

Tube Fitting Standard Series

Characteristics

Standard type

- This quick-fitting joint is used in pneumatic piping.
(Use with water is possible depending on the conditions.)
- The Tube Fitting comes in a wide variety of models to meet all your needs in pneumatic piping.
- Even after installation, the direction of the tubing can be changed freely.

Clean-room Package

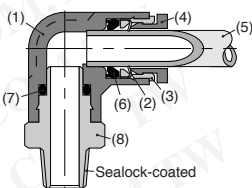
- Non-spattering lubrication (fluorine grease) prevents spattering in clean-room. (Order production)
- The products are washed by clean air, then packed in ISO class 6 clean-room.

Specifications

Type	Standard	Clean-room Package
Fluid medium	Air, water *1, *2, *3	Air
Max. operating pressure	150psi (1MPa)	
Max. vacuum	-29.5in. Hg (-100kPa)	
Operating temp. range	32~140°F (0~60°C)	

- *1. When using water, please limit the level of surge pressure to the maximum operating pressure or less.
- *2. General tap water can be used. Using water other than tap water should be consulted by Pisco.
- *3. When using water, make sure to use appropriate insert ring.

Construction



No	Parts	Standard pkg	Clean-room pkg
(1)	Resin body	PBT	PBT
(2)	Lock claws	stainless steel	stainless steel
(3)	Guide ring	nickel-plated brass	nickel-plated brass
(4)	Release ring	POM	POM
(5)	Tube	urethane or nylon	clean-room ready
(6)	Elastic sleeve	NBR	NBR
(7)	O-ring	NBR	NBR
(8)	Metallic body	nickel-plated brass	nickel-plated brass

- * The gasket of M or UNF thread is made of SUS304 & NBR, but it is made of POM if the fitting is clean-room package specification (C or WC).

Model Designation (Example)



- (1) Type
- (2) Tube dia. (øD) or Thread size (T)

Code	mm size					inch size							
	4	6	8	10	12	16	5/32	3/16	1/4	5/16	3/8	1/2	5/8
Dia.	ø4	ø6	ø8	ø10	ø12	ø16	ø5/32	ø3/16	ø1/4	ø5/16	ø3/8	ø1/2	ø5/8

- * In case (2) is thread size, please choose from the table (3).

- (3) Thread size (T) or Tube dia. (øD)

Code	Metric thread		Taper pipe thread			
	M5	M6	O1	O2	O3	O4
size	M5×0.8	M6×1	R1/8	R1/4	R3/8	R1/2

Code	Unified fine thread		American standard taper pipe thread			
	U10	N1	N2	N3	N4	
size	10-32UNF	NPT1/8	NPT1/4	NPT3/8	NPT1/2	

- * In case (3) is tube size, please choose from the table (2).

- (4) Specification/package option

Code	No code	W	C	WC
Package Classification	Standard pkg		Clean-room pkg	
Specification	Standard	Light-gray	Standard	Light-gray
Release-ring color	mm tube	Black	Light gray	Light blue
	inch tube	White	White	White
Resin body color	Black	Light gray	Light gray	Light gray
	M, R	M, R	M, R	M, R
Applicable thread size	UNF, NPT (not available for UNF or NPT as standard)			

- * Please also check a color chart on page 324.

- (5) Wrench size specification

U: inch spec. (NPT, UNF)
 No code: mm spec. (M, R)

▶ In case of ordering, please apply Model code in the following chart.

Detailed Safety Instructions

Before using the PISCO device, be sure to read the "Safety Instructions", "Common Safety Instructions for Products Listed in This Manual" on page 13 to 15 and "Common Safety Instructions for Quick-Fitting Joint" on page 18 to 19.

- ⚠Warning: 1. When the fluid medium is water, do not use the PISCO device unless the application satisfies all the conditions required in Specifications. Otherwise damage may be caused to the joint body, the tube may come off or leakage may result.
- ⚠Caution: 1. The mechanical part of a fitting, including a cleanroom package specification, slides slightly by an internal pressure change, and dusts may be generated. Therefore, please prevent using the fitting in the cleanroom of ISO class 1 to 5. If tube and fitting oscillate or fluctuate, please determine an amount of dust on actual equipment by repeating test runs prior to the start of operation.



The products listed in this page are ECO-friendly products. * Please refer to page 4 for the details of ECO-friendly products.

PC Straight øD	Model type Standard pkg		Model type Clean-room pkg
	PCøD-T ⁴	PCøD-TU	PCøD-T ⁴ C
PC4-M5 ⁴	PC ⁵ / ₃₂ -U10U	PC4-M5 ⁴ C	
PC4-M50 ⁴ *0	PC ⁵ / ₃₂ -N0U	PC4-M50 ⁴ C	
PC4-M6 ⁴	PC ⁵ / ₃₂ -N1U	PC4-M6 ⁴ C	
PC4-01 ⁴	PC ⁵ / ₃₂ -N2U	PC4-01 ⁴ C	
PC4-02 ⁴	PC ³ / ₁₆ -U10U	PC4-02 ⁴ C	
PC6-M5 ⁴	PC ³ / ₁₆ -N0U	PC6-M5 ⁴ C	
PC6-M6 ⁴	PC ³ / ₁₆ -N1U	PC6-M6 ⁴ C	
PC6-01 ⁴	PC ³ / ₁₆ -N2U	PC6-01 ⁴ C	
PC6-02 ⁴	PC ³ / ₁₆ -N3U	PC6-02 ⁴ C	
PC6-03 ⁴	PC ¹ / ₄ -U10U	PC6-03 ⁴ C	
PC8-01 ⁴	PC ¹ / ₄ -N0U	PC8-01 ⁴ C	
PC8-02 ⁴	PC ¹ / ₄ -N1U	PC8-02 ⁴ C	
PC8-03 ⁴	PC ¹ / ₄ -N2U	PC8-03 ⁴ C	
PC10-01 ⁴	PC ¹ / ₄ -N3U	PC10-01 ⁴ C	
PC10-02 ⁴	PC ⁵ / ₁₆ -N1U	PC10-02 ⁴ C	
PC10-03 ⁴	PC ⁵ / ₁₆ -N2U	PC10-03 ⁴ C	
PC10-04 ⁴	PC ⁵ / ₁₆ -N3U	PC10-04 ⁴ C	
PC12-02 ⁴	PC ³ / ₈ -N1U	PC12-02 ⁴ C	
PC12-03 ⁴	PC ³ / ₈ -N2U	PC12-03 ⁴ C	
PC12-04 ⁴	PC ³ / ₈ -N3U	PC12-04 ⁴ C	
PC16-03 ⁴	PC ³ / ₈ -N4U	PC16-03 ⁴ C	
PC16-04 ⁴	PC ¹ / ₂ -N2U	PC16-04 ⁴ C	
PC ⁵ / ₃₂ -M5 ⁴	PC ¹ / ₂ -N3U	PC ⁵ / ₃₂ -M5 ⁴ C	
PC ⁵ / ₃₂ -01 ⁴	PC ¹ / ₂ -N4U	PC ⁵ / ₃₂ -01 ⁴ C	
PC ⁵ / ₃₂ -02 ⁴	PC ⁵ / ₃₂ -N3U	PC ⁵ / ₃₂ -02 ⁴ C	
PC ³ / ₁₆ -M5 ⁴	PC ⁵ / ₃₂ -N4U	PC ³ / ₁₆ -M5 ⁴ C	
PC ³ / ₁₆ -01 ⁴	PC4-N0U *1	PC ³ / ₁₆ -01 ⁴ C	
PC ³ / ₁₆ -02 ⁴	PC4-N1U	PC ³ / ₁₆ -02 ⁴ C	
PC ¹ / ₄ -M5 ⁴	PC4-N2U	PC ¹ / ₄ -M5 ⁴ C	
PC ¹ / ₄ -01 ⁴	PC6-N0U *1	PC ¹ / ₄ -01 ⁴ C	
PC ¹ / ₄ -02 ⁴	PC6-N1U	PC ¹ / ₄ -02 ⁴ C	
PC ¹ / ₄ -03 ⁴	PC6-N2U	PC ¹ / ₄ -03 ⁴ C	
PC ⁵ / ₁₆ -01 ⁴	PC8-N1U	PC ⁵ / ₁₆ -01 ⁴ C	
PC ⁵ / ₁₆ -02 ⁴	PC8-N2U	PC ⁵ / ₁₆ -02 ⁴ C	
PC ⁵ / ₁₆ -03 ⁴	PC8-N3U	PC ⁵ / ₁₆ -03 ⁴ C	
PC ³ / ₈ -01 ⁴	PC10-N1U *1	PC ³ / ₈ -01 ⁴ C	
PC ³ / ₈ -02 ⁴	PC10-N2U	PC ³ / ₈ -02 ⁴ C	
PC ³ / ₈ -03 ⁴	PC10-N3U	PC ³ / ₈ -03 ⁴ C	
PC ³ / ₈ -04 ⁴	PC10-N4U	PC ³ / ₈ -04 ⁴ C	
PC ¹ / ₂ -02 ⁴	PC12-N2U *1	PC ¹ / ₂ -02 ⁴ C	
PC ¹ / ₂ -03 ⁴	PC12-N3U	PC ¹ / ₂ -03 ⁴ C	
PC ¹ / ₂ -04 ⁴	PC12-N4U	PC ¹ / ₂ -04 ⁴ C	
PC ⁵ / ₈ -03 ⁴	PC16-N3U *1	PC ⁵ / ₈ -03 ⁴ C	
PC ⁵ / ₈ -04 ⁴	PC16-N4U *1	PC ⁵ / ₈ -04 ⁴ C	




- Cautions**
- *0. PC4-M50 is a slender type of PC4-M5 (Wrench size: 8mm)
 - *1. Custom-made, build to order production
 - *2. The white-letter model type in is new model.
 - *3. ⁴ is replaced with "W" if Light-gray specification is required otherwise please leave it blank.
 - *4. The option: W, C, or WC is build to order production.
 - *5. The model with low sales average may be build to order production. For details, please contact Pisco sales office or sales representative.




Package specifications
 10 pcs. in a bag: Standard pkg
 1 pc. in a bag (10 pcs./set): Clean-room pkg




The products listed in this page are ECO-friendly products.
* Please refer to page 4 for the details of ECO-friendly products.


PAX Branch Elbow 	Model type	
	Standard pkg	Clean-room pkg
	PAXøD-T4	PAXøD-TU
	PAX4-M5	PAX5/32-U10U
	PAX4-M6	PAX5/32-N1U
	PAX4-01	PAX5/32-N2U
	PAX4-02	PAX3/16-U10U
	PAX6-M5	PAX3/16-N1U
	PAX6-M6	PAX3/16-N2U
	PAX6-01	PAX3/16-N3U
	PAX6-02	PAX1/4-U10U
	PAX6-03	PAX1/4-N1U
	PAX8-01	PAX1/4-N2U
	PAX8-02	PAX1/4-N3U
	PAX8-03	PAX5/16-N1U
	PAX10-01	PAX5/16-N2U
	PAX10-02	PAX5/16-N3U
	PAX10-03	PAX3/8-N1U
	PAX10-04	PAX3/8-N2U
	PAX12-02	PAX3/8-N3U
	PAX12-03	PAX3/8-N4U
	PAX12-04	PAX1/2-N2U
		PAX1/2-N3U
		PAX1/2-N4U
		PAX4-N1U *
		PAX6-N2U *


PVX Tripod Elbow 	Model type	
	Standard pkg	Clean-room pkg
	PVXøD-T4	PVXøD-TU
	PVX4-M5	PVX5/32-U10U
	PVX4-M6	PVX5/32-N1U
	PVX4-01	PVX5/32-N2U
	PVX4-02	PVX3/16-U10U
	PVX6-M5	PVX3/16-N1U
	PVX6-M6	PVX3/16-N2U
	PVX6-01	PVX3/16-N3U
	PVX6-02	PVX1/4-U10U
	PVX6-03	PVX1/4-N1U
	PVX8-01	PVX1/4-N2U
	PVX8-02	PVX1/4-N3U
	PVX8-03	PVX5/16-N1U
	PVX10-01	PVX5/16-N2U
	PVX10-02	PVX5/16-N3U
	PVX10-03	PVX3/8-N1U
	PVX10-04	PVX3/8-N2U
	PVX12-02	PVX3/8-N3U
	PVX12-03	PVX3/8-N4U
	PVX12-04	PVX1/2-N2U
		PVX1/2-N3U
		PVX1/2-N4U
		PVX4-U10U *


PKD Triple Run Tee 	Model type	
	Standard pkg	Clean-room pkg
	PKDøD-r-øDz-T4	PKDøD-r-øDz-TU
	PKD6-4-01	PKD5/16-5/32-N1U
	PKD8-4-02	PKD5/16-5/32-N2U
	PKD8-6-02	PKD5/16-3/16-N2U
	PKD10-8-03	PKD5/16-1/4-N2U
		PKD3/8-5/16-N3U


PRX Double Branch Y 	Model type	
	Standard pkg	Clean-room pkg
	PRXøD-T4	PRXøD-TU
	PRX4-01	PRX5/32-N1U
	PRX4-02	PRX5/32-N2U
	PRX6-01	PRX3/16-N1U
		PRX1/4-N1U
		PRX1/4-N2U *

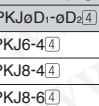
PHW Double Banjo 	Model type	
	Standard pkg	Clean-room pkg
	PHWøD-T4	PHWøD-TU
	PHW4-01	PHW5/32-N1U
	PHW4-02	PHW5/32-N2U
	PHW4-03	PHW1/4-N1U
	PHW6-01	PHW1/4-N2U
	PHW6-02	PHW1/4-N3U
	PHW6-03	PHW5/16-N2U
	PHW8-01	PHW5/16-N3U
	PHW8-02	PHW5/16-N4U
	PHW8-03	PHW3/8-N2U
	PHW8-04	PHW3/8-N3U
	PHW10-02	PHW3/8-N4U
	PHW10-03	PHW1/2-N3U
	PHW10-04	PHW1/2-N4U
	PHW12-02	PHW8-N3U **
	PHW12-03	PHW10-N4U **
	PHW12-04	PHW12-N4U **
	PHW1/4-01	
	PHW1/4-02	
	PHW1/4-03	
	PHW5/16-02	
	PHW5/16-03	
	PHW5/16-04	
	PHW3/8-02	
	PHW3/8-03	
	PHW3/8-04	

PAW Double Twin Banjo 	Model type	
	Standard pkg	Clean-room pkg
	PAWøD-T4	PAWøD-TU
	PAW4-01	PAW5/32-N1U
	PAW4-02	PAW5/32-N2U
	PAW4-03	PAW1/4-N1U
	PAW6-01	PAW1/4-N2U
	PAW6-02	PAW1/4-N3U
	PAW6-03	PAW5/16-N2U
	PAW8-01	PAW5/16-N3U
	PAW8-02	PAW5/16-N4U
	PAW8-03	PAW3/8-N2U
	PAW8-04	PAW3/8-N3U
	PAW10-02	PAW3/8-N4U
	PAW10-03	PAW1/2-N3U
	PAW10-04	PAW1/2-N4U
	PAW12-02	
	PAW12-03	
	PAW12-04	
	PAW1/4-01	
	PAW1/4-02	
	PAW1/4-03	
	PAW5/16-02	
	PAW5/16-03	
	PAW5/16-04	
	PAW3/8-02	
	PAW3/8-03	
	PAW3/8-04	

PRJ Plug-in Double Y 	Model type	
	Standard pkg	Clean-room pkg
	PRJøD-r-øDz4	PRJøD-r-øDz4C
	PRJ6-4	PRJ6-4C
	PRJ8-6	PRJ8-6C

PHT Triple Banjo 	Model type	
	Standard pkg	Clean-room pkg
	PHTøD-T4	PHTøD-TU
	PHT4-01	PHT5/32-N1U
	PHT4-02	PHT5/32-N2U
	PHT4-03	PHT1/4-N1U
	PHT6-01	PHT1/4-N2U
	PHT6-02	PHT1/4-N3U
	PHT6-03	PHT5/16-N2U
	PHT8-01	PHT5/16-N3U
	PHT8-02	PHT5/16-N4U
	PHT8-03	PHT3/8-N2U
	PHT8-04	PHT3/8-N3U
	PHT10-02	PHT3/8-N4U
	PHT10-03	PHT1/2-N3U
	PHT10-04	PHT1/2-N4U
	PHT12-02	
	PHT12-03	
	PHT12-04	
	PHT1/4-01	
	PHT1/4-02	
	PHT1/4-03	
	PHT5/16-02	
	PHT5/16-03	
	PHT5/16-04	
	PHT3/8-02	
	PHT3/8-03	
	PHT3/8-04	

PAT Triple Twin Banjo 	Model type	
	Standard pkg	Clean-room pkg
	PATøD-T4	PATøD-TU
	PAT4-01	PAT5/32-N1U
	PAT4-02	PAT5/32-N2U
	PAT4-03	PAT1/4-N1U
	PAT6-01	PAT1/4-N2U
	PAT6-02	PAT1/4-N3U
	PAT6-03	PAT5/16-N1U **
	PAT8-01	PAT5/16-N2U
	PAT8-02	PAT5/16-N3U
	PAT8-03	PAT5/16-N4U
	PAT8-04	PAT3/8-N2U
	PAT10-02	PAT3/8-N3U
	PAT10-03	PAT3/8-N4U
	PAT10-04	PAT1/2-N3U
	PAT12-02	PAT1/2-N4U
	PAT12-03	
	PAT12-04	
	PAT1/4-01	
	PAT1/4-02	
	PAT1/4-03	
	PAT5/16-02	
	PAT5/16-03	
	PAT5/16-04	
	PAT3/8-02	
	PAT3/8-03	
	PAT3/8-04	

PKJ Plug-in Triple Tee 	Model type	
	Standard pkg	Clean-room pkg
	PKJøD-r-øDz4	PKJøD-r-øDz4C
	PKJ6-4	PKJ6-4C
	PKJ8-4	PKJ8-4C
	PKJ8-6	PKJ8-6C
	PKJ10-8	PKJ10-8C










Cautions

- *1. Custom-made, build to order production
- *2. The white-letter model type in is new model.
- *3. [4] is replaced with "W" if Light-gray specification is required otherwise please leave it blank.
- *4. The option: W, C, or WC is build to order production.
- *5. The model with low sales average may be build to order production. For details, please contact Pisco sales office or sales representative.



Package specifications
10 pcs. in a bag: Standard pkg
1 pc. in a bag (10 pcs./set): Clean-room pkg

RoHS The products listed in this page are ECO-friendly products.
 * Please refer to page 4 for the details of ECO-friendly products.

PRG Unequal Double Y	Model type		Model type		PYJ Plug-in Y	Model type		Model type	
	Standard pkg		Clean-room pkg			Standard pkg		Clean-room pkg	
	PRGøD1-øD2		PRGøD1-øD2			PYJøD		PYJøD	
	PRG6-4	PRG ^{3/16-5/32}	PRG6-4	PRG ^{3/16-5/32}		PYJ4	PYJ ^{1/4}	PYJ4	PYJ ^{1/4}
	PRG8-4	PRG ^{1/4-5/32}	PRG8-6	PRG ^{1/4-5/32}		PYJ6	PYJ ^{5/16}	PYJ6	PYJ ^{5/16}
	PRG8-6	PRG ^{5/16-1/4}		PRG ^{5/16-1/4}		PYJ8	PYJ ^{3/8}	PYJ8	PYJ ^{3/8}
PKG Unequal Triple Tee	Model type		Model type			Model type		Model type	
	Standard pkg		Clean-room pkg			Standard pkg		Clean-room pkg	
	PKGøD1-øD2		PKGøD1-øD2			PWJøD1-øD2		PWJøD1-øD2	
	PKG6-4	PKG ^{3/16-5/32}	PKG6-4	PKG ^{3/16-5/32}		PWJ6-4	PWJ ^{1/4-5/32}	PWJ6-4	PWJ ^{1/4-5/32}
	PKG6-6	PKG ^{5/16-5/32}	PKG8-4	PKG ^{5/16-5/32}		PWJ8-6	PWJ ^{5/16-1/4}	PWJ8-6	PWJ ^{5/16-1/4}
	PKG8-4	PKG ^{5/16-3/16}	PKG8-6	PKG ^{5/16-3/16}		PWJ10-8	PWJ ^{3/8-1/4}	PWJ10-8	PWJ ^{3/8-1/4}
PGJ Unequal Plug-in Straight	Model type		Model type			Model type		Model type	
	Standard pkg		Clean-room pkg			Standard pkg		Clean-room pkg	
	PGJøD1-øD2		PGJøD1-øD2			PMPøD		PMPøD	
	PGJ4-6	PGJ ^{1/4-5/32}	PGJ4-6	PGJ ^{1/4-5/32}		PMP4	PMP ^{5/32}	PMP4	PMP ^{5/32}
	PGJ6-4	PGJ ^{5/16-5/32}	PGJ6-4	PGJ ^{5/16-5/32}		PMP6	PMP ^{1/4}	PMP6	PMP ^{1/4}
	PGJ6-8	PGJ ^{5/16-1/4}	PGJ6-8	PGJ ^{5/16-1/4}		PMP8	PMP ^{3/8}	PMP8	PMP ^{3/8}
	PGJ8-4	PGJ ^{3/8-1/4}	PGJ8-4	PGJ ^{3/8-1/4}		PMP10	PMP ^{3/8}	PMP10	PMP ^{3/8}
	PGJ8-6	PGJ ^{3/8-5/16}	PGJ8-6	PGJ ^{3/8-5/16}		PMP12	PMP ^{1/2}	PMP12	PMP ^{1/2}
	PGJ8-10	PGJ ^{1/2-1/4}	PGJ8-10	PGJ ^{1/2-1/4}					
	PGJ8-1/4	PGJ ^{1/2-5/16}	PGJ8-1/4	PGJ ^{1/2-5/16}					
	PGJ10-4	PGJ ^{1/2-3/8}	PGJ10-4	PGJ ^{1/2-3/8}					
	PLJ Plug-in Elbow	Model type		Model type			Model type		Model type
Standard pkg		Clean-room pkg		Standard pkg			Clean-room pkg		
PLJøD		PLJøD		PMLøD			PMLøD		
PLJ4		PLJ ^{5/32}	PLJ4	PLJ ^{5/32}	PML4		PML ^{5/32}	PML4	PML ^{5/32}
PLJ6		PLJ ^{1/4}	PLJ6	PLJ ^{1/4}	PML6		PML ^{1/4}	PML6	PML ^{1/4}
PLJ8		PLJ ^{3/8}	PLJ8	PLJ ^{3/8}	PML8		PML ^{3/8}	PML8	PML ^{3/8}
PLJ10		PLJ ^{3/8}	PLJ10	PLJ ^{3/8}	PML10		PML ^{3/8}	PML10	PML ^{3/8}
PLJ12		PLJ ^{1/2}	PLJ12	PLJ ^{1/2}	PML12		PML ^{1/2}	PML12	PML ^{1/2}
PLJ16			PLJ16						
PLGJ Unequal Plug-in Elbow	Model type		Model type			Model type		Model type	
	Standard pkg		Clean-room pkg			Standard pkg		Clean-room pkg	
	PLGJøD1-øD2		PLGJøD1-øD2			PZAøD		PZAøD	
	PLGJ6-4	PLGJ ^{1/4-5/32}	PLGJ6-4	PLGJ ^{1/4-5/32}		PZA8	PZA ^{1/4}	PZA8	PZA ^{1/4}
	PLGJ1/4-6	PLGJ ^{1/4-3/16}	PLGJ1/4-6	PLGJ ^{1/4-3/16}		PZA10	PZA ^{3/8}	PZA10	PZA ^{3/8}
	PLGJ8-4	PLGJ ^{5/16-3/16}	PLGJ8-4	PLGJ ^{5/16-3/16}		PZA12	PZA ^{3/8}	PZA12	PZA ^{3/8}
	PLGJ8-6	PLGJ ^{5/16-1/4}	PLGJ8-6	PLGJ ^{5/16-1/4}			PZA ^{1/2}		PZA ^{1/2}
	PLGJ10-6	PLGJ ^{3/8-1/4}	PLGJ10-6	PLGJ ^{3/8-1/4}					
	PLGJ10-8	PLGJ ^{3/8-5/16}	PLGJ10-8	PLGJ ^{3/8-5/16}					
	PLGJ12-8	PLGJ ^{1/2-5/16}	PLGJ12-8	PLGJ ^{1/2-5/16}					
PZB Unequal Cross	Model type		Model type			Model type		Model type	
	Standard pkg		Clean-room pkg			Standard pkg		Clean-room pkg	
	PZBøD1-øD2		PZBøD1-øD2			PZCøD1-øD2		PZCøD1-øD2	
	PZB8-6	PZB ^{5/16-1/4}	PZB8-6	PZB ^{5/16-1/4}		PZC8-6	PZC ^{5/16-1/4}	PZC8-6	PZC ^{5/16-1/4}
	PZB10-8	PZB ^{3/8-5/16}	PZB10-8	PZB ^{3/8-5/16}		PZC10-8	PZC ^{3/8-5/16}	PZC10-8	PZC ^{3/8-5/16}
	PZB12-10	PZB ^{1/2-3/8}	PZB12-10	PZB ^{1/2-3/8}		PZC12-10	PZC ^{1/2-3/8}	PZC12-10	PZC ^{1/2-3/8}

- Cautions**
1. Custom-made, build to order production
 2. The white-letter model type in is new model.
 3. is replaced with "W" if light-gray specification is required otherwise please leave it blank.
 4. The option: W, C, or WC is build to order production.
 5. The model with low sales average may be build to order production. For details, please contact Pisco sales office or sales representative.

Package specifications
 10 pcs. in a bag: Standard pkg
 1 pc. in a bag (10 pcs./set): Clean-room pkg

Fitting Control Valve Vacuum Actuator Tube Plarailchain Robot Parts

! Common Safety Instructions for Quick-Fitting Joint

□ Be sure to read the following instructions before selecting and using the PISCO devices. Also read the detailed instructions for individual series.

- △Warnings:
1. Never use the Quick-Fitting Joint with fluid medium other than air or water (usable with some models). For applications with fluid medium other than air or water, contact PISCO for instructions.
 2. Never use joints other than Tube Fitting Spatter or other all metal joints where they are exposed to spatter. Otherwise spatter can cause fire.
 3. For applications in which the threaded side or the tube connection side is subject to vibration or rotation, use Rotary Joints, High Rotary Joints or Multi-Circuit Rotary Blocks only. Swinging or rotation may damage the joint body.
 4. For applications with hot water of 60°C (140°F) or above or thermal oil, use no other joints than Die Temperature Control Fittings, Tube Fitting Stainless SUS316, Tube Fitting Stainless SUS316 Compression Fitting, and All Brass Compression Fitting. Heat or hydrolysis may damage the joint body.
 5. For applications in which the scattering of static electricity or charging must be prevented, use no other joints than anti-static (EG) Joints. Static electricity may cause system malfunction or trouble.
 6. Do not allow tension, twist or bending forces to act on the joints. Undue forces may damage the joint body.

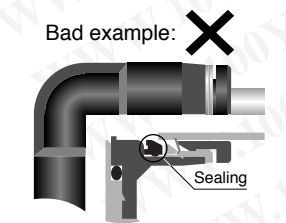
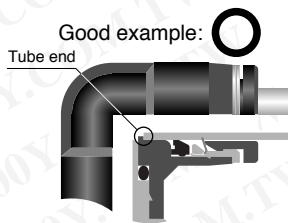
△Cautions: 1. When you use tubes of brands other than ours, be sure to confirm that the outside diameter of the tubes satisfies the tolerance specified in Table 1.

Table 1. Tube O.D. Tolerance

mm size	Nylon tube	Polyurethane tube	inch size	Nylon tube	Polyurethane tube
ø1.8mm	—	±0.05mm	ø ¹ / ₈	±0.0039in.	±0.0059in.
ø3mm	—	±0.15mm	ø ³ / ₃₂	±0.0039in.	±0.0059in.
ø4mm	±0.1mm	±0.15mm	ø ³ / ₁₆	±0.0039in.	±0.0059in.
ø6mm	±0.1mm	±0.15mm	ø ¹ / ₄	±0.0039in.	±0.0059in.
ø8mm	±0.1mm	±0.15mm	ø ⁵ / ₁₆	±0.0039in.	±0.0059in.
ø10mm	±0.1mm	±0.15mm	ø ³ / ₈	±0.0039in.	±0.0059in.
ø12mm	±0.1mm	±0.15mm	ø ¹ / ₂	±0.0039in.	±0.0059in.
ø16mm	±0.1mm	±0.15mm	ø ⁵ / ₈	±0.0039in.	±0.0059in.

2. Cautions on the fitting of tube

- (1) Make certain that the end of the tube is cut at right angles, the tube surface is free from flaws, and the tube is not deformed into an ellipse.
- (2) When fitting a tube, insert the tube to the tube end completely as drawings shown below to prevent leakage.
- (3) On completion of fitting, make certain that the tube does not come out at your pulling.



The tube is not inserted to the tube end.

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

3. Cautions on the release of tube

- (1) Before releasing the tube, make certain that the pressure inside the tube is zero.
- (2) Push the release ring fully inside and pull out the tube. Unless you push it completely in, the tube may not come out and scrapings of tube may be left inside the joint.

4. Cautions on the installation of joint body

- (1) When installing the joint body, tighten it with a proper tool, using the outside or inside hexagon.
- (2) In tightening the screw, use the tightening torque recommended in Table 3.
 - Use of a torque higher than the recommended level may damage thread or deform gasket, thus causing leaks.
 - Use of a torque lower than the recommended level may cause loose screw and leakage.
- (3) With the joint whose piping direction will not change after tightening, make adjustment within the recommended range of tightening torques.

Table 3. Recommended Tightening Torque, Sealock Color and Gasket Material

Thread type	Thread size	Tightening torque	Sealock color	Gasket material
Metric thread (JIS B0205, ISO0261)	M3×0.5	0.7N·m (0.52lbf·ft)	n/a	SUS304, NBR
	M5×0.8	1.0 ~ 1.5N·m (0.74 ~ 1.11lbf·ft)		
	M6×1.0	2.0 ~ 2.7N·m (1.48 ~ 1.99lbf·ft)	n/a	POM (Polyacetal)
	M3×0.5	0.5 ~ 0.6N·m (0.37 ~ 0.44lbf·ft)		
	M5×0.8	1.0 ~ 1.5N·m (0.74 ~ 1.11lbf·ft)		
Taper pipe thread (JIS B0203, ISO 7/1, BS21)	M6×0.75	0.8 ~ 1.0N·m (0.59 ~ 0.74lbf·ft)	White	n/a
	M8×0.75	1.0 ~ 2.0N·m (0.74 ~ 1.48lbf·ft)		
	R1/8	7 ~ 9N·m (5.16 ~ 6.64lbf·ft)		
	R1/4	12 ~ 14N·m (8.85 ~ 10.33lbf·ft)		
Unified thread (ANSI/ASME B1.1)	R3/8	22 ~ 24N·m (16.23 ~ 17.70lbf·ft)	n/a	SUS304, NBR
	R1/2	28 ~ 30N·m (20.65 ~ 22.13lbf·ft)		
National Pipe Thread Taper (American standard) (ANSI/ASME B1.20.1)	No. 10-32UNF	1.0 ~ 1.5N·m (0.74 ~ 1.11lbf·ft)	White	n/a
	1/16-28NPT	7 ~ 9N·m (5.16 ~ 6.64lbf·ft)		
	1/8-27NPT	7 ~ 9N·m (5.16 ~ 6.64lbf·ft)		
	1/4-18NPT	12 ~ 14N·m (8.85 ~ 10.33lbf·ft)		
	3/8-18NPT	22 ~ 24N·m (16.23 ~ 17.70lbf·ft)		
1/2-14NPT	28 ~ 30N·m (20.65 ~ 22.13lbf·ft)			

* Remarks: Since the torque may differ by products, please also look at caution of each product.

5. Cautions on the removal of joint body

- (1) When removing the joint body, loose it with a proper tool, using the outside or inside hexagon.
- (2) Remove sealant sticking to the thread on the mating equipment. The sealant left sticking may enter the peripheral equipment and cause trouble.

6. Please install in such a way that neither twisting, pulling, moment load, vibrations, nor shocks are given to a joint or a tube. It becomes causes of breakage of a joint, crushing, or loosening of a tube.



! Safety Instructions

- This Safety Instructions aim to prevent injuries to human bodies and damage to properties by requiring proper use of PISCO devices.

Also the relevant requirements of ISO 4414 and JIS B8370 must be observed.

ISO 4414: Pneumatic fluid power ... Recommendations for the application of equipment to transmission and control systems.

JIS B 8370: General standards for pneumatic systems

Safety instructions are classified into "Danger", "Warning" and "Caution", depending on the degree of danger or damage involved when the safety instructions are not complied with in handling the equipment.

△ Danger : Failure to heed the warning of apparent danger may result in death or serious injuries.

△ Warning : Failure to heed the warning of conditionally dangerous situations may result in death or serious injuries.

△ Caution : Failure to heed the warning of conditionally dangerous situations may result in minor or not too serious injuries or damage to properties.

△ Warning : 1. Make a selection of pneumatic equipment.

- (1) Well knowledgeable and experienced persons such as a pneumatic system designer or who is in charge of deciding specification should select pneumatic equipment.
 - (2) The applicable conditions of the products in this catalogue are diverse. Therefore, judge the conformity of systems with required analysis or tests by system designers or persons who is in charge of deciding specifications. The guarantee of initial performance and safety of the system is on responsibility of the person who decides specifications. Hereafter, examine all the specification with updated products catalogues and technical documents in order to avoid malfunctions of equipment, and then develop systems.
2. Handle pneumatic equipment with enough knowledge and experience.
- (1) Mishandling of compressed air is dangerous. Conduct assembly, operation and maintenance of devices with pneumatic equipment by persons with enough knowledge and experience.
3. Do not operate and remove the equipment until safety is confirmed.
- (1) Conduct inspection and maintenance of equipment after confirming fail-proof measures of work pieces or runaway-proof device are properly working.
 - (2) When removing equipment, make sure that above safety measures are conducted. Then, stop air supply and electric source of equipment making sure the pressure inside the system is zero before removing equipment.
 - (3) When re-activate equipment, make sure safety measures against fly-out are taken and re-activate equipment with care.

* Safety Instructions are subject to change without advance notice.



! Common Safety Instructions for Products Listed in This Manual

□ PISCO products are designed and manufactured for use with general industrial machinery and equipment. Therefore be sure to observe the following safety instructions:

△ Danger : 1. Do not use PISCO devices with the following equipment:

- (1) Equipment used for the sustenance or control of people's health or lives
- (2) Equipment used for the movement or transport of people
- (3) Equipment used specifically to ensure safety

△ Warning : 1. Avoid the following uses for PISCO devices:

- (1) Use under conditions not specified for the device
- (2) Use in any outdoor environment
- (3) Use in locations where the device is exposed to excessive vibration or shocks
- (4) Use in locations where the device is exposed to any corrosive gas, inflammable gas, chemicals, seawater, or vapor.

* Certain PISCO devices, however, can be used in environments as described above. Therefore check on the specifications for the use of individual devices.

- 2. Do not disassemble or remodel the PISCO devices in such a way as may affect the basic structure, performance or function of them.
- 3. Never touch the release ring of the Quick-Fitting Joint when there is pressure working on it. Touching may release the ring, which in turn may cause the tube to fall out.
- 4. Avoid too frequent switching of air pressure. Otherwise the device body may heat up to cause burns on you.
- 5. Do not allow tension, twist or bending forces to act on the joints. Undue forces may damage the joint body.
- 6. For applications in which the threaded side or the tube connection side is subject to vibration, use Rotary Joints, High Rotary Joints or Multi-Circuit Rotary Blocks only. Swinging or rotation may damage the joint body.
- 7. For applications with hot water of 60°C (140°F) or above or thermal oil, use no other joints than Die Temperature Control Fitting, Tube Fitting Stainless SUS316, Tube Fitting Stainless SUS316 Compression Fitting, and All Brass Compression Fitting. Heat or hydrolysis may damage the joint body.
- 8. For applications in which the scattering of static electricity or charging must be prevented, use no other joints than EG Joints. Static electricity may cause system malfunction or trouble.
- 9. Never use joint other than Tube Fitting Spatter or Tube Fitting Brass where they are exposed to spatter. Otherwise can cause fire.
- 10. Carry out maintenance and checks of equipment only after turning power off, shutting fluid off and making certain that the pressure in the piping has dropped to zero. Please conduct maintenance after confirming following points.
 - (1) Make sure that maintenance is safe for all the systems involving PISCO products.
 - (2) When re-activate equipment after maintenance, make sure safety measures against fly-out are taken and re-activate equipment with care.
 - (3) Please secure space for maintenance when the circuit is designed.
- 11. When the fluid is admitted to the equipment and if there is a possibility to cause damage to it due to leakage, conduct safety measures such as protect cover beforehand.

△ Caution : 1. In installing the piping, be sure to remove dust or drainage from within the piping. Dust or drainage left unremoved may enter other equipment, thus causing troubles.

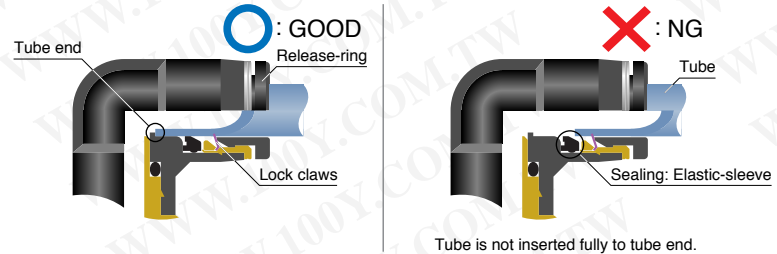
- 2. When using an ultrasoft tube to connect to a Quick-Fitting Joint, be sure to use an insert ring in the bore of the tube. Otherwise the tube may fall out to cause leakage.
- 3. When you use tubes of brands other than ours, be sure to confirm that the outside diameter of the tubes satisfies the tolerance specified Table 1.

Table 1. Tube O.D. Tolerance

mm size	Nylon tube	Urethane tube	inch size	Nylon tube	Urethane tube
ø1.8mm	—	±0.05mm	ø1/8	±0.0039in.	±0.0059in.
ø3mm	—	±0.15mm	ø3/32	+0.0039in.	±0.0059in.
ø4mm	±0.1mm	±0.15mm	ø3/16	±0.0039in.	±0.0059in.
ø6mm	±0.1mm	±0.15mm	ø1/4	±0.0039in.	±0.0059in.
ø8mm	±0.1mm	±0.15mm	ø5/16	+0.0039in.	±0.0059in.
ø10mm	±0.1mm	±0.15mm	ø3/8	±0.0039in.	±0.0059in.
ø12mm	±0.1mm	±0.15mm	ø1/2	±0.0039in.	±0.0059in.
ø16mm	±0.1mm	±0.15mm	ø5/8	±0.0039in.	±0.0059in.

4. Cautions on the fitting of tube

- (1) Make certain that the end of the tube is cut at right angles, the tube surface is free from flaws, and the tube is not deformed into an ellipse.
- (2) When fitting a tube, insert the tube to the tube end completely as drawings shown below to prevent leakage.



- (3) On completion of fitting, make certain that the tube does not come out at your pulling.

5. Cautions on the release of tube

- (1) Before releasing the tube, make certain that the pressure inside the tube is zero.
- (2) Push the release ring fully inside and pull out the tube. Unless you push it completely in, the tube may not come out and scrapings of tube may be left inside the joint.

6. Cautions on the installation of joint body

- (1) When installing the joint body, tighten it with a proper tool, using the outside or inside hexagon.
- (2) In tightening the screw, use the tightening torque recommended in Table 3.
 - Use of a torque higher than the recommended level may damage thread or deform gasket, thus causing leaks.
 - Use of a torque lower than the recommended level may cause loose screw and leakage.
- (3) With the joint whose piping direction will not change after tightening, make adjustment within the recommended range of tightening torques.

Table 3. Tightening Torque, Sealock Color and Gasket Material

Thread type	Thread size	Tightening torque	Sealock color	Gasket material
Metric thread	M3x0.5	0.7N·m (0.52lbf·ft)	n/a	SUS304, NBR
	M5x0.8	1.0 ~ 1.5N·m (0.74 ~ 1.11lbf·ft)		
	M6x1.0	2.0 ~ 2.7N·m (1.48 ~ 1.99lbf·ft)		
	M3x0.5	0.5 ~ 0.6N·m (0.37 ~ 0.44lbf·ft)	n/a	POM (Polyacetal)
	M5x0.8	1.0 ~ 1.5N·m (0.74 ~ 1.11lbf·ft)		
	M6x0.75	0.8 ~ 1.0N·m (0.59 ~ 0.74lbf·ft)		
Taper pipe thread	R1/8	7 ~ 9N·m (5.16 ~ 6.64lbf·ft)	White	n/a
	R1/4	12 ~ 14N·m (8.85 ~ 10.33lbf·ft)		
	R3/8	22 ~ 24N·m (16.23 ~ 17.70lbf·ft)		
	R1/2	28 ~ 30N·m (20.65 ~ 22.13lbf·ft)		
Unified thread	No. 10-32UNF	1.0 ~ 1.5N·m (0.74 ~ 1.11lbf·ft)	n/a	SUS304, NBR
National Pipe Thread Taper (American standard)	1/16-28NPT	7 ~ 9N·m (5.16 ~ 6.64lbf·ft)	Gray	n/a
	1/8-27NPT	7 ~ 9N·m (5.16 ~ 6.64lbf·ft)		
	1/4-18NPT	12 ~ 14N·m (8.85 ~ 10.33lbf·ft)		
	3/8-18NPT	22 ~ 24N·m (16.23 ~ 17.70lbf·ft)		
	1/2-14NPT	28 ~ 30N·m (20.65 ~ 22.13lbf·ft)		

Recommended tightening torque for silencer

Thread Type	Thread Size	Tightening Torque
Metric thread	M5x0.8	1/6 turn after hand-tightening
	M6x1.0	
	M10x1.0	
Parallele pipe thread	G1/8	1/2 ~ 1 turn after hand-tightening
	G1/4	
	G3/8	
	G1/2	

7. Cautions on the removal of joint body

- (1) When removing the joint body, loosen it with a proper tool, using the outside or inside hexagon.
- (2) Remove sealant sticking to the thread on the mating equipment. The sealant left sticking may enter the peripheral equipment and cause trouble.

8. Clean-room package option

* The product is washed by clean air after assembling in the normal assembly process as same condition as standard specification model. Then, it is packed in ISO class 6 clean-room.



Build to Order Production

Based on the standard products, "Special specification option" on parts for matching operating environment or "Special appearance option" for matching a color for operating environment can be selected and ordered by just adding prearranged extension code of options.

* Pisco welcomes an inquiry of custom-made product, which is not listed in this catalog. Please feel free to contact nearest Pisco office.

Body color option



Seal rubber option



Oil-free specification



Release-ring color option



Non-purple specification



* No Cu or F ion generation

Change of outer color, sealing material, lubrication, etc.

Special Options

Model Designation (Example)



(1) Model designation of standard product (please refer to applicable products on next page.)

(2) Color

Code	W	No code
Color	Light-gray	Standard

* If light-gray (W) is selected for resin color, the metric (mm) size release-ring color becomes light-gray even for combination with any other options.
 * The color of release-ring of inch tube size is always white.

(3) Sealing material

Code	-F	-E	No code
Material	FKM	EPDM (Oil-free)	Standard rubber

*1. For FKM (-F) specification, the color of metric (mm) size release-ring becomes brown, while inch tube size is white. FKM (-F) specification can not be combined with non-purple (-P) specification.
 *2. For EPDM (-E) specification, the product is assembled as oil-free specification. The color of metric (mm) release-ring becomes yellow.
 *3. EPDM (-E) specification can not be selected for the products with M3 or M6 threads or with inch tube size.

(4) Lubrication

Code	-D	No code
Specification	Oil-free	Standard lubrication

*1. The metric (mm) size release-ring color of oil-free (-D) specification becomes yellow while inch size is white.
 *2. The product with oil-free (-D) specification is assembled without intentional use of lubrication in standard process. Therefore the problem of reducing airtightness or increasing frictions of rubber parts may be resulted.

(5) Release-ring color

Code	-R	No code
Color	Red	Standard

* The color of release-ring of inch tube size is always white.

(6) Non-purple specification (only for taper threaded product)

Code	-P	No code
Specification	Non-purple	Standard

* Non-purple (-P) specification cannot be combined with FKM (-F) specification.
 * The color of the release-ring of metric (mm) tube size is brown for non-purple (-P) specification.
 * No Sealock coating for non-purple specification.

Characteristics

Outer color change

• Change the color of resin body and release-ring to light-gray.

Sealing material change

• Change the sealing material to FKM or EPDM depending on an application.

Oil-free specification

• Prevent oil running into fluid medium because the product is assembled without using oil.

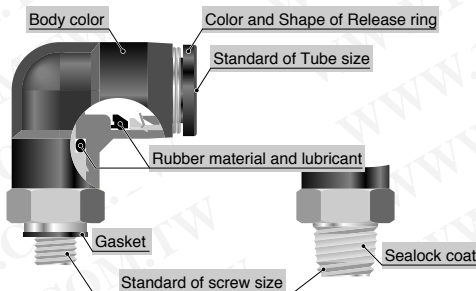
Release-ring color change

• Change the color of release-ring to red.

Non-purple specification

• Restraining generation of Cu ion or F ion from the product.

* Please be careful at the time of piping of Check Valve, Stop Fitting, etc, which has laser-marking on the plated parts made of brass because the marking is not carried out.



Reference Chart of Special Options

○: Selectable, ×: Not selectable

Product	Standard specification						Special specification					
	Outer color, Package option	Resin body color	Release-ring color	Sealing material	Lubrication	Thread sealing	①	②		③	④	⑤
							Resin color	Sealing material	Lubrication	Release-ring color	Non-purple spec.	
W*1	-F*2	-E*3	-D*4	-R	-P*2							
Light-gray	FKM	EPDM	Oil-free spec.	Red	No sealcoat							
Tube Fitting Standard Series	—	Black	Black	NBR	Turbine oil	With sealcoat	—	○*5	○	○	○	○
	Light-gray	Light-gray	Light-gray				Std. option	○	○	○	×	○
	Cleanroom pkg.	Light-gray	Light blue		Fluorochemical grease	With sealcoat	—	○	○*6	○*6	×	×
	Light-gray & Cleanroom pkg.	Light-gray	Light-gray				Std. option	○	○	○	×	×
Tube Fitting Mini Series	—	Black	Black	NBR	Turbine oil	With sealcoat	—	○*5	○	○	○	○
	Light-gray	Light-gray	Light-gray				Std. option	○	○	○	×	○
	Cleanroom pkg.	Light-gray	Light blue		Fluorochemical grease	With sealcoat	—	○	○*6	○*6	×	×
	Light-gray & Cleanroom pkg.	Light-gray	Light-gray				Std. option	○	○	○	×	×
Tube Fitting Stainless SUS304 series	—	Black	Dark blue	FKM	Turbine oil	With sealcoat	×	Std. spec.	×	○*7	×	×
Tube Fitting Stainless SUS303 like corrosivity	—	Black	Dark blue	HNBR	Turbine oil	With sealcoat	○	○	○*7	○*7	×	○
Tube Fitting EG Series	—	Black	Black	NBR	Turbine oil	With sealcoat	×	○	○*8	×	×	○
Tube Fitting Brass Series	—	—	—	HNBR FKM NBR	Turbine oil	With sealcoat	×	Std. option	○	○	×	○
Tube Fitting Long type	—	—	Black	NBR	Turbine oil	With sealcoat	×	○*5	○	○	○	○
Speed Controller Series	—	Black	Black	NBR	Turbine oil	With sealcoat	—	○*5	×	×	○	○
	Light-gray	Light-gray	Light-gray				Std. option	○	×	×	×	○
	Cleanroom pkg.	Light-gray	Light blue		Fluorochemical grease	With sealcoat	—	○	×	×	×	×
	Light-gray & Cleanroom pkg.	Light-gray	Light-gray				Std. option	○	×	×	×	×
Speed Controller SUS303 like corrosivity	—	Black	Dark blue	HNBR	Turbine oil	With sealcoat	○	○	×	×	×	○
Throttle Valve Series	—	Black	Black	NBR	Turbine oil	With sealcoat	—	○*5	×	×	○	○
	Light-gray	Light-gray	Light-gray				Std. option	○	×	×	×	○
	Cleanroom pkg.	Light-gray	Light blue		Fluorochemical grease	With sealcoat	—	○	×	×	×	×
	Light-gray & Cleanroom pkg.	Light-gray	Light-gray				Std. option	○	×	×	×	×
Fixed orifice joint Series	—	Black	Black	NBR	Turbine oil	With sealcoat	○	○	○	○	○*9	○
Regulator (except RVF)	—	Black	Black	NBR	Turbine oil	With sealcoat	○	×	×	×	○*9	○
Check Valve (metal body)	—	Black	Black	NBR	Turbine oil	With sealcoat	○*10	×	×	×	○*9	○
Check Valve (resin body)	—	Light-gray	Light-gray	NBR	Turbine oil	With sealcoat	Std. spec.	×	×	×	×	○

*1. If light-gray (W) is selected for resin color, the release-ring color of metric (mm) tube size becomes light-gray even for combination with any other options.

*2. FKM (-F) specification of sealing material can not be combined with non-purple (-P) specification.

*3. For EPDM (-E) specification of sealing material, the product is assembled as oil-free specification. The color of release-ring of metric (mm) tube size becomes yellow except the combination with light-gray specification, which has light-gray release-ring. EPDM (-E) specification can not be selected for the products with M3 or M6 threads or inch tube size.

*4. The release-ring color becomes yellow. If it with light-gray specification, the color of release-ring is light-gray.

*5. The release-ring color becomes brown.

*6. The release-ring color becomes light blue.

*7. The release-ring color becomes dark blue.

*8. The release-ring color becomes black.


























*9. The Red release-ring color specification can not be selected if light-gray specification of resin color is selected.

*10. The light-gray specification can not be selected for CVU4-4, CVU6-6, and CVU8-8.

Reference Chart of Appearance Color Combination with Special Options (Case of Fitting)

Product	Resin color or option	Tube size		Sealing material		Lubrication	Release-ring color	
				-F	-E	-D	-R	
		Std. appearance		FKM	EPDM	Oil-free spec.	Red	
Tube Fitting Tube Fitting Mini-type	— (No code)	Metric (mm)						
		Inch						
	Light-gray spec. (W)	Metric (mm)						
		Inch						
	Cleanroom pkg. (C)	Metric (mm)						
		Inch						
	Light-gray spec. & Cleanroom pkg. (WC)	Metric (mm)						
		Inch						
	Tube Fitting Stainless SUS304 series	—	Metric (mm)		Same as std.			
	Tube Fitting Stainless SUS303 like corrosivity	—	Metric (mm)					
			Light-gray spec. (W)	Metric (mm)				

Reference Chart of Appearance Color Combination with Special Options (Case of Flow Controller)

Product	Resin color or option	Tube size		Sealing material		Release-ring color	
				-F	-R	-R	
		Std. appearance		FKM		Red	
<p>Speed Controller Throttle Valve</p>	—	Metric (mm)					
		Inch					
	Light-gray spec.	Metric (mm)					
		Inch					
	(W)	Metric (mm)					
		Inch					
	Cleanroom pkg.	Metric (mm)					
		Inch					
	(C)	Metric (mm)					
		Inch					
	(WC)	Metric (mm)					
		Inch					

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