## For Inert Gas, Vacuum

# **PCV** Pipe Cupla

For connection to copper pipes

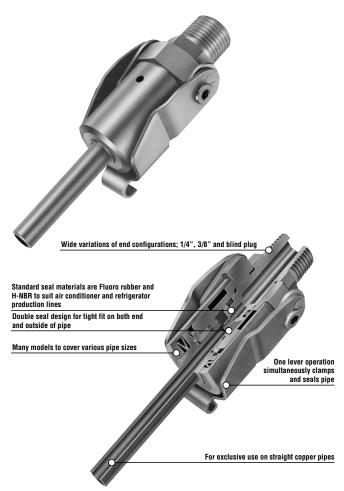












## **Clamps directly on straight copper** pipes! **Double seal construction withstands** a vacuum of up to 1.3 x 10<sup>-1</sup> Pa.

- · Clamps direct on to a straight copper pipe eliminating unnecessary welding or flaring.
- Withstands a vacuum of up to 1.3 x 10-1Pa (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
- 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/cm²}	4.5 {46}									
Pressure resistance MPa {kgf/cm²}		5.0 {51}								
	Seal	materia	ıl	Marl	(	Working temperature range			rks	
Seal material	Chloroprene rubber		ber	CR (C308)		-20°C~+80°C		°C St	Standard material	
Working temperature range	Fluoro rubber		er F	FKM (X-100)		-20°C~+180°C		°C St	Standard material	
	Hydrogenated nitrile rubber		Н	NBR (F	1708)	-20°C~+80°C		°C St	Standard material	

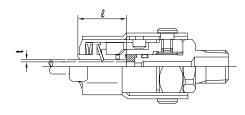
Max. Tightening	Torque	N•m {kgf•cm}
Size	1/4"	3/8"
Torque	9 {92}	12 {123}



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

<b>Suitability for Vacuum</b>	1.3 × 10 <sup>-1</sup> Pa {1 × 10 <sup>-3</sup> mmHg}
	Only when connected to a pipe
	Operational

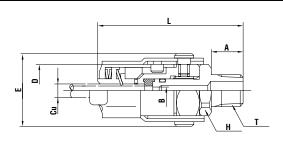
### Insert length of pipe into coupling and essential thickness of pipe wall (mm)



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

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



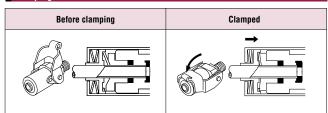


Model	Pine OD	Model	Size	Mass (g)	Dimensions (mm)					
	Pipe UD	Model			L	A	H(waf)	øΒ	øD	E
PCV400*	ø4.0	PCV400-2	R 1/4	155	(59)	12	Hex.17	2.2	22.2	(32.5)
	Ø4.0	PCV400-3	R 3/8	155	(60)	13	Hex.19			
PCV470	-4.70	PCV470-2	R 1/4	155	(60)	12	Hex.17	2.2	22.2	(32.5)
	ø4.76 (3/16")	PCV470-3	R 3/8	160	(61)	13	Hex.19			
	, , , , ,	PCV470-0	Blind plug	160	(47)	-	Hex.14	-		
PCV500*	ø5.0	PCV500-2	R 1/4	155	(59)	12	Hex.17	2.2	22.2	(32.5)
rcvouu	/CV300 Ø5.0	PCV500-3	R 3/8	155	(60)	13	Hex.19	2.2		
		PCV600-2	R 1/4	150	(60)	12	Hex.17	3.4		
PCV600 ø6.0	ø6.0	PCV600-3	R 3/8	155	(61)	13	Hex.19	3.4	22.2	(32.5)
		PCV600-0	Blind plug	155	(47)	-	Hex.14	-		
	0.05	PCV630-2	R 1/4	145	(60)	12	Hex.17	3.4	22.2	(32.5)
PCV630	ø6.35 (1/4")	PCV630-3	R 3/8	150	(61)	13	Hex.19			
	(1717)	PCV630-0	Blind plug	150	(49)	-	Hex.14			
	0.0	PCV800-2	R 1/4	175	(62)	12	Hex.17	4.6	24.8	(35.5)
PCV800	ø8.0 (5/16")	PCV800-3	R 3/8	180	(63)	13	Hex.19			
	(8,18)	PCV800-0	Blind plug	185	(50)	-	Hex.17	-		
	-0.50	PCV950-2	R 1/4	175	(62)	12	Hex.17	4.6	24.8	(35.5)
PCV950	ø9.52 (3/8")	PCV950-3	R 3/8	180	(63)	13	Hex.19	4.0		
	(5, 5 )	PCV950-0	Blind plug	180	(50)	-	Hex.17	-		
PCV1000* ø1	ø10.0	PCV1000-2	R 1/4	155	(62)	12	Hex.17	4.6	24.8	(35.5)
F GV 1000	910.0	PCV1000-3	R 3/8	155	(63)	13	Hex.19			
D01/4070	ø12.7	PCV1270-3	R 3/8	465	(81)	13	Hex.24	9.7	34.8	(45.0)
PCV1270	(1/2")	PCV1270-0	Blind plug	475	(68)	-	1163.24	_		
PCV1590	ø15.88	PCV1590-3	R 3/8	435	(81)	13	Hex.24	10.0	34.8	(45.0)
FGV 1090	(5/8")	PCV1590-0	Blind plug	445	(68)	-	⊓ex.∠4	-	34.8	

<sup>•</sup> For mass with a plug, add (brass body) 2P-V: 39g, 3P-V: 67g, (stainless steel body) 2P-V: 34g, or 3P-V: 59g \* Available on request

#### Clamping mechanism

**Models and Dimensions** 



When the lever is pushed down, the sleeve moves in the direction of the arrow, and at the same time actuates the Chucks to grip the copper pipe firmly and provide a tight seal.



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