

Engineering Specification

Job Name _____

Contractor _____

Job Location _____

Approval _____

Engineer _____

Contractor's P.O. No. _____

Approval _____

Representative _____

LEAD FREE*

PPSU ASTM F1960

Fittings

Sizes: 1/2" - 1"

Lead Free* Polyphenylsulfone (PPSU) Cold Expansion fittings are composed of a high temperature thermoplastic with high impact and chemical resistance. Fittings are used to connect Watts RadiantPERT™ or Watts WaterPEXa™ pipe. F1960 compression rings are composed of cross-linked polyethylene (PEX) material.

Specifications

System shall be installed using Watts RadiantPERT or Watts WaterPEXa pipe. All connections shall be made using the Watts Lead Free* PPSU F1960 adapters and fittings in accordance with the ASTM F1960 connection method as outlined in the Instruction Sheet. The Lead Free* PPSU F1960 fittings and adapters shall be constructed using Lead Free* PPSU and shall comply with building codes and standards, where applicable, requiring reduced lead content.

Features

- Constructed from high temperature, impact resistant polyphenylsulfone.
- Maximum Working Temperature: 210°F (99°C)
Maximum Working Pressure: 150psi (1034 kPa)
- Fittings are compatible with domestic hot and cold water as well as hot and cold radiant heating applications.



Standards



Listings



Standards and Listings

- ASTM F1960, F877
- NSF 61, 14, 372
- CSA B137.5
- Certified to the Uniform Plumbing Code

NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

* The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.

CAUTION

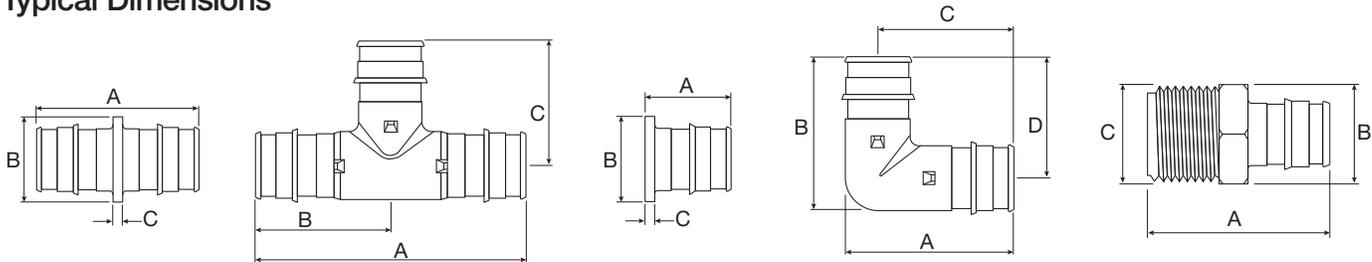
Do not allow product to come in extended contact with any of at least the commonly encountered construction materials listed below: (This list is not all-inclusive.)

- Pipe thread sealing compounds
- Non-water based fire wall penetration sealing compounds and caulking
- Petroleum-based materials or sealants such as:
 - Kerosene, Benzene, Gasoline, Solvents, Fuel Oils, Cutting Oils, Asphaltic Paint, and Asphaltic Road Materials, Acetone, Toluene, and/or Xylene

Watts product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Watts Technical Service. Watts reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Watts products previously or subsequently sold.



Typical Dimensions



✓	Model #	Order #	Description	A		B		C		D		Weight	
				in*	mm	in*	mm	in*	mm	in*	mm	oz	g
Couplings F1960 x F1960													
	LFWPE15P-0808PB	0653383	Coupling, 1/2" x 1/2"	1-1/2"	39.4	7/8"	21.6	1/8"	3.0	N/A		0.19	5.51
	LFWPE15P-1212PB	0653384	Coupling, 3/4" x 3/4"	2"	51.4	1-1/8"	30.0					0.36	10.12
	LFWPE15P-1616PB	0653374	Coupling, 1" x 1"	2-1/2"	63.4	1-3/8"	36.0					0.62	17.52
	LFWPE15P-1612PB	0653375	Coupling, 1" x 3/4"	2-1/4"	57.4	1-3/8"	36.0					0.50	14.15
Elbows F1960 x F1960													
	LFWPE19P-08PB	0653385	Elbow, 1/2" x 1/2"	1-1/2"	39.2	1-3/8"	35.5	1-1/4"	32.2	1-1/8"	28.5	0.25	7.08
	LFWPE19P-12PB	0653386	Elbow, 3/4" x 3/4"	2"	51.5	1-7/8"	47.0	1-5/8"	41.7	1/1/2"	37.2	0.46	12.93
	LFWPE19P-1616PB	0653376	Elbow, 1" x 1"	2-1/2"	64.7	2-3/8"	59.3	2"	52.2	1-7/8"	46.8	0.88	25.01
Tees F1960 x F1960 x F1960													
	LFWPE18P-120808PB	0653400	Tee, 3/4" x 1/2" x 1/2"	2-7/8"	72.4	1-3/8"	33.2	1-1/4"	31.9	N/A		0.48	13.6
	LFWPE18P-121208PB	0653399	Tee, 3/4" x 3/4" x 1/2"	3"	78.4	1-1/2"	39.2	1-1/4"	31.9	N/A		0.61	17.3
	LFWPE18P-120812PB	0653401	Tee, 3/4" x 1/2" x 3/4"	3"	77.4	1-3/8"	35.7	1-1/2"	37.9	N/A		0.60	17.0
	LFWPE18P-08PB	0653387	Tee, 1/2" x 1/2" x 1/2"	2-1/2"	64.3	1-3/8"	32.2	1-1/8"	28.9	N/A		0.35	9.94
	LFWPE18P-12PB	0653388	Tee, 3/4" x 3/4" x 3/4"	3-1/4"	83.4	1-5/8"	41.7	1-1/2"	37.9		0.74	20.98	
	LFWPE18P-16PB	0653377	Tee, 1" x 1" x 1"	4-1/8"	104.3	2"	52.2	1-7/8"	46.9		1.31	37.21	
	LFWPE18P-161608PB	0653378	Tee, 1" x 1" x 1/2"	3-1/2"	90.4	1-3/4"	45.2	1-3/8"	34.9		1.14	32.19	
	LFWPE18P-161612PB	0653379	Tee, 1" x 1" x 3/4"	3-7/8"	98.4	2"	49.2	1-5/8"	40.9		1.19	33.74	
	LFWPE18P-161212PB	0653380	Tee, 1" x 3/4" x 3/4"	3-5/8"	92.4	2"	49.2				1.08	30.67	
Adaptors F1960 x Male NPT													
	LFWPE12P-0808PB	0653381	Adptr 1/2" x 1/2" MNPT	1-5/8"	40.6	7/8"	22.0	1/2"	12.7	N/A		0.31	8.93
	LFWPE12P-1212PB	0653382	Adptr 3/4" x 3/4" MNPT		41.2	1"	25.4	3/4"	19.1		0.35	10.04	
Plugs F1960													
	LFWPE24P-08PB	0653389	Plug, 1/2"	7/8"	21.2	7/8"	21.96	1/8"	3.0	N/A		0.12	3.45
	LFWPE24P-12PB	0653390	Plug, 3/4"	1-1/8"	27.2	1-1/8"	30.0				0.24	6.85	
	LFWPE24P-16PB	0653391	Plug, 1"	1-3/8"	33.2	1-3/8"	36.0				0.40	11.31	
F1960 Compression Rings													
	PFS3-10	81019401	Sleeve, PEX, 1/2" F1960	Nominal Size							1.00	0.50	
	PFS4-10	81019403	Sleeve, PEX, 3/4" F1960										
	PFS5-10	81019755	Sleeve, PEX, 1" F1960										

*dimension shown represents closest equivalent standard dimension.

