

For Inert Gas, Vacuum

PCV Pipe Coupla

For connection to copper pipes

Working pressure



4.5 MPa
(46 kgf/cm²)

Valveless

Applicable fluids



Inert gas,
vacuum

Air

gas



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

Standard seal materials are Fluoro rubber and H-NBR 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

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

- Clamps direct on to a straight copper pipe eliminating unnecessary welding or flaring.
- Withstands a vacuum of up to 1.3×10^{-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.

Specifications

Model	PCV400	PCV470	PCV500	PCV600	PCV630	PCV800	PCV950	PCV1000	PCV1270	PCV1590
Copper pipe O.D.	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 (kgf/cm ²)	4.5 (46)									
Pressure resistance MPa (kgf/cm ²)	5.0 (51)									
Seal material Working temperature range	Seal material	Mark		Working temperature range		Remarks				
	Chloroprene rubber	CR (C308)		-20°C~+80°C		Standard material				
	Fluoro rubber	FKM (X-100)		-20°C~+180°C		Standard material				
	Hydrogenated nitrile rubber	HNBR (H708)		-20°C~+80°C		Standard material				

Max. Tightening Torque

N·m (kgf·cm)

Size	1/4"	3/8"
Torque	9 (92)	12 (123)

Flow Direction

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



Min. Cross-Sectional Area

(mm²)

Model	PCV400	PCV470	PCV500	PCV600	PCV630	PCV800	PCV950	PCV1000	PCV1270	PCV1590
Min. Cross-Sectional Area	3.8	3.8	3.8	9.1	9.1	16.6	16.6	16.6	73.9	78.5

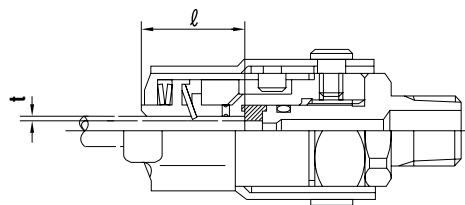
Suitability for Vacuum

1.3×10^{-1} Pa (1 x 10⁻³mmHg)

Only when connected to a pipe

Operational

Insert length of pipe into coupling and essential thickness of pipe wall (mm)



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

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