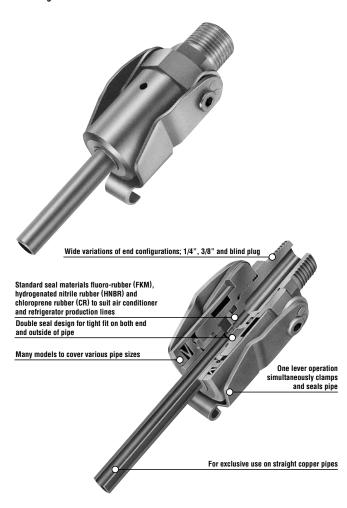


# Clamps directly on straight copper pipes!

# 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<sup>-1</sup>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 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 {kgf/cm²}	4.5 {46}									
Pressure resistance MPa {kgf/cm²}	5.0 {51}									
	Seal	materia	ıl	Mari	(	Working temperature range Remarks				
Seal material	Chlorop	rene rub	ber	CR (C308)		-20°C~+80°C		°C St	Standard material	
Working temperature range	Fluoro rubber  Hydrogenated nitrile rubber		er F	FKM (X-100)		-20°C~+180°C		°C St	Standard material	
			Н	NBR (F	1708)	-20°C~+120°C		°C St	Standard material	

Max. Tightening Torque N·m {kgf·c						
Size	1/4"	3/8"				
Torque	9 {92}	12 {122}				

### **Flow Direction**



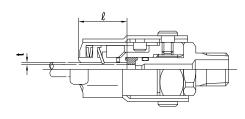
### Interchangeability

If the pipe size is the same, connection to the pipe is possible even if the end configurations are different.

Min. Cross-Sectional Area (mm²)								
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		

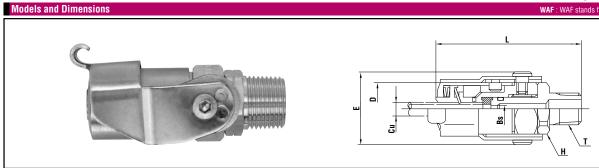
## Suitability for Vacuum 1.3 × 10<sup>-1</sup>Pa {1 × 10<sup>-3</sup>mmHg} Only when connected to a pipe Operational

### 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 ( $\ell$ )	Essential thickness of pipe wall ( t )				
PCV400*						
PCV470						
PCV500*	19					
PCV600		Minimum 0.8				
PCV630						
PCV800						
PCV950	20.5					
PCV1000*						
PCV1270	30	Minimum 1.0				
PCV1590	30					



Model	Di OD (O)	Model	Size (T)	Mass (g)		Dimensions (mm)				
model File OD (Cu)	Pipe OD (Cu)				L	H(WAF)	øBs	øD	E	
PCV400*	4.0	PCV400-2	R 1/4	155	(59)	Hex.17	0.0	22.2	(32.5)	
PG V400"	ø4.0	PCV400-3	R 3/8	155	(60)	Hex.19	2.2			
. = 0	PCV470-2	R 1/4	155	(60)	Hex.17	2.2				
PCV470	ø4.76 (3/16")	PCV470-3	R 3/8	160	(61)	Hex.19	2.2	22.2	(32.5)	
	(====,	PCV470-0	Blind plug	160	(47)	-	-	1		
PCV500*	ø5.0	PCV500-2	R 1/4	155	(59)	Hex.17	2.2	22.2	(32.5)	
ruvjuu	Ø5.0	PCV500-3	R 3/8	155	(60)	Hex.19		22.2		
		PCV600-2	R 1/4	150	(60)	Hex.17	3.4	22.2	(32.5)	
PCV600	ø6.0	PCV600-3	R 3/8	155	(61)	Hex.19				
		PCV600-0	Blind plug	155	(47)	-				
		PCV630-2	R 1/4	145	(60)	Hex.17	3.4	22.2	(32.5)	
PCV630	ø6.35 (1/4")	PCV630-3	R 3/8	150	(61)	Hex.19				
	(1/4/)	PCV630-0	Blind plug	150	(47)	_				
		PCV800-2	R 1/4	175	(62)	Hex.17	4.6	24.8	(35.5)	
PCV800	ø8.0 (5/16")	PCV800-3	R 3/8	180	(63)	Hex.19				
	(6/10/	PCV800-0	Blind plug	185	(50)	_				
	0.50	PCV950-2	R 1/4	175	(62)	Hex.17	4.6	24.8	(35.5)	
PCV950	ø9.52 (3/8")	PCV950-3	R 3/8	180	(63)	Hex.19	4.0			
	(6/6/	PCV950-0	Blind plug	180	(50)	-	-			
D01/4000+	a10.0	PCV1000-2	R 1/4	155	(62)	Hex.17	16	04.0	(05.5)	
PCV1000*	ø10.0	PCV1000-3	R 3/8	155	(63)	Hex.19	4.6	24.8	(35.5)	
	40.7	PCV1270-3	R 3/8	465	(81)	Hex.24	9.7 8.0			
PCV1270	<b>V1270</b> Ø12.7 (1/2")	PCV1270-2	R 1/4	470	(80)	Hex.24		34.8	(45.0)	
(1/2)	\"."	PCV1270-0	Blind plug	475	(68)	-	-			
	45.00	PCV1590-3	R 3/8	435	(81)	Hex.24	10.0			
PCV1590	ø15.88 (5/8")	PCV1590-2	R 1/4	424	(80)	Hex.24	8.0	34.8	(45.0)	
	(3/0 )	PCV1590-0	Blind plug	445	(68)	_	_	1		

<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**

Before clamping	Clamped

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.