

For Inert Gas and Vacuum

# PCV Pipe Cupla

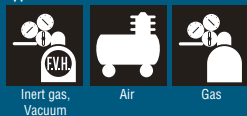
For connection to copper pipes

Working pressure

**4.5**  
4.5 MPa  
(46 kgf/cm<sup>2</sup>)

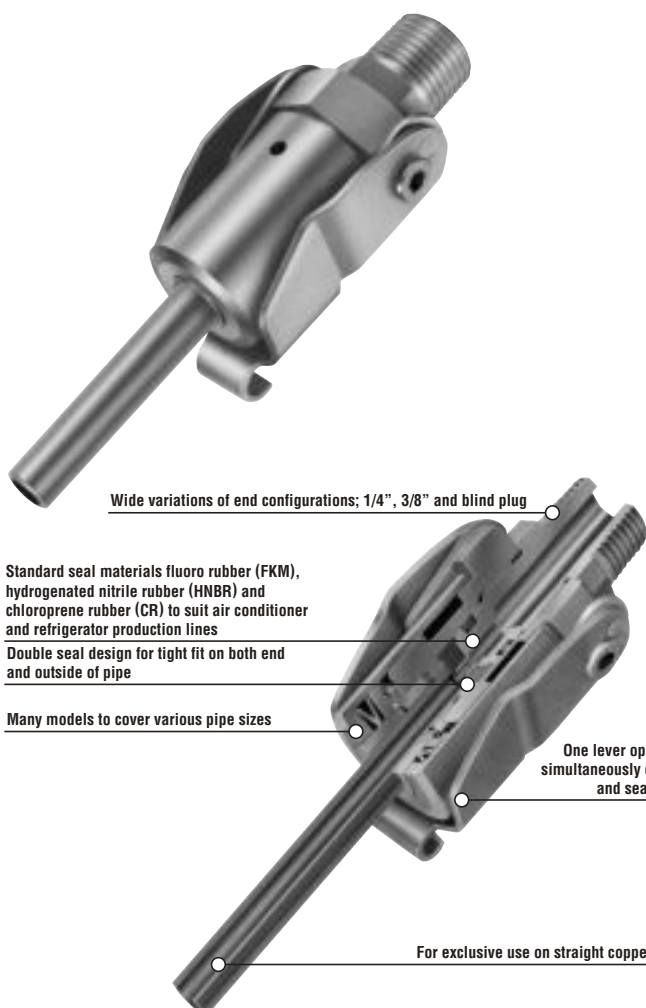
Valveless

Applicable fluids



**Clamps directly on straight copper pipes !**  
**Double seal construction withstands a vacuum of up to  $1.3 \times 10^{-1}$  Pa.**

- Clamps directly on to a straight copper pipe eliminating unnecessary welding or flaring.
- Withstands a vacuum of up to  $1.3 \times 10^{-1}$  Pa (when connected) making it possible to be used in leak testing, evacuation and refrigerant gas 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.



Wide variations of end configurations; 1/4", 3/8" and blind plug

Standard seal materials fluoro rubber (FKM), hydrogenated nitrile rubber (HNBR) and chloroprene rubber (CR) to suit air conditioner and refrigerator production lines

Double seal design for tight fit on both end and outside of pipe

Many models to cover various pipe sizes

One lever operation simultaneously clamps and seals pipe

For exclusive use on straight copper pipes

## Specifications

Model	PCV400	PCV470	PCV500	PCV600	PCV630	PCV800	PCV950	PCV1000	PCV1270	PCV1590
Copper pipe OD	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									
Working pressure	MPa	4.5								
	kgf/cm <sup>2</sup>	46								
	bar	45								
	PSI	653								
Seal material	Chloroprene rubber	CR (C308)	Working temperature range		Remarks					
Working temperature range	Fluoro rubber	FKM (X-100)	-20°C to +80°C		Standard material					
	Hydrogenated nitrile rubber	HNBR (H708)	-20°C to +120°C		Standard material					

\* Hydrogenated nitrile rubber (HNBR) is colored in blue for easy recognition.

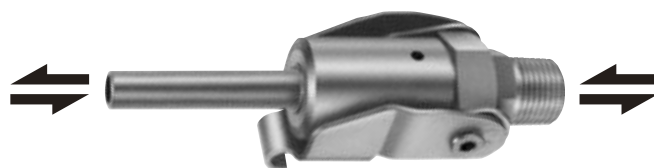
## Max. Tightening Torque

Nm (kgf·cm)

Size (Thread)	1/4"	3/8"
Torque	9 (92)	12 (122)

## Flow Direction

Fluid may flow in either direction from plug or from socket side when coupled.



## Min. Cross-Sectional Area

(mm<sup>2</sup>)

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

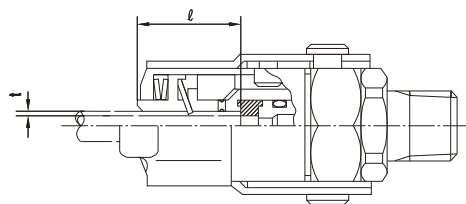
## Suitability for Vacuum

$1.3 \times 10^{-1}$  Pa {1 x 10<sup>-3</sup> mmHg}

Cupla only	When connected to a pipe
—	Operational

## Insert Length of Pipe into Cupla and Essential Thickness of Pipe Wall

(mm)



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

Model	Insert length of pipe into Cupla (l)	Essential thickness of pipe wall (t)
PCV400*	19	Minimum 0.8
PCV470		
PCV500*		
PCV600		
PCV630	20.5	Minimum 0.8
PCV800		
PCV950		
PCV1000*	30	Minimum 1.0
PCV1270		
PCV1590		