

# Weld-On Fittings

# PVC Pipes / Fittings - Overview

**90° Elbow Short**

Type	Material
WEJES	SUS304W

RoHS10

**90° Elbow Long**

Type	Material
WEJELS	SUS304W

RoHS10

**Tees**

Type	Material
WEJTS	SUS304W

RoHS10

**Caps**

Type	Material
WEJCS	SUS304

RoHS10

**Flanges**

Type	Material
SGPFRW	SS400
SUTFRW	SUS304

RoHS10

**Blind Flanges**

Type	Material
SGPFRB	SS400
SUTFRB	SUS304

RoHS10

Part Number		(D)	L	T	Unit Price	Volume Discount Rate
Type	No.				1 ~ 9 pc(s)	10 ~ 30 pcs.
WEJES	25A	34	25.4	2.8		
	32A	42.7	31.8	2.8		

For orders larger than indicated quantity, please check with WOS.

Part Number		(D)	L	T	Unit Price	Volume Discount Rate
Type	No.				1 ~ 9 pc(s)	10 ~ 30 pcs.
WEJELS	15A	21.7	38.1	2.1		
	20A	27.2	38.1	2.1		
	25A	34	38.1	2.8		
	32A	42.7	47.6	2.8		

For orders larger than indicated quantity, please check with WOS.

Part Number		(D)	A	T	Unit Price	Volume Discount Rate
Type	No.				1 ~ 9 pc(s)	10 ~ 30 pcs.
WEJTS	15A	21.7	25.4	2.1		
	20A	27.2	28.6	2.1		
	25A	34	38.1	2.8		
	32A	42.7	47.6	2.8		

For orders larger than indicated quantity, please check with WOS.

Part Number		(D)	L	T	Unit Price	Volume Discount Rate
Type	No.				1 ~ 9 pc(s)	10 ~ 30 pcs.
WEJCS	15A	21.7	25.4	2.1		
	20A	27.2	25.4	2.1		
	25A	34	38.1	2.8		
	32A	42.7	38.1	2.8		

For orders larger than indicated quantity, please check with WOS.

Part Number		D	(T)	P.C.D.	d	d1	Applicable Bolt Dia.	SGPFRW Unit Price	SGPFRW Volume Discount Rate	SUTFRW Unit Price	SUTFRW Volume Discount Rate
Type	No.							1 ~ 9 pc(s)	10 ~ 30 pcs.	1 ~ 9 pc(s)	10 ~ 30 pcs.
SGPFRW SUTFRW	10A	90	12	65	15	17.8	M12				
	15A	95	12	70	15	22.2	M12				
	20A	100	14	75	15	27.7	M12				
	25A	125	14	90	19	34.5	M16				

For orders larger than indicated quantity, please check with WOS.

Part Number		D	(T)	P.C.D.	d	Applicable Bolt Dia.	SGPFRB Unit Price	SGPFRB Volume Discount Rate	SUTFRB Unit Price	SUTFRB Volume Discount Rate
Type	No.						1 ~ 9 pc(s)	10 ~ 30 pcs.	1 ~ 9 pc(s)	10 ~ 30 pcs.
SGPFRB SUTFRB	10A	90	12	65	15	M12				
	15A	95	12	70	15	M12				
	20A	100	14	75	15	M12				
	25A	125	14	90	19	M16				

For orders larger than indicated quantity, please check with WOS.

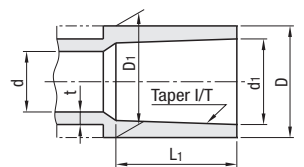
Ordering Example: Part Number **WEJES25A**

Application	Main Pipe	Main Pipe Fittings	Operating Temp.	Max. Operating Pressure	Tensile Yield Strength
Tap Water	Unplasticized Poly (Vinyl Chloride) (PVC-U) Pipes VP for Tap Water	TS Fittings	Ambient Temperature (5~35°C)	0.75MPa (Static Water)	45MPa or more (For 23°C)
Force-feed	Unplasticized Poly (Vinyl Chloride) (PVC-U) Pipes VP	TS Fittings		1.0MPa (Static Water + Water Impact Resistance)	
Water Supply	Unplasticized Poly (Vinyl Chloride) (PVC-U) Pipes HI-VP for Tap Water Impact Resistance	HI Fittings		0.75MPa (Static Water)	40MPa or more (For 23°C)

(CAUTION) 1. Operating temperature and pressure may vary depending on the type of fittings 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.  
3. PVC pipes will expand/contract by temperature variations, and exposed plumbing of the pipes require treatments to take this in consideration.

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
Mechanical Properties	Moisture Absorption Ratio	For a week in ambient temperature mg/cm <sup>2</sup>	0.15 or lower	0.15 or lower	-
	Tensile Strength	MPa (kgf/cm <sup>2</sup> )	49~54 (500~550)	49~52 (500~530)	JIS K6742 23°C and other
	Young's Modulus	MPa (kgf/cm <sup>2</sup> )	2942 (3x10000)	2942 (3x10000)	JIS K7113 20°C
	Tensile Elongation at Breakage	%	50~150	50~150	JIS K6741 23°C
	Flexural Strength	MPa (kgf/cm <sup>2</sup> )	78.5~98.1 (800~1000)	78.5~98.1 (800~1000)	JIS K 7203 20°C 65%RH
	Elastic Modulus	MPa (kgf/cm <sup>2</sup> )	2746 (2.8x10000)	2746 (2.8x10000)	JIS K 7203 20°C 65%RH
	Compression Strength	MPa (kgf/cm <sup>2</sup> )	69 (700)	64 (650)	JIS K 7208 20°C 65%RH
	Poisson Ratio	-	0.35~0.4	0.35~0.4	-
	Charpy Impact Strength	kJ/m <sup>2</sup> (kgf·cm/cm <sup>2</sup> )	6.9~9.8 (7~10)	17.7 or more	-
	Vicat Softening Temperature	°C	76 or more	76 or more	JIS K6742
Thermal Characteristics	Linear Thermal Expansion Coefficient	1/°C	6~8x10 <sup>-5</sup>	6~8x10 <sup>-5</sup>	-
	Specific Heat	J (kg·K) (cal/g·°C)	1.05x1000 (0.25)	1.05x1000 (0.25)	-
	Heat Transfer Coefficient	W (m·K) (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	Ω·cm	5.3x10 <sup>15</sup>	5.3x10 <sup>15</sup>	30°C 65%RH
	Dielectric Constant 60Hz	-	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

**How to Cut Off**

- By Electric Circular Saw
- By Disk Sander
- By PVC Pipe Saw

Cut perpendicular to axis of pipe, using cut line as a guide.

**How to Bond**

- Cleaning
- Applying Adhesive
- Insertion
- Completed

Clean the inside of fittings and outer surface of insertion part with dry cloth.  
Apply adhesive evenly with the inside of fittings, and then outer surface of insertion part in circular order.  
Insert the pipe into the fitting up to the marking line in one stroke after applying adhesive, and hold it for 30 seconds or more.  
Wipe off extra adhesive immediately, and prevent excessive pressure on the junction.