

Twin Coupling

NEW



Single operation can
(un)couple
two circuits



No worry for incorrect piping

Characteristics

- The plug can be uncoupled simply by pressing a lock plate.
- The Socket features a shut-off valve.

It shuts off air flow upon plug removal.

Model Designation of Socket (Example)

QWS
(1) **7**
(2) - **6**
(3)

(1) Twin coupling (Socket only)

(2) Series

Code	7	13
Type	7 series	13 series

*Different series cannot be connected.

(3) Tube dia. (øD) (○ : Available)

Code	4	6	8
Tube O.D. (mm)	ø4	ø6	ø8
7 series	○	○	—
13 series	—	—	○

Model Designation of Plug (Example)

QWP
(1) **7**
(2) - **6**
(3) **L**
(4)

(1) Twin coupling (Plug only)

(2) Series

Code	7	13
Type	7 series	13 series

*Different series cannot be connected.

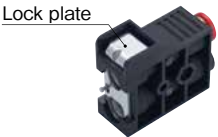
(3) Tube dia. (øD) (○ : Available)

Code	4	6	8
Tube O.D. (mm)	ø4	ø6	ø8
7 series	○	○	—
13 series	—	—	○

(4) Port orientation

Code	No code Straight	R Right	L Left
Type			

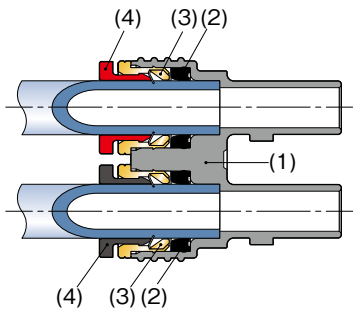
*Please choose Right or Left with the socket lock plate facing up.



Specifications

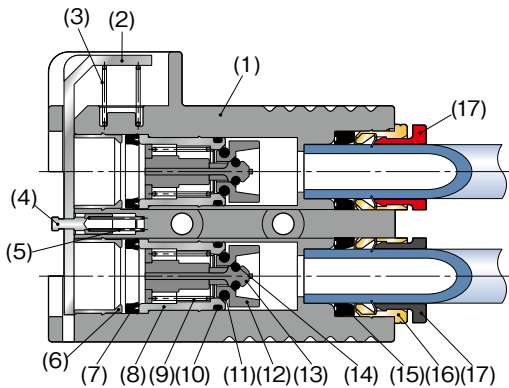
Fluid medium	Air
Operating pressure range	0.1 to 1.0 MPa
Operating temperature range	0 to 60°C (No freezing)

Sectional Drawing of Plug



No.	Parts	Material
(1)	Plug body	PBT
(2)	Elastic sleeve	NBR
(3)	Guide ring	Nickel-plated brass
(4)	Release-ring	POM

Sectional Drawing of Socket



No.	Parts	Material
(1)	Socket body	PBT
(2)	Lock plate	Stainless steel
(3)	Return spring	Stainless steel
(4)	Plate lock pin	Stainless steel
(5)	Lock pin spring	Stainless steel
(6)	Collar	Aluminum
(7)	Y packing	NBR
(8)	Valve guide	Aluminum
(9)	Valve spring	Piano wire
(10)	O-ring	NBR
(11)	O-ring	NBR
(12)	Vane valve	POM
(13)	Valve	POM
(14)	O-ring	NBR
(15)	Elastic sleeve	NBR
(16)	Guide ring	Nickel-plated brass
(17)	Release-ring	POM

⚠ Safety instructions for Products Listed

⚠ Warning
1. Do not use machinery to (un)couple the plug and socket, as there is a risk of damaging both.
2. Exercise caution when uncoupling the plug and socket while pressurized; internal pressure may cause the plug to eject.

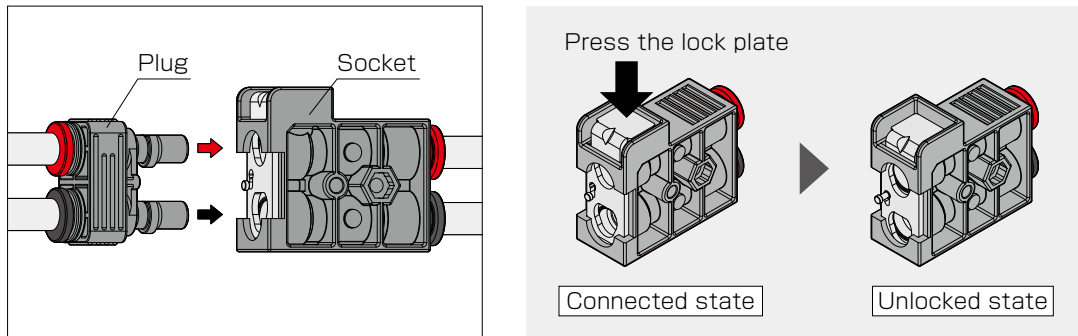
⚠ Caution
1. Push the plug into the socket until it seats fully to lock the coupling. An improperly seated connection may cause accidental uncoupling. Once coupled, pull the plug moderately to verify a secure connection.
2. Use both hands to maintain control of the plug and socket when (un)coupling. Otherwise, there is a risk of accidental plug ejection.
3. Fluid leakage may occur when using Twin Coupling under specific conditions such as low temperature environments and ultra-low pressures.
4. Avoid applying stress to Twin Coupling by pulling, twisting, or bending. Excessive force may result in leakage.
5. When uncoupling the plug and socket, a popping sound may occur due to internal pressure.

How to install and remove the plug and socket

(1) Plug installation

Insert the plug simply into the socket to couple.

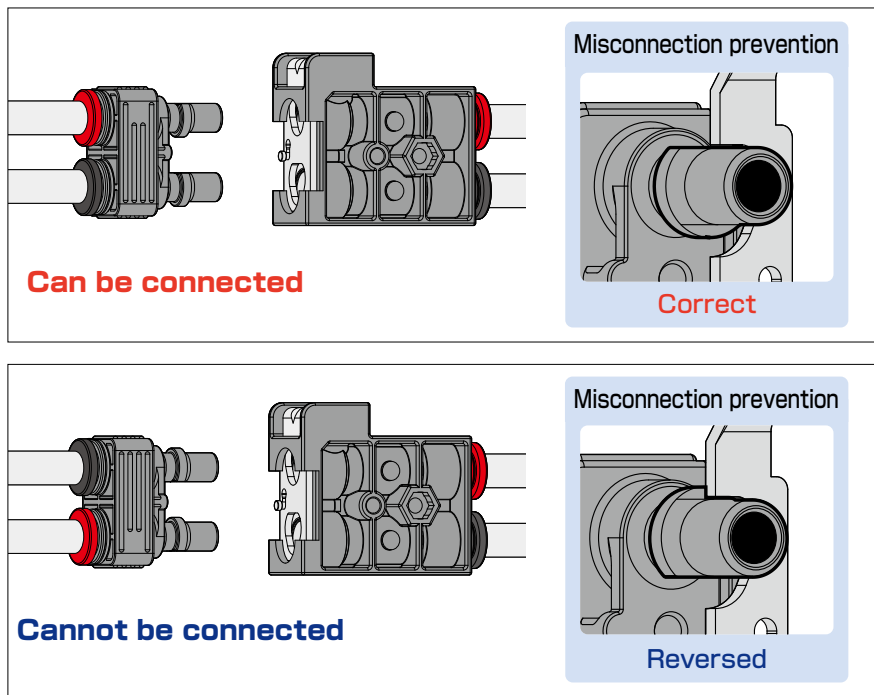
Press the lock plate on the socket to unlock it when coupling the plug and socket for the first time.



(2) Installation orientation

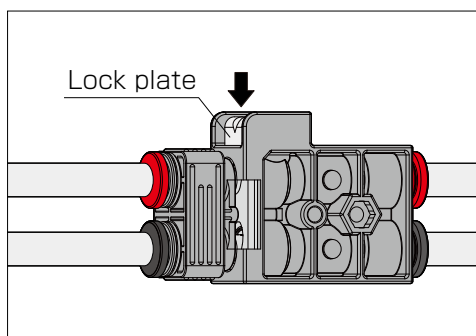
When coupling the plug and socket, ensure that they are oriented by matching the same release-ring colors for a correct connection.

A connection cannot be made unless the release-rings are properly oriented.



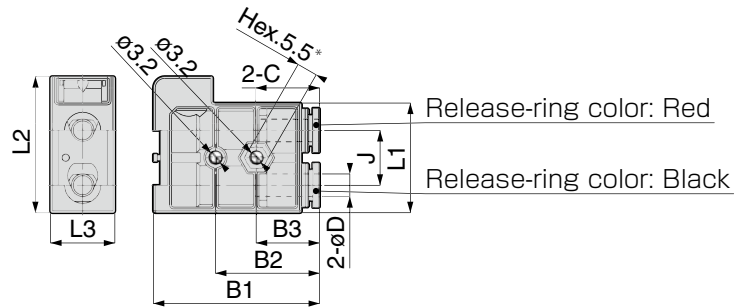
(3) Plug removal

Remove the plug simply by pressing the lock plate.



Outline Dimensional Drawing

QWS Socket

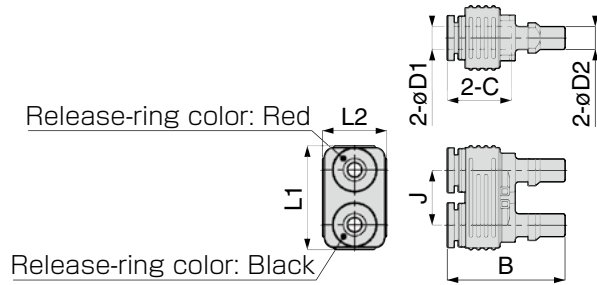


Unit: mm

Model code	Tube O.D. øD	B1	B2	B3	L1	L2	L3	Tube end C	J	Weight (g)	Effective area (mm ²)
QWS7-4	4	43.4	27	16.2	29	36	17	14.9	14.5	23	3.5
QWS7-6	6	44	27.6	16.8	29	36	17	17	14.5	23	7
QWS13-8	8	56	36.2	21.2	35	43	20	18.1	15.5	38	13

*Hex. dimension (Hex. 5.5) applies only to 7 series.

QWP Plug (Straight)

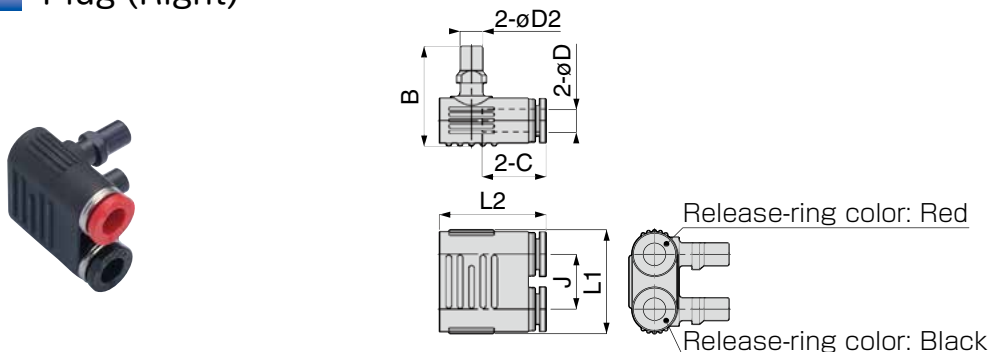


Unit: mm

Model code	Tube O.D. øD1	øD2	B	L1	L2	Tube end C	J	Weight (g)
QWP7-4	4	6	30.6	27.5	17	14.9	14.5	7.5
QWP7-6	6	6	31.2	27.5	17	17	14.5	8.3
QWP13-8	8	8	36.2	30.5	20	18.1	15.5	12

Outline Dimensional Drawing

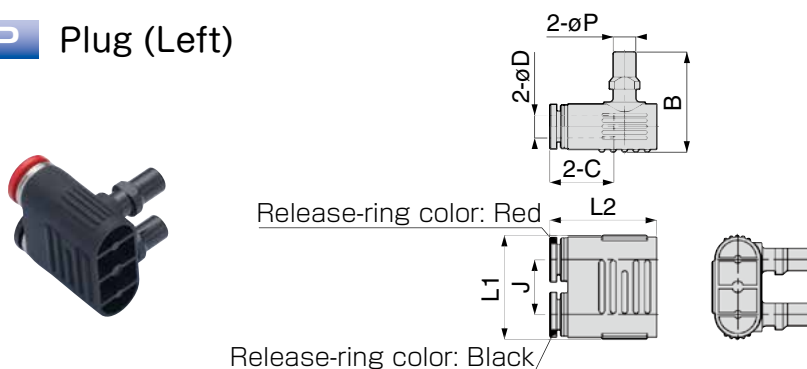
QWP Plug (Right)



Unit: mm

Model code	Tube O.D. øD1	øD2	B	L1	L2	Tube end C	J	Weight (g)
QWP7-4R	4	6	26.5	27.5	27.5	14.9	14.5	8.7
QWP7-6R	6	6	26.5	27.5	28.3	17	14.5	9
QWP13-8R	8	8	32.9	30.5	32.7	18.1	15.5	14

QWP Plug (Left)



Unit: mm

Model code	Tube O.D. øD1	øD2	B	L1	L2	Tube end C	J	Weight (g)
QWP7-4L	4	6	26.5	27.5	27.5	14.9	14.5	8.7
QWP7-6L	6	6	26.5	27.5	28.3	17	14.5	9
QWP13-8L	8	8	32.9	30.5	32.7	18.1	15.5	14

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