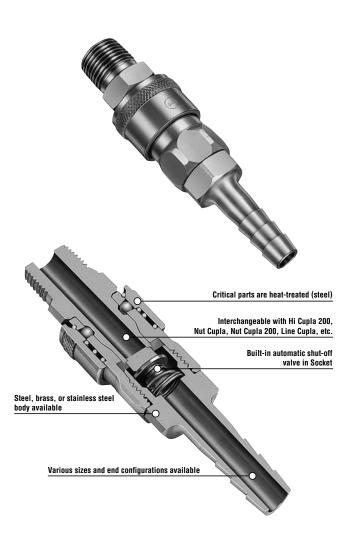


From factory air line to pneumatic tool connection, available in various body materials, sizes and end configurations. Excellent durability.

- An excellent general purpose coupling for connecting factory air supply to pneumatic tools.
- Steel coupling is suitable for air. Brass or stainless steel is suitable for water. Note that fluid will come out from the plug when disconnected.
- Critical structural parts of steel models are heat-treated for increased strength giving greater durability and resistance to wear.
- Available in various body materials, sizes and end configurations applicable to a wide range of applications.



| Specific | cations | | | | | | | | |
|--|-------------------------|----------------|-----------------------|-----------------------|------------------------------|-------|-------------------|-----------------|--|
| Body material | | | Steel (Chrome-plated) | | f) Brass | | S | Stainless steel | |
| Size | | 1/8" to 1" | | | | | | | |
| 3126 | Hose b | arb | 1/4" to 1" hose | | | | | | |
| | | 1.5 | | 1.0 | | 1.5 | | | |
| Working or | Working pressure kgf/cm | | 15 | | 10 | | 15 | | |
| Working pr | Coourc | bar | 15 | | 10 | | 15 | | |
| | | PSI | 218 | | 145 | | 218 | | |
| Seal material Working temperature range | | Seal material | | Mark | Working temperature range | | Remarks | | |
| | | Nitrile rubber | N | BR (SG) | -20°C to +80°C | | Standard material | | |
| | | Fluoro rubber | FKI | M (X-100) -20°C to +1 | | 180°C | Stanuaru matema | | |

| Max. Tightening Torque Nm {kgf•cm} | | | | | | | | | |
|------------------------------------|-----------------|--------|----------|----------|----------|------------|------------|--|--|
| Size (Thre | ad) | 1/8" | 1/4" | 3/8" | 1/2" | 3/4" | 1" | | |
| Torque | Steel | 7 {71} | 14 {143} | 22 {224} | 60 (612) | 100 (1020) | 120 {1224} | | |
| | Brass | 5 {51} | 9 {92} | 11 {112} | 30 {306} | 50 (510) | 65 {663} | | |
| | Stainless steel | _ | 14 {143} | 22 {224} | 60 (612) | 100 (1020) | 120 {1224} | | |

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

Interchangeability

- Sockets and plugs for Models 10, 17, 20, 30, and 40 can be connected with each other regardless of end configurations.
- Sockets and plugs for Models 400, 600, and 800 can be connected with each other regardless of end configurations. and can not be connected across each group.
- Interchangeable with all other Hi Cupla Series products. Please see the page for "Hi Cupla Series Interchangeability."

Min. Cross-Sectional Area (mm²) 10, 17, 20, 30, 40 type Plug 17PH 20PH 30PH 40PH 10PM 20PM 30PM 40PM 20PF 30PF 40PF Socket 10SM 17SH 20SH 20SM, SF 30SH 30SM, SF 40SH

400, 600, 800 type 400PH 600PH 800PH 400PM 600PM 800PM 400PF 600PF 800PF Socket 400SH 400SM, SF 600SH 600SM, SF 800SH 800SM, SF

33 33

33 | 33

Suitability for Vacuum

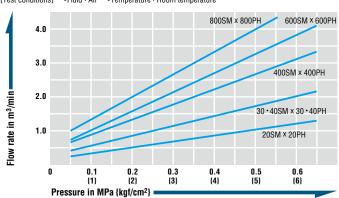
40SM, SF

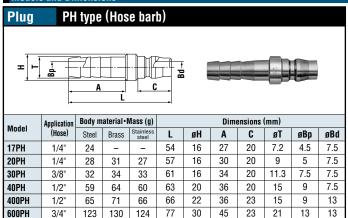
Not suitable for vacuum application in either connected or disconnected condition.

Pressure - Flow Characteristics

[Test conditions] •Fluid : Air •Temperature : Room temperature

33 | 13





85 34

54 23 27

20

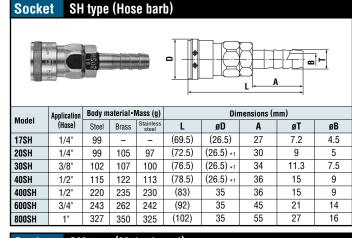
13

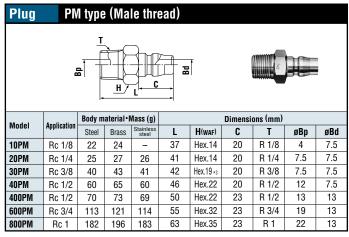
800PH

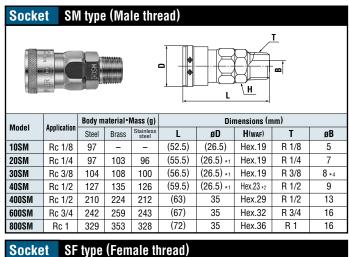
151

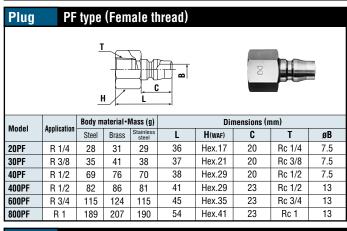
161 151

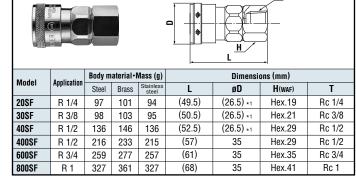
1"

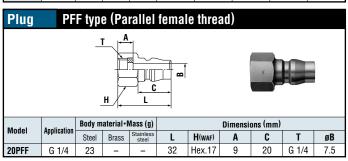












- Above pictures are plugs and sockets of steel 20, 30 and 40 models. *1:D = 25.4 for brass and stainless steel models.
- *1 : D = 25.4 for brass and stainless steel models.
 *2 : H = Hex. 22 for brass and stainless steel models.
- *3 : H = Hex. 17 for brass and stainless steel models.
- *4 : B = 9 for brass and stainless steel models.





For Low Pressure Hi Cupla BL Universal purpose couplings with sleeve lock mechanism for air lines Working pressure Valve structure Applicable fluids (Steel applies to air only)

Sleeve-lock mechanism is engaged by rotating the sleeve after connection.

- Sleeve-lock mechanism prevents accidental disconnection.
- An excellent general purpose coupling for connecting factory air supply to pneumatic tools.
- Steel coupling is suitable for air. Stainless steel is suitable for water.
 Note that fluid will come out from the plug when disconnected.
- Critical structural parts made of steel are heat-treated for increased strength giving greater durability and resistance to wear.
- Various body materials, sizes, and end configurations are available.
- SN-BL type for connection to urethane hose requires no hose clamp.



| Specifications | | | | | | | | | |
|--|---------|---------------------|---------------|------------------------------|------------------|--|--|--|--|
| Body material | | Steel (Chro | ome-plated) | Stainless steel | | | | | |
| Thread and hose barb | | | | 1/4", 3/8", 1/2" | | | | | |
| Size | | | For ø6.5 x ø | 10 mm hose | - | | | | |
| OIZO | SN Tyj | pe | For ø8 x ø1 | 12 mm hose | | | | | |
| | | | For ø8.5 x ø1 | 12.5 mm hose | | | | | |
| | | MPa | 1.5 | | | | | | |
| Working p | ressure | kgf/cm ² | 15 | | | | | | |
| tronking p | bar | | 15 | | | | | | |
| PSI | | | 218 | | | | | | |
| Seal material Working temperature range | | Seal material | Mark | Working temperature range | Remarks | | | | |
| | | Nitrile rubber | NBR (SG) | -20°C to +80°C | Standard materia | | | | |

Note: Working temperature range of SN-BL type is -20° C $- +60^{\circ}$ C.

| Max. Tightening Torque Nm {kgf•cn | | | | | | | | |
|-----------------------------------|-----------------|----------|----------|----------|--|--|--|--|
| Size (Thread) | | 1/4" | 3/8" | 1/2" | | | | |
| Torque | Steel | 14 {143} | 22 {224} | 60 {612} | | | | |
| | Stainless steel | 14 {143} | 22 {224} | 60 {612} | | | | |

| Tightening Torque Range | Nm {kgf•cm} |
|-------------------------|-------------|
| SN Type | |
| 9 to 11 {92 to 112} | |

| Flow Direction |
|-------------------------------------|
| Fluid must run from socket to plug. |
| |

Interchangeability

- Sockets and plugs for Models 10, 17, 20, 30, and 40 can be connected with each other regardless of end configurations.
- Interchangeable with all other Hi Cupla Series products. Please see the page for "Hi Cupla Series Interchangeability."

| Min. Cross-Sectional Area (mm²) | | | | | | | | | | | |
|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|
| Socket Plug | 17PH | 20PH | 30PH | 40PH | 10PM | 20PM | 30PM | 40PM | 20PF | 30PF | 40PF |
| 20SH-BL | 16 | 20 | 20 | 20 | 13 | 20 | 20 | 20 | 20 | 20 | 20 |
| 20SM-BL | 16 | 20 | 33 | 33 | 13 | 33 | 33 | 33 | 33 | 33 | 33 |
| 20SF-BL | 16 | 20 | 33 | 33 | 13 | 33 | 33 | 33 | 33 | 33 | 33 |
| 30SH-BL | 16 | 20 | 33 | 33 | 13 | 33 | 33 | 33 | 33 | 33 | 33 |
| 30SM-BL | 16 | 20 | 33 | 33 | 13 | 33 | 33 | 33 | 33 | 33 | 33 |
| 30SF-BL | 16 | 20 | 33 | 33 | 13 | 33 | 33 | 33 | 33 | 33 | 33 |
| 40SH-BL | 16 | 20 | 33 | 33 | 13 | 33 | 33 | 33 | 33 | 33 | 33 |
| 40SM-BL | 16 | 20 | 33 | 33 | 13 | 33 | 33 | 33 | 33 | 33 | 33 |
| 40SF-BL | 16 | 20 | 33 | 33 | 13 | 33 | 33 | 33 | 33 | 33 | 33 |
| 65SN-BL | 16 | 20 | 22 | 22 | 13 | 22 | 22 | 22 | 22 | 22 | 22 |
| 80SN-BL | 16 | 20 | 33 | 33 | 13 | 33 | 33 | 33 | 33 | 33 | 33 |
| 85SN-BL | 16 | 20 | 33 | 33 | 13 | 33 | 33 | 33 | 33 | 33 | 33 |

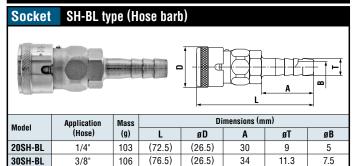
Suitability for Vacuun

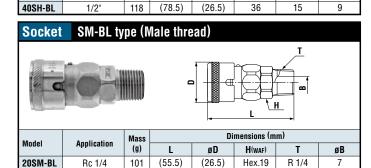
Not suitable for vacuum application in either connected or disconnected condition.

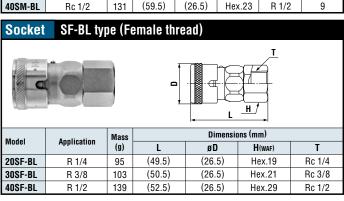
Pressure - Flow Characteristics [Test conditions] • Fluid : Air • Temperature : Room temperature 3.0 2.5 2.0 30SM-BL × 30PH 40SM-BL × 40PH 1.5 1.0 0.5 0.1 0.2 0.3 0.4 0.5 0.6 (11) 12) 13) 144 155 160

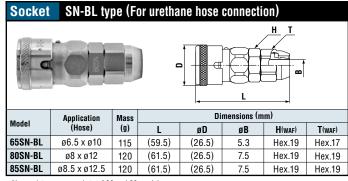
Pressure in MPa {kgf/cm²}

Steel









[·] Above pictures are sockets of 30 and 80 models

30SM-BL

Rc 3/8

Rc 1/2

108

131

(56.5)

(59.5)

(26.5)

(26.5)

Hex.19

Hex.23

R 3/8

R 1/2

8

9

