

For Retrofit Applications

Job Name _____

Contractor _____

Job Location _____

Approval _____

Engineer _____

Contractor's P.O. No. _____

Approval _____

Representative _____

LEAD FREE*

Series W-SPL and W-FLG Make Up Spools and Flanges

For Backflow Preventers 2½"-10" (65-250mm)

Watts "Make Up" Spools are used when retrofitting a backflow preventer into an installation where an existing backflow preventer is being replaced. Watts "Make Up" Flanges are used in piping applications where there is a need for additional fitting lay length. The W-SPL and W-FLG feature Lead Free* construction to comply with Lead Free* installation requirements.



Spools

Models

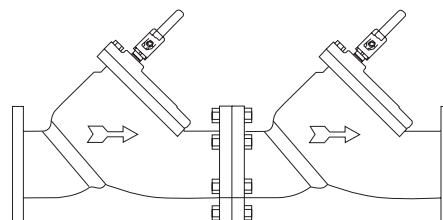
W-SPL - Make Up Spools

Available in Lightweight 300 series Stainless Steel or Epoxy coated Carbon Steel. AWWA 150# class "D" Carbon Steel Flanges offered as standard. 150# class "D" Stainless Steel Flanges upon special request.

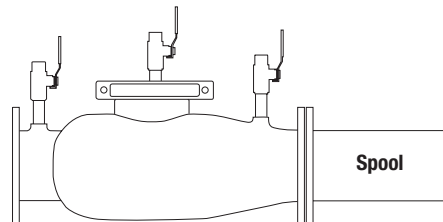
W-FLG - Make Up Flanges

AWWA 150# modified class "D" Zinc plated Carbon Steel Flanges with standard bolt pattern. 150# modified class "D" Zinc Plated Carbon Steel Flanges with standard pattern slotted. 150# modified class "D" Stainless Steel Flanges with standard bolt pattern.

Contact factory for specific applications.



Watts 709/LF709



Watts 774 with Spool

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

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.



How to order

Locate the manufacturer and model number under the valve size column in the matrix on these two pages. It is assumed that the valve you will be installing is a Watts 774 Sentry Series. On the first line across from the model number is the lay length of the valve less gates. On the lines listed below is the valve being replaced. On that line is the lay length of that valve. The column to the right is the length of the spool needed to "make up" the difference between the valve being replaced and the lay length of the "Sentry Series." Below the spool length is the ordering code for that spool.

Retrofit Spool Pieces for Various Lengths • Cast Iron Watts Products vs Watts Sentry Series

WATTS MODEL	2½"†	ACTUAL SPOOL LENGTH NEEDED	3"†	ACTUAL SPOOL LENGTH NEEDED	4"†	ACTUAL SPOOL LENGTH NEEDED	6"†	ACTUAL SPOOL LENGTH NEEDED	8"†	ACTUAL SPOOL LENGTH NEEDED	10"†	ACTUAL SPOOL LENGTH NEEDED
774	22"	-	22"	-	22"	-	27½"	-	29½"	-	29½"	-
709/LF709	24"	1⅞"	24"	1⅞"	34"	11⅞"	42½"	14⅞"	52"	22⅝"	64"	34⅝"
774DCDA	22"	-	22"	-	22"	-	27½"	-	29½"	-	29½"	-
709DCDA	-	-	24"	1⅞"	34"	11⅞"	41½"	13⅞"	52"	22⅝"	64"	34⅝"
994	22"	-	22"	-	22"	-	27½"	-	29½"	-	29½"	-
909/LF909	26⅞"	4"	26⅞"	4"	37"	14⅞"	44½"	16⅞"	55¼"	25⅝"	67⅝"	37¾"
994RPDA	22"	-	22"	-	22"	-	27½"	-	-	-	-	-
909RPDA	26⅞"	4"	26⅞"	4"	37"	14⅞"	44½"	16⅞"	55¼"	-	67⅝"	-

†Size and length of valve being replaced.

For Example: when replacing a Watts 4" 709 with a Watts 4" 774 you would need a spool that is 11⅞" long. The slight decrease in the spools length is to accommodate the flange gasket, approximately ⅛".

Example:

WATTS MODEL: 709		WATTS MODEL: 774	
Line Size	Lay Length:	Line Size	Lay Length:
4"	34"	4"	22"

Spool Length from chart: 11⅞" Subtract Lengths: 12" Ordering code: 0107020

Spool Sizes and Lengths

VALVE SIZE	ORDERING CODE	LENGTH	SPOOL SIZE	MODEL
2½"	0107000	1⅞"	2½" x 1⅞"	W-SPL
	0107001	3⅞"	2½" x 3⅞"	W-SPL
	0107002	2⅝⅙"	2½" x 3⅝⅙"	W-SPL
	0107003	4"	2½" x 4"	W-SPL
	0107004	4⅝⅙"	2½" x 4⅝⅙"	W-SPL
3"	0107005	1⅞"	3" x 1⅞"	W-SPL
	0107006	2⅞"	3" x 2⅞"	W-SPL
	0107007	3½"	3" x 3½"	W-SPL
	0107008	3⅝⅙"	3" x 3⅝⅙"	W-SPL
	0107009	4"	3" x 4"	W-SPL
4"	0107010	5⅜"	4" x 5⅜"	W-SPL
	0107011	5⅞"	4" x 5⅞"	W-SPL
	0107012	6⅞"	4" x 6⅞"	W-SPL
	0107013	6⅜⅙"	4" x 6⅜⅙"	W-SPL
	0107014	7⅞"	4" x 7⅞"	W-SPL
	0107015	7⅝⅙"	4" x 7⅝⅙"	W-SPL
	0107016	8"	4" x 8"	W-SPL
	0107017	9⅞"	4" x 9⅞"	W-SPL
	0107018	10⅞"	4" x 10⅞"	W-SPL
	0107019	10⅞"	4" x 10⅞"	W-SPL
	0107020	11⅞"	4" x 11⅞"	W-SPL
	0107021	12"	4" x 12"	W-SPL
	0107022	14⅞"	4" x 14⅞"	W-SPL
	0107023	5⅞"	6" x 5⅞"	W-SPL
	0107024	8⅞"	6" x 8⅞"	W-SPL
6"	0107025	9⅝⅙"	6" x 9⅝⅙"	W-SPL
	0107026	10¼"	6" x 10¼"	W-SPL
	0107027	11"	6" x 11"	W-SPL
	0107028	12⅞"	6" x 12⅞"	W-SPL
	0107029	12½"	6" x 12½"	W-SPL
	0107030	13⅞"	6" x 13⅞"	W-SPL
	0107031	13⅞"	6" x 13⅞"	W-SPL
	0107032	14"	6" x 14"	W-SPL
	0107033	14⅞"	6" x 14⅞"	W-SPL
	0107034	14⅞"	6" x 14⅞"	W-SPL
	0107035	16⅞"	6" x 16⅞"	W-SPL
	0107036	17⅞"	6" x 17⅞"	W-SPL

VALVE SIZE	ORDERING CODE	LENGTH	SPOOL SIZE	MODEL
8"	0107037	12⅞"	8" x 12⅞"	W-SPL
	0107038	16⅞"	8" x 16⅞"	W-SPL
	0107039	16½"	8" x 16½"	W-SPL
	0107040	17⅞"	8" x 17⅞"	W-SPL
	0107041	18⅞"	8" x 18⅞"	W-SPL
	0107042	21⅞"	8" x 21⅞"	W-SPL
	0107043	21⅞"	8" x 21⅞"	W-SPL
	0107044	22⅞"	8" x 22⅞"	W-SPL
	0107045	22⅞"	8" x 22⅞"	W-SPL
	0107046	23⅞"	8" x 23⅞"	W-SPL
10"	0107047	25⅞"	8" x 25⅞"	W-SPL
	0107048	16⅞"	10" x 16⅞"	W-SPL
	0107049	16¼"	10" x 16¼"	W-SPL
	0107050	28⅞"	10" x 28⅞"	W-SPL
	0107051	28⅞"	10" x 28⅞"	W-SPL
	0107052	28⅞"	10" x 28⅞"	W-SPL
	0107053	29⅞"	10" x 29⅞"	W-SPL
	0107054	29⅝⅙"	10" x 29⅝⅙"	W-SPL
	0107055	32⅞"	10" x 32⅞"	W-SPL
	0107056	32⅞"	10" x 32⅞"	W-SPL
	0107057	34⅞"	10" x 34⅞"	W-SPL
	0107058	37¼"	10" x 37¼"	W-SPL

Size = Valve Size x Spool Length

Use with series 757 and 957 when replacing:

VALVE SIZE	ORDERING CODE	LENGTH	SPOOL SIZE	MODEL	VALVE SIZE	ORDERING CODE	LENGTH	SPOOL SIZE	MODEL
HERSEY 6CM					IRON				
BRONZE					IRON				
2½"	0107105	3¾"	2½" x 3¾"	W-SPL	2½"	0107106	5¼"	2½" x 5¼"	W-SPL
3"	0107107	8⅝⅙"	3" x 8⅝⅙"	W-SPL	3"	0107107	8⅝⅙"	3" x 8⅝⅙"	W-SPL
4"	0107109	12⅞⅙"	4" x 12⅞⅙"	W-SPL	4"	0107110	13⅞⅙"	4" x 13⅞⅙"	W-SPL
6"	0107111	10¼"	6" x 18¼"	W-SPL	6"	0107111	18¼"	6" x 18¼"	W-SPL
					8"	0107112	25¼"	8" x 25¼"	W-SPL
					10"	0107113	30¼"	10" x 30¼"	W-SPL
Hersey Model 2									
3"	0107108	8⅝⅙"	3" x 8⅝⅙"	W-SPL					
4"	0107110	13⅞⅙"	4" x 13⅞⅙"	W-SPL					
6"	0107111	18¼"	6" x 18¼"	W-SPL					
8"	0107112	25¼"	8" x 25¼"	W-SPL					
10"	0107113	30¼"	10" x 30¼"	W-SPL					

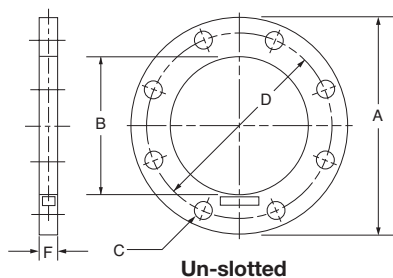
Please be advised that due to variations in manufacturing tolerances, the measurements listed can vary from what is installed. Please verify the measurements of the valve being replaced. Custom lay lengths available upon request.

"Make Up" Flanges

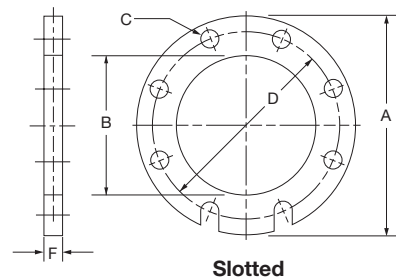
Available Thickness

1/4" & 1/2" Stainless Steel

1/2" & 1" Zinc Plated
Carbon Steel



Un-slotted



Slotted

AWWA C207 Modified Class D Spacer Flanges

SIZE	STD.	MODEL	ORDERING CODE	A FLG. OD +/-1/8	B FLG. ID +1/16 -0	C BOLT HOLE SIZE	D BOLT CIRCLE +/-1/16	E NO. HOLES	F THICKNESS +/-1/8	COMMENTS
2"	AWWA D	W-FLG SS-U	0107060	6"	2.44"	3/4"	4 3/4"	4	1/4"	UN-SLOTTED
2"	AWWA D	W-FLG SS-U	0107061	6"	2.44"	3/4"	4 3/4"	4	1/2"	UN-SLOTTED
2"	AWWA D	W-FLG SS-S	0107062	6"	2.44"	3/4"	4 3/4"	4	1/4"	SLOTTED
2"	AWWA D	W-FLG SS-S	0107063	6"	2.44"	3/4"	4 3/4"	4	1/2"	SLOTTED
2 1/2"	AWWA D	W-FLG SS-U	0107064	7"	2.94"	3/4"	5 1/2"	4	1/4"	UN-SLOTTED
2 1/2"	AWWA D	W-FLG SS-U	0107065	7"	2.94"	3/4"	5 1/2"	4	1/2"	UN-SLOTTED
2 1/2"	AWWA D	W-FLG SS-S	0107066	7"	2.94"	3/4"	5 1/2"	4	1/4"	SLOTTED
2 1/2"	AWWA D	W-FLG SS-S	0107067	7"	2.94"	3/4"	5 1/2"	4	1/2"	SLOTTED
3"	AWWA D	W-FLG Z-U	0107068	7 1/2"	3.57"	3/4"	6"	4	1/2"	UN-SLOTTED
3"	AWWA D	W-FLG Z-U	0107069	7 1/2"	3.57"	3/4"	6"	4	1"	UN-SLOTTED
3"	AWWA D	W-FLG Z-S	0107070	7 1/2"	3.57"	3/4"	6"	4	1/2"	SLOTTED
3"	AWWA D	W-FLG Z-S	0107071	7 1/2"	3.57"	3/4"	6"	4	1"	SLOTTED
3"	AWWA D	W-FLG SS-U	0107072	7 1/2"	3.57"	3/4"	6"	4	1/4"	UN-SLOTTED
3"	AWWA D	W-FLG SS-U	0107073	7 1/2"	3.57"	3/4"	6"	4	1/2"	UN-SLOTTED
3"	AWWA D	W-FLG SS-S	0107074	7 1/2"	3.57"	3/4"	6"	4	1/4"	SLOTTED
3"	AWWA D	W-FLG SS-S	0107075	7 1/2"	3.57"	3/4"	6"	4	1/2"	SLOTTED
4"	AWWA D	W-FLG Z-U	0107076	9"	4.57"	3/4"	7 1/2"	8	1/2"	UN-SLOTTED
4"	AWWA D	W-FLG Z-U	0107077	9"	4.57"	3/4"	7 1/2"	8	1"	UN-SLOTTED
4"	AWWA D	W-FLG Z-S	0107078	9"	4.57"	3/4"	7 1/2"	8	1/2"	SLOTTED
4"	AWWA D	W-FLG Z-S	0107079	9"	4.57"	3/4"	7 1/2"	8	1"	SLOTTED
4"	AWWA D	W-FLG SS-U	0107080	9"	4.57"	3/4"	7 1/2"	8	1/4"	UN-SLOTTED
4"	AWWA D	W-FLG SS-U	0107081	9"	4.57"	3/4"	7 1/2"	8	1/2"	UN-SLOTTED
4"	AWWA D	W-FLG SS-S	0107082	9"	4.57"	3/4"	7 1/2"	8	1/4"	SLOTTED
4"	AWWA D	W-FLG SS-S	0107083	9"	4.57"	3/4"	7 1/2"	8	1/2"	SLOTTED
6"	AWWA D	W-FLG Z-U	0107084	11"	6.72"	7/8"	9 1/2"	8	1/2"	UN-SLOTTED
6"	AWWA D	W-FLG Z-U	0107085	11"	6.72"	7/8"	9 1/2"	8	1"	UN-SLOTTED
6"	AWWA D	W-FLG Z-S	0107086	11"	6.72"	7/8"	9 1/2"	8	1/2"	SLOTTED
6"	AWWA D	W-FLG Z-S	0107087	11"	6.72"	7/8"	9 1/2"	8	1"	SLOTTED
6"	AWWA D	W-FLG SS-U	0107088	11"	6.72"	7/8"	9 1/2"	8	1/4"	UN-SLOTTED
6"	AWWA D	W-FLG SS-U	0107089	11"	6.72"	7/8"	9 1/2"	8	1/2"	UN-SLOTTED
6"	AWWA D	W-FLG SS-S	0107090	11"	6.72"	7/8"	9 1/2"	8	1/4"	SLOTTED
6"	AWWA D	W-FLG SS-S	0107091	11"	6.72"	7/8"	9 1/2"	8	1/2"	SLOTTED
8"	AWWA D	W-FLG Z-U	0107092	13 1/2"	8.72"	7/8"	11 3/4"	8	1/2"	UN-SLOTTED
8"	AWWA D	W-FLG Z-U	0107093	13 1/2"	8.72"	7/8"	11 3/4"	8	1"	UN-SLOTTED
8"	AWWA D	W-FLG Z-S	0107094	13 1/2"	8.72"	7/8"	11 3/4"	8	1/2"	SLOTTED
8"	AWWA D	W-FLG Z-S	0107095	13 1/2"	8.72"	7/8"	11 3/4"	8	1"	SLOTTED
8"	AWWA D	W-FLG SS-U	0107096	13 1/2"	8.72"	7/8"	11 3/4"	8	1/4"	UN-SLOTTED
8"	AWWA D	W-FLG SS-U	0107097	13 1/2"	8.72"	7/8"	11 3/4"	8	1/2"	UN-SLOTTED
8"	AWWA D	W-FLG SS-S	0107098	13 1/2"	8.72"	7/8"	11 3/4"	8	1/4"	SLOTTED
8"	AWWA D	W-FLG SS-S	0107099	13 1/2"	8.72"	7/8"	11 3/4"	8	1/2"	SLOTTED
10"	AWWA D	W-FLG SS-U	0107100	16"	10.81"	1"	14 1/4"	12	1/4"	UN-SLOTTED
10"	AWWA D	W-FLG SS-U	0107101	16"	10.81"	1"	14 1/4"	12	1/2"	UN-SLOTTED
10"	AWWA D	W-FLG SS-S	0107102	16"	10.81"	1"	14 1/4"	12	1/4"	SLOTTED
10"	AWWA D	W-FLG SS-S	0107103	16"	10.81"	1"	14 1/4"	12	1/2"	SLOTTED

Matrix:

Z = Zinc

S = Slotted

SS = 304 Stainless Steel

U = Un-slotted

Size = Valve Size x Thickness



A Watts Water Technologies Company



ISO 9001-2008
CERTIFIED

USA: Tel: (978) 688-1811 • Fax: (978) 794-1848 • www.watts.com

Canada: Tel: (905) 332-4090 • Fax: (905) 332-7068 • www.watts.ca