

Heat, Cold Retention Pipe Covers



PVC Pipes, Fittings / PVC Pipes

-Overview-

CAD Data Folder Name: 51_Hollows_Fittings_Valves

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Heat, Cold Retention Pipe Covers -For Steel Pipes- **HKCVP**

Operation Temperature Range: -20~120°C **M** Material: Heat Resistant Polyethylene Foam

Part Number	Type	No.	L 1mm Increment	D	d	t	Unit Price				
							L30-250	L251-500	L501-750	L751-1000	L1001-1500
HKCVP	6A	8	30~1500	26	10	8	196	242	287	305	324
	8A	8		29	13	8	196	246	292	310	328
	10A	8		38	18	10	233	292	355	374	410
	15A	10		42	22	10	237	305	374	396	455
	20A	10		48	28	10	269	342	419	446	528
	25A	10		55	35	10	283	369	455	510	624
	32A	10		63	43	10	292	415	483	537	783
	40A	10		69	49	10	324	465	546	606	879
	50A	10		81	61	10	355	515	606	674	983

Example

HKTPE (Fix slit)

HKCVP

Order Example Part Number: **HKCVP10A** - L: **500** Price: **P88**

Volume Discount Rate (Round up to the Baht.) **P87**

Quantity	1-9	10-14	15-19	20-49
Rate	Unit Price	5%	10%	18%

For orders larger than indicated quantity, please request a quotation.

Delivery **7** Days **Express A** 140 Baht/piece **P88**

A flat charge of 370 Baht for 3 or more identical pieces.

Heat, Cold Retention Pipe Covers -For Elbow- **HKCVE** (For Elbow)

Operation Temperature Range: -20~120°C **M** Material: Heat Resistant Polyethylene Foam

Part Number	Type	No.	D	d	t	L	Unit Price
HKCVE	6A	8	32	16	8	24	214
	8A	8	36	20	8	26	223
	10A	8	44	24	10	32	260
	15A	10	48	28	10	34	260
	20A	10	54	34	10	36	310
	25A	10	63	43	10	40	333

Order Example Part Number: **HKCVE10A** Price: **P88**

Volume Discount Rate (Round up to the Baht.) **P87**

Quantity	1-9	10-14	15-19	20-49
Rate	Unit Price	5%	10%	18%

For orders larger than indicated quantity, please request a quotation.

Delivery **7** Days **Express A** 140 Baht/piece **P88**

A flat charge of 370 Baht for 3 or more identical pieces.

Tapes for Pipe Covers **HKTPE**

Operation Temperature Range: -20~80°C **M** Material: Polypropylene

Part Number	Type	W(mm)	L (m)	T (mm)	Unit Price	Volume Discount Rate
					Qty. 1-9	Qty. 10-29
HKTPE	25	55	0.12		506	378
	50				851	637

Order Example Part Number: **HKTPE25** Price: **P88**

Volume Discount Rate (Round up to the Baht.) **P87**

Quantity	1-9	10-14	15-19	20-29
Rate	Unit Price	5%	10%	18%

For orders larger than indicated quantity, please request a quotation.

Delivery **7** Days **Express A** 140 Baht/piece **P88**

A flat charge of 370 Baht for 3 or more identical pieces.

Operation Temperature and Pressure

Application	Main Pipe	Main Pipe Fittings	Normal temperature (5~35°C)	Tensile Yield Strength
For tap water	Unplasticized poly (vinyl chloride) (PVC-U) pipes VP for tap water	TSFittings	0.75MPa (StaticWater)	45MPa or more (23°C)
For force-feed	Unplasticized poly (vinyl Chloride) (PVC-U) pipes VP	TSFittings		
For water supply	Unplasticized poly (vinyl chloride) (PVC-U) pipes HI-VP for tap water Impact Resistance	HIFittings	0.75MPa (StaticWater)	40MPa or more (23°C)

Performance Standards (TSJoints / HIJoints Common)

Item	Performance Standards
turbidity	0.5 or less
Color	1 or less
Organic (TOC)	1mg/L or less
Lead	0.008mg/L or less
Zinc	0.5mg/L or less
Reduction of residual chlorine	0.7mg/L or less

(Note)1. Operating temperature and pressure may vary depending on the type of joints and conjugation methods.
2. Note that the faster the flow within pipes, the higher the pressure of water is. Keep the flow rate under 2m/s as a principle. 2m/s or more
3. Pipes that exposure PVC should be treated for expansion and contraction due to elasticity of PVC pipes by temperature difference.

Characteristics	Item	Unit	VP Pipes / TS Fittings	HI-VP Pipes / HI Fittings	Testing Method
Physical Properties	Color	-	Gray	Blue Gray	-
	Specific Gravity	-	1.43	1.4	JIS K 7112 density gradient centrifugation 20°C
	Hardness	Rockwell R	115	115	ASTM D 785 20°C
	Moisture Absorption Ratio	For a week in normal temperature mg/cm ²	0.15 or lower	0.15 or lower	-
Mechanical Properties	Tensile Strength	MPa (kgf/cm ²)	49~54(500~550)	49~52(500~530)	JIS K6742 23°C or others
	Young's Modulus	MPa (kgf/cm ²)	2942(3x10000)	2942(3x10000)	JIS K7113 20
	Tensile Elongation at Breakage	%	50~150	50~150	JIS K6741 23°C
	Flexural Strength	MPa (kgf/cm ²)	78.5~98.1(800~1000)	78.5~98.1(800~1000)	JIS K 7203 20°C 65%RH
	Elastic Modulus	MPa (kgf/cm ²)	2746(2.8x10000)	2746(2.8x10000)	JIS K 7203 20°C 65%RH
	Compression Strength	MPa (kgf/cm ²)	69(700)	64(650)	JIS K 7208 20°C 65%RH
	Poisson ratio	-	0.35~0.4	0.35~0.4	-
Thermal Characteristics	Charpy Impact Strength	kJ/m ² (kgf-cm ²)	6.9~9.8(7~10)	17.7 or more	-
	Vicat Softening Temperature	°C	76 or more	76 or more	JIS K6742
	Linear Thermal Expansion Coefficient	1/°C	6~8x10-5	6~8x10-5	-
	Specific Heat	J(kg-K)(cal/g-°C)	1.05x1000(0.25)	1.05x1000(0.25)	-
	Heat Transfer Coefficient	W(mK) (kcal/m h °C)	0.15(0.13)	0.15(0.13)	DIN 8061
Electrical Characteristics	Combustibility	-	Self-extinguishing	Self-extinguishing	-
	Withstanding Voltage	kV/mm	40 or more	40 or more	-
	Specific Volume Resistivity	Ωcm	5.3x1015	5.3x1015	30°C 65%RH
	Dielectric Constant 60MHz	-	3.2	3.2	30°C 55%RH
	Dielectric Constant 1000 Hz	-	3.1	3.1	-
	Dielectric Constant 1000000 Hz	-	3	3	-
	Power Factor 60Hz	100	1.18	1.18	30°C 55%RH
	Power Factor 1000 Hz	100	1.91	1.91	-
	Power Factor 1000000 Hz	100	1.72	1.72	-

Listed Values are for reference, not guaranteed.

Nominal	d1	Tolerance of d1	D / D1	Tolerance of D - D1	I/T	L1	d (Min.)	t (Min.)
13	18.4	±0.2	24	-0.6	1/30	26	13	2.7
16	22.4	±0.2	29	-0.7	1/34	30	16	2.7
20	26.45	±0.2	33	-0.8	1/34	35	20	3.2
25	32.55	±0.25	40	-1.0	1/34	40	25	3.6
30	38.6	±0.25	46	-1.0	1/34	44	31	3.6

PVC Pipes **RoHS**

Type	Material	Standards	Color
PVCT	Vinyl Chloride	JIS K 6742	Gray
PVCH			Blue Gray

Note that outer diameter of pipes may have some scratches or small flaws on its surface.

Part Number	Type	No.	L 1mm Increment	Outer Diameter D	D Tolerance	Thickness t	t Tolerance	Inner Diameter (Reference Value)	Unit Price						
									PVCT						
									L50-200	201-400	401-600	601-800	801-1000	1001-1250	1251-1500
PVCT PVCH	13	50~1500		18	±0.2	2.5	±0.2	13	160	192	223	273	364	501	683
	16			22	±0.2	3	±0.3	16	182	228	273	319	410	546	728
	20			26	±0.2	3	±0.3	20	205	251	319	364	455	592	774
	25			32	±0.2	3.5	±0.3	25	228	273	364	410	501	637	819
	30			38	±0.3	3.5	±0.3	31	273	319	410	455	546	683	865

The tolerance of L dimension will be +1~3 for 50~1000, +2~5 for 1001~1500. * The price of PVCH is the price in the table above plus 46 Baht.

Order Example Part Number: **PVCT20** - L: **500** Price: **P88**

Volume Discount Rate (Round up to the Baht.) **P87**

Quantity	1-9	10-14	15-19	20-29
Rate	Unit Price	5%	10%	18%

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Delivery **7** Days **Express A** 140 Baht/piece **P88**

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