



PVC DWV Vertical Stack Expansion Joints

DWVEJ-2-0223



S118 & S119 Series PVC DWV Vertical Stack Expansion Joints

DWV Vertical Stack Compensation

Spears® PVC DWV Expansion Joints are ideal for DWV vertical stack drainage applications. Structural settlement and thermal dynamic events require a reliable means of compensation in DWV vertical stack piping applications. The Spears® S118 & S119 provide a piston-type modular design that allows the vertical vent stack to move with the structure when random building settlement is encountered and protects the vent stack from damage. Available in nominal pipe sizes from 1-1/2" to 6" with various stroke lengths, PVC DWV Expansion Joints are easily installed using the solvent cementing process making installation a snap.

Certified to IAPMO PS-51

Spears® PVC DWV expansion joints have been certified by NSF International to IAPMO PS-51, the recognized standard for Expansion Joints and Flexible Expansion Joints for DWV Piping Systems. Expansion joints are engraved with the "NSF U.P. Code" signifying IAPMO code compliance.

Double O-ring Design

Expansion joints function as a pipe extension in the form of a piston. As a building settles the piston compensates for changes in vertical stack height by retracting into the expansion joint body. The double O-ring seal ensures redundant, positive sealing is maintained for the life of the product.

Easy Installation

DWV vertical stack expansion joints are easily installed by following the Spears® RCL-3A installation instructions found on the Spears® website, (www.spearsmfg.com) or use the convenient QR code on the expansion joint itself. According to Model Plumbing Codes DWV expansion joints should be placed in the vertical stack line every thirty feet with appropriate anchors and guides.

Expansion Joint Options

Expansion joints are available in your choice of socket x spigot (S118) or socket x socket (S119) configurations to make installing these devices effortless.

Engraved Flow Arrow

An engraved flow arrow and the phrase "DWV Only" is located on the side of the expansion joint body to facilitate installation and proper device operation.

Vertical Stack Applications

The Spears® DWV Vertical Expansion Joints are suitable for vertical stack applications only and compensate for expansion and contraction due to temperature changes and building settlement.

Limited Lifetime Warranty

Spears® Lifetime Limited Warranty covers defects in material and workmanship for the life of the product.

Sample Engineering Specification

All Spears® PVC DWV Vertical Expansion Joints in 1-1/2" through 6" shall be manufactured in the U.S.A. by Spears® Manufacturing Company. PVC DWV Expansion Joints shall be constructed from white Polyvinyl Chloride (PVC) Type I compound having a cell classification of 12454 conforming to ASTM D1784. PVC DWV Expansion Joints shall be certified to IAPMO PS-51 for DWV Vertical applications and labeled with an "NSF U.P. Code by NSF International under program (SE7992). All PVC DWV Expansion Joints shall be furnished with double o-ring seal in EPDM elastomer material. Socket x Spigot (S118) or Socket x Socket (S119) end connections shall be offered.

Expansion Joint body shall have an engraved flow direction arrow for proper installation placement. PVC DWV Expansion Joints shall be suitable for use in DWV vertical stack applications to compensate for building settlement and thermal dynamic changes in DWV piping systems.

PROGRESSIVE PRODUCTS FROM SPEARS® INNOVATION & TECHNOLOGY

Part Numbers for S118 Series Expansion Joint

Part Number	Size	Std Pk	Mstr Ctn	Prod Code
S118-15	1-1/2	25	0	025
S118-20	2	12	0	025
S118-25	2-1/2	5	0	025
S118-30	3	4	0	025
S118-40	4	2	0	025
S118-60	6	1	0	025

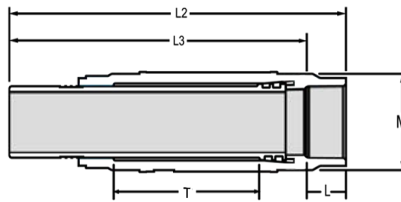
Part Numbers for S119 Series Expansion Joint

Part Number	Size	Std Pk	Mstr Ctn	Prod Code
S119-15	1-1/2	16	0	025
S119-20	2	10	0	025
S119-25	2-1/2	5	0	025
S119-30	3	4	0	025
S119-40	4	2	0	025
S119-60	6	1	0	025

DWV Vertical Stack Expansion Joint Dimensional Information

DWV Expansion Joint - Spigot x Socket

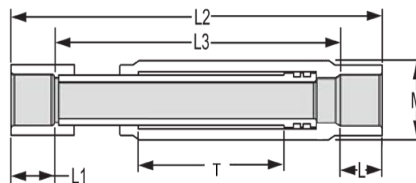
PVC White with EPDM O-ring



Part Number	Size	L	L2	L3	M	T	Approx. Wt. (Lbs.)
S118-15	1-1/2	1-1/8	9-3/16	8-1/16	2-11/16	3-13/16	1.01
S118-20	2	1-3/16	9-15/16	8-3/4	3-1/4	4-5/16	1.59
S118-25	2-1/2	1-3/4	13-5/8	11-7/8	3-15/16	5-9/16	3.48
S118-30	3	1-7/8	13-11/16	11-13/16	4-5/8	5-9/16	4.29
S118-40	4	2-1/4	14-13/16	12-9/16	5-3/4	6-3/16	6.82
S118-60	6	3	17-3/16	14-3/16	8-7/16	6-5/8	14.72

DWV Expansion Joint - Socket x Socket

PVC White with EPDM O-ring



Part Number	Size	L	L1	L2	L3	M	T	Approx. Wt. (Lbs.)
S119-15	1-1/2	1-1/8	1-3/8	10-11/16	8-3/16	2-11/16	3-13/16	1.15
S119-20	2	1-3/16	1-1/2	11-5/8	8-15/16	3-1/4	4-5/16	1.81
S119-25	2-1/2	1-3/4	1-3/4	15-9/16	12-1/16	3-15/16	5-9/16	3.86
S119-30	3	1-7/8	1-7/8	15-3/4	12	4-5/8	5-9/16	4.94
S119-40	4	2-1/4	2-1/4	17-1/4	12-3/4	5-3/4	6-3/16	7.71
S119-60	6	3	3	20-1/2	14-1/2	8-7/16	6-5/8	18.06

Refer to RCL-3A for more information on PVC DWV Vertical Stack Expansion Joint installation.



SPEARS® MANUFACTURING COMPANY
 15853 Olden St, Sylmar, CA 91342 • PO Box 9203, Sylmar, CA 91392
 (818) 364-1611 • www.spearsmfg.com

