

Your One-Stop Source For Plastic Fittings, Valves, Pipe & Cement

Welcome to...

Spears[®] **ENGINEERING SOURCEBOOK** for Plastic Fittings, Valves, Pipe & Cement - a listing of Technical Information for Spears[®] & Cement product for all your plastic piping needs.

Cataloged Product Offering can be found in supplemental Spears[®] PRODUCT SOURCEBOOK, publication SPS-1 or on Spears[®] website @ www.spearsmfg.com.

Product Pricing can be found in the supplemented MANUFACTURER'S SUGGESTED RETAIL PRICE Sheet publication, MSRP-1 or on Spears[®] on-line "Spears[®] current catalog price update daily" at www.spearsmfg.com.

Product TAB Sections

Each TAB section groups common categories of products and accessories technical information. Periodic references are given for location of other related products for convenient use and versatility in finding the products you need. Take a few minutes to peruse the Table of Content for an overview of organization and content.

TAB Locators

"TAB Locator" pages let you quickly thumb to each product technical information category by matching shaded tabs in the outer margin of each page.

Part Number Index

Spears[®] **Part Number Index** allows quick page number location of Spears[®] standard catalogued parts. Simply look up known part number in the numerical index to find designated page on which the part can be found.

Alphabetical Index

Spears[®] **Alphabetical Index** allows quick page number location within each TAB section by product type. Such as Caps, Couplings, Crosses, Female Adapters, etc.

On-line Catalog Resources

Also see **Spears**[®] **On-line Catalog** for *Current Catalog Updated Daily* on the Spears[®] website. These can be accessed to verify pricing and check for any changes or adjustments that may occur between catalog publications. **Spears**[®] **On-line Catalog** can be downloaded to your personal computer for added convenience at www.spearsmfg.com

In-House Technical Service Department Professional Problem Solving Assistance for Product Use and Application

Product Seminars/Training/Certification Conveniently Arranged for Distributors • Contractors • Engineers Specification Aids Product Data Sheets • Engineering Specifications • Dimensional Data

Piping System Layout Software Autocad Program for System Layout and Product Selection

Visit our website at: WWW.Spearsmfg.com All Products in this Catalog are Made by Spears® Manufacturing Company in the U.S.A.

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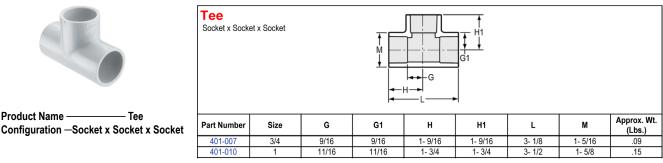
See Spears® Regional Distribution Centers on back cover



Spears[®] Engineering Sourcebook contains Weight & Dimensions, Technical Specifications, Installation Instructions and System Overview for a variety of Spears[®] products. Visit Parts.Spearsmfg.com Website for Weigths & Dimensions updated daily. Contact Spears[®] for any information not found.

Understanding Configuration Information

Fitting Configuration Illustrations are accompanied by the product's name and a configuration description of the fitting outlet connections. Illustrations are general representations of the fittings in the group, but may not be an exact depiction of all configurations listed. As with the nominal size designations, only one description is given when all outlets are the same. Reducing sizes list run configuration x branch configuration.



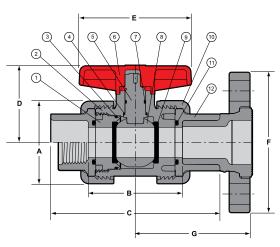
Injection Molded Dimension References:

- G = (LAYING LENGTH) Intersection of center lines to bottom of socket/thread; 90° elbows, tees, crosses; ± 1/32 inch.
 H = Intersection of center lines to face of fitting; 90° elbows tees,
- crosses; $\pm 1/32$ inch.
- J = Intersection of center lines to bottom of socket/thread; 45° elbows; ± 1/32 inch

L = Overall length of fittings; $\pm 1/16$ inch.

- M = Outside diameter of socket/thread hub; $\pm 1/16$ inch.
- **N** = Socket bottom to socket bottom; couplings; $\pm 1/16$ inch.
- **W** = Height of cap; $\pm 1/16$ inch.

Valve Configuration Illustrations are accompanied by the product's size and a configuration description of the Valve outlet connections, approx weight, operational torque and Cv values. Note: Valve Illustrations depict all configurations.



Replacement Parts

No.	Component	Qty.	Material								
1	Seal Carrier	1	PVC/CPVC								
2	Body	1	PVC/CPVC								
3	Carrier O-ring	1	EPDM/FKM								
4	Stem Bearing 1,2	1	PP								
5	Stem	1	PVC/CPVC								
6	Handle	1	PP								
7	Stem O-ring	1	EPDM/FKM								
8	Ball	1	PVC/CPVC								
9	Seat	2	PTFE/HDPE								
10	Union Nut	2	PVC/CPVC								
11	End Connector O-ring	2	EPDM/FKM								
12	End Connector	2	PVC/CPVC								
1· O-Ri	ng up to 2"										

1: O-Ring up to 2" 2: PTFE Thrust Bearing: 2-1/2", 3" & 4"

Dimensions, Weights, Operating Torque & Cv Values

Nominal Size	A	B		с		D	Е	F	G	Approx. Wt. (Lbs.)		Oper. ² Torque	Cv Values ³		
		Soc/Thd	Spigot	Socket	Thread	Spigot					PVC	CPVC	(in. lbs.)	Soc/Thd/Spig	Flanged
1/2	1-7/8	2-7/16	2-7/8	4-3/16	3-13/16	4-5/8	1-5/8	2-1/2	3-1/2	2-31/32	.33	.35	12	29	18
3/4	2-1/4	2-3/4	3-1/4	4-3/4	4-1/4	5-1/4	2	3	3-7/8	3-5/16	.51	.54	20	63	39
1	2-5/8	2-7/8	3-1/2	5-1/8	4-11/16	5-3/4	2-5/16	3-3/8	4-1/4	3-5/8	.71	.75	25	120	73
1-1/4	3-1/16	3-1/4	3-13/16	5-3/4	5-3/16	6-5/16	2-13/16	3-9/16	4-5/8	3-31/32	1.12	1.17	35	243	151
1-1/2	3-1/2	3-1/2	4	6-1/4	5-7/16	6-3/4	3-1/16	3-7/8	5	4-3/8	1.47	1.53	45	357	223
2	4-1/4	4-3/4	5-13/16	7-3/4	6-3/4	8-1/4	3-3/4	5	6	5-1/4	2.62	2.75	94	599	395
2-1/2	6-3/16	7	7-13/16	10-1/2	8-1/2	11-3/8	5-7/8	7-5/8	7	6	7.42	7.70	120	856	579
3	6-3/16	7	7-13/16	10-11/16	9-3/4	11-9/16	5-7/8	7-5/8	7-1/2	6-13/16	7.46	7.81	120	1416	974
4	7-5/8	7-1/2	8-1/4	12-1/16	10-1/4	12-3/4	6-3/4	6-3/4	9-1/16	7-1/2	12.35	12.48	336	2865	1952