



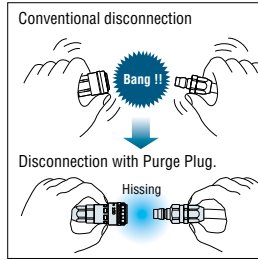
For Low Pressure (Air)

# Purge Plug

For air lines with purge mechanism

|  |   |  |
|--|---|--|
| Working pressure<br><b>1.0</b><br>1.0 MPa<br>(10 kgf/cm <sup>2</sup> ) | Valve structure<br><br>Purge valve | Applicable fluid<br><br>Air |
|--|---|--|

**Eliminates unpleasant popping noise and hose whip motion when Cupla is disconnected.**



- When the Cupla is disconnected, the pressure left in the plug side hose is released gradually without unpleasant popping noise and hose whip motion.
- Unique design of air purge system enables the residual pressure release quickly and quietly.
- A unique but simple purge valve design is good for long and repeated use.
- The function is assured even under a high supply pressure or with a long hose.

Note: This product is not a check valve to totally stop the air flow.



## Specifications

|                           |  |                     |                           |                   |
|---------------------------|--|---------------------|---------------------------|-------------------|
| Body material             | Steel (Chrome plated)                            |                     |                           |                   |
| Size                      | 1/4", 3/8", 1/2" / ø6.5 x ø10, ø8.5 x ø12.5 hose |                     |                           |                   |
| Pressure unit             | MPa  | kgf/cm <sup>2</sup> | bar                       | PSI               |
| Working pressure          | 1.0  | 10                  | 10                        | 145               |
| Seal material             | Seal material                                    | Mark                | Working temperature range | Remarks           |
| Working temperature range | Nitrile rubber                                   | NBR (SG)            | -20°C to +60°C            | Standard material |

## Tightening Torque Range

Nm (kgf·cm)

|        |                     |
|--------|---------------------|
| Torque | 9 to 11 (92 to 112) |
|--------|---------------------|

To mount on urethane hose, slide it over to the hose barb and tighten the nut until it is flush against the hose barb base. It is recommended that grease is applied to the inside of the nut (threaded part and hose contact part) for easy tightening.

## Flow Direction

Fluid must run from socket to plug.



## Interchangeability

Can be connected with sockets for Hi Cupla Models 10, 17, 20, 30 and 40. Interchangeable with each corresponding models of Hi Cupla Series and Nut Cupla Series.

## Min. Cross-Sectional Area

(mm<sup>2</sup>)

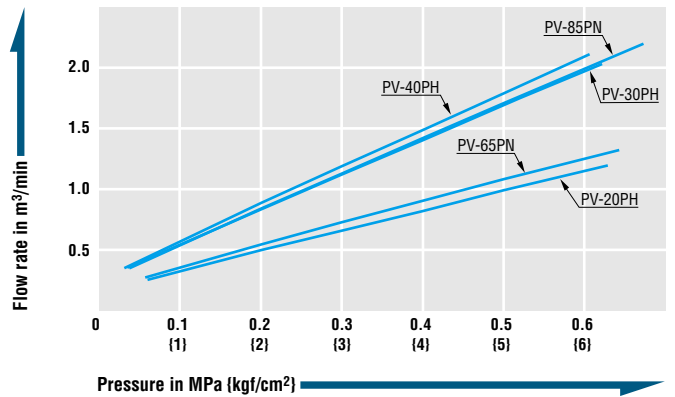
|                           |         |         |         |         |         |
|---------------------------|---------|---------|---------|---------|---------|
| Model                     | PV-20PH | PV-30PH | PV-40PH | PV-65PN | PV-85PN |
| Min. cross-sectional area | 19.6    | 44.1    | 50.4    | 22.0    | 44.1    |

## Suitability for Vacuum

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

## Pressure - Flow Characteristics

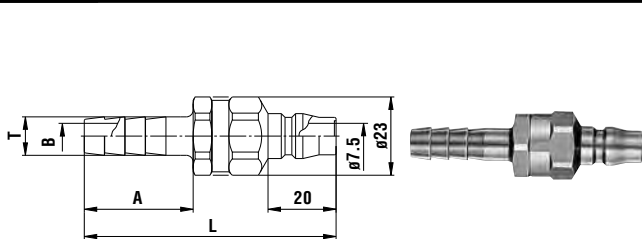
[Test conditions] • Fluid : Air • Temperature : Room temperature



## Models and Dimensions

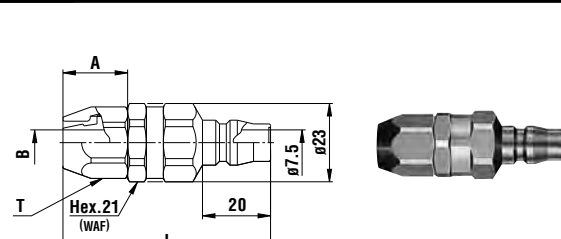
WAF : WAF stands for width across flats.

### Plug PH type (Hose barb)



| Model   | Application (Hose) | Mass (g) | Dimensions (mm) |    |     |      |
|---------|--------------------|----------|-----------------|----|-----|------|
|         |                    |          | L               | A  | øB  | øT   |
| PV-20PH | 1/4"               | 59       | (70)            | 28 | 5   | 8.4  |
| PV-30PH | 3/8"               | 62       | (74)            | 32 | 7.5 | 11.3 |
| PV-40PH | 1/2"               | 76       | (77)            | 35 | 9   | 14.8 |

### Plug PN type (For urethane hose connection)



| Model   | Application (Hose) | Mass (g) | Dimensions (mm) |    |     |        |
|---------|--------------------|----------|-----------------|----|-----|--------|
|         |                    |          | L               | A  | øB  | T(WAF) |
| PV-65PN | ø6.5 mm x ø10 mm   | 71       | (59)            | 17 | 5.3 | Hex.17 |
| PV-85PN | ø8.5 mm x ø12.5 mm | 78       | (61)            | 19 | 7.5 | Hex.19 |