox
JSN M10-20	4	6	6	20	8.5	17	M10X1.25P	10
JSN M10-40	4	6	6	40	8.5	17	M10X1.25P	10
JSN M10-60	4	6	6	60	8.5	17	M10X1.25P	10
JSN M20-30	6	8	10	30	13	24	M20X1.5P	10
JSN M20-50	6	8	10	50	13	24	M20X1.5P	10
JSN M20-70	6	8	10	70	13	24	M20X1.5P	10
JSN M24-40	8	10	12	40	18	32	M24X2.0P	10
JSN M24-60	8	10	12	60	18	32	M24X2.0P	10
JSN M24-80	8	10	12	80	18	32	M24X2.0P	10
JSN 01-20	4	6	6	20	10	17	R1/8	10
JSN 01-40	4	6	6	40	10	17	R1/8	10
JSN 01-60	4	6	6	60	10	17	R1/8	10
JSN 02-20	4	6	6	20	10	17	R1/4	5
JSN 02-40	4	6	6	40	10	17	R1/4	5
JSN 02-60	4	6	6	60	10	17	R1/4	5
JSN 03-30	6	8	10	30	13	24	R3/8	5
JSN 03-50	6	8	10	50	13	24	R3/8	5
JSN 03-70	6	8	10	70	13	24	R3/8	5
JSN 04-40	8	10	12	40	18	32	R1/2	5
JSN 04-60	8	10	12	60	18	32	R1/2	5
JSN 04-80	8	10	12	80	18	32	R1/2	5

JSNL

Elbow Steel Nozzle



MODEL	ØD1	ØD2	ØD3	A	B	H	R	Q'ty/Inbox
JSNL 01-15	4	6	6	15	10	17	R1/8	5
JSNL 01-30	4	6	6	30	10	17	R1/8	5
JSNL 02-15	4	6	6	15	10	17	R1/4	5
JSNL 02-30	4	6	6	30	10	17	R1/4	5
JSNL 03-15	6	10	10	15	13	24	R3/8	10
JSNL 03-30	6	10	10	30	13	24	R3/8	10



Case in Use



