

Solo use of socket is possible. Suitable for operation of ejector pins to open / close valve gates in molding.

- Solo use of socket is possible.
- As in the case of MULTI CUPLA MALC-SP type and MALC-HSP type, the distance between the socket plate and the plug plate is designed to be 30 mm when connected. This means the MULTI CUPLA MALC-01 type can also be installed mixed with any size of MALC-SP type and MALC-HSP type on the same plate.
- An axial eccentricity allowance of 2 mm eliminates precise centering at installation.
- · Compact size with " thread screw mount " and "with flange" types available.



| Specifications | | | | | | | |
|---------------------------|--|---------|--------|---------------------------|--|--|--|
| Body material | Socket: Brass (Nickel plated) Plug: Brass (Nickel plated) | | | | | | |
| Pressure unit | MPa | kgf/cm² | bar | PSI | | | |
| Working pressure | 1.0 | 10 | 10 | 145 | | | |
| Seal material | Sealing material | М | ark | Working temperature range | | | |
| Working temperature range | Nitrile rubber | NBF | R (SG) | -20°C to +80°C | | | |

| Maximum Tightening Torque | Nm {kgf•cm} | |
|---------------------------|-------------|--|
| Thread screw mount | 15 {153} | |
| Flange | 1.5 {15} | |

Interchangeabilit

- · Sockets and plugs can be connected regardless of end configurations
- Not interchangeable with MALC-SP Type (for medium pressure use) MALC-1SP or MALC-HSP Type (for high pressure use) MALC-1HSP.

| Minimum Cross-Section | (mm²) | |
|------------------------------|-------|--|
| Minimum cross-sectional area | 28 | |

Suitability for Vacuum

Not suitable for vacuum application in either connected or disconnected condition.

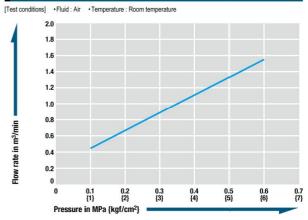
Load Required to Maintain Connection When Line Is Pressurized

 $F = (P \times 160) + 50 \{ f = p \times 1.6 + 5 \}$

Minimum load required to maintain connection F [N] {f [kgf]} Actual value of pressure P [MPa] {p [kgf/cm²]}

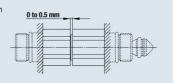
Assign the actual value of pressure [P (MPa), p (kgf /cm²)] to the above formula. Maintain the connection with this load [F (N), f (kgf)] or more. However, the maximum acceptable load is $500 N \{51 \text{ kgf}\}$.

Pressure - Flow Characteristics

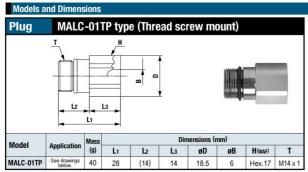


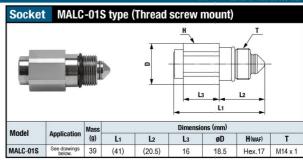
Acceptable distance between plates

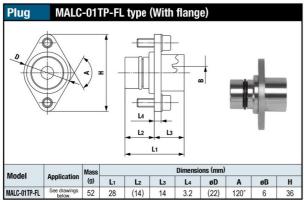
Socket and plug or plate must be used in contact with each other. Maximum 0.5 mm distance between socket and plug or plate is acceptable.

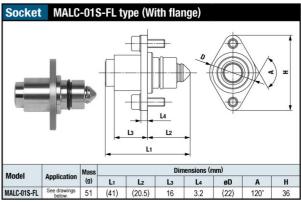


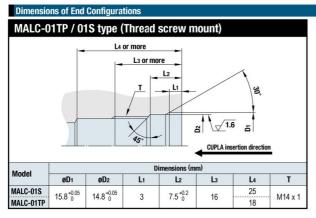


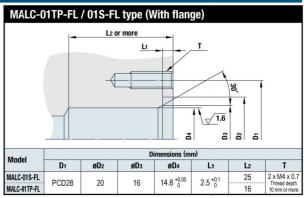


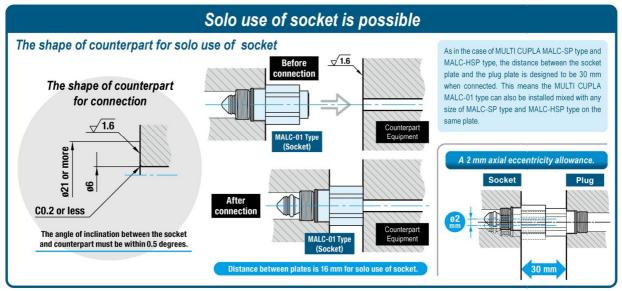




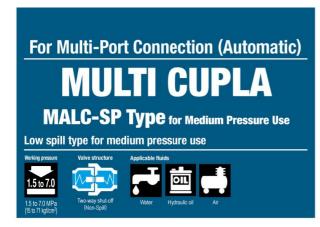












A single operation enables simultaneous connections of multiple lines. A special design for medium pressure use minimizes air admixture in fluid lines upon connection.

- Compared with conventional MULTI CUPLA, approximately double flow rates are realized. This could reduce the size of required plates. (Rate of flow increase depends on CUPLA sizes.)
- The MALC type realizes a 2 mm axial eccentricity allowance, while the conventional MULTI CUPLA is only 0.6 mm.
- Special valve design enables connection of socket and plug under pressure of up to 2 MPa. (up to 1.5 MPa for MALC-12SP.)
- When connected, the distance between the socket plate and the plug plate is designed to be 30 mm for all sizes. This means that any size of CUPLA can be mounted and used on the same plate.
- · Low spill valves minimize outflow of fluid and admixture of air into the fluid line.





| Body material | | | Stainless steel (Socket body: Nickel plated) | | | | |
|--|------------|------------------|--|------------------------------|--------------------|--|--|
| Model Thread screw | | ew mount | MALC-1SP | MALC-2 to 8SP | MALC-12SP | | |
| | | ige | - | MALC-2 to 8SP-FL | - | | |
| | Snap ring | | - | MALC-8SP-10F | MALC-12SP(-F/-16F) | | |
| MPa | | 7.0 (2.0) | 5.0 (2.0) | 1.5 (1.5) | | | |
| Working | pressure * | kgf/cm² | 71 (20) | 51 (20) | 15 (15) | | |
| WUIKIIIG | picoouic | bar | 70 (20) | 50 (20) | 15 (15) | | |
| | | PSI | 1020 (290) | 725 (290) | 218 (218) | | |
| Seal material Working temperature range | | Sealing material | Mark | Working temperature range | | | |
| | | Fluoro rubber | FKM (X-100) | -20°C to +180°C | | | |

^{*} The value in brackets is Maximum working pressure of individual plug or socket

| Maximum Ti | | Nm {k | gf•cm} | | | | | |
|--------------------|----------|----------|----------|----------|----------|------------|------------|------------|
| Model | 1SP | 2SP | 3SP | 4SP | 6SP | 8SP | 12SP | 12SP-16F |
| Thread screw mount | 20 {204} | 30 (306) | 35 {357} | 45 {460} | 60 (612) | 75 (765) | 80 (816) | - |
| Flange | - | 7 {71.5} | 7 {71.5} | 7 {71.5} | 7 {71.5} | 23 {235} | - | - |
| Snap ring | 1 | - | - | - | - | 260 {2652} | 280 {2856} | 350 {3570} |

Interchangeabili

Socket and plug in the same size can be connected regardless of their end configurations.

| Minimum Cross-Sectional Area | | | | | | | (mm²) |
|------------------------------|---|------|----|-----|-----|-----|-------|
| Model | Model 1SP 2SP(-FL) 3SP(-FL) 4SP(-FL) 6SP(-FL) | | | | | | |
| Min. cross-sectional area | 26 | 49.5 | 87 | 153 | 227 | 347 | 795 |

Suitability for Vacuum

Not suitable for vacuum application in either connected or disconnected condition

| Admixture of Air on Connection May vary depending upon the usage conditions. | | | | | | | (mL) |
|--|---|------|------|------|------|---------------|---------------|
| Model | 1SP 2SP(-FL) 3SP(-FL) 4SP(-FL) 6SP(-FL) | | | | | 8SP(-FL/-10F) | 12SP(-F/-16F) |
| Volume of air | 0.08 | 0.14 | 0.26 | 0.55 | 0.95 | 0.85 | 1.46 |

| Volume of S | Volume of Spillage per Disconnection May vary depending upon the usage conditions. | | | | | | | | |
|--------------------|--|----------|----------|----------|----------|---------------|---------------|--|--|
| Model | 1SP | 2SP(-FL) | 3SP(-FL) | 4SP(-FL) | 6SP(-FL) | 8SP(-FL/-10F) | 12SP(-F/-16F) | | |
| Volume of spillage | 0.08 | 0.14 | 0.26 | 0.55 | 0.95 | 0.85 | 1.46 | | |

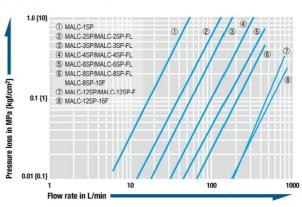
| Load Required to Maintain Connection When Line Is Pressurized | | | | | | | | |
|---|-----------------------------|------------------------------|-----------------------------|-----------------|-----------------|-------------------------------|---------------|--|
| Model | 1SP | 2SP(-FL) | 3SP(-FL) | 4SP(-FL) | 6SP(-FL) | 8SP(-FL/-10F) | 12SP(-F/-16F) | |
| Maximum acceptable load N {kgf} | 2800 {286} | 4500 {459} | 5600 {571} | 10000 {1019} | 14000 {1427} | 15600 {1591} | 8200 {837} | |
| Minimum load required to maintain connection N {kgf} * | P x 170+85 {p x 1.7+8.5} | P x 345+180 {p x 3.45+18} | P x 460+190 {p x 4.6+19} | | | P x 1360+310 {p x 13.6+31} | | |

^{*} Assign the actual value of pressure [P (MPa), p (kgf/cm²)] to the above formula to calculate the load.

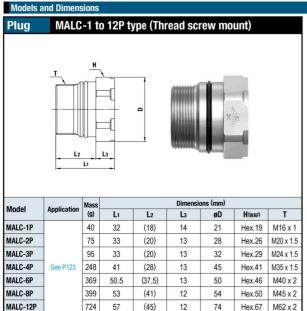
Maintain the connection with the minimum load or more, but not more than the maximum acceptable load

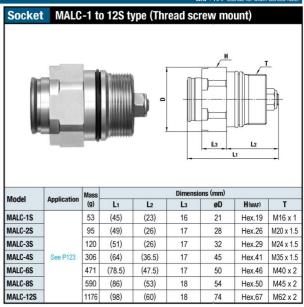
Flow Rate - Pressure Loss Characteristics

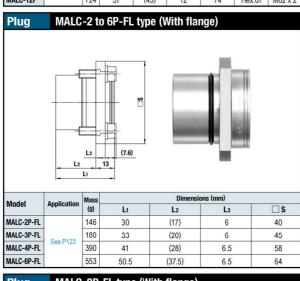
[Test conditions] •Fluid : Water •Temperature : 19°C to 25°C

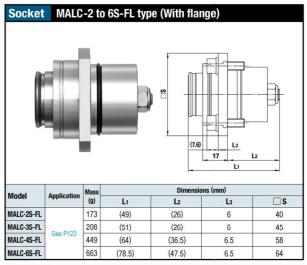


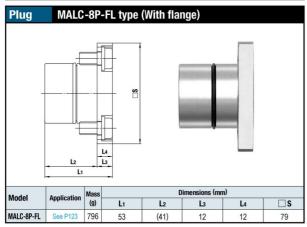
MULTI CUPLA MALC-SP Type for Medium Pressure Use

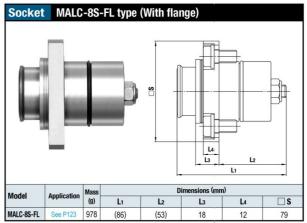


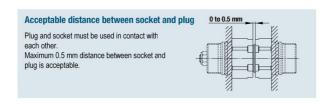






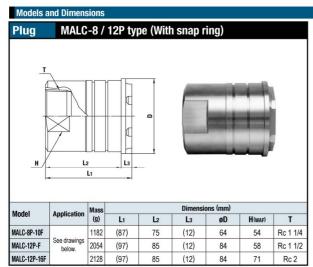


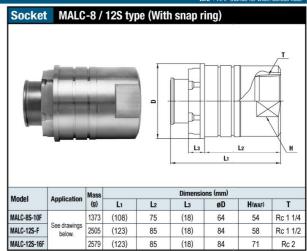


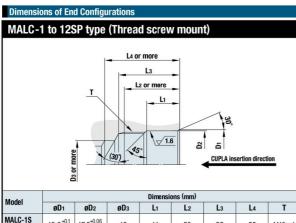




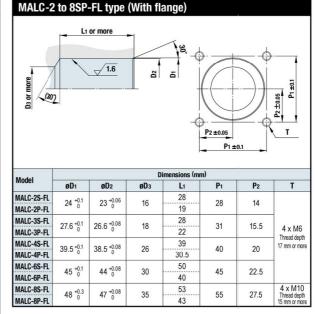
MULTI CUPLA MALC-SP Type for Medium Pressure Use

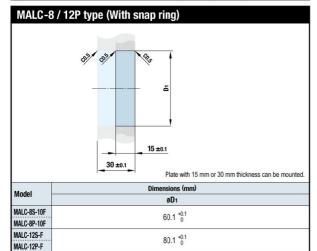






| | D3 or | | | | | | | | | | |
|----------|----------------------|-----------------------|--------|------|--------|---------|---------|---|--|--|--|
| Model | Dimensions (mm) | | | | | | | | | | |
| Wiouei | ØD1 | ØD2 | ØD3 | Lı | L2 | L3 | L4 | T | | | |
| MALC-1S | 18.3 ^{+0.1} | 17.3 ^{+0.06} | 13 | 11 | 20 | 22 | 25 | M16 x 1 | | | |
| MALC-1P | | | 5/01 | 000 | | 1000000 | 0273601 | 10/1/27/00/02 | | | |
| MALC-2S | 24 +0.1 | 23 +0.06 | 16 | 11.5 | 22 | 25 | 28 | M20 x 1.5 | | | |
| MALC-2P | 0 | 0 | | | | | | | | | |
| MALC-3S | 27.6 +0.1 | 26.6+0.08 | 18 | 11 | 22 | 25 | 29 | M24 x 1.5 | | | |
| MALC-3P | 0 | 0 | | | | | | | | | |
| MALC-4S | 39.5 ^{+0.1} | 38.5+0.08 | 26 | 15.5 | 30 | 33 | 40.5 | M35 x 1.5 | | | |
| MALC-4P | 0 | 0 | 0070-0 | | 13.000 | 500.00 | | 300000000000000000000000000000000000000 | | | |
| MALC-6S | 45 ^{+0.1} | 44 +0.08 | 30 | 20 | 40 | 44 | 51.5 | M40 x 2 | | | |
| MALC-6P | .0 0 | | - 00 | | " | | 0110 | III IO X E | | | |
| MALC-8S | 48 +0.3 | 47 ^{+0.08} | 35 | 27 | 43 | 47 | 55 | M45 x 2 | | | |
| MALC-8P | 40 0 | 77 0 | 00 | | 40 | | 00 | WHOAL | | | |
| MALC-12S | 66 ^{+0.3} | 64 ^{+0.1} | 45 | 30 | 50 | 54 | 65 | M62 x 2 | | | |
| MALC-12P | 00 0 | 04 0 | 40 | 30 | 30 | 34 | 03 | IVIOZ X Z | | | |





123 NITTO KOHKI CO., LTD. CUPLA CONNECT CONNEC

MALC-12S-16F

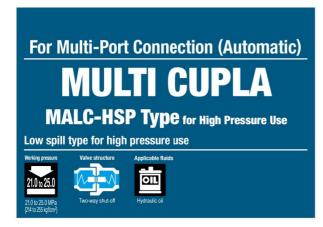
MALC-12P-16F

Before use, please be sure to read "Safety Guide" described at the end of this book and "Instruction Sheet" that comes with the products

80.1 +0.1

Memo





A single operation enables simultaneous connections of multiple lines. A special design minimizes air admixture in fluid lines upon connection. Suitable for high pressure hydraulic circuits.

- Compared with conventional MULTI CUPLA, approximately double flow rates are realized. This could reduce the size of required plates.
 (Rate of flow increase depends on CUPLA sizes.)
- The MALC type realizes a 2 mm axial eccentricity allowance, while the conventional MULTI CUPLA is only 0.6 mm.
- Special valve design enables connection of socket and plug under dynamic pressure of up to 8 MPa.
- When connected, the distance between the socket plate and plug plate is designed to be 30 mm for all sizes. This means any size of CUPLA can be mounted and used on the same plate.
- · Low spill valves minimize outflow of fluid and admixture of air into the fluid line.



| Specif | ications | | | | | | | |
|--|----------|------------------|-------------------------------|----------------|---------------------------|--|--|--|
| Body material | | | Special steel (Nickel plated) | | | | | |
| Model Thread screw mount Flange | | MALC-1HSF |) | MALC-2 to 8HSP | | | | |
| | | ige | - | | MALC-2 to 8HSP-FL | | | |
| | MPa | | 25.0 (8.0) | | 21.0 (8.0) | | | |
| Working p | recure * | kgf/cm² | 255 (81) | | 214 (81) | | | |
| Working | n coourc | bar | 250 (80) | | 210 (80) | | | |
| | | | 3630 (1160) | | 3050 (1160) | | | |
| Seal material Working temperature range | | Sealing material | Ma | ark | Working temperature range | | | |
| | | Fluoro rubber | FKM (X-100) | | -20°C to +180°C | | | |

^{*} The value in brackets is Maximum working pressure of individual plug or socket.

| Maximum Ti | Nn | ı {kgf•cm} | | | | |
|--------------------|----------|------------|----------|----------|----------|------|
| Model | 1HSP | 2HSP | 3HSP | 4HSP | 6HSP | 8HSP |
| Thread screw mount | 30 (306) | 50 (510) | 53 {540} | 80 (816) | 95 {969} | |
| Flange | - | | | 30 {306} | | |

Interchangeabilit

Socket and plug in the same size can be connected regardless of their end configurations.

| Minimum Cr | | (mm²) | | | | |
|---------------------------|------|-------|------|------|------|------|
| Model | 1HSP | 2HSP | 3HSP | 4HSP | 6HSP | 8HSP |
| Min. cross-sectional area | 26 | 49.5 | 87 | 153 | 227 | 347 |

Suitability for Vacuum

Not suitable for vacuum application in either connected or disconnected condition.

| Admixture o | ions. | (mL) | | | | |
|---------------------------|-------|------|------|------|------|------|
| Model 1HSP 2HSP 3HSP 4HSP | | | | | | 8HSP |
| Volume of air | 0.08 | 0.14 | 0.26 | 0.55 | 0.95 | 0.85 |

| Volume of S | Volume of Spillage per Disconnection May vary depending upon the usage conditions. (mL) | | | | | | | | |
|-------------------------------------|---|------|------|------|------|------|--|--|--|
| Model 1HSP 2HSP 3HSP 4HSP 6HSP 8HSP | | | | | | | | | |
| Volume of spillage | 0.08 | 0.14 | 0.26 | 0.55 | 0.95 | 0.85 | | | |

| Load Required to Maintain Connection When Line Is Pressurized | | | | | | | | | |
|---|-----------------------------|-----------------|-----------------|-----------------|-------------------------------|-----------------|--|--|--|
| Model | 1HSP | 2HSP | 3HSP | 4HSP | 6HSP | 8HSP | | | |
| Maximum acceptable load N {kgf} | 9300 {948} | 16500 {1683} | 22000 {2244} | 40500 {4130} | 55000 {5609} | 64500 {6577} | | | |
| Minimum load required to maintain connection N [kgf] * | P x 170+85 {p x 1.7+8.5} | | | | P x 1160+260 {p x 11.6+26} | | | | |

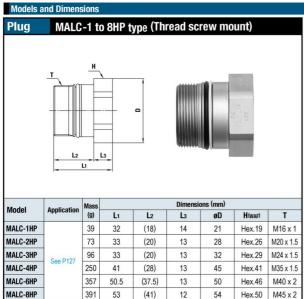
^{*} Assign the actual value of pressure [P (MPa), p (kgf/cm²)] to the above formula to calculate the load.

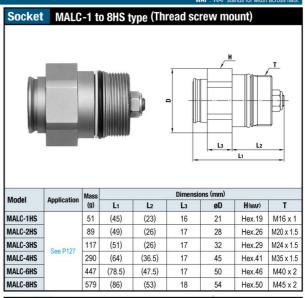
Maintain the connection with the minimum load or more, but not more than the maximum acceptable load

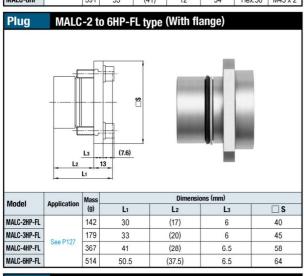
Flow Rate - Pressure Loss Characteristics

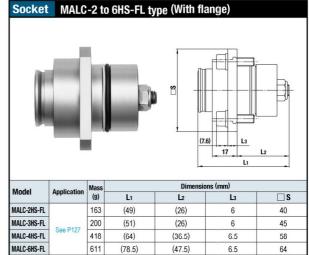
¹²⁵ NITTO KOHKI CO., LTD. CUPLA CONNECT

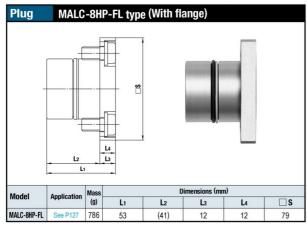
MULTI CUPLA MALC-HSP Type for High Pressure Use

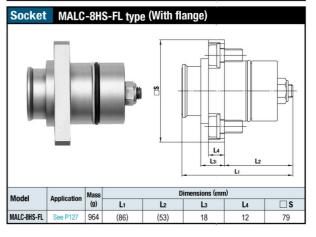










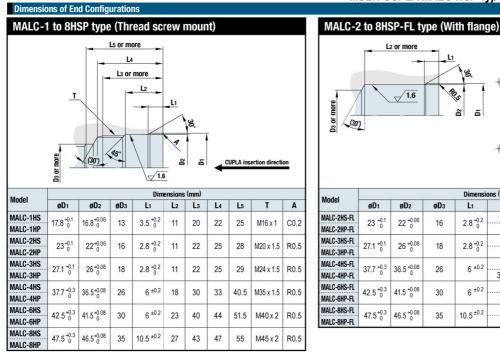


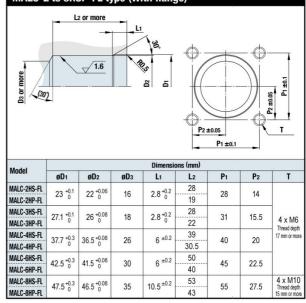






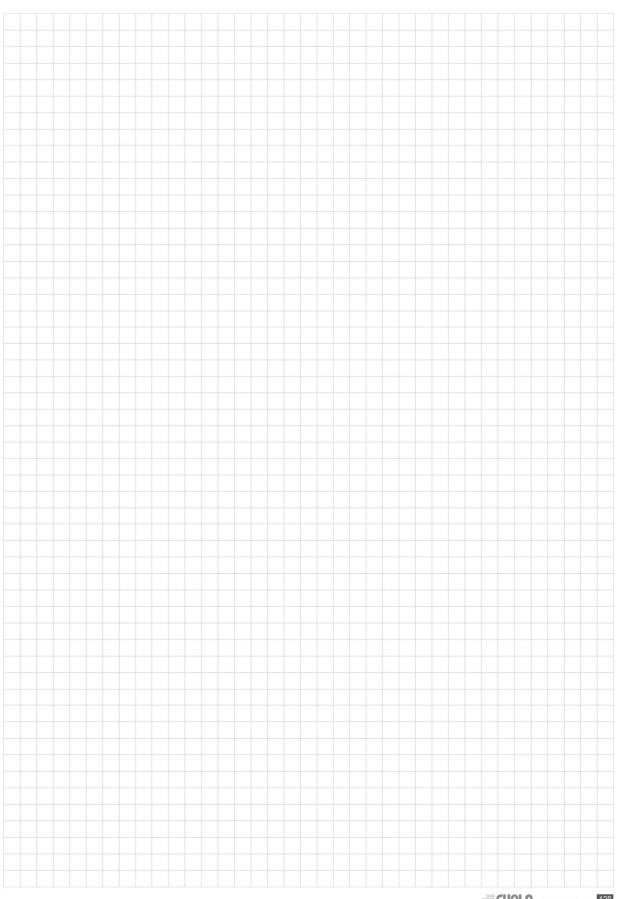
MULTI CUPLA MALC-HSP Type for High Pressure Use







Memo



CONFLOR CUPLA NITTO KOHKI CO., LTD. 128



General purpose type with stainless steel body and rubber seal. **Electro-polished body for enhanced** corrosion resistance.

- · Body and valve springs are stainless steel (SUS304). Body is electro-polished for enhanced corrosion resistance.
- · Seal materials can be selected to suit your fluid and application, to flexibly comply with your semiconductor production process requirements.
- · All components are cleaned, assembled, inspected, and then packed in a clean room.
- Grease free. No grease is applied to the seal material.
- · Each plug comes with a dust cap.
- Stainless steel SUS316 body and valve springs are available as made-to-order products.





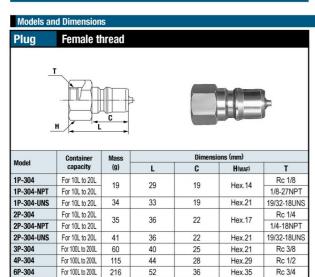
| Specifications | | | | | | | | |
|---------------------------|---|---------------------------------|------------------------------|-------------------|--|--|--|--|
| Body material | Electropolished stainless steel (SUS304) | | | | | | | |
| Size (Thread) | 1/8", 1/4", 3/8", 1/2", 3/4", 1" 1/8-27NPT, 1/4-18NPT, 19/32-18UNS | | | | | | | |
| Pressure unit | MPa | MPa kgf/cm ² bar PSI | | | | | | |
| Working pressure | 0.2 | 2 | 2 | 29 | | | | |
| | Seal material | Mark | Working temperature range | Remarks | | | | |
| Seal material | Fluoro rubber | FKM (X-100) | 0°C to +50°C | Standard material | | | | |
| Working temperature range | Ethylene-propylene rubber | EPDM (EPTS) | 0°C to +50°C | Standard material | | | | |
| | Perfluoroelastomer | Р | 0°C to +50°C | Standard material | | | | |
| | Kalrez | KL | 0°C to +50°C | Standard material | | | | |

| Maximum T | Maximum Tightening Torque | | | | | | | |
|------------------|---------------------------|---------------------|-----------------|----------|----------|----------|------------|--|
| Size | 1/8-27NPT Rc 1/8 | 1/4-18NPT Rc 1/4 | 19/32- 18UNS | Rc 3/8 | Rc 1/2 | Rc 3/4 | Rc 1 | |
| Torque | 9 (92) | 14 {143} | 20 {204} | 22 {224} | 60 (612) | 90 (918) | 120 {1224} | |

Sockets and plugs can be connected regardless of end configurations if the first number in the model name is the same.

| Minimum Cro | oss-Sectio | nal Area | | | | (mm²) |
|---------------------------|------------|----------|-----|-----|-----|-------|
| Model | 1SP | 2SP | 3SP | 4SP | 6SP | 8SP |
| Min. cross-sectional area | 13 | 17 | 48 | 64 | 83 | 192 |

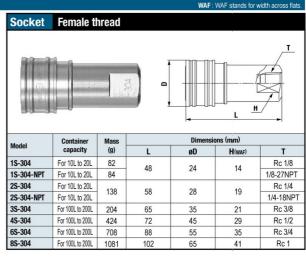
Flow Rate - Pre 1) 2 3 4 5 Pressure loss in MPa {kgf/cm²} 0.1 {1} (1) 1S-304 x 1P-304 (2) 2S-304 x 2P-304 (3) 3S-304 x 3P-304 4) 4S-304 x 4P-304 (5) 6S-304 x 6P-304 (6) 8S-304 x 8P-304 0.01 {0.1}





For 100L to 200L * The annearance of SUS304 and 316 bodies is different



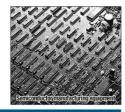




Adopted stainless steel body and fluorine contained resin valves.

- The body and spring material of stainless steel (SUS304), and valve of fluorine contained resin ensure excellent performance with various chemicals.
- Body (SUS304) is electropolished for enhanced corrosion resistance.
- All components are cleaned, assembled, inspected, and then packed in a clean room.
- Grease free. Grease is not applied to the seal material.
- · Plug comes with a dust cap.





| Specifications | 5 | | | | | |
|--|--------|--------------------|--------------------|--|------------------|--|
| Body material Electropolished stainless steel (SUS304) | | | | | | |
| Size (Thread) | | 1. | | 8", 1/2", 3/4", 1" 8NPT, 19/32-18UN | S | |
| Pressure unit | | MPa | kgf/cm² | bar | PSI | |
| Working pressure | | 0.2 | 2 | 2 | 29 | |
| Seal material | Socket | Seal material | Mark | Working temperature range | Remarks | |
| Working temperature | 0-ring | Perfluoroelastomer | Р | 0°C to +50°C | Standard materia | |
| range | Valve | Fluoropolymer re | esin (Socket: PFA, | Plug: PTFE except 1F | and 2P of PFA) | |

*If you need a seal material other than perfluoroelastomer, please consult with us.

| Maximum T | ightening | Torque | | | | Nm { | kgf•cm} |
|------------------|---------------------|---------------------|-----------------|----------|----------|----------|------------|
| Size | 1/8-27NPT Rc 1/8 | 1/4-18NPT Rc 1/4 | 19/32- 18UNS | Rc 3/8 | Rc 1/2 | Rc 3/4 | Rc 1 |
| Torque | 9 (92) | 14 {143} | 20 {204} | 22 {224} | 60 (612) | 90 (918) | 120 {1224} |

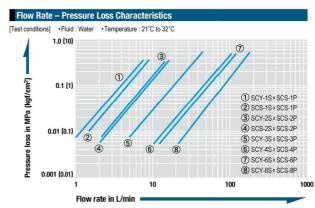
Sockets and plugs can be connected regardless of end configurations if the number \square in the model name (SCS-□S (P)) is the same

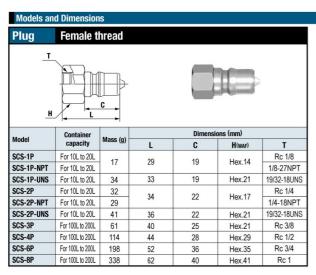
The plugs can be connected with sockets of SCY Type of the same size.

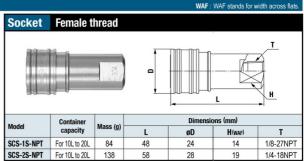
See below chart for details

| Inte | erchai | igeabil | ity Chec | k List (S | CS Type | e, SCY Ty | pe) | | | |
|------|--------|----------------|-------------|-----------|------------|------------|----------|-----------|--------|-----|
| | | • ir | ndicates co | onnection | capability | except for | made-to- | order pro | ducts. | |
| | | | | | | Socket | | | | |
| | | - 4-1 | SCS | Туре | | | SCY | Туре | | |
| | Model | | -1S | -28 | -1S | -28 | -38 | -48 | -6S | -85 |
| | | -1P | • | | • | | | | | |
| Plua | | -2P | | • | | • | | | | |
| 5 | scs | -3P | | | | | • | | | |
| | Type | -4P | | | | | | • | | |
| | | -6P | | | | | | | • | |
| | | -8P | | | | | | | | • |

| Minimum Cr | oss-Sectio | | | (mm²) | | |
|---------------------------|------------|---------|--------|--------|--------|--------|
| Model | SCS-1SP | SCS-2SP | SCS-3P | SCS-4P | SCS-6P | SCS-8P |
| Min. cross-sectional area | 15 | 23 | 28 | 71 | 110 | 162 |















Fluorine contained resin packing seal and perfluoroelastomer packing seal are used to reduce required connection load and to achieve tight sealing.

- The material of body and spring are of stainless steel (SUS304), while that of valve is of fluorine contained resin. The combination shows excellent performance with various types of chemicals.
- Body (SUS304) is electropolished for enhanced corrosion resistance.
- · All components are cleaned, assembled, inspected, and then packed in a clean room.
- Grease free. Grease is not applied to the seal materials.
- · Flanged body makes it easy to operate even with gloves.







| Body material | | Ele | ctropolished stair | nless steel (SUS3 | 04) | | | |
|--|--|--|--------------------|------------------------------|------------------|--|--|--|
| Size (Thread) | | 1/8", 1/4", 3/8", 1/2", 3/4", 1" 1/8-27NPT, 1/4-18NPT | | | | | | |
| Pressure unit | | MPa kgf/cm² bar PSI | | | | | | |
| Working pressure | | 0.2 | 2 | 2 | 29 | | | |
| | Socket | Seal material | Mark | Working temperature range | Remarks | | | |
| Seal material packing Working temperature range seal | | Perfluoroelastomer Fluoropolymer resin | P PTFE (TF) | 0°C to +50°C | Standard materia | | | |
| | Valve Fluoropolymer resin (PTFE except 1P and 2P of PFA) | | | | | | | |

^{*}If you need a seal material other than perfluoroelastomer, please consult with us

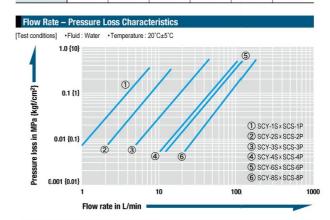
Maximum Tightening Torque Nm {kgf•cm} See page 130 of SEMICON CUPLA SCS Type.

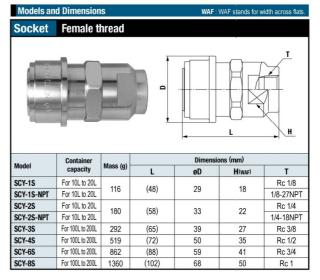
Interchangeability

Can be connected with plugs of SCS Type of the same size. See below chart for details.

| | | • in | idicates co | onnection | capability | except for | r made-to- | order prod | ducts. | |
|------|-------|------|-------------|-----------|------------|------------|------------|------------|--------|-----|
| | | | | | | Socket | | | | |
| | Model | | SCS | Туре | | | SCY | Туре | | |
| | | | -18 | -28 | -18 | -28 | -38 | -48 | -6S | -89 |
| | | -1P | • | | • | | | | | |
| Pluq | | -2P | | • | | • | | | | |
| 3 | SCS | -3P | | | | | • | | | |
| | Type | -4P | | | | | | • | | |
| | | -6P | | | | | | | • | |
| | | -8P | | | | | | | | • |

| Minimum Cr | | (mm²) | | | | |
|---------------------------|--------|--------|--------|--------|--------|--------|
| Model | SCY-1S | SCY-2S | SCY-3S | SCY-4S | SCY-6S | SCY-8S |
| Min. cross-sectional area | 15 | 23 | 28 | 71 | 110 | 162 |







Polytetrafluoroethylene (PTFE) is utilised for the body.

- Polytetrafluoroethylene (PTFE) body gives excellent resistance to chemicals.
- Both socket and plug have built-in automatic shut-off valves that prevent fluid from outflowing when disconnected.
- · No dissolution of metal ions from part in contact with liquid ensures excellent reliability.
- All components are cleaned, assembled, inspected and then packed in a clean room.
- · Appropriate model can be selected form a wide variety of sizes to suit your application / fluid.
- Optional keyway lock to prevent incorrect connection. 10 keyway patterns are available.



| Body material | | Polytetrafluoroethylene (PTFE) | | | | | |
|---------------------------|--------|---|-----------|------------------------------|------------------|--|--|
| Size (Thread) | | 1/4", 3/8", 1/2", 3/4", 1" 1/4-18NPT, 3/8-18NPT, 1/2-14NPT, 3/4-14NPT, 1-11.5NPT | | | | | |
| Pressure unit | | MPa kgf/cm² bar | | bar | PSI | | |
| Working pressure | | 0.2 | 0.2 2 2 2 | | | | |
| Seal material | Socket | Seal material | Mark | Working temperature range | Remarks | | |
| Working temperature range | 0-ring | FEP-covered fluoro rubber | _ | +5°C to +50°C | Standard materia | | |
| | Valve | Fluoropolymer resin (PFA) | | | | | |

With seal tape wrapped on the male thread, screw it firmly by hand, and then add more tightening with a wrench as shown below

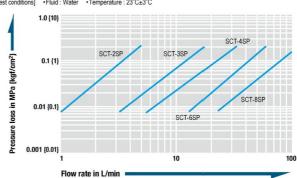
| 1 3 to 2 turns | 1/4" · 3/8" · 1/2" · 3/4" · 1" Size |
|----------------|-------------------------------------|
| /A LU Z LUITIS | 1/4 - 3/0 - 1/2 - 3/4 - 1 - 3/26 |

Whichever method, overtightening may damage the thread and cause leakage, so take extra care

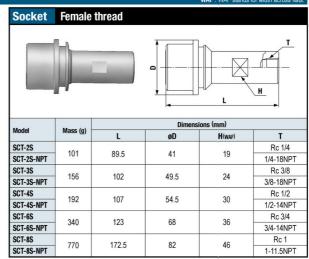
Sockets and plugs can be connected regardless of end configurations if the number \square in the model name (SCT- \square S (P)) is the same.

| Minimum Cross-Sect | | (mm²) | | | |
|------------------------------|---------|---------|---------|---------|---------|
| Model | SCT-2SP | SCT-3SP | SCT-4SP | SCT-6SP | SCT-8SP |
| Minimum cross-sectional area | 12 | 34 | 54 | 103 | 225 |

[Test conditions] •Fluid : Water •Temperature : 23°C±3°C 1.0 {10}



Plug Female thread Mass (g) Α Т SCT-2P Rc 1/4 43 59 30.5 27.5 24 SCT-2P-NPT 1/4-18NPT SCT-3P Rc 3/8 77 68.5 33.5 34.5 SCT-3P-NPT 3/8-18NPT SCT-4P Rc 1/2 91 69.5 37.5 39.5 36 SCT-4P-NPT 1/2-14NPT SCT-6F Rc 3/4 45 48 41 160 78.5 SCT-6P-NPT 3/4-14NPT SCT-8P Rc 1 SCT-8P-NPT 1-11.5NPT



Available end configurations are female ISO Rc thread and female NPT thread

* Plug or socket with female ISO Rc end configuration has V-groove on the body as identification. (In case of female NPT thread, no V-groove on either plug or socket body)

* Please inquire for other end configurations other than female thread (e.g. flanged or male thread).









Body is polytetrafluoroethylene (PTFE).

- Polytetrafluoroethylene (PTFE) body gives excellent resistance to chemicals.
- · Unique seal design ensures minimal liquid spill.
- . Both socket and plug have built-in automatic shut-off valves that prevent fluid from outflowing when disconnected.
- No dissolution of metal ions from part in contact with liquid ensures excellent reliability.
- Push-to-connect design.
- Flanged socket body makes it easy to push down sleeve even when wearing gloves.
- · All components are cleaned, assembled, inspected and then packed in a clean room.
- . Concaved surface of the plug end prevents liquid loss and protects the plug seal surface from damage if dropped or hit.
- To prevent incorrect connection, a keyed type sleeve is available on a made-to-order



| Body material | | | Polytetrafluoro | ethylene (PTFE) | | | |
|---------------------------|--------|---|-----------------|------------------------------|------------------|--|--|
| Size (Thread) | | 1/4", 3/8", 1/2", 3/4", 1" 1/4-18NPT, 3/8-18NPT, 1/2-14NPT, 3/4-14NPT, 1-11.5NPT | | | | | |
| Pressure unit | | MPa | kgf/cm² | bar | PSI | | |
| Working pressure | | 0.2 | 2 | 2 | 29 | | |
| Seal material | Socket | Seal material | Mark | Working temperature range | Remarks | | |
| Working temperature range | 0-ring | Perfluoroelastomer | Р | +5°C to +50°C | Standard materia | | |
| | Valve | Fluoropolymer resin (PFA) | | | | | |

With seal tape wrapped on the male thread, screw it firmly by hand, and then add more tightening with a wrench as shown below

| 1 3/ to 2 turns | 1/4" · 3/8" · 1/2" · 3/4" · 1" Size |
|-----------------|-------------------------------------|
| | |

Whichever method, overtightening may damage the thread and cause leakage, so take extra care.

Socket

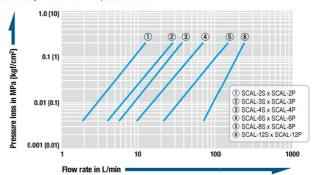
Sockets and plugs can be connected regardless of end configurations if the number \square in the model name {SCAL- \square S (P)} is the same.

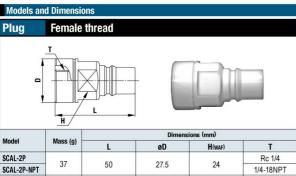
| Minimum Cros | | (mm²) | | | | |
|---------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|---|
| Model (SCAL- □) | 2S (-NPT) X 2P (-NPT) | 3S (-NPT) X 3P (-NPT) | 4S (-NPT) X 4P (-NPT) | 6S (-NPT) X 6P (-NPT) | 8S (-NPT) X 8P (-NPT) | 12S (-NPT/-FL-P) X 12P (-NPT/-FL-P) |
| Min. Cross-Sectional Area | 24 | 41 | 59 | 108 | 234 | 611 |

| Volume of Spillage per Disconnection Volume of spillage may vary depending upon the usage conditions. | | | | | | |
|---|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|---|
| Model (SCAL-□) | 2S (-NPT) X 2P (-NPT) | 3S (-NPT) X 3P (-NPT) | 4S (-NPT) X 4P (-NPT) | 6S (-NPT) X 6P (-NPT) | 8S (-NPT) X 8P (-NPT) | 12S (-NPT/-FL-P) X 12P (-NPT/-FL-P) |
| Volume of spillage | 0.07 | 0.09 | 0.13 | 0.20 | 0.59 | 1.26 |

- Pressure Loss Characteristics

Female thread





| Model | Mana (a) | Dimensions (mm) | | | | | | |
|---------------|----------|-----------------|------|-----------|---------------|--|--|--|
| Model | Mass (g) | L | øD | H(WAF) | Т | | | |
| SCAL-2P | 37 | 50 | 07.5 | 04 | Rc 1/4 | | | |
| SCAL-2P-NPT | 31 | 37 50 27.5 | 24 | 1/4-18NPT | | | | |
| SCAL-3P | 73 | 63 | 34.5 | 30 | Rc 3/8 | | | |
| SCAL-3P-NPT | 13 | 73 63 34.5 | 34.5 | 30 | 3/8-18NPT | | | |
| SCAL-4P | 107 | 107 72 39.5 | 20.5 | 36 | Rc 1/2 | | | |
| SCAL-4P-NPT | | | 39.5 | 30 | 1/2-14NPT | | | |
| SCAL-6P | 153 | 77 | 48 | 41 | Rc 3/4 | | | |
| SCAL-6P-NPT | 155 | 11 | 40 | 41 | 3/4-14NPT | | | |
| SCAL-8P | 348 | 109 | 59 | 50 | Rc 1 | | | |
| SCAL-8P-NPT | | 346 109 | 59 | 50 | 1-11.5NPT | | | |
| *SCAL-12P-NPT | 740 | 126 | 80 | 75 | 1 1/2-11.5NPT | | | |

Model Mass (g) SCAL-2S Rc 1/4 97 (60.5)40.5 SCAL-2S-NPT 1/4-18NPT SCAL-3S Rc 3/8 135 (69.5)47 32 SCAL-3S-NPT 3/8-18NPT SCAL-4S Rc 1/2 177 52 SCAL-4S-NPT 1/2-14NPT SCAL-6S Rc 3/4 SCAL-6S-NPT 3/4-14NPT SCAL-8S Rc 1 SCAL-8S-NPT 1-11.5NPT *SCAL-12S-NPT 1580 (144.5) 108 1 1/2-11.5NPT

- Made-to-order item • Plug comes with a cap made of high density polyethylene (HDPE). • Outer appearance of NPT thread type differs slightly from that of the above.
- Please contact us about end configurations other than female thread such as flarge and male thread.
 Excessive tightening will damage the threaded part and result in leakage
 Note: A very small amount of gas can permeate polytetraflucroethylene (PTFE) bellows in the socket.

 Before use, please has sure to read "Safety Guide" dies.

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 Before use has sure to read

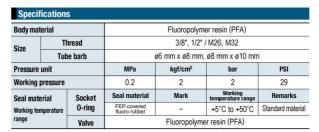




All plastic model. Fluoropolymer resin (PFA) body.

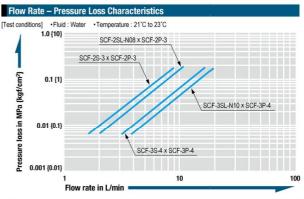
- All parts made of fluoropolymer resin. O-rings in particular are FEP-covered fluororubber with excellent chemical resistance and no rubber elution.
- To connect with a plug, just push the socket on to it. Disconnection is done in simple and one-handed button operation.
- Unique "double lock mechanism" prevents accidental disconnection of socket and plug.
- Branched tube port improves operability and reduces required piping space.
- · Plugs come with a dust cap.
- All components are cleaned, assembled, inspected, and then packed in a clean room.

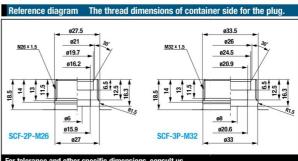


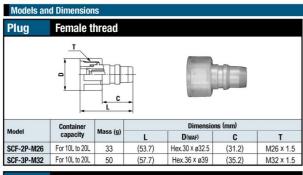


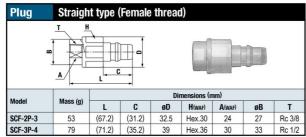
Sockets and plugs can be connected regardless of end configurations if the number \square in the model name {SCF- \square S (P)} is the same.

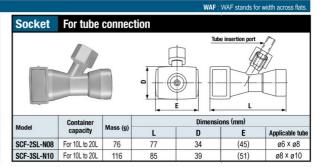
| Minimum Cross-Sectional | (mm²) | |
|--------------------------------|---------|---------|
| Model | SCF-2SP | SCF-3SP |
| Minimum cross-sectional ar | 23.8 | 44.2 |

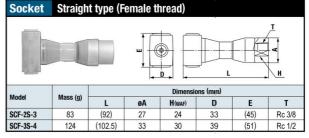






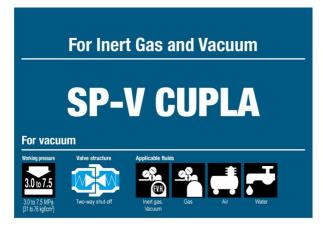








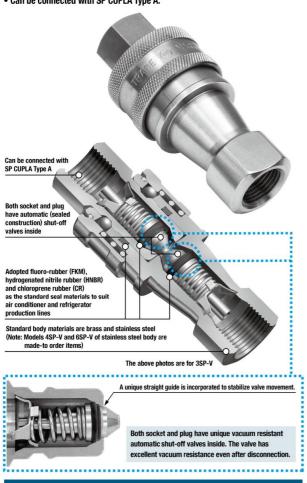




Automatic shut-off valves in both socket and plug for vacuum applications. Each can withstand a vacuum of as high as 1.3 x 10⁻¹ Pa even when disconnected.

- Uses automatic shut-off valves with ultra-tight sealed construction in both socket and plug. Ideal for vacuum applications.
- Having automatic shut-off valves in both socket and plug facilitates easy fluid handling. Suitable for a wide range of vacuum applications as high as 1.3 x 10^{-1} Pa $\{1 \times 10^{-3} \text{ mmHg}\}$ even when disconnected.
- Three types of seal material are available to suit any of the diversified production lines for air conditioners, refrigerators or similar.
- Can be connected with SP CUPLA Type A.

135 NITTO KOHKI CO., LTD. CUPLA CONNECT COLPUNOS



| Specifications | | | | | |
|---------------------------|---------------------|--------------------------------|--------------------|--|---|
| Body material | | | ass I material) | Stainless steel (Standard material) | Stainless steel (Made-to-order item) |
| Size (Thread) | | 1/4", 3/8" | 1/2", 3/4" | 1/4", 3/8" | 1/2", 3/4" |
| Working pressure | MPa | 5.0 | 3.0 | 7.5 | 4.5 |
| | kgf/cm ² | 51 | 31 | 76 | 46 |
| | bar | 50 | 30 | 75 | 45 |
| | PSI | 725 | 435 | 1090 | 653 |
| | | Seal material | Mark | Working temperature range | Remarks |
| Seal material | | Chloroprene rubber | CR (C308) | -20°C to +80°C | Standard material |
| Working temperature range | | Fluoro rubber | FKM (X-100) | -20°C to +180°C | Standard material |
| | | Hydrogenated nitrile rubber | HNBR (H708) | -20°C to +120°C | Standard material |

No grease is applied to the O-ring of the socket for HNBR seal material products when shipping.
 Be sure to apply refrigerating machine oil before use.

| Maxim | | Nm {kgf•cm} | | | |
|------------|-----------------|-------------|----------|-----------|----------|
| Size (Thre | ad) | 1/4" | 3/8" | 1/2" | 3/4" |
| Torque | Brass | 9 {92} | 12 {122} | 30 {306]} | 50 (510) |
| Torque | Stainless steel | 14 {143} | 22 {224} | 60 (612) | 90 {918} |



Interchangeability

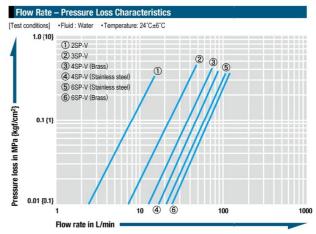
Socket and plug of different sizes cannot be connected.

Interchangeable with SP CUPLA Type A but take heed of flow rate change.

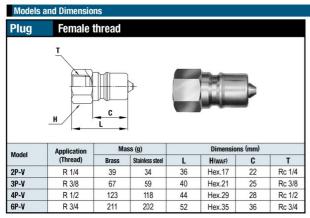
| Minimum Cross-Sectional Area (mm² | | | | | | | |
|-----------------------------------|-------|-------|--------|-------|--|--|--|
| Model | 2SP-V | 3SP-V | 4\$P-V | 6SP-V | | | |
| Minimum cross-sectional area | 18 | 38 | 71 | 110 | | | |

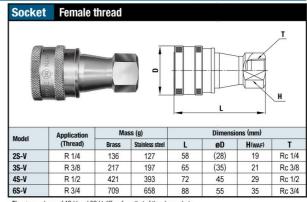
| Suitability for Vacuum | 1.3 | 3 x 10 ⁻¹ Pa {1 x 10 ⁻³ mmHg} |
|------------------------|-------------|---|
| Socket only | Plug only | When connected |
| Operational | Operational | Operational |

| Admixture of Air on Connection | onditions. | (mL) | | |
|--------------------------------|------------|-------|-------|-------|
| Model | 2SP-V | 3SP-V | 4SP-V | 6SP-V |
| Volume of air | 1.0 | 2.4 | 3.2 | 10.5 |



SP-V CUPLA





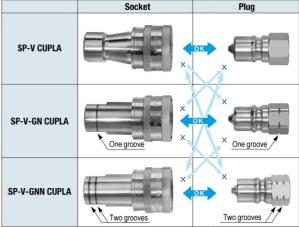
The seeve shape of 4S-V and 6S-V differs from that of the above photo

Various eco-friendly refrigerants for air conditioner and refrigerator have been developed. Nitto Kohki, having invested years in the research and development of excellent seal materials to withstand refrigerants and refrigerant oils, has made early attempts to develop and manufacture the seal materials for these eco-friendly refrigerants.

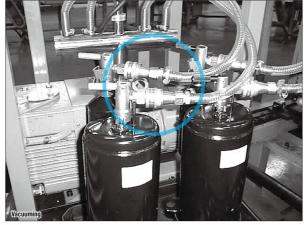
| | Seal mat | terial |
|-------------|--|---|
| | Hydrogenated nitrile rubber | Chloroprene rubber |
| Mark | HNBR (H708) | CR (C308) |
| Features | Resistant to hydrofluorocarbons (HFC-134a, HFC-407C, HFC-410A, HFC-404A), and PAG type and ester type oils. Also resistant to heat up to 120°C | Excellent resistance to hydrofluorocarbons (HCFC-22 and HFC-134a) |
| Application | Refrigerator production lines Air conditioner production lines | Air conditioner production lines |

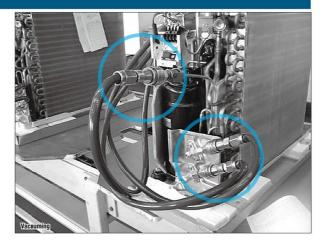
Comparison of External Appearance

When two different gases are used simultaneously in the production lines, SP-V-GN type and SP-V-GNN type (non-interchangeable with standard SP-V and each others) may be required in order to prevent connections to improper lines by mistakes. They are made-to-order items. For details please contact Nitto Kohki direct or its distributor in your country.



× indicates incompatibility.

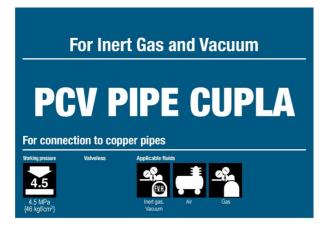








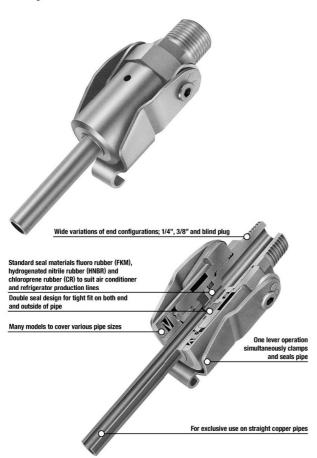




Clamps directly on straight copper pipes!

Double seal construction withstands a vacuum of up to 1.3 x 10⁻¹ Pa.

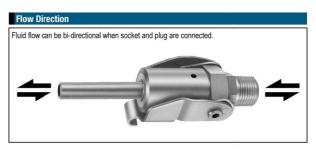
- Clamps directly on to straight copper pipes eliminating unnecessary welding or flaring.
- Withstands a vacuum of up to 1.3 x 10⁻¹ Pa (when connected) making it
 possible to be used in leak testing, vacuum suction and refrigerant charge.
- Select from three standard types of seal materials to be used with fluids for air conditioner and refrigerator production lines. Many models to suit various pipe sizes.
- One lever operation simultaneously clamps and seals pipe. Double seal construction for tight fit on end and outside surface of pipe ensures excellent sealing and vacuum resistance.



| Specifications | | | | | | | | | | |
|---------------------------|--------------------|------------------------|--------|--------------------------------|-----------------|-----------------|-----------------|---------|-------------------|------------------|
| Model | PCV400 | PCV470 | PCV500 | PCV600 | PCV630 | PCV800 | PCV950 | PCV1000 | PCV1270 | PCV1590 |
| Copper pipe OD mm | ø4.0 | ø4.76 (3/16") | ø5.0 | ø6.0 | ø6.35 (1/4") | ø8.0 (5/16") | ø9.52 (3/8") | ø10.0 | ø12.7 (1/2") | ø15.88 (5/8") |
| Body material | Brass | | | | | | | | | |
| Pressure unit | MPa | | | kgf/c | f/cm² bar | | | PSI | | |
| Working pressure | 4.5 | | | 46 | 46 45 | | | 653 | | |
| | Seal material | | | Mark Working temperature range | | nge | Remarks | | | |
| Seal material | Chloroprene rubber | | oer | CR (C308) | | -20°C to +80°C | | °C S | Standard material | |
| Working temperature range | Fluor | o rubbe | er I | KM (X | 100) | -20°C | to +180 |)°C S | tandard r | naterial |
| | | rogenated le rubber | H | INBR (I | H708) | -20°C | to +120 | °C S | tandard r | naterial |

[·] Hydrogenated nitrile rubber (HNBR) is colored in blue for easy recognition.

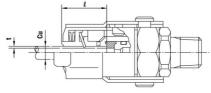
| Maximum Tighter | ning Torque | Nm {kgf•cm} |
|------------------------|-------------|-------------|
| Size (Thread) | 1/4" | 3/8" |
| Torque | 9 {92} | 12 {122} |



| Minimum Cros | | (mm²) | | | | |
|---------------------------|--------|---------|-----------|-----------|-----------|-----------|
| Model | PCV400 | PCV470 | PCV500 | PCV600 | PCV630 | PCV800 |
| Min. cross-sectional area | 3.8 | 3.8 | 3.8 | 9.1 | 9.1 | 16.6 |
| Model | PCV950 | PCV1000 | PCV1270-2 | PCV1270-3 | PCV1590-2 | PCV1590-3 |
| Min. cross-sectional area | 16.6 | 16.6 | 50.3 | 73.9 | 50.3 | 78.5 |

| Suitability for Vacuum | 1.3 x 10 ⁻¹ Pa {1 x 10 ⁻³ mmHg} |
|------------------------|---|
| CUPLA only | When connected to a pipe |
| _ | Operational |

Pipe Outside Diameter, Insert Length of Pipe into CUPLA, and Minimum Thickness of Pipe Wall (mm)

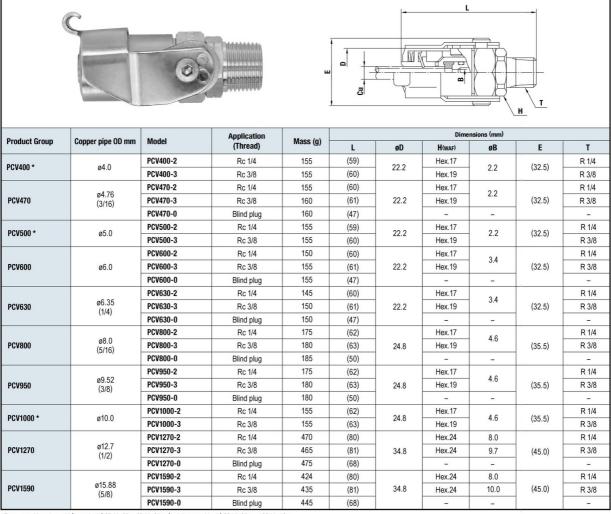


Items with asterisk (*) are made-to-order products.

| Product Group | Pipe OD (Cu) | Insert Length of Pipe into CUPLA (ℓ) | Minimum Thickness of Pipe Wall (t) | | |
|---------------|-----------------|---|--|--|--|
| PCV400* | ø4.0 | | | | |
| PCV470 | ø4.76 (3/16") | | | | |
| PCV500* | ø5.0 | 19 | | | |
| PCV600 | ø6.0 | | 0.8 or more | | |
| PCV630 | ø6.35 (1/4") | | | | |
| PCV800 | ø8.0 (5/16") | | | | |
| PCV950 | ø9.52 (3/8") | 20.5 | | | |
| PCV1000* | ø10.0 | | | | |
| PCV1270 | ø12.7 (1/2") | 30 | 1.0 or more | | |
| PCV1590 | ø15.88 (5/8") | 30 | 1.0 or more | | |

Models and Dimensions

PCV PIPE CUPLA



[•] For mass with a plug, add (brass body) 2P-V: 39 g, 3P-V: 67 g, (stainless steel body) 2P-V: 34 g, or 3P-V: 59 g
*Available on request

Clamping Mechanism Before clamping After clamping Copper pipe Chuck Leve When the lever is pushed down, the sleeve moves in the direction of the arrow, and at the same

time actuates the chucks to grip the copper pipe firmly and provide a tight seal.



Before use, please be sure to read "Safety Guide" described at the end of this book and "Instruction Sheet" that comes with the products.





Quick connection and disconnection of paint spray gun and paint fluid line is realized.

- Unique swing connection system enables easy connection and disconnection of paint spray gun and paint hose even by gloved hands.
- Full-open gate valve mechanism prevents paint precipitate buildup.
- Adoption of special resin seal that has resistance against solvents made it
 possible to feature superior durability, long stable capability, and easy
 cleaning of paint spray gun after the job.
- Connection and disconnection can be made even if paint sticks to the socket sleeve.
- Small and lightweight design (80 g per set) reduces the weight to be held by hand of operators.
- Built-in sleeve lock mechanism prevents accidental disconnection of CUPLA, ensuring safe operation.



| Flow Direction | | | |
|-----------------------|----------------|--|---|
| Fluid must run from s | ocket to plug. | | |
| _ | | | _ |

| Specifications | | | | | |
|---------------------------|---------------|---------------------|---------------------|----------------|-------------------|
| Body material | Socket | : Aluminum alloy | Plug : | Stainle | ess steel |
| Size (Thread) | | 3/8", 3 | 3/8NPS | | |
| Pressure unit | MPa | kgf/cm ² | bar | | PSI |
| Working pressure | 1.0 | 10 | 10 | | 145 |
| Seal material | Seal material | Mark | Worki temperatur | ng re range | Remarks |
| Working temperature range | Fluoro-resin | PFA | 0°C to + | -50°C | Standard material |

| Tightening Torque Rang | Tightening Torque Range | |
|-------------------------------|-------------------------|--|
| Torque | 15 {153} | |

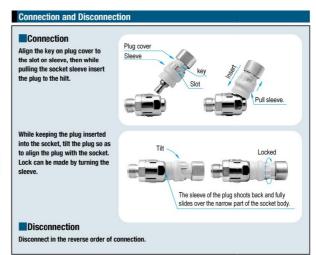
Interchangeability

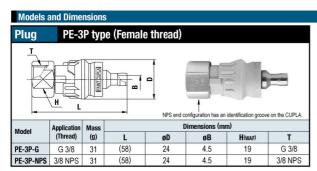
Sockets and plugs can be connected regardless of end configurations.

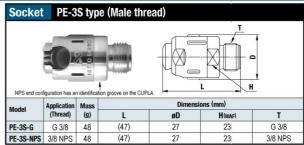
Suitability for Vacuum

Not suitable for vacuum application in either connected or disconnected condition.

Flow Rate - Pressure Loss Characteristics [Test conditions] • Fluid viscosity : 8 x 16⁻⁷ m²/s (Equivalent to water) • Temperature : 30°C±5°C 1.0 (10) 0.1 (11) PE-3S-G x PE-3P-G PE-3S-NPS x PE-3P-NPS PE-3S-NPS x PE-3P-NPS 100 100 100 100 100

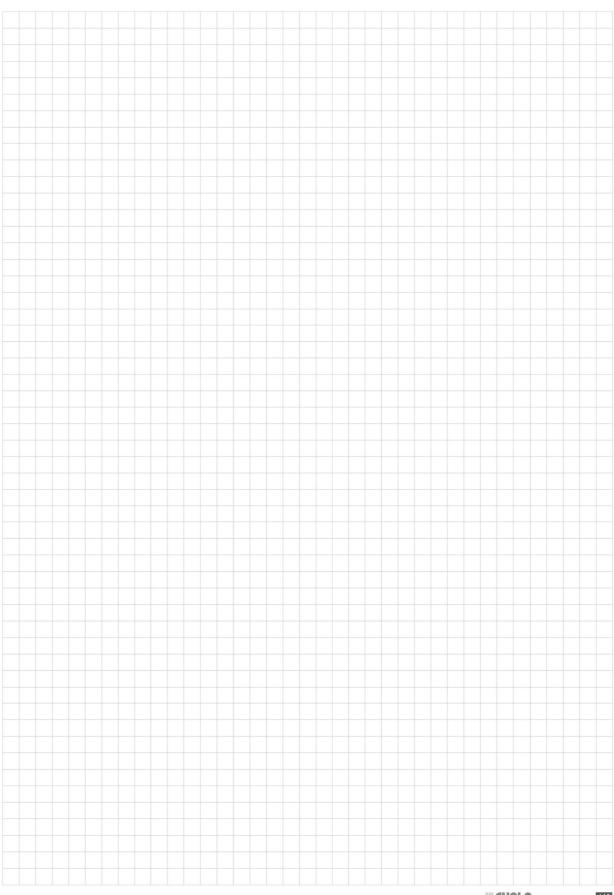








Memo



CONFECT CUPLA NITTO KOHKI CO., LTD. 140



Solves the troubles of ferrule joints by the effortless operation unique to CUPLA. Easy disassembly and cleanability help in hygienic management of HACCP.

- . It can be connected by just inserting the plug to the socket and twisting the "Safety lock".
- . The "Safety lock" feature ensures that there can be no unintentional disconnection of the coupling.
- O-rings that conforms to the Food sanitation Act of Japan is adopted.
- · An operator friendly design. Seal parts will not drop off during connection like conventional fittings



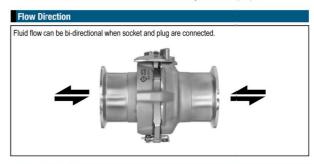


| Body material | Stainless steel [SCS16 (JIS SUS316L equivalent)] *1 | | | | |
|---|---|-------------|------------------------------|----------------------|--|
| Surface finish of the liquid-contact part | Buff finish #400 | | | | |
| Size of end configurations | Welding | type +2 | Ferrule type *3 | | |
| Size of end configurations | 1.5 \$ / 2.0 \$ | | | | |
| Pressure unit | MPa | kgf/cm² | bar | PSI | |
| Working pressure | 1.0 | 10 | 10 | 145 | |
| | Seal material | Mark | Working temperature range | Remarks | |
| Seal material *4 | Silicone rubber | SI | 0°C to +110°C | Standard material | |
| Working temperature range | Fluoro rubber | FKM (X-100) | 0°C to +180°C | Available on reques | |
| | Ethylene-propylene rubber | EPDM (EPT) | 0°C to +150°C | Available on request | |
| O-ring size | 1.5 S: P38, 2.0 S: P50 (Dimensions, tolerance: refer to JIS B 2401, Hardness: A70±5) | | | | |

- All metal parts are equivalent to SUS304 except those exposed to liquid contact. The dimensions of the weld zone conform to JIS G 3447 stainless steel sanitary pipe.

- Please use ferrule couplings conforming to IDF /ISO 2852.

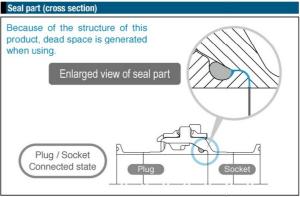
 The seal material conforms to article No.3-D-3-(1) Rubber utensils (except nursing utensils) or Containers / Packages. It has passed both material and elution tests specified in the Food sanitation Act and the standards for Food and Food additives (Notice No.370 of 1959 issued by the Ministry of Health and Welfare of Japan). Conforms to standard No.21CFR 177.2600 of the US Food and Drug Administration (FDA) .

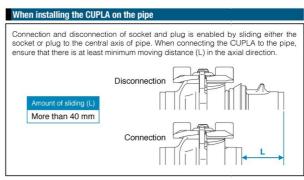


Sockets and plugs can be connected regardless of end configurations if the size is same.

| Suitability for Vacuum | Vacuum pressure: 53 kPa | | |
|------------------------|-------------------------|----------------|--|
| Socket only | Plug only | When connected | |
| - | _ | Operational | |

Vacuum performance may vary depending upon working environment and usage conditions.

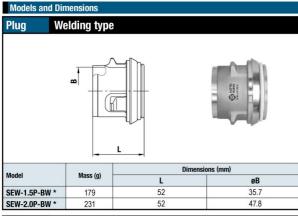


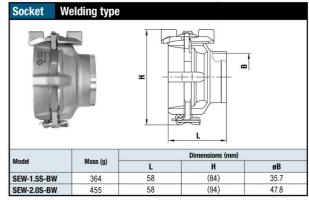


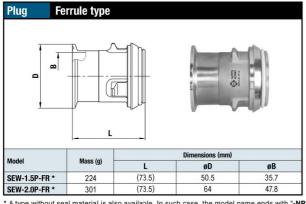
HACCP: Hazard Analysis and Critical Control Point

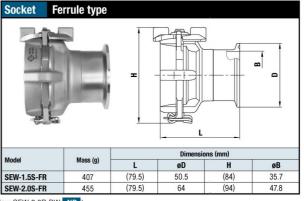
HACCP is the management system in which food safety is addressed to the process from production, procurement and handling of raw materials to distribution and consumption of finished products through the analysis and control of biological, chemical and physical hazards.

HYGIENIC CUPLA Easy Wash Type









^{*} A type without seal material is also available. In such case, the model name ends with "-NP". (ex: SEW-2.0P-BW -NP)



Easy assembly and disassembly

No tools are required to disassemble / assemble HYGIENIC CUPLA. Small number of parts that are easy to handle, aiding efficient maintenance.



Easy washing of the whole unit

After disassembly, small number of components requires minimum effort when cleaning. No small parts to lose.



Safety Lock function

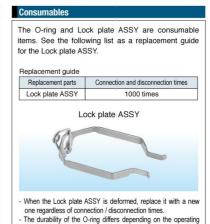
As a safety measure, the "Safety lock" feature ensures that there can be no unintentional disconnection of the CUPLA. By turning the cam handle, you can maintain the connected state of the socket and plug.



Construction and Safety standards

Since the O-Ring is attached beforehand, it will not drop off during connection like conventional fittings. And the seal material conforms to article No. 3-D-3-(1) Rubber utensils (except nursing utensils) or Containers / Packages. It has passed both material and elution tests specified in the Food sanitation Act and the standards for Food and Food additives (Notice No.370 of 1959 issued by the Ministry of Health and Welfare of Japan). Also conforms to standard No. 21 CFR 177.2600 of the US Food and Drug Administration (FDA).





Before use, please be sure to read "Safety Guide" described at the end of this book and "Instruction Sheet" that comes with the products.

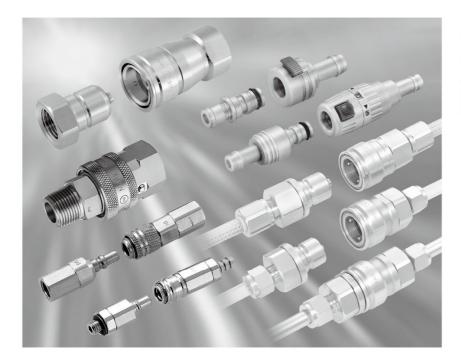
environment and conditions (pressure and temperature etc.).



Semi-Standard CUPLA Series

Quick Connect Couplings CUPLA

Index





CUPLA with Single Lock CUPLA with Safety Lock

Accidental disconnection prevention mechanism

The standard CUPLA series listed on the lower right can have an additional single lock or a safety lock mechanism to prevent accidental disconnection.

• CUPLA with Single Lock

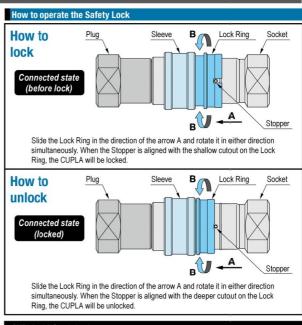
The sleeve is provided with a cutout and the body of the socket has a projecting lock pin or ball. After connecting the CUPLA, simply turn the sleeve to lock the back and forth movement of the sleeve.

CUPLA with Safety Lock

A sleeve stopper Lock Ring is provided behind the sleeve. After connecting the CUPLA, simply turning the Lock Ring to disable the back and forth movement of the sleeve (see diagram sketch on the right top).







CUPLA with Single Lock

HI CUPLA (Brass) / MOLD CUPLA / SP CUPLA Type A / TSP CUPLA / HSP CUPLA / 210 CUPLA *The above all with single lock are made-to-order.

The following CUPLA come with single lock as standard feature.

HI CUPLA BL / LOCK CUPLA 200 / HSU CUPLA / 350 CUPLA / FLAT FACE CUPLA F35 / FLAT FACE CUPLA FF / 450B CUPLA

CUPLA with Safety Lock

SP CUPLA Type A / TSP CUPLA / HSP CUPLA / 210 CUPLA / 350 CUPLA *The above all with safety lock are made-to-order.

The above an with safety lock are made-to-order.

The following CUPLA come with safety lock as standard feature. HOT WATER CUPLA / S210 CUPLA

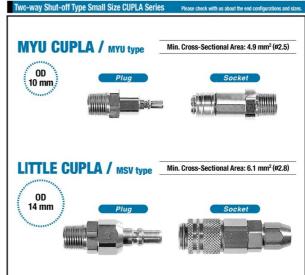
Two-way Shut-off Type Small Size CUPLA For temperature controllers Working pressure Valve structure Applicable fluids Valve fluids Valve fluids Valve fluids Valve fluids Applicable fluids Valve fluids Valve fluids Valve fluids Valve fluids Valve fluids Valve fluids

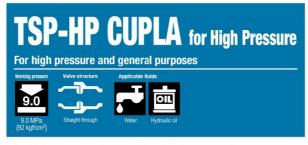
- Push-to-connect operation.
- Both socket and plug have built-in automatic shut-off valves to prevent fluid spill out when disconnected.
- Easy connection even in a restricted area.
- · Lightweight feature will allow you easy design of multiple piping.



Before use, please be sure to read "Safety Guide" described at the end of this book and "Instruction Sheet" that comes with the products.

| Body material | | MYU (| CUPLA | Little CUPLA | | |
|------------------------------|-----|------------------------------|---------------------|------------------------------|----------------------|--|
| | | Stainless steel, Br | ass (Nickel plated) | Stainless steel | | |
| Size (Thread) | | Please ched | | ck with us. | | |
| | MPa | 1. | .0 | 1 | .5 | |
| Working pressure kgf/cm² bar | | 1 | 0 | 15 | | |
| | | 1 | 0 | 15 | | |
| PSI | | 145 | | 218 | | |
| | | Seal material | Mark | Working temperature range | Remarks | |
| Seal material | | Nitrile rubber | NBR (SG) | -20°C to +80°C | | |
| Working temperature range | | Ethylene-propylene rubber | EPDM (EPT) | -40°C to +150°C | Available on request | |
| | | Fluoro rubber | FKM (X-100) | -20°C to +180°C | 1 | |

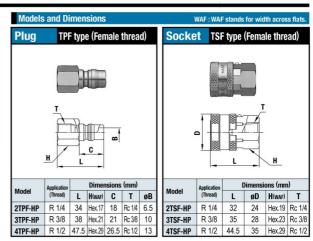


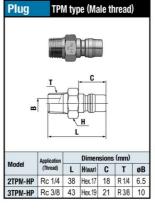


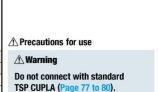
- \bullet Good for high pressure water piping such as in high pressure washers, or car washers.
- Valveless type ensures high flow rate.



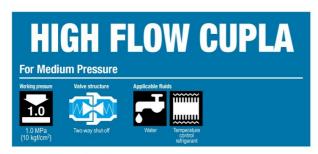
| Specifications | | | | | |
|----------------------------|---|------------|-----------------|----------------------|--|
| Body material | Stainless steel | | | | |
| Size (Thread) | 1/4", 3/8", 1/2" | | | | |
| Pressure unit | MPa kgf/cm² bar PSI | | | | |
| Working pressure | 9.0 | 92 | 90 | 1310 | |
| Seal material | Seal material Mark Working temperature range Rema | | | | |
| Working temperature range | Nitrile rubber | NBR (SG) | -20°C to +80°C | Available on request | |
| Troining tomporatare range | Ethylene-propylene rubber | EPDM (EPT) | -40°C to +150°C | Available on request | |





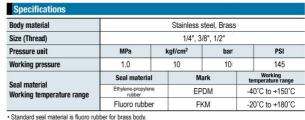




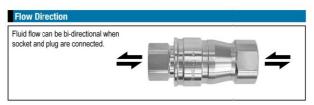


Drastically increases flow volume while minimizing pressure drop.

- Both socket and plug have built-in automatic shut-off valves.
- High flow rate type to increase cooling effect.
- Quick connection and disconnection of cooling pipes.
- . Compact and space-saving design. Compared with the coupled length of SP CUPLA type A, that of HIGH FLOW CUPLA is reduced by 22%.
- Installation and maintenance can be done within a short time.



| Maxim | Maximum Tightening Torque | | | | |
|--------|---------------------------|-----------------|-----------------|-----------------|--|
| Model | | HFL-2P / HFL-2S | HFL-3P / HFL-3S | HFL-4P / HFL-4S | |
| Torque | Stainless steel | 14 {143} | 22 {224} | 60 {612} | |
| Torque | Brass | 9 {92} | 12 {122} | 30 {306} | |

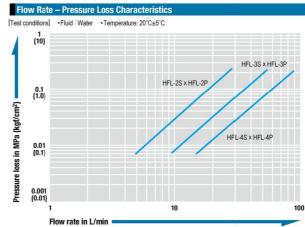


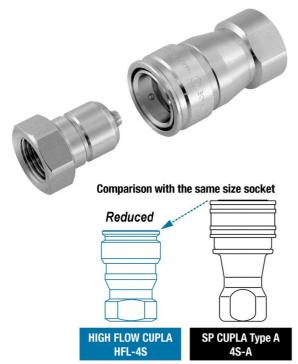
Interchangeability

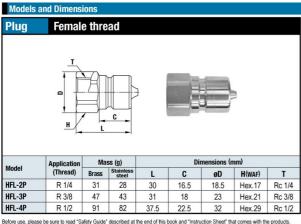
Socket and plug of different sizes cannot be connected.

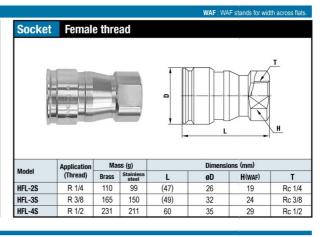
| Minimum Cross-Sectional Area (mm²) | | | | | |
|------------------------------------|----|----|----|--|--|
| Model | | | | | |
| Minimum Cross-Sectional Area | 32 | 53 | 91 | | |

| Suitability for Vacuum | 1.3 | 3 × 10 ⁻¹ Pa {1 × 10 ⁻³ mmHg} |
|------------------------|-----------|---|
| Socket only | Plug only | When connected |
| _ | _ | Operational |

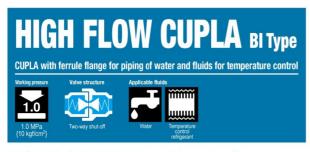












HIGH FLOW CUPLA and ferrule flange are combined to achieve efficient piping.

- Easy connection with stainless steel pipe.
- Connection to plastic hose is possible with optional hose connection kit.
- Connection to various tubes is also possible via the use of appropriate optional inserts.



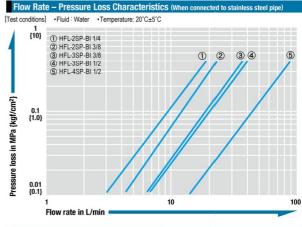
| Specifications | | | | | |
|---------------------------|--|---|-----------------|--------------------|--|
| Body material | | Stainle | ess steel | | |
| Applicable pipe size | 1/4", 3/8", | 1/4", 3/8", 1/2" (See the below list for hose and tube size.) | | | |
| Pressure unit | MPa kgf/cm² bar PSI | | | | |
| Working pressure | 1.0 | 10 | 10 | 145 | |
| Seal material | Seal material Mark Working temperature range R | | | | |
| Working temperature range | Ethylene-propylene rubber | EPDM | -40°C to +150°C | Standard material | |
| | Fluoro rubber | FKM | -20°C to +180°C | Made-to-order item | |

Fluid flow can be bi-directional when socket and plug are connected.

Interchangeability

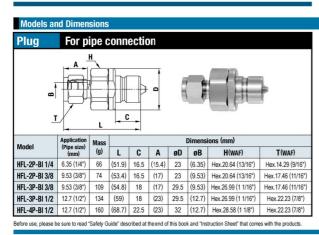
Socket and plug of different sizes cannot be connected

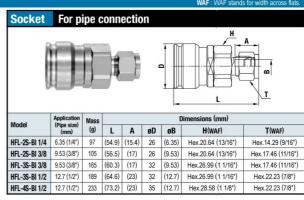
| Suitability for Vacuum 1.3 × 10 ⁻¹ Pa {1 × 10 ⁻³ mi | | |
|---|-----------|----------------|
| Socket only | Plug only | When connected |
| _ | - | Operational |



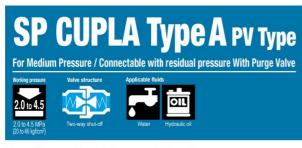
| | Stainless steel pipe | Hose connecti | on nut (Optional) | | Tube | connection | insert (Opti | ional) | |
|----------------|------------------------|---------------|---------------------------|-------------------|---------------------------------|------------|--------------|--------------------|--------|
| Model | | | | PA PA | W | 8 | | | |
| | Pipe dia. Inch (mm) | Model | Hose size (ID x OD) mm | Type of insert | Tube dimensions (ID x OD) mm | E (mm) | Insert dir | mensions A (mm) | D (mm) |
| | | - | - | DTI 4-2 | ø3.18 x ø6.35 | 2.3 | 11.9 | 6.35 | 3.18 |
| UEL 000 DI 4/4 | 4/4 (0.05) | - | - | DTI 4-2.5 | ø3.97 x ø6.35 | 2.7 | 11.9 | 6.35 | 3.97 |
| HFL-2SP-BI 1/4 | 1/4 (ø6.35) | - | - | DTI 4-2.75 | ø4.32 x ø6.35 | 2.7 | 11.9 | 6.35 | 4.32 |
| | | - | - | DTI 4-3 | ø4.76 x ø6.35 | 3.5 | 11.9 | 6.35 | 4.76 |
| HFL-2SP-BI 3/8 | 3/8 (ø9.53) | - | - | DTI 6-3 | ø4.76 x ø9.53 | 3.0 | 14.3 | 9.53 | 4.76 |
| HFL-25P-BI 3/8 | 3/8 (Ø9.53) | - | - | DTI 6-4 | ø6.35 x ø9.53 | 4.8 | 14.3 | 9.53 | 6.35 |
| HFL-3SP-BI 3/8 | 3/8 (ø9.53) | - | - | DTI 6-3 | ø4.76 x ø9.53 | 3.0 | 14.3 | 9.53 | 4.76 |
| nrL-35r-bi 3/6 | 3/0 (Ø9.53) | - | - | DTI 6-4 | ø6.35 x ø9.53 | 4.8 | 14.3 | 9.53 | 6.35 |
| HFL-3SP-BI 1/2 | 1/2 (ø12.7) | E1-6 x 11 | ø6 x ø11 | DTI 8-4 | ø6.35 x ø12.7 | 4.8 | 19.1 | 12.7 | 6.35 |
| nrt-sar-Bi 1/2 | 1/2 (012.7) | E1-8 x 13.5 | ø8 x ø13.5 | DTI 8-6 | ø9.53 x ø12.7 | 7.9 | 19.1 | 12.7 | 9.53 |
| HFL-4SP-BI 1/2 | 1/2 (ø12.7) | E1-6 x 11 | ø6 x ø11 | DTI 8-4 | ø6.35 x ø12.7 | 4.8 | 19.1 | 12.7 | 6.35 |
| nrL-45r-bi 1/2 | 1/2 (012.7) | E1-8 x 13.5 | ø8 x ø13.5 | DTI 8-6 | ø9.53 x ø12.7 | 7.9 | 19.1 | 12.7 | 9.53 |

Note: The material of tube to be applied must be any of nylon, polyester, polypropylene, or Teflon. The nut, for stainless steel pipe comes with standard HIGH FLOW CUPLA. When a hose or tube is connected to the CUPLA, an optional hose connection nut or tube connection insert is required.









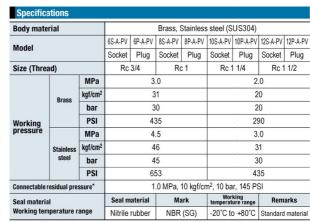
Equipped with residual pressure eliminating valve (up to 1 MPa).

- Automatic shut-off valves in both socket and plug prevent fluid spill out on disconnection.
- Smooth connection even when there is residual pressure when connecting.
- No residual pressure eliminating operation required on your piping.
 Just connect to purge the remaining pressure.



| Suitability for Vacuum | 1.3 | x 10 ⁻¹ Pa {1 x 10 ⁻³ mmHg} | | | | |
|---|-----------|---|--|--|--|--|
| Socket only | Plug only | When connected | | | | |
| - | - | Operational | | | | |
| Admixture of Air on Connection May vary depending upon the usage conditions. (mL) | | | | | | |

| Admixture of Air on Connection May vary depending upon the usage conditions. (mL) | | | | | | | | | | |
|---|----------------------|----------------------|----------------------|----------------------|------------------------|------------------------|------------------------|------------------------|--|--|
| Model | 6S-A-PV X 6P-A | 6P-A-PV X 6S-A | 8S-A-PV X 8P-A | 8P-A-PV X 8S-A | 10S-A-PV X 10P-A | 10P-A-PV X 10S-A | 12S-A-PV X 12P-A | 12P-A-PV X 12S-A | | |
| Volume of air | 1 | 1 | 1 | 7 | 2 | 9 | 4 | 5 | | |



The allowable residual pressure that can be connected when the fluid is limited to liquid.

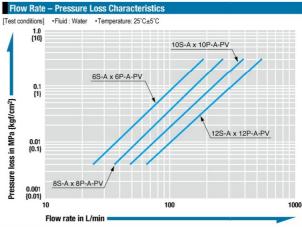
| Maximum Tightening Torque Nm {kgf ∙c | | | | | | | |
|--------------------------------------|-----------------|----------|------------|------------|------------|--|--|
| Size (Thread | 1) | Rc 3/4 | Rc 1 | Rc 1 1/4 | Rc 1 1/2 | | |
| Torque | Brass | 50 (510) | 65 {663} | 150 {1530} | 180 (1836) | | |
| Torque | Stainless steel | 90 (918) | 120 {1224} | 260 {2652} | 280 {2856} | | |



Interchangeabilit

Socket and plug of different sizes cannot be connected. Can be connected with SP CUPLA Type A AND SP-V CUPLA of the same size. Refrain from connecting SP CUPLA Type A PV together, since the residual pressure will not release.

| Minimum Cross-Sectional Area | | | | | | | | | | |
|------------------------------|-----------------|----------------------|----------------------|----------------------|------------------------|-------------------|------------------------|-------------------|--|--|
| Model | 6S-A-PV 6P-A | 6P-A-PV X 6S-A | 8S-A-PV X 8P-A | 8P-A-PV X 8S-A | 10S-A-PV X 10P-A | 10P-A-PV 10S-A | 12S-A-PV X 12P-A | 12P-A-PV 12S-A | | |
| Min. Cross-Sectional Area | 17 | 78 | 22 | 229 | | 395 | | 553 | | |



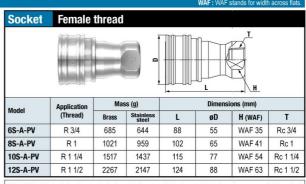
| Model | 6S-A-PV X 6P-A | 6P-A-PV X 6S-A | 8S-A-PV X 8P-A | 8P-A-PV X 8S-A | 10S-A-PV X 10P-A | 10P-A-PV X 10S-A | 12S-A-PV X 12P-A | 12P-A-PV X 12S-A |
|--------------------|----------------------|----------------------|----------------------|----------------------|------------------------|------------------------|------------------------|------------------------|
| Volume of spillage | 8 | .4 | 1 | 2 | 2 | 6 | 3 | 6 |
| | | | | | | | | |
| | | | | | | | | |
| Models and Di | mensions | s | | | | | | |
| | mensions | | | | | | | |

| H C | | | | | | | | | | | |
|----------|-------------|-------|--------------------|-----------------|----|-------------|----------|--|--|--|--|
| Model | Application | Mas | ss (g) | Dimensions (mm) | | | | | | | |
| Wodei | (Thread) | Brass | Stainless steel | L | C | H (WAF) | T | | | | |
| 6P-A-PV | R 3/4 | 204 | 189 | 52 | 36 | Hex.35 | Rc 3/4 | | | | |
| 8P-A-PV | R1 | 330 | 307 | 62 | 40 | Hex.41 | Rc 1 | | | | |
| 10P-A-PV | R 1 1/4 | 627 | 617 | 70 | 45 | Hex.54 (*1) | Rc 1 1/4 | | | | |
| 12P-A-PV | R 1 1/2 | 917 | 877 | 75 | 49 | Hex.63 (*2) | Rc 1 1/2 | | | | |

(*1) Stainless steel: WAF 54 x ø59 (*2) Stainless steel: WAF 63 x ø68

Before use, please be sure to read "Safety Guide" described at the end of this book and "Instruction Sheet" that comes with the products



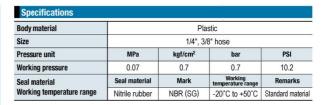


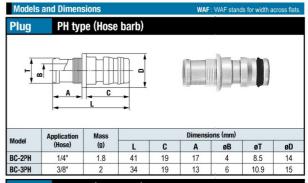
Safety Suide: This product can be connected under residual pressure, but do not connect under dynamic pressure applied. It may lead on incomplete connection, deleriorated unballiby or possible valve by out, feed without fall and observe the "instruction sheet" that comes with the product and the following pages in the general Quick Connect Coupling Catalog; [Procautions Relating to the Use of All UPLA | and "CUFA for Low Pressure (Videra Liquid) and for Medium Pressure in the [Safety] Guide] page.

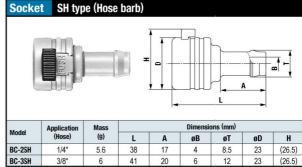
PLASTIC CUPLA BC Type Valveless For low pressure air piping

- To connect, just push the plug into the socket.
- · Plastic makes this ideal for use in environment prone to rusting.
- · Compact and light weight for easy handling.
- Valveless construction gives more stable flow.









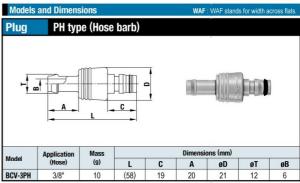


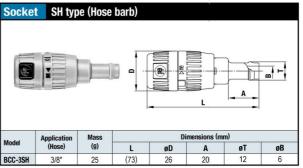


- To connect, just push the plug into the socket.
- Plug with built-in automatic shut-off valve. . Socket with handy flow controller.
- · Plastic makes this ideal for use in environments prone to rusting.
- . Compact and light weight for excellent handling.



| Specifications | | | | | | | | | |
|---------------------------|----------------|-----------|---------------------------|-------------------|--|--|--|--|--|
| Body material | | Plastic | | | | | | | |
| Size | | 3/8" hose | | | | | | | |
| Pressure unit | MPa | kgf/cm² | bar | PSI | | | | | |
| Working pressure | 0.07 | 0.7 | 0.7 | 10.2 | | | | | |
| Seal material | Seal material | Mark | Working temperature range | Remarks | | | | | |
| Working temperature range | Nitrile rubber | NBR (SG) | -20°C to +50°C | Standard material | | | | | |





CONNECT CUPLA NІТТО КОНКІ СО., LTD. 148

Accessories for CUPLA

Quick Connect Couplings CUPLA

MOLD DUST CA



Dust caps for HI CUPLA, SP CUPLA Type A, TSP CUPLA, and HYDRAULIC CUPLA

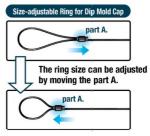
• PVC Dust Caps produced by dip molding are available for HI CUPLA, SP CUPLA Type A, TSP CUPLA, and HYDRAULIC CUPLA. Dust Caps prevent dust from getting inside the fluid line and protects the sealability and life of the O-ring.

Caution: The function of the cap may be damaged due to fluid adhering to the CUPLA or due to the external environment. Wipe off the fluid from the CUPLA to prevent the fluid from adhering.

| | Part number | Cap for HI CUPLA | Sales unit | | Part number | Cap for SP CUPLA Type A | Sales unit | | Part number | Cap for TSP CUPLA | Sales unit | | Part number | Cap for HSP CUPLA | Sales |
|----------|------------------------|---------------------------------|---------------|--------|-------------|-------------------------|---------------|--------|-------------|-----------------------|---------------|---------|---------------------|-------------------------|-----------|
| | | For 20 type | 1 | | CA96462 | For 1S-A | 1 | | CA96542 | For 1TS | 1 | | CA96463 | For 2HS | 1 |
| | CA96462 | For 30 type | 1 | | CA96463 | For 2S-A | 1 | | CA96462 | For 2TS | 1 | | CA96476 | For 3HS | 1 |
| | | For 40 type | 1 | | CA96464 | For 3S-A | 1 | | CA96463 | For 3TS | 1 | | CA96477 | For 4HS | 1 |
| Socket | | For 400 type | 1 | | CA96465 | For 4S-A | 1 | | CA96464 | For 4TS | 1 | | CA96477 | For 6HS | 1 |
| | CA96464 | For 600 type | 1 | Socket | CA96466 | For 6S-A | 1 | Socket | CA96465 | For 6TS | 1 | Socket | CA96478 | For 66HS | 1 |
| | | For 800 type | 1 | | CA96467 | For 8S-A | 1 | | CA96479 | For 8TS | 1 | | CA96479 | For 8HS | 1 |
| | | For 20 type | 1 | | CA96468 | For 10S-A | 1 | | CA96553 | For 10TS | 1 | | CA96481 | For 10HS | 1 |
| | CA96453 | For 30 type | 1 | | CA96449 | For 12S-A | 1 | | CA96555 | For 12TS | 1 | | CA96481 | For 12HS | 1 |
| | | For 40 type | 1 | | CA96470 | For 16S-A | 1 | | CA96557 | For 16TS | 1 | | CA96482 | For 16HS | 1 |
| Plug | | For 400 type | 1 | | CA96453 | For 1P-A | 1 | | CA96541 | For 1TP | 1 | | CA96454 | For 2HP | 1 |
| | CA96455 | For 600 type | 1 | | CA96454 | For 2P-A | 1 | | CA96453 | For 2TP | 1 | | CA96455 | For 3HP | 1 |
| | | For 800 type | 1 | | CA96455 | For 3P-A | 1 | | CA96454 | For 3TP | 1 | | CA96456 | For 4HP | 1 |
| | | | | | CA96456 | For 4P-A | 1 | | CA96455 | For 4TP | 1 | | CA96456 | For 6HP | 1 |
| | Part number | Cap for 700R CUPLA | Sales unit | Plug | CA96457 | For 6P-A | 1 | Plug | CA96456 | For 6TP | 1 | Plug | CA96471 | For 66HP | 1 |
| Socket | CB00614 | For 700R-3S | 1 | | CA96458 | For 8P-A | 1 | | CA96551 | For 8TP | 1 | | CA96472 | For 8HP | 1 |
| Socket - | CA82644 | For 700R-4S | 1 | | CA96459 | For 10P-A | 1 | | CA96552 | For 10TP | 1 | | CA96473 | For 10HP | 1 |
| | CA83164 | For 700R-3P | 1 | | CA96460 | For 12P-A | 1 | | CA96459 | For 12TP | 1 | | CA96473 | For 12HP | 1 |
| Plug | CA82643 | For 700R-4P | 1 | | CA96461 | For 16P-A | 1 | | CA96556 | For 16TP | 1 | | CA96475 | For 16HP | 1 |
| | Part number | Cap for 210 CUPLA | Sales unit | | Part number | Cap for 280 CUPLA | Sales unit | | Part number | Cap for F35/350 CUPLA | Sales unit | | Part number | Cap for ZEROSPILL CUPLA | Sales |
| | CA96463 | For 210-2S | unit 1 | | CB17082 | For 280-2S | 1 | | CB28313 | For F35-2S | 1 | | CA96463 | For ZEL-2S | unit 1 |
| ŀ | CA96476 | For 210-3S | 1 | 13 | CA96476 | For 280-3S | 1 | | CA81551 | For F35/350-3S | 1 | 1 | CA96464 | For ZEL-3S | 1 |
| Socket | CA81555 | For 210-4S | 1 | Socket | CA81555 | For 280-4S | 1 | Socket | CA81555 | For F35/350-4S | 1 | Socket | CB28786 | For ZEL-4S | 1 |
| | CA96478 | For 210-6S | 1 | | CA96478 | For 280-6S | 1 | | CA97213 | For F35/350-6S | 1 | | CA96466 | For ZEL-6S | 1 |
| - | CA96466 | For 210-8S | 1 | >> | CA96466 | For 280-8S | 1 | | CA80401 | For F35/350-8S | 1 | } | CA96467 | For ZEL-8S | 1 |
| | CA96454 | For 210-2P | 1 | | CA96453 | For 280-2P | 1 | | CA96454 | For F35-2P | 1 | | CA96454 | For ZEL-2P | 1 |
| ŀ | CA96455 | For 210-3P | 1 | | CA96455 | For 280-3P | 1 | | CA81553 | For F35/350-3P | 1 | | CB28790 | For ZEL-3P | 1 |
| Plug | CA82643 | For 210-4P | 1 | Plug | CA82643 | For 280-4P | 1 | Plug | CA81557 | For F35/350-4P | 1 | Plug | CA96456 | For ZEL-4P | 1 |
| | CA96471 | For 210-6P | 1 | | CA96471 | For 280-6P | 1 | | CA97215 | For F35/350-6P | 1 | | CA96457 | For ZEL-6P | 1 |
| - | CA96551 | For 210-8P | 1 | | CA96551 | For 280-8P | 1 | | CA80402 | For F35/350-8P | 1 | | CA96472 | For ZEL-8P | 1 |
| | | | | | | | | | 000.02 | | | | | | |
| | | | Calar | | | | | | | | | | | | |
| | Part number CA96463 | Cap for HSU CUPLA For HSU-2S | Sales unit | | | | | | | | | Size-ad | justable Ring for l | Din Mold Can | |

| | Part number | Cap for HSU CUPLA | Sales |
|--------|-------------|-------------------|-----------|
| | CA96463 | For HSU-2S | 1 |
| | CA96464 | For HSU-3S | 1 |
| Socket | CA96465 | For HSU-4S | 1 |
| | CA96466 | For HSU-6S | 1 |
| | CA96467 | For HSU-8S | unit 1 |
| | CB60672 | For HSU-2P | 1 |
| | CB60673 | For HSU-3P | 1 |
| Plug | CB60674 | For HSU-4P | 1 |
| | CB60675 | For HSU-6P | 1 |
| | CB60676 | For HSU-8P | 1 |



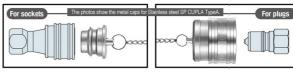


SAFETY CAP

Metal caps for HI CUPLA Series, SP CUPLA Type A, TSP CUPLA and HYDRAULIC CUPLA

(Semi-standard)

- Metal Cap equipped with dust-proof and leak prevention function.
- Caps with metal material corresponding to that of CUPLA body are available.



| Model | | Applicable CUPLA | Sales unit |
|---|--|--|------------|
| lodel name of Safety Cap is stated in the following manner. CUPLA Model (normal CUPLA) + SD (safety cap) | Example: "2S-A-SD" identifies a safety cap for SP CUPLA Type A Model 2S-A. | Sockets and plugs for HI CUPLA, SP CUPLA Type A, TSP CUPLA, HSP CUPLA, 210 CUPLA, S210 CUPLA, 350 CUPLA, 450B CUPLA and SP-V CUPLA | 1 pc. |

149 NITTO KOHKI CO., LTD. CUPLA CONNECT

When ordering, please indicate Model Name or part number. Semi standard items: As these items are not always in stock, delivery time is subject to confirmation.