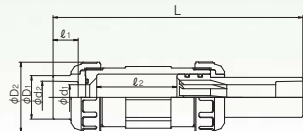


EXPANSION JOINT 20mm - 100mm (3/4 inch - 4 inch)

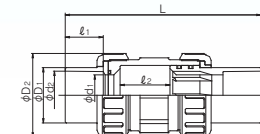
● PVC, C-PVC 20 - 100mm (3/4 inch - 4 inch)



20mm(3/4inch) ~ 50mm(2inch)



65mm(2 1/2 inch) ~ 100mm(4 inch)



FEATURES

- Thermal stress of pipe line is to be absorbed due to its sufficient allowable axial movement on elongation and contraction.
- With union type end connection, it allows fast disassembly, loosening the union nut only.
- With simplified design, it requires minimum, systems space in the piping systems, and there is no need of expansion U-bend.
- Earthquake resistant design; Allowable axial movement-Elongation contraction.
- Internal stop design prevents the expansion portion from being removed.

SPECIFICATIONS

Material	Working Temperature	Max. Working Pressure MPa[kgf/cm ²][PSI]	End Connectors
Unplasticized Polyvinyl Chloride (PVC)	0°C - 50°C (30°F - 120°F)	1.0{10.2}[150]	Socket End
Chlorinated Polyvinyl Chloride (C-PVC)	0°C - 90°C (30°F - 195°F)	1.0{10.2}[150]	Socket End

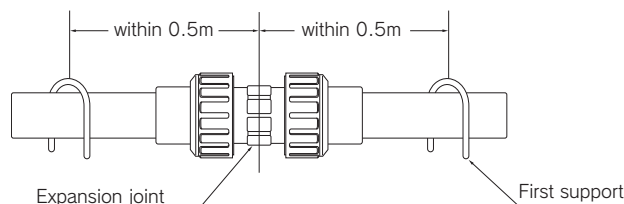
EXPANSION JOINT

Unit: MPa[kgf/cm²]

Material		PVC		C-PVC			
Nominal Size		Temp. °C(°F)					
mm	inch	0 - 40 (30 - 105)	41 - 50 (106 - 120)	5 - 40 (40 - 105)	41 - 60 (106 - 140)	61 - 70 (141 - 160)	71 - 90 (161 - 195)
20 - 100	3/4 - 4	1.0{10.2}	0.6{6.1}	1.0{10.2}	0.6{6.1}	0.4{4.1}	0.2{2.0}

DIMENSIONS TABLE

JIS		Unit: mm									
Nominal Size		d ₁	d ₂	l ₁	1/T	D ₁	D ₂	L		l ₂	
								Max	Min		
20	3/4	20	26.13	24	1/34	35	60	243	163	80	
25	1	25	32.16	27	1/34	43	70	250	170	80	
30	1 1/4	31	38.19	30	1/34	50	82	258	178	80	
40	1 1/2	40	48.21	37	1/37	59	100	272	192	80	
50	2	51	60.25	42	1/37	72	106	285	205	80	
65	2 1/2	65	76.60	61	1/48	88	133	314	234	80	
75	3	78	89.60	64	1/49	105	152	330	250	80	
100	4	100	114.70	84	1/56	132	210	422	322	100	



☆ Volume of thermal expansion on C-PVC pipe and PVC pipe

A; Dimension of pipe line

B; Temperature

Unit: mm

B \ A	5 m	10 m	20 m	30 m	40 m	50 m	60 m	70 m	80 m
10°C	4	7	14	21	28	35	42	49	56
20°C	7	14	28	42	56	70	84	98	112
30°C	11	21	42	63	84	105	126	147	168
40°C	14	28	56	84	112	140	168	196	224
50°C	18	35	70	105	140	175	210	245	280
60°C	21	42	84	126	168	210	252	294	336
70°C	25	49	98	147	196	245	294	343	392
80°C	28	56	112	168	224	280	336	392	448

Caution

First supports on both side of AV Expansion joint should be located within 0.5m from the middle of this joint.

(Setting of first supports at the location beyond 0.5m could cause pipeline to bend by internal pressure and AV Expansion joints do not work properly.)