


**For Low Pressure (Air)**

# PURGE HI CUPLA


Air line coupling with residual pressure release function

Working pressure




1.0 MPa  
(10 kgf/cm<sup>2</sup>)

Valve structure



One-way shut-off

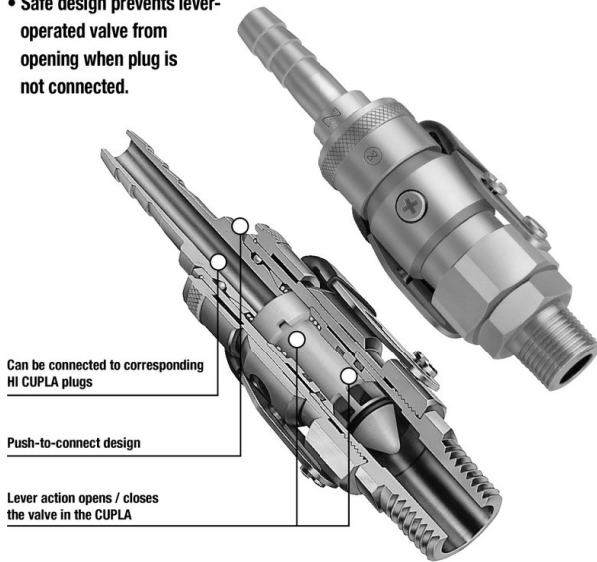
Applicable fluid



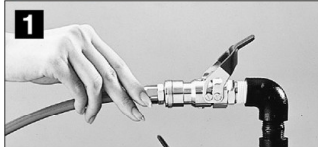
Air

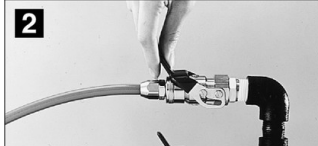
**Push-to-connect operation even with existing internal pressure! Eliminates unpleasant popping noise and hose whip motion on disconnection.**

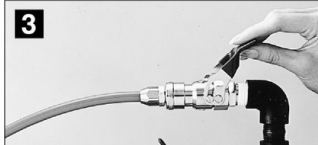
- Just push in the plug for connection regardless of internal pressure in socket.
- Even after connection, lever operation gives perfect control over valve opening/closing.
- In disconnection, lever action releases residual air pressure in the plug without unpleasant popping noise and hose whip motion.
- Safe design prevents lever-operated valve from opening when plug is not connected.



### How to Operate

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Just push the plug into socket.  
(In this stage the valve of the socket is not open.)
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Turning down the lever opens the valve and allows the fluid flow.  
(The turned-down lever works as a sleeve stopper and prevents disconnection.)
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When the lever is pulled up, residual air pressure in the plug is purged without unpleasant popping noise and hose whip motion on disconnection. In this stage, the socket valve is still closed.

### Specifications

Body material	Brass (Chrome plated)			
Size (Thread)	1/4", 3/8", 1/2", 3/4"			
Pressure unit	MPa	kgf/cm <sup>2</sup>	bar	PSI
Working pressure	1.0	10	10	145
Seal material	Nitrile rubber	NBR (SG)	-20°C to +60°C	Standard material

### Maximum Tightening Torque

Model	PV-20SM	PV-30SM	PV-40SM	PV-400SM	PV-600SM
Torque	9 {92}	11 {112}	30 {306}	30 {306}	50 {510}



### Interchangeability

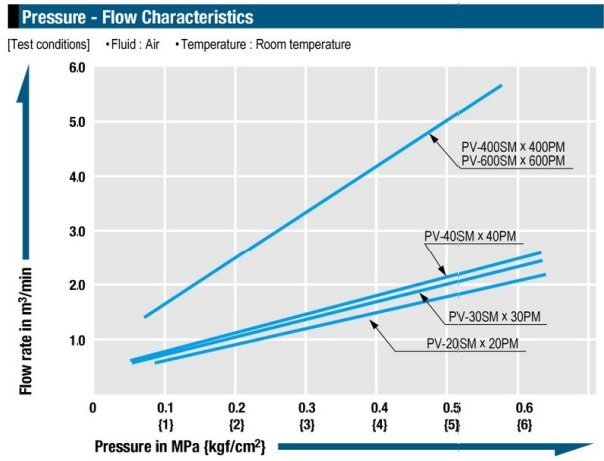
Models 20, 30 and 40 can be connected to plugs of HI CUPLA Models 10, 17, 20, 30 and 40. Interchangeable with each models of NUT CUPLA series and HI CUPLA series. Models 400 and 600 can be connected with plugs of HI CUPLA models 400, 600 and 800. Please see page 19 for "HI CUPLA Series Interchangeability".

### Minimum Cross-Sectional Area

Model	PV-20SM	PV-30SM	PV-40SM	PV-400SM	PV-600SM
Min. cross-sectional area	38	41	41	94	94

### Suitability for Vacuum

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



### Models and Dimensions

WAF : WAF stands for width across flats.

#### Socket

Model	Application (Thread)	Mass (g)	Dimensions (mm)							
			L	øD	E <sub>1</sub>	E <sub>2</sub>	H(WAF)	øC	T	øB
PV-20SM	Rc 1/4	225	(79)	26.5	(50.5)	(70)	Hex.22	29	R 1/4	7
PV-30SM	Rc 3/8	229	(80)	26.5	(50.5)	(70)	Hex.22	29	R 3/8	10
PV-40SM	Rc 1/2	235	(82)	26.5	(50.5)	(70)	Hex.22	29	R 1/2	14
PV-400SM	Rc 1/2	411	(94)	35	(61.5)	(82)	Hex.30	37.5	R 1/2	13
PV-600SM	Rc 3/4	424	(97)	35	(61.5)	(82)	Hex.30	37.5	R 3/4	18

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