

A collection of various industrial valves and pipe fittings, including a large gate valve with a blue handle, a smaller ball valve with a yellow handle, and various flanges and elbows. The components are made of polished metal and are arranged on a brown background.

SMITH-COOPER®
INTERNATIONAL

You get it All.



***It's not just a quality product
- it's a quality system***

Quality products are not enough. Because if you want every product to be a quality product, you need a quality system.

Every SCI product is manufactured to precise standards, and inspected twice. All materials and dimensions are carefully monitored and meet relevant standards, and the whole process complies with ISO 9001 Standards. Every product is 100% traceable, because we're 100% responsible.

Wherever we work - and we work all over the world - exactly the same higher quality standards and systems are used. Because SCI Quality Plus means our 50-year reputation for quality is built right in.



***The benchmark of
packaging***

Standardized carton sizes. Large wraparound labels. Packaging that's color coded by product line. And - outside of every box - a nice, clean picture of what's inside every box.

SCI's Pro Pak System is a big idea that makes it possible for you to cut costs and improve service, simply by making it easier. From shipping and handling to tracking and reordering. And, at the same time, you'll be using your valuable warehouse space much more efficiently.



All in one place.



***The best guarantee
you'll never need***

The SCI 5/50 Guarantee says we will replace any pipe, valve or fitting for up to a full five years, when properly installed and operated, if failure is due to defects in material or workmanship.

Smith-Cooper will even pay \$50 to the installing contractor to offset the cost of installation (please see the SCI Warranty at www.smithcooper.com for details).

We think that means we offer the highest quality pipe, valves and fittings available. Quality we stand behind for a full five years. Which makes it that much easier for you to offer your customers the same high standards of quality and service.

And that, in the end, is what we're all here for.



It's all about time.

We understand that time is money, which is why everything we do is designed to save you time. From our Quality Plus and Pro Pak systems to our 5/50 Guarantee, Smith-Cooper service adds value to each order you place.

With locations on the East and West coasts, Smith-Cooper also offers speedy delivery. Each order is packaged to the exacting standards you have come to expect from us, no matter where it ships. Since we pay more attention to you, you have time to pay more attention to your customers.



SMITH-COOPER®

INTERNATIONAL

STAINLESS STEEL

TABLE OF CONTENTS

<i>Sanitary Products.....</i>	<i>1-18</i>
Weld End Fittings.....	3-4
Clamp End Fittings.....	5-10
Gaskets.....	11
Tube Hangers.....	11
Sanitary Tubing.....	11
Tube Plate Flanges	11
Sanitary Valves	12-18
 <i>Instrumentation Products.....</i>	 <i>19-36</i>
Instrumentation Fittings.....	21-29
Instrumentation Tubing.....	30
Instrumentation Valves	31-35
 <i>Standard Weight 150# Fittings</i>	 <i>37-46</i>
Threaded.....	39-44
Socket Weld.....	45-46
 <i>Bar Stock Fittings.....</i>	 <i>47-52</i>
 <i>3000# Forged Fittings & Outlets</i>	 <i>53-64</i>
Threaded.....	55-59
Socket Weld.....	60-63
Outlets	64
 <i>Nipples</i>	 <i>65-68</i>
Sch 40 Welded.....	67
Sch 80 Seamless.....	68
Hex Nipples	67
King Nipples.....	68

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STAINLESS STEEL

TABLE OF CONTENTS CONT.

Flanges.....	69-84
150# ANSI Flanges.....	71-74
300# ANSI Flanges.....	75-78
600# ANSI Flanges.....	79-80
MSS Flanges.....	81-82
Plate Flanges.....	83-84
 Weld Fittings.....	 85-98
Schedule 10.....	87-91
Schedule 40.....	92-96
Stub Ends	97-98
 Pipe & Tubing	 99-106
Welded Pipe.....	101
Seamless Pipe.....	102
Instrumentation Tubing.....	103
Sanitary Tubing.....	103
Technical Information	104-105
 Valves	 107-118
Ball Valves	109-112
Instrumentation Valves	112-113
Wye Strainer	113
Sanitary Check Valve.....	113
Gate Valves	114
Globe Valves	115
Check Valves.....	116
Sanitary Butterfly Valve	117
 Warranty.....	 119

For the most current listing of SCI products, go to www.smithcooper.com



Sanitary Fittings & Tubing

Specifications

- Sanitary tubing is 3-A approved
- Stainless steel sanitary tubing dimensions and materials conform to ASTM A269/A270 and 3-A Approved
- Stainless steel plate flanges made from ASTM A240 (Plate) or cast in conformance with ASTM A351
- Independent lab verification that fittings meet applicable chemical & physical properties
- Material test reports available
- Manufacturing facility is ISO 9001:2008
- SCI logo, heat number & country of origin marked on every fitting

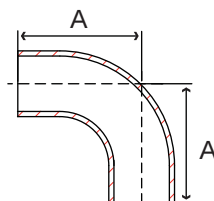


Fig. S77L2S4 & S77L2S6 – 90° Tube Bend (Long Radius)

Tube OD in	Part Number		A in	Packing		Weight lb
	304	316/L		Inner	Master	
1	S77L2S4010	S77L2S6010	2.06	30	60	0.1
1-1/2	S77L2S4014	S77L2S6014	2.94	8	16	0.4
2	S77L2S4020	S77L2S6020	4.06	3	6	0.7
2-1/2	S77L2S4024	S77L2S6024	5.19	-	5	1.2
3	S77L2S4030	S77L2S6030	6.31	-	2	1.8
4	S77L2S4040	S77L2S6040	8.31	-	1	4.2
6	S77L2S4060	S77L2S6060	12.46	-	1	5.75

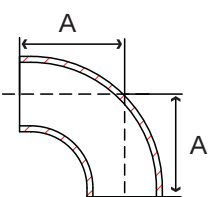


Fig. S772WCL4 & S772WCL6 – 90° Tube Bend (Short Radius)

Tube OD in	Part Number		A in	Packing		Weight lb
	304	316/L		Inner	Master	
1/2	-	S772WCL6004	1.13	200	800	0.05
3/4	-	S772WCL6006	1.13	100	400	0.07
1	S772WCL4010	S772WCL6010	1.50	24	96	0.1
1-1/2	S772WCL4014	S772WCL6014	2.25	6	24	0.3
2	S772WCL4020	S772WCL6020	3.00	6	12	0.5
2-1/2	S772WCL4024	S772WCL6024	3.75	-	5	0.8
3	S772WCL4030	S772WCL6030	4.50	-	4	1.2
4	S772WCL4040	S772WCL6040	6.00	-	2	2.6
6	S772WCL4060	S772WCL6060	9.00	-	1	2.0

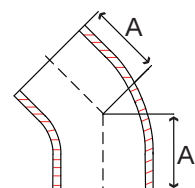


Fig. S77L2KS4 & S77L2KS6 – 45° Tube Bend (Long Radius)

Tube OD in	Part Number		A in	Packing		Weight lb
	304	316/L		Inner	Master	
1/2	-	S77L2KS6004	2.25	-	1	0.1
3/4	-	S77L2KS6006	2.25	-	1	0.2
1	S77L2KS4010	S77L2KS6010	1.18	30	60	0.1
1-1/2	S77L2KS4014	S77L2KS6014	1.62	18	36	0.2
2	S77L2KS4020	S77L2KS6020	2.31	4	8	0.5
2-1/2	S77L2KS4024	S77L2KS6024	3.00	2	4	0.8
3	S77L2KS4030	S77L2KS6030	3.68	2	4	1.2
4	S77L2KS4040	S77L2KS6040	4.81	-	2	2.5
6	-	S77L2KS6060	6.22	-	1	4.0

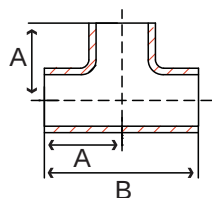


Fig. S77L7W4 & S77L7W6 – Long Tee

Tube OD in	Part Number		A in	B in	Packing		Weight lb
	304	316/L			Inner	Master	
1/2	-	S77L7W6004	1.87	3.75	40	160	0.1
3/4	-	S77L7W6006	2.00	4.00	15	60	0.2
1	S77L7W4010	S77L7W6010	1.87	3.75	12	48	0.1
1-1/2	S77L7W4014	S77L7W6014	2.25	4.50	8	16	0.3
2	S77L7W4020	S77L7W6020	3.00	6.00	-	8	0.6
2-1/2	S77L7W4024	S77L7W6024	3.00	6.00	-	5	0.7
3	S77L7W4030	S77L7W6030	3.25	6.50	-	3	1.0
4	S77L7W4040	S77L7W6040	3.87	7.75	-	1	2.4
6	S77L7W4060	S77L7W6060	5.63	11.25	-	1	4.8

Dimensions may change at any time due to continuous product development.

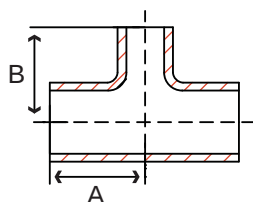


Fig. S777RW4 & S777RW6 Reducing Tee

Tube OD in	Part Number		A in	B in	Packing		Weight lb
	304	316/L			Inner	Master	
3/4 x 1/2	-	S777RW6006004	2.13	2.13	-	1	0.1
1 x 1/2	-	S777RW6010004	2.13	2.13	-	1	0.1
1 x 3/4	-	S777RW6010006	2.13	2.13	-	1	0.2
1-1/2 x 1/2	-	S777RW6014004	2.25	2.37	-	1	0.3
1-1/2 x 3/4	-	S777RW6014006	2.25	2.37	-	1	0.3
1-1/2 x 1	S777RW4014010	S777RW6014010	1.65	1.37	-	1	0.3
2 x 1/2	-	S777RW6020004	3.00	2.38	-	1	0.6
2 x 3/4	-	S777RW6020006	3.00	2.38	-	1	0.6
2 x 1	S777RW4020010	S777RW6020010	2.06	1.63	-	1	0.6
2 x 1-1/2	S777RW4020014	S777RW6020014	2.06	1.91	-	1	0.6
2-1/2 x 1-1/2	S777RW4024014	S777RW6024014	2.34	2.16	-	1	0.6
2-1/2 x 2	S777RW4024020	S777RW6024020	2.34	2.31	-	1	0.7
3 x 1-1/2	S777RW4030014	S777RW6030014	2.59	2.41	-	1	1.0
3 x 2	S777RW4030020	S777RW6030020	2.59	2.56	-	1	1.0
3 x 2-1/2	S777RW4030024	S777RW6030024	2.59	2.59	-	1	1.0
4 x 1-1/2	S777RW4040014	S777RW6040014	3.44	2.91	-	1	2.4
4 x 2	S777RW4040020	S777RW6040020	3.44	3.06	-	1	2.4
4 x 2-1/2	S777RW4040024	S777RW6040024	3.44	3.09	-	1	2.4
4 x 3	S777RW4040030	S777RW6040030	3.44	3.09	-	1	2.4
6 x 3	S777RW4060030	S777RW6060030	6.30	4.87	-	1	4.8
6 x 4	S777RW4060040	S777RW6060040	6.30	4.87	-	1	4.8

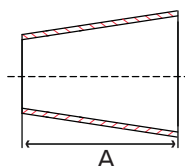


Fig. S77L31W4 & S77L31W6 – Concentric Reducer

Tube OD in	Part Number		A in	Packing		Weight lb
	304	316/L		Inner	Master	
3/4 x 1/2	-	S77L31W6006004	1.00	-	1	0.05
1 x 3/4	-	S77L31W6010006	2.00	-	1	0.5
1-1/2 x 1	S77L31W4014010	S77L31W6014010	2.00	-	1	0.1
2 x 1	S77L31W4020010	S77L31W6020010	2.00	-	1	0.5
2 x 1-1/2	S77L31W4020014	S77L31W6020014	2.00	10	40	0.3
2-1/2 x 1-1/2	S77L31W4024014	S77L31W6024014	4.00	-	1	0.3
	S77L31W4024020	S77L31W6024020	2.00	10	40	0.2
3 x 1	S77L31W4030010	S77L31W4030010	8.00	-	1	0.8
3 x 1-1/2	S77L31W4030014	S77L31W6030014	6.00	1	4	0.8
3 x 2	S77L31W4030020	S77L31W6030020	4.00	-	1	0.6
3 x 2-1/2	S77L31W4030024	S77L31W6030024	2.00	4	16	0.3
4 x 1-1/2	S77L31W4040014	S77L31W6040014	10.00	-	1	1.9
4 x 2	S77L31W4040020	S77L31W6040020	8.00	2	4	1.4
4 x 2-1/2	S77L31W4040024	S77L31W6040024	6.00	2	4	1.1
4 x 3	S77L31W4040030	S77L31W6040030	4.00	2	4	0.6
6 x 3	S77L31W4060030	S77L31W6060030	5.50	-	1	1.6
6 x 4	S77L31W4060040	S77L31W6060040	5.50	-	1	1.2

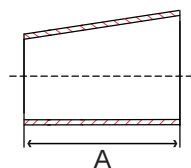


Fig. S77L32W4 & S77L32W6 – Eccentric Reducer

Tube OD in	Part Number		A in	Packing		Weight lb
	304	316/L		Inner	Master	
1-1/2 x 1	S77L32W4014010	S77L32W6014010	2.50	10	40	0.1
2 x 1-1/2	S77L32W4020014	S77L32W6020014	2.00	10	40	0.4
2-1/2 x 1-1/2	S77L32W4024014	S77L32W6024014	4.00	10	40	0.3
2-1/2 x 2	S77L32W4024020	S77L32W6024020	2.00	5	20	0.3
3 x 1	S7732W4030010	S7732W6030010	8.00	-	1	0.8
3 x 1-1/2	S77L32W4030014	S77L32W6030014	6.00	1	4	0.8
3 x 2-1/2	S77L32W4030024	S77L32W6030024	2.00	4	16	0.4
4 x 1-1/2	S77L32W4040014	S77L32W6040014	10.00	4	16	1.8
4 x 2	S77L32W4040020	S77L32W6040020	8.00	2	4	1.5
4 x 2-1/2	S77L32W4040024	S77L32W6040024	6.00	2	4	1.3
4 x 3	S77L32W4040030	S77L32W6040030	4.00	2	4	0.9
6 x 3	S77L32W4060030	S77L32W6060030	5.50	-	1	1.6
6 x 4	S77L32W4060040	S77L32W6060040	5.50	-	1	1.2

Dimensions may change at any time due to continuous product development.

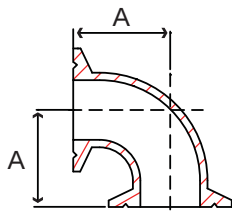


Fig. S772CMP4 & S772CMP6 – 90° Elbow

Tube OD in	Part Number		A in	Packing		Weight lb
	304	316/L		Inner	Master	
1/2	-	S772CMP6004	1.62	25	100	0.2
3/4	-	S772CMP6006	1.62	25	100	0.2
1	S772CMP4010	S772CMP6010	2.00	14	28	0.3
1-1/2	S772CMP4014	S772CMP6014	2.75	8	16	0.4
2	S772CMP4020	S772CMP6020	3.50	4	8	0.8
2-1/2	S772CMP4024	S772CMP6024	4.25	2	4	1.0
3	S772CMP4030	S772CMP6030	5.00	-	4	2.0
4	S772CMP4040	S772CMP6040	6.62	-	1	3.6
6	S772CMP4060	S772CMP6060	10.00	-	1	3.4

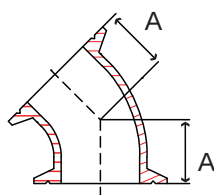


Fig. S772KMP4 & S772KMP6 – 45° Elbow

Tube OD in	Part Number		A in	Packing		Weight lb
	304	316/L		Inner	Master	
1/2	-	S772KMP6004	0.97	-	1	0.2
3/4	-	S772KMP6006	0.97	-	1	0.2
1	S772KMP4010	S772KMP6010	1.12	-	1	0.2
1-1/2	S772KMP4014	S772KMP6014	1.43	-	1	0.3
2	S772KMP4020	S772KMP6020	1.75	-	1	0.5
2-1/2	S772KMP4024	S772KMP6024	2.06	-	1	0.6
3	S772KMP4030	S772KMP6030	2.37	-	1	1.2
4	S772KMP4040	S772KMP6040	3.12	-	1	2.2

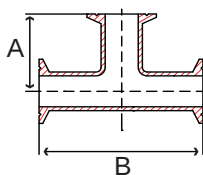


Fig. S777MP4 & S777MP6 – Tee

Tube OD in	Part Number		A in	B in	Packing		Weight lb
	304	316/L			Inner	Master	
1/2	-	S777MP6004	2.37	4.75	20	40	0.3
3/4	-	S777MP6006	2.50	5.00	20	40	0.4
1	S777MP4010	S777MP6010	2.37	4.75	6	12	0.3
1-1/2	S777MP4014	S777MP6014	2.75	5.50	4	8	0.4
2	S777MP4020	S777MP6020	3.50	7.00	-	4	0.8
2-1/2	S777MP4024	S777MP6024	3.50	7.00	-	3	1.0
3	S777MP4030	S777MP6030	3.75	7.50	-	1	2.0
4	S777MP4040	S777MP6040	4.50	9.00	-	1	3.6
6	S777MP4060	S777MP6060	6.50	13.00	-	1	6.9

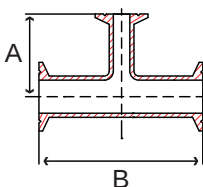


Fig. S777RMP4 & S777RMP6 – Reducing Tee

Tube OD in	Part Number		A in	B in	Packing		Weight lb
	304	316/L			Inner	Master	
1 x 1/2	-	S777RMP6010004	2.62	5.25	-	1	0.5
1 x 3/4	-	S777RMP6010006	2.62	5.25	-	1	0.5
1-1/2 x 1	S777RMP4014010	S777RMP6014010	2.87	5.75	-	1	0.7
2 x 1	S777RMP4020010	S777RMP6020010	2.12	5.12	-	1	1.1
2 x 1-1/2	S777RMP4020014	S777RMP6020014	2.40	5.12	-	1	1.1
2-1/2 x 1-1/2	S777RMP4024014	S777RMP6024014	3.25	7.00	-	1	1.3
2-1/2 x 2	S777RMP4024020	S777RMP6024020	2.81	5.69	-	1	1.4
3 x 1-1/2	S777RMP4030014	S777RMP6030014	2.90	6.19	-	1	1.7
3 x 2	S777RMP4030020	S777RMP6030020	3.06	6.19	-	1	1.7
3 x 2-1/2	S777RMP4030024	S777RMP6030024	3.09	6.19	-	1	1.8
4 x 1-1/2	S777RMP4040014	S777RMP6040014	3.40	8.12	-	1	3.2
4 x 2	S777RMP4040020	S777RMP6040020	3.56	8.12	-	1	3.2
4 x 2-1/2	S777RMP4040024	S777RMP6040024	3.59	8.12	-	1	3.5
4 x 3	S777RMP4040030	S777RMP6040030	3.66	8.12	-	1	3.5

Dimensions may change at any time due to continuous product development.

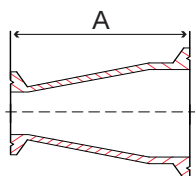


Fig. S773114MP4 & S773114MP6 – Concentric Reducer

Tube OD in	Part Number		A in	Packing		Weight lb
	304	316/L		Inner	Master	
1 x 1/2		S773114MP610004	2.00	-	1	0.3
1 x 3/4	-	S773114MP610006	2.00	12	48	0.3
1-1/2 x 1	S773114MP414010	S773114MP614010	3.00	-	1	0.3
2 x 1	S773114MP420010	S773114MP620010	5.00	8	32	0.5
2 x 1-1/2	S773114MP420014	S773114MP620014	3.00	4	16	0.4
2-1/2 x 2	S773114MP424020	S773114MP624020	5.00	2	8	0.6
3 x 1-1/2	S773114MP430014	S773114MP630014	7.00	2	4	1.2
3 x 2	S773114MP430020	S773114MP630020	5.00	1	4	1.0
3 x 2-1/2	S773114MP430024	S773114MP630024	3.00	2	8	0.7
4 x 2	S773114MP440020	S773114MP640020	9.12	1	3	3.0
4 x 2-1/2	S773114MP440024	S773114MP640024	7.12	1	3	2.7
4 x 3	S773114MP440030	S773114MP640030	5.12	1	4	3.0

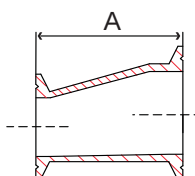


Fig. S773214MP4 & S773214MP6 – Eccentric Reducer

Tube OD in	Part Number		A in	Packing		Weight lb
	304	316/L		Inner	Master	
2 x 1	S773214MP420010	S773214MP620010	5.00	4	16	0.4
2 x 1-1/2	S773214MP420014	S773214MP620014	3.00	4	16	0.4
2-1/2 x 1-1/2	S773214MP424014	S773214MP624014	5.00	2	8	0.5
2-1/2 x 2	S773214MP424020	S773214MP624020	3.00	2	8	0.5
3 x 1-1/2	S773214MP430014	S773214MP630014	7.00	2	4	1.2
3 x 2	S773214MP430024	S773214MP630020	5.00	4	8	1.0
3 x 2-1/2	S773214MP430024	S773214MP630024	3.00	2	8	0.7
4 x 2	S773214MP440020	S773214MP640020	9.12	1	3	3.0
4 x 2-1/2	S773214MP440024	S773214MP640024	7.12	1	3	2.7
4 x 3	S773214MP440030	S773214MP640030	5.12	1	4	3.0

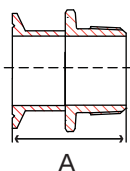


Fig. S7721MP4 & S7721MP6 – Male Adapter

Tube OD in	Part Number		A in	Packing		Weight lb
	304	316/L		Inner	Master	
1 x 3/4	S7721MP4010006	S7721MP6010006	2.19	-	1	0.8
1 x 1	S7721MP4010010	S7721MP6010010	2.25	-	1	0.8
1-1/2 x 1	S7721MP4014010	S7721MP6014010	2.44	-	1	0.8
1-1/2 x 1-1/2	S7721MP4014014	S7721MP6014014	2.25	8	32	0.8
1-1/2 x 2	S7721MP4014020	S7721MP6014020	2.62	-	1	1.6
2 x 2	S7721MP4020020	S7721MP6020020	2.64	3	12	1.4
2 x 1-1/2	S7721MP4020014	S7721MP6020014	2.63	2	8	1.0
3 x 1-1/2	S7721MP4030014	S7721MP6030014	3.00	-	1	2.3
3 x 2	S7721MP4030020	S7721MP6030020	3.00	-	1	2.3
3 x 2-1/2	S7721MP4030024	S7721MP6030024	3.00	-	1	2.4
3 x 3	S7721MP4030030	S7721MP6030030	3.00	-	1	2.4
4 x 3	S7721MP4040030	S7721MP6040030	3.81	-	1	3.4
4 x 4	S7721MP4040040	S7721MP6040040	3.16	-	1	3.5

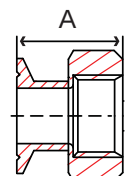


Fig. S7722MP4 & S7722MP6 – Female Adapter

Tube OD in	Part Number		A in	Packing		Weight lb
	304	316/L		Inner	Master	
1 x 3/4	S7722MP4010006	S7722MP6010006	1.63	-	1	0.6
1 x 1	S7722MP4010010	S7722MP6010010	1.63	-	1	0.7
1-1/2 x 1	S7722MP4014010	S7722MP6014010	2.25	-	1	1.0
1-1/2 x 1-1/2	S7722MP4014014	S7722MP6014014	2.25	8	32	0.8
1-1/2 x 2	S7722MP4014020	S7722MP6014020	2.25	-	1	1.0
2 x 1-1/2	S7722MP4020014	S7722MP6020014	2.35	2	8	0.8
2 x 2	S7722MP4020020	S7722MP6020020	2.40	8	32	1.3
3 x 1-1/2	S7722MP4030014	S7722MP6030014	2.19	-	1	2.5
3 x 2	S7722MP4030020	S7722MP6030020	2.19	-	1	2.6
3 x 2-1/2	S7722MP4030024	S7722MP6030024	2.19	-	1	2.6
3 x 3	S7722MP4030030	S7722MP6030030	2.19	-	1	2.7
4 x 3	S7722MP4040030	S7722MP6040030	2.19	-	1	5.0
4 x 4	S7722MP4040040	S7722MP6040040	3.65	-	1	5.0

Dimensions may change at any time due to continuous product development.

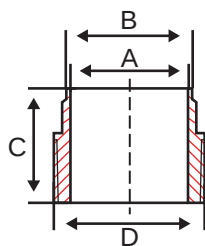


Fig. S7719WB4 - Weld x Male NPT Adapter

Tube OD in	Part Number 304	A in	B in	C in	D in	Packing		Weight lb
						Inner	Master	
1	S7719WB4010	0.87	1.00	1.75	1.00	-	1	0.2
1-1/2	S7719WB4014	1.37	1.50	1.75	1.50	-	1	0.2
2	S7719WB4020	1.87	2.00	1.81	2.00	-	1	0.3
2-1/2	S7719WB4024	2.37	2.50	2.31	2.50	-	1	1.0
3	S7719WB4030	2.87	3.00	2.50	3.00	-	1	1.7
4	S7719WB4040	3.83	4.00	2.56	4.00	-	1	2.5

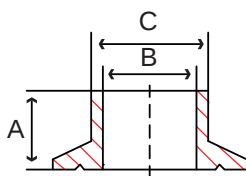


Fig. S7714WMP4 & S7714WMP6 - Short-Weld Ferrule

Tube OD in	Part Number		A in	B in	C in	Packing		Weight lb
	304	316/L				Inner	Master	
1/2	-	S7714WMP6004	0.50	0.37	0.50	-	1	0.03
3/4	-	S7714WMP6006	0.50	0.62	0.75	-	1	0.03
1	S7714WMP4010	S7714WMP6010	0.50	0.87	1.00	45	180	0.1
1-1/2	S7714WMP4014	S7714WMP6014	0.50	1.37	1.50	40	160	0.1
2	S7714WMP4020	S7714WMP6020	0.50	1.87	2.00	20	80	0.1
2-1/2	S7714WMP4024	S7714WMP6024	0.50	2.37	2.50	15	60	0.1
3	S7714WMP4030	S7714WMP6030	0.50	2.87	3.00	10	40	0.2
4	S7714WMP4040	S7714WMP6040	0.62	3.83	4.00	10	20	0.3

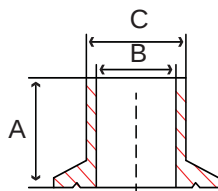


Fig. S77L14AM74 & S77L14AM76 - Long-Weld Ferrule

Tube OD in	Part Number		A in	B in	C in	Packing		Weight lb
	304	316/L				Inner	Master	
1/2	-	S77L14AM76004	1.12	0.37	0.50	-	1	0.05
3/4	-	S77L14AM76006	1.12	0.62	0.75	-	1	0.08
1	S77L14AM74010	S77L14AM76010	1.12	0.87	1.00	20	80	0.1
1-1/2	S77L14AM74014	S77L14AM76014	1.12	1.37	1.50	18	72	0.1
2	S77L14AM74020	S77L14AM76020	1.12	1.87	2.00	10	40	0.2
2-1/2	S77L14AM74024	S77L14AM76024	1.12	2.37	2.50	6	24	0.2
3	S77L14AM74030	S77L14AM76030	1.12	2.87	3.00	5	20	0.3
4	S77L14AM74040	S77L14AM76040	1.12	3.83	4.00	6	12	0.5
6	S77L14AM74060	-	1.12	5.78	6.00	-	1	1.1
8	S77L14AM74080	-	1.12	7.78	8.00	-	1	1.8

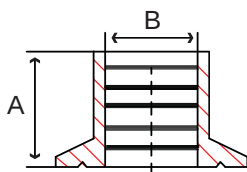


Fig. S7714RMP4 & S7714RMP6 - Recessless Ferrule (Roll-On)

Tube OD in	Part Number		A in	B in	Packing		Weight lb
	304	316/L			Inner	Master	
1	S7714RMP4010	S7714RMP6010	0.75	1.00	30	120	0.1
1-1/2	S7714RMP4014	S7714RMP6014	1.12	1.50	20	80	0.1
2	S7714RMP4020	S7714RMP6020	1.31	2.00	8	32	0.2
2-1/2	S7714RMP4024	S7714RMP6024	1.37	2.50	5	20	0.3
3	S7714RMP4030	S7714RMP6030	1.43	3.00	4	16	0.4
4	S7714RMP4040	S7714RMP6040	1.50	4.00	4	8	0.7

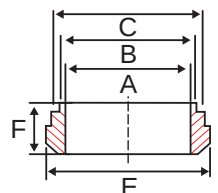


Fig. S7714PRF4 - Short Plain Bevel Seat Ferrule

Tube OD in	Part Number 304	A in	B in	C in	E in	F in	Packing		Weight lb
							Inner	Master	
1-1/2	S7714PRF4014	1.37	1.50	1.67	1.84	0.72	-	1	0.2
2	S7714PRF4020	1.87	2.00	2.19	2.37	0.75	-	1	0.3
3	S7714PRF4030	2.87	3.00	3.22	3.43	0.90	-	1	0.5

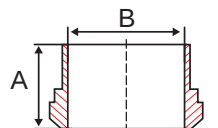


Fig. S7714A4 - Long Plain Bevel Seat Ferrule

Tube OD in	Part Number 304	A in	B in	Packing		Weight lb
				Inner	Master	
1-1/2	S7714A4014	1.50	1.37	-	1	0.3
2	S7714A4020	1.50	1.87	-	1	0.4
3	S7714A4030	1.75	2.87	-	1	0.6

Dimensions may change at any time due to continuous product development.

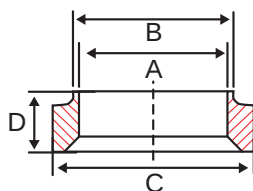


Fig. S7715TRF4 - Short Threaded Bevel Seat Ferrule

Tube OD in	Part Number 304	A in	B in	C in	D in	Packing		Weight lb
						Inner	Master	
1-1/2	S7715TRF4014	1.37	1.50	2.00	0.72	-	1	0.2
2	S7715TRF4020	1.87	2.00	2.50	0.75	-	1	0.3
3	S7715TRF4030	2.87	3.00	3.50	0.90	-	1	0.7

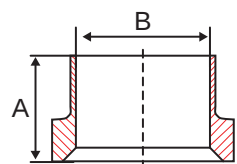


Fig. S7715A4 - Long Thread Bevel Seat Ferrule

Tube OD in	Part Number 304	A in	B in	Packing		Weight lb
				Inner	Master	
1-1/2	S7715A4014	1.50	1.37	-	1	0.3
2	S7715A4020	1.50	1.87	-	1	0.4
3	S7715A4030	1.75	2.87	-	1	0.8

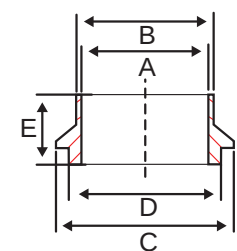


Fig. S7714WI4 - Male I-line Short Weld Ferrule

Tube OD in	Part Number 304	A in	B in	C in	D in	E in	Packing		Weight lb
							Inner	Master	
1-1/2	S7714WI4014	1.37	1.51	1.74	1.99	0.94	-	1	0.2
2	S7714WI4020	1.87	2.01	2.24	2.64	1.03	-	1	0.3
3	S7714WI4030	2.87	3.01	3.30	3.87	1.22	-	1	0.7

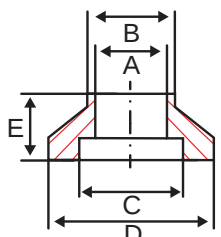


Fig. S7715WI4 - Female I-line Short Weld Ferrule

Tube OD in	Part Number 304	A in	B in	C in	D in	E in	Packing		Weight lb
							Inner	Master	
1-1/2	S7715WI4014	1.37	1.51	1.76	1.99	0.94	-	1	0.2
2	S7715WI4020	1.87	2.01	2.26	2.64	1.03	-	1	0.4
3	S7715WI4030	2.87	3.01	3.31	3.87	1.22	-	1	0.7

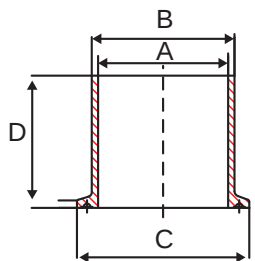


Fig. S7714WLMP4 - Tank Welding Ferrules (light duty)

Tube OD in	Part Number 304	A in	B in	C in	D in	Packing		Weight lb
						Inner	Master	
1	S7714WLMP4010	1.37	1.68	1.99	3.00	-	1	0.3
1-1/2	S7714WLMP4014	1.87	2.19	2.52	3.00	-	1	0.4
2	S7714WLMP4020	2.87	3.22	3.58	3.00	-	1	0.6

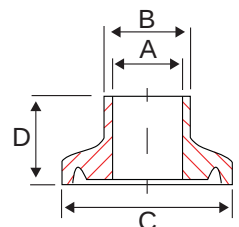


Fig. S7714MPW6 - Heavy Tank Weld Ferrule

Tube OD in	Part Number 316/L	A in	B in	C in	D in	Packing		Weight lb
						Inner	Master	
1	S7714MPW6010	1.37	1.68	1.99	1.625	-	1	0.3
1-1/2	S7714MPW6014	1.87	2.19	2.52	1.625	-	1	0.4
2	S7714MPW6020	2.87	3.22	3.58	1.75	-	1	0.6

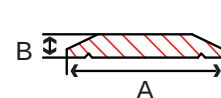


Fig. S7716AMP4 & S7716AMP6 - Solid End Cap

Tube OD in	Part Number		A in	B in	Packing		Weight lb
	304	316/L			Inner	Master	
1/2 & 3/4	-	S7716AMP6006	0.98	0.18	70	280	0.03
1 & 1-1/2	S7716AMP4014	S7716AMP6014	1.98	0.25	70	280	0.1
2	S7716AMP4020	S7716AMP6020	2.51	0.25	30	120	0.3
2-1/2	S7716AMP4024	S7716AMP6024	3.04	0.25	20	80	0.4
3	S7716AMP4030	S7716AMP6030	3.57	0.25	10	40	0.9
4	S7716AMP4040	S7716AMP6040	4.68	0.31	8	16	1.2

Dimensions may change at any time due to continuous product development.

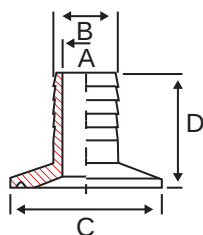


Fig. S7714MPHR4 - Rubber Hose Adapter

Tube OD in	Part Number 304	A in	B in	C in	D in	Packing		Weight lb
						Inner	Master	
1	S7714MPHR4010	0.81	1.00	1.99	1.69	-	1	0.2
1-1/2	S7714MPHR4014	1.31	1.50	1.99	1.69	-	1	0.2
2	S7714MPHR4020	1.81	2.00	2.52	2.31	-	1	0.4

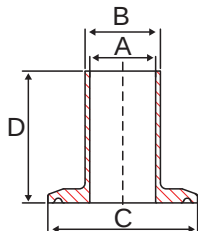


Fig. S7714MPHT6 - Tygon® Hose Adapter

Tube OD in	Part Number 316L	A in	B in	C in	D in	Packing		Weight lb
						Inner	Master	
1	S7714MPHT6010	0.81	1.00	1.99	4.50	-	1	0.2
1-1/2	S7714MPHT6014	1.31	1.50	1.99	4.50	-	1	0.2
2	S7714MPHT6020	1.81	2.00	2.52	4.50	-	1	0.4

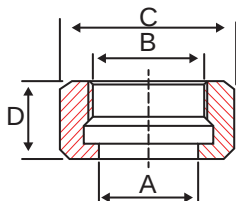


Fig. S7713H4 - Bevel Seat Hex Nut

Tube OD in	Part Number 304	A in	B in	C in	D in	Packing		Weight lb
						Inner	Master	
1-1/2	S7713H4014	1.70	2.00	2.40	0.97	-	1	0.5
2	S7713H4020	2.20	2.50	3.00	1.06	-	1	0.8
3	S7713H4030	3.25	3.62	4.19	1.28	-	1	1.9

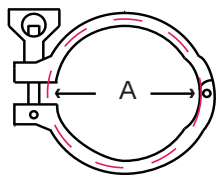


Fig. S7713MHHM4 - Heavy Duty Clamp

Tube OD in	Part Number 304	A in	Packing		Weight lb
			Inner	Master	
1/2 & 3/4	S7713MHHM4006	1.10	25	100	0.2
1 & 1-1/2	S7713MHHM4014	2.12	10	40	0.6
2	S7713MHHM4020	2.65	10	40	0.7
2-1/2	S7713MHHM4024	3.18	14	28	0.8
3	S7713MHHM4030	3.71	12	24	1.0
4	S7713MHHM4040	4.82	5	10	1.2
6	S7713MHHM4060	6.69	-	1	3.7
8	S7713MHHM4080	8.66	-	1	3.1

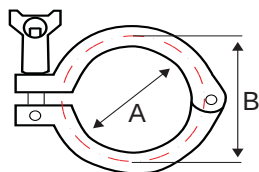


Fig. S7713IS4 - Heavy Duty I-line Clamp

Tube OD in	Part Number 304	A in	B in	Packing		Weight lb
				Inner	Master	
1-1/2	S7713IS4014	2.10	3.30	-	1	0.5
2	S7713IS4020	2.84	4.37	-	1	0.8
3	S7713IS4030	4.03	5.36	-	1	1.9

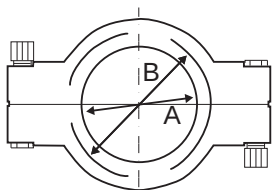


Fig. S7713MHP4 - High Pressure Clamp

Tube OD in	Part Number 304	A in	B in	Packing		Weight lb
				Inner	Master	
1-1/2	S7713MHP4014	1.71	2.05	-	1	1.0
2	S7713MHP4020	2.22	2.58	-	1	1.2
2.5	S7713MHP4024	2.74	3.11	-	1	1.3
3	S7713MHP4030	3.05	3.64	-	1	1.5
4	S7713MHP4040	4.29	4.04	-	1	1.8
6	S7713MHP4060	6.22	6.69	-	1	2.8

Dimensions may change at any time due to continuous product development.



Size: 1-1/2" to 4"
 Body: Machined 316 stainless steel
 Ends: 3A clamp ends
 Max Pressure: 150 psi at ambient temperature
 Seals: EPDM standard, silicon & viton available upon request
 Bolting: Stainless steel

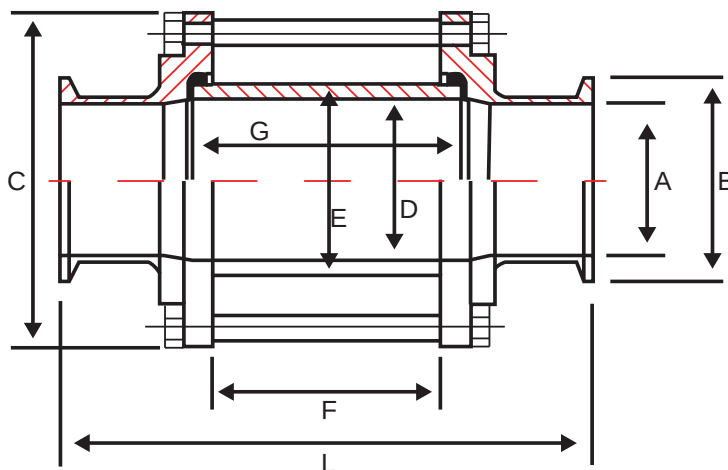


Fig. S7754MP6 - Sight-glass

Tube OD in	Part Number 316/L	A in	B in	C in	D in	E in	F in	G in	L in	Packing		Weight lb
										Inner	Master	
1-1/2	S7754MP6014	1.51	2.00	3.35	1.34	1.57	3.15	3.54	5.75	-	1	2.4
2	S7754MP6020	1.87	2.52	4.13	1.96	2.36	3.15	3.54	5.90	-	1	2.5
3	S7754MP6030	2.87	3.58	4.92	2.97	3.35	3.15	3.54	6.14	-	1	4.4
4	S7754MP6040	3.84	4.68	6.18	3.94	4.33	3.15	3.54	6.14	-	1	7.0

Dimensions may change at any time due to continuous product development.



EPDM & Buna-N



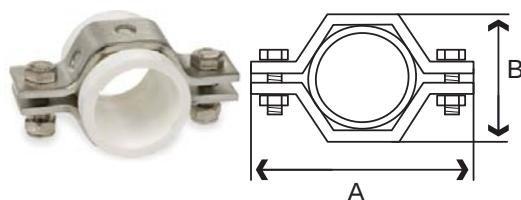
PTFE

Fig. S7740MPE, S7740MPG & S7740MPU – Gaskets

Size in	EPDM Gasket* Part Number -55°F to 275°F	PTFE Gasket Part Number -40°F to 450°F	BUNA-N Gasket Part Number -30°F to 200°F
1/2	S7740MPE004	S7740MPG004	S7740MPU004
3/4	S7740MPE006	S7740MPG006	S7740MPU006
1	S7740MPE010	S7740MPG010	S7740MPU010
1-1/2	S7740MPE014	S7740MPG014	S7740MPU014
2	S7740MPE020	S7740MPG020	S7740MPU020
2-1/2	S7740MPE024	S7740MPG024	S7740MPU024
3	S7740MPE030	S7740MPG030	S7740MPU030
4	S7740MPE040	S7740MPG040	S7740MPU040
6	S7740MPE060	S7740MPG060	S7740MPU060

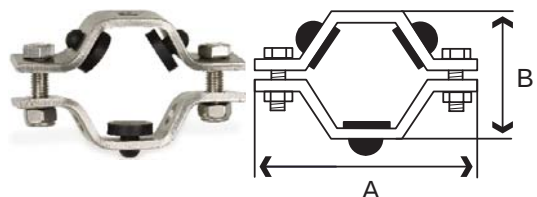
*Do not use with any hydrocarbons.

Fig. S77TH4P4 – Hanger with Sleeves



Tube OD in	Part Number	A in	B in	Weight lb
1	S77TH4P4010	3.42	1.45	0.4
1-1/2	S77TH4P4014	4.00	2.12	0.5
2	S77TH4P4020	4.50	2.50	0.5
2-1/2	S77TH4P4024	4.75	3.12	0.6
3	S77TH4P4030	5.50	3.75	0.7
4	S77TH4P4040	6.75	4.75	0.9
6	S77TH4P4060	8.00	5.75	1.9

Fig. S77TH4R4 – Hanger with Grommets



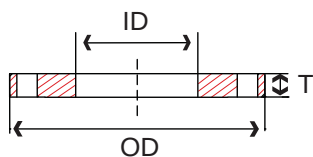
Tube OD in	Part Number	A in	B in	Weight lb
1	S77TH4R4010	3.42	1.45	0.4
1-1/2	S77TH4R4014	4.00	2.12	0.5
2	S77TH4R4020	4.50	2.50	0.5
2-1/2	S77TH4R4024	4.75	3.12	0.6
3	S77TH4R4030	5.50	3.75	0.7
4	S77TH4R4040	6.75	4.75	0.9
6	S77TH4R4060	8.00	5.75	1.9

Fig. S62TP4 & S62TP6 – Sanitary Tubing



Tube OD in	Part Number		Wall Thickness in	I.D. in	Tube Length ft	Weight lb / ft
	304	316/L				
1/2	S62TP46004	S62TP66004	0.065	0.370	20	0.3
3/4	S62TP46006	S62TP66006	0.065	0.620	20	0.5
1	S62TP46010	S62TP66010	0.065	0.870	20	0.6
1-1/2	S62TP46014	S62TP66014	0.065	1.370	20	0.9
2	S62TP46020	S62TP66020	0.065	1.870	20	1.3
2-1/2	S62TP46024	S62TP66024	0.065	2.370	20	1.6
3	S62TP46030	S62TP66030	0.065	2.870	20	2.0
4	S62TP48040	S62TP68040	0.083	3.834	20	3.4
6	S62TP49060	S62TP69060	0.109	5.782	20	5.3

Tube Plate Flanges



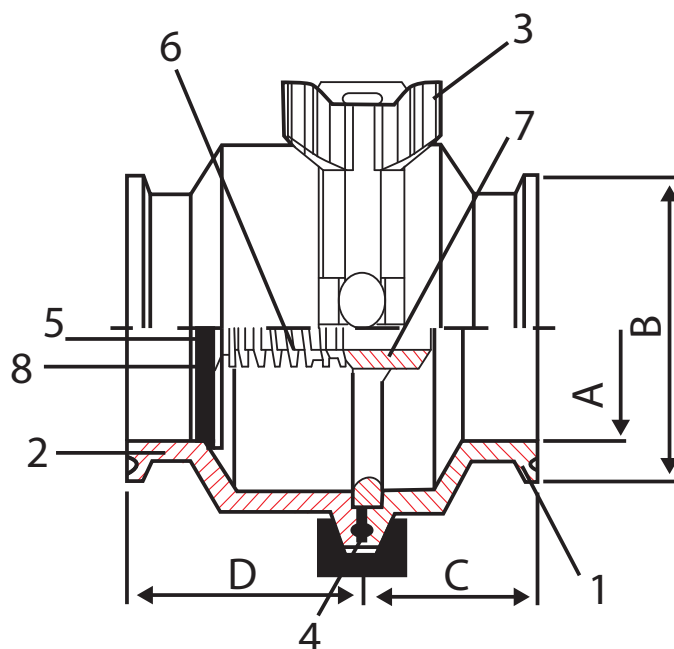
Tube OD Size in	Part Numbers		Thickness (T)	Outside Diameter (OD)	Inside Diameter (ID)	Number of Bolt Holes	Bolt Hole Diameter in	Bolt Circle in	Weight lb
	304	316							
1	S1414SOTP010	S1416SOTP010	0.500	4.25	1.06	4	0.625	3.12	1.7
1-1/2	S1414SOTP014	S1416SOTP014	0.500	5.00	1.56	4	0.625	3.88	2.3
2	S1414SOTP020	S1416SOTP020	0.500	6.00	2.06	4	0.75	4.75	3.2
2-1/2	S1414SOTP024	S1416SOTP024	0.500	7.00	2.56	4	0.75	5.50	4.5
3	S1414SOTP030	S1416SOTP030	0.500	7.50	3.06	4	0.75	6.00	4.8
4	S1414SOTP040	S1416SOTP040	0.500	9.00	4.06	8	0.75	7.50	6.5
6	S1414SOTP060	S1416SOTP060	0.500	11.00	6.06	8	0.875	9.50	8.2
8	S1414SOTP080	S1416SOTP080	0.500	13.50	8.06	8	0.875	11.75	11.8
10	S1414SOTP100	S1416SOTP100	0.500	16.00	10.06	12	1.00	14.25	14.7
12	S1414SOTP120	S1416SOTP120	0.500	19.00	12.06	12	1.00	17.00	21.4



Size: 1-1/2" to 4"
 Material: 316 stainless steel
 Ends: Clamp ends
 Max Pressure: 150 psi at ambient temperature

- All wetted parts approved for use in food processing
- All wetted parts polished to 180 grit
- Optional ends: butt weld, butt weld extended, and male threads

No.	Part Name	Material
1	Short Body	316 Stainless Steel
2	Long Body	316 Stainless Steel
3	Clamp	316 Stainless Steel
4	13 PG	316 Stainless Steel
5	Seal-Ring	EPDM
6	Spring	316 Stainless Steel
7	Flow Support Plate	316 Stainless Steel
8	Disc	316 Stainless Steel

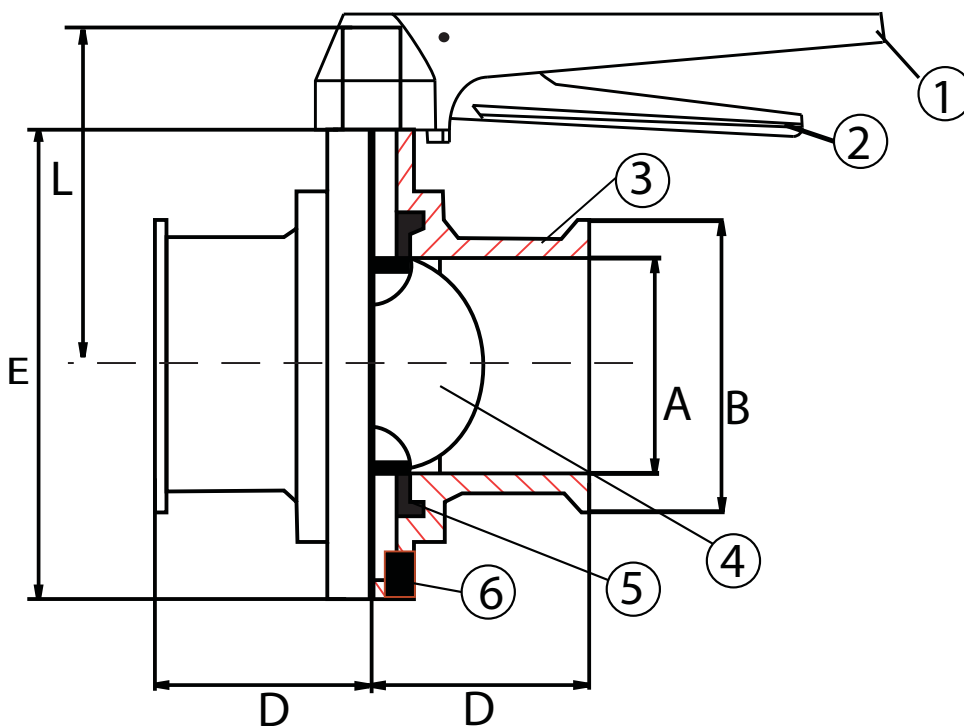


Nominal Tube Size in	Part Number	A in	B in	C in	D in	Cracking Pressure psi	Weight lb
1-1/2	S7745MP6014	1.37	1.99	1.42	1.89	1.6	2.6
2	S7745MP6020	1.87	2.52	1.42	1.89	0.6	3.1
3	S7745MP6030	2.87	3.58	1.42	1.89	0.8	5.2
4	S7745MP6040	3.84	4.69	1.85	2.13	0.9	10.4



Port: Tube Port
Size: 1" to 4"
Material: 304 Stainless Steel
Ends: Clamp Ends
Pressure: 150 PSI
Temperature: 200° F

- 304 stainless steel precision milled body
- Sharpe logo, material grade, size, heat number and country of origin engraved on each valve body
- Disc fully machined and polished
- Pull handle 4 position, blue 12 position handle, stainless steel 12 position handle
- Hygienic seating design
- Automation available upon request



No.	Part Name	Material
1	Handle	Plastic
2	Gripper	Stainless Steel
3	Body	304SS
4	Disc	304SS
5	Seat	EPDM
6	Bolt	304SS

Nominal Tube Size in	Part Number	A in	B in	D in	E in	L in
1	SV154ECC21010	0.87	1.99	1.75	3.11	2.40
1-1/2	SV154ECC21014	1.37	1.99	1.75	3.35	2.53
2	SV154ECC21020	1.87	2.52	1.87	4.13	2.93
2-1/2	SV154ECC21024	2.37	3.05	1.91	4.41	3.06
3	SV154ECC21030	2.84	3.58	2.03	4.92	3.34
4	SV154ECC21040	3.84	4.69	2.03	6.18	4.00

Part Number Listed is for 304 SS Body, EPDM Seat, Tri Clamp Ends, 25 RA Finish, and 12 Position Handle.
Other configurations available upon request



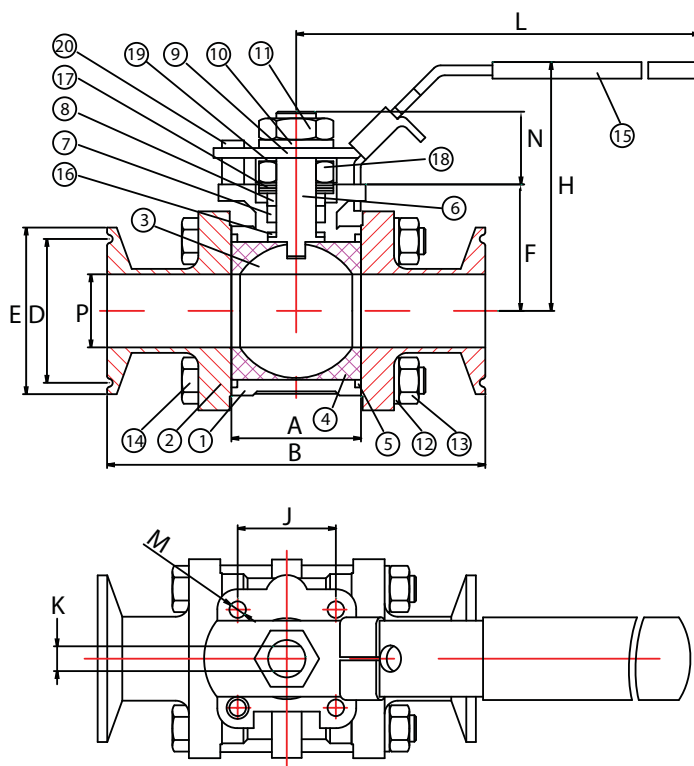
Port: Full Tube Port
 Size: 1/2" to 4"
 Material: 316 Stainless Steel
 Ends: Clamp Ends, Extended Butt Weld, Short Butt Weld

Pressure: 1000 PSI

Temperature: 450° F

- 3-Piece design
- High cycle stem design
- Integral ISO 5211 mounting pad
- Lockable handle lever or oval handle
- Hygienic seating design
- Live loaded stem packing
- Blow-out proof stem
- Cavity-Filled seats available

No.	Part Name	Material
1	Body	CF8M
2	End Cap	CF8M
3	Ball	316
4	Seats	TFM
5	Body Gasket	PTFE
6	Stem	316
7	Gland Packing	PTFE
8	Gland	Stainless Steel
9	Handle	Stainless Steel
10	Stem Washer	Stainless Steel
11	Stem Nut	Stainless Steel
12	Bolts Washer	Stainless Steel
13	Bolts Nut	Stainless Steel
14	Bolts	Stainless Steel
15	Cover	P.V.C.
16	Thrust Washer	PTFE
17	Belleville	Stainless Steel
18	Gland Nut	Stainless Steel
19	Lock Tab	Stainless Steel
20	Stop Pin	Stainless Steel



Nominal Tube Size in	Part Number	A in	B in	D in	E in	F in	H in	J in	K in	L in	M in	N in	P in
1/2	SVN6666MTCE004	0.96	3.50	0.75	0.98	1.14	2.44	1.00	0.22	4.92	M5	0.65	0.37
3/4	SVN6666MTCE006	1.05	4.00	0.75	0.98	1.20	2.50	1.00	0.22	4.92	M5	0.65	0.62
1	SVN6666MTCE010	1.54	4.50	1.71	2.00	1.50	2.96	1.16	0.30	5.71	M5	0.80	0.87
1-1/2	SVN6666MTCE014	2.13	5.50	1.71	2.00	1.91	3.38	1.39	0.34	7.48	M6	1.14	1.37
2	SVN6666MTCE020	2.65	6.25	2.2	2.52	2.24	3.77	1.39	0.34	7.48	M6	1.14	1.87
2-1/2	SVN6666MTCE024	3.20	6.50	3.04	3.05	3.32	5.87	1.95	0.55	9.84	M8	1.48	2.37
3	SVN6666MTCE030	3.97	10.50	3.28	3.57	3.78	6.37	1.98	0.55	9.84	M8	1.47	2.87
4	SVN6666MTCE040	4.74	12.50	4.34	4.68	4.58	7.36	2.83	0.75	11.33	M10	1.65	3.83

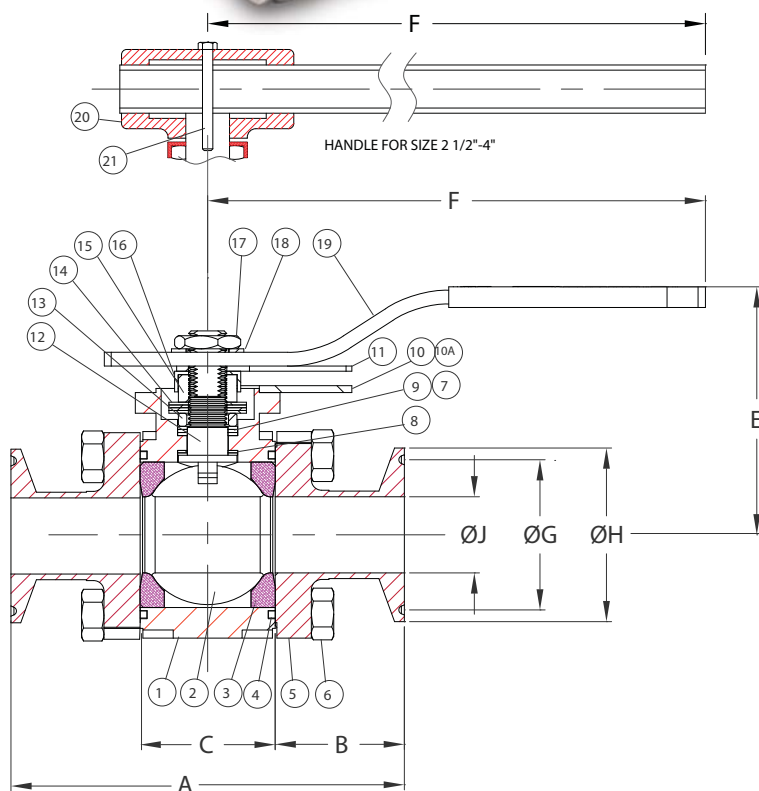
Part number listed is for configuration listed on this page with clamp ends.

A full listing of configurations can be found at www.sharpevalves.com



Port: Full Tube Port
Size: 1/2" to 4"
Material: 316L Stainless Steel
Ends: Tri-Clamp Ends, Extended Butt Weld, Short Butt Weld
Pressure: 1480 PSI
Temperature: 450° F

- 3- Piece design
- High cycle stem packing
- Encapsulated body bolts
- Integral ISO mounting pad
- Lockable, lever, extended or oval handle
- Hygienic seating design
- Blow-out proof stem
- Cavity-Filled seats available



No.	Part Name	Material
1	Body	CF3M
2	Ball	SS 316L
3	Seats	TFM
4	Body Seals	TFM
5	Tri-Clamp Ends	CF3M
6	Body Bolts	SS 316
7	Seal Protector	TFM
8	Thrust Washer	TFM
9	Stem Packing	TFM
10	Lower Lock Latch	Stainless Steel
10A	Lower Lock Bolt	Stainless Steel
11	Upper Lock Latch	Stainless Steel
12	Stem	SS 316L
13	Gland Packing	Stainless Steel
14	Belleville Washer	Stainless Steel
15	Packing Nut	Stainless Steel
16	Lock Tab	Stainless Steel
17	Stem Nut	Stainless Steel
18	Lock Washer	Stainless Steel
19	Handle	Stainless Steel
20	Wrench Block	Stainless Steel
21	Hex head Bolt	Stainless Steel

Nominal Tube Size in	Part Number	A in	B in	C in	E in	F in	G in	H in	J in
1/2	SV6666MTCE004	3.50	1.26	0.97	1.76	5.53	0.80	0.95	0.37
3/4	SV6666MTCE006	4.00	1.47	1.05	1.87	4.50	0.80	0.95	0.62
1	SV6666MTCE010	4.50	1.48	1.54	2.40	5.75	1.72	1.98	0.87
1-1/2	SV6666MTCE014	5.50	1.69	2.13	3.16	7.00	1.72	1.98	1.37
2	SV6666MTCE020	6.91	2.13	2.65	3.35	7.00	2.22	2.52	1.87
2-1/2	SV6666MTCE024	6.74	1.77	3.20	5.58	10.00	2.78	3.05	2.37
3	SV6666MTCE030	6.75	1.39	3.97	7.25	13.80	3.28	3.58	2.87
4	SV6666MTCE040	8.24	1.76	4.73	7.84	22.00	4.35	4.68	3.83

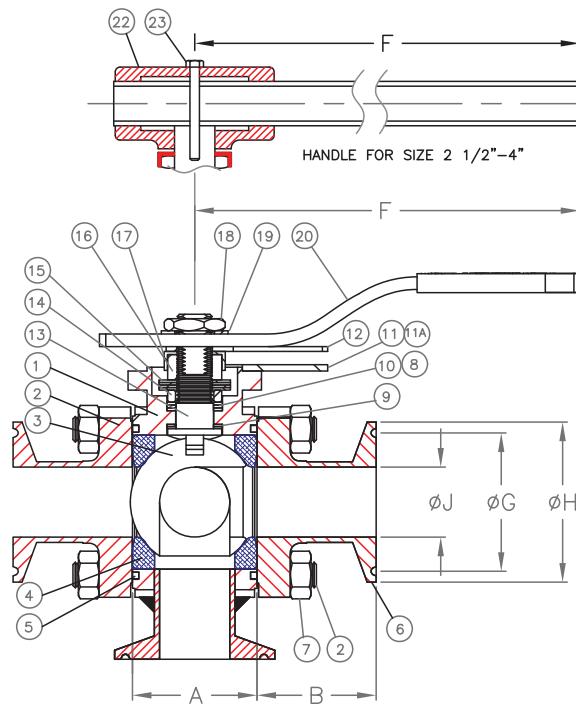
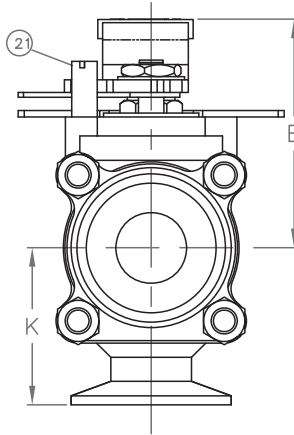
Part number listed is for configuration listed on this page with clamp ends. A full listing of configurations and flow plans can be found at www.sharpevalves.com



Port: Tube Full Port
 Size: 1/2" to 4"
 Material: 316L Stainless Steel
 Ends: Tri-Clamp Ends, Extended Butt Weld, Short Butt Weld
 Pressure: 1480 PSI
 Temperature: 450° F

- ASME/BPE - 2009 compliant
- 3- Piece design
- High cycle stem design
- Encapsulated body bolts
- Variety of seats, seals and aseptic end connections
- Integral mounting pad
- Lockable, lever, extended or oval handle
- All wetted parts polished to 14-18 RA
- Optional 8-10 RA electro polish
- Optional purge ports available

No.	Part Name	Material
1	Body	CF3M
2	Body Bolts	Stainless Steel
3	Ball	CF8M
4	Seats	PTFE
5	Body Seals	PTFE
6	Tri-Clamp End	CF3M
7	Body Nuts	CF8M
8	Seal Protector	PEEK
9	Thrust Washer	PEEK
10	Stem Packing	PTFE
11	Lower Lock Latch	Stainless Steel
11A	Lower Latch Bolt	Stainless Steel
12	Upper Latch Bolt	Stainless Steel
13	Stem	CF8M
14	Gland Packing	CF8M
15	Belleville Washer	Stainless Steel
16	Packing Nut	Stainless Steel
17	Lock Tab	Stainless Steel
18	Stem Nut	Stainless Steel
19	Lock Washer	Stainless Steel
20	Handle	Stainless Steel
21	Stop Bolt	Stainless Steel
22	Wrench Block	Stainless Steel
23	Hex Head Bolt	Stainless Steel



Nominal Tube Size	Part Number	A	B	E	F	G	H	J	K
in		in	in	in	in	in	in	in	in
1/2	SVD8866RTCEP11004	0.97	1.26	2.24	5.53	0.80	0.98	0.37	1.70
3/4	SVD8866RTCEP21006	1.05	1.47	2.24	4.50	0.80	0.98	0.62	1.80
1	SVD8866RTCEP21010	1.54	1.48	2.62	5.79	1.72	1.98	0.87	1.95
1-1/2	SVD8866RTCEP21014	2.13	1.69	3.21	7.00	1.72	1.98	1.37	2.30
2	SVD8866RTCEP21020	2.64	2.13	3.83	7.00	2.22	2.52	1.87	2.50
2-1/2	SVD8866RTCEP21024	3.20	1.77	5.94	8.74	2.78	3.05	2.37	2.65
3	SVD8866RTCEP21030	3.96	1.39	7.68	13.80	3.28	3.58	2.87	3.20
4	SVD8866RTCEP21040	4.73	1.76	8.27	13.80	4.35	4.68	3.83	3.60

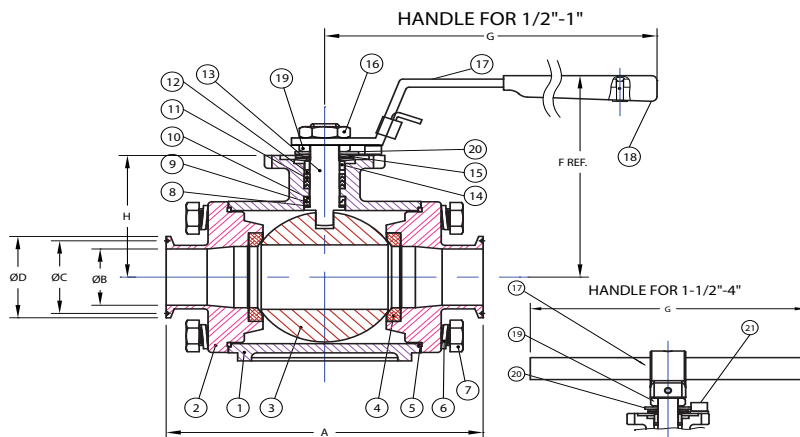
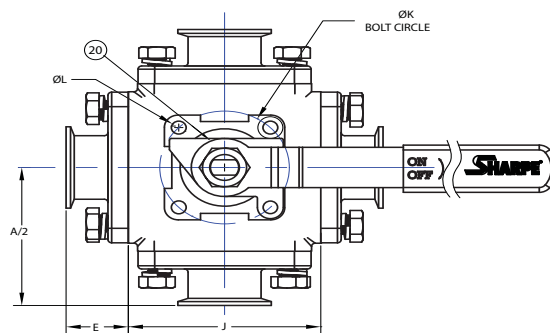
Part number listed is for configuration listed on this page with the addition of a L-Port 90° Turn Ball and 240 Grit Clamp Ends.
 A full listing of configurations and flow plans can be found at www.sharpevalves.com



Size: Full Port 1/2" to 4"
Material: 316 Stainless Steel
Ends: Tri-Clamp Ends, Extended Butt Weld, Short Butt Weld
Pressure: 600 PSI
Temperature: 450° F

- ASME B16.5
- ASME B16.11
- 4-Seat design
- Double stem seals; stem design
- Trunnion supported ball for 2" and larger
- ISO 5211 mounting pad
- T, L, and double L balls
- Live loaded stem packing
- Blow-out proof stem

No.	Part Name	Material
1	Body	CF8M
2	Cap	CF8M
3	Ball	CF8M
4	Seats	TFM/RTFE
5	Body Gasket	PTFE
6	Bolt Washer	Stainless Steel
7	Bolt	A2-70
8	Low Thrust Washer	50% SS Powder / 50% PTFE
9	Compression Ring	SS316
10	Upper Thrust Washer	TFM1600
11	V-Ring Stem Packing	PTFE
12	Thrust Washer	50% SS Powder / 50% PTFE
13	Anti-Static Stem	A276 Type 316
14	Gland	Stainless Steel
15	Belleville Washer	SS301
16	Bolt Nut	Stainless Steel
17	Handle	Stainless Steel
18	Handle Sleeve	Vinyl
19	Lock Saddle	Stainless Steel
20	Triangle Stopper	Stainless Steel
21	Stop Bolt	A2-70



Nominal Tube Size in	Part Number	A in	B in	C in	D in	E in	F in	G in	H in	J in	K in	L in
1/2	SV7766MT6G9004	5.39	0.37	0.80	0.98	1.45	3.23	4.50	1.66	2.48	1.65	0.24
3/4	SV7766MT6G9006	5.58	0.63	0.80	0.98	1.43	3.38	5.12	2.18	2.73	1.97	0.28
1	SV7766MT6G9010	6.20	0.87	1.71	1.99	1.52	3.86	5.12	2.18	3.15	1.97	0.28
1-1/2	SV7766MT6G9014	6.74	1.37	1.71	1.99	1.32	5.03	9.84	3.32	4.09	2.75	0.35
2	SV7766MT6G9020	7.30	1.87	1.87	2.52	1.50	5.43	9.84	3.57	4.29	4.29	0.35
2-1/2	SV7766MT6G9024	8.54	2.37	2.78	3.05	1.77	6.37	19.50	3.82	5.00	5.00	0.47
3	SV7766MT6G9030	9.54	2.87	3.28	3.58	1.75	7.23	19.50	4.25	6.03	6.03	0.47
4	SV7766MT6G9040	11.44	3.83	4.34	4.68	2.04	8.39	23.42	5.08	7.36	7.36	0.47

Part number listed is for configuration listed on this page with the addition of a L-Port 90° Turn Ball and 240 Grit Clamp Ends.
A full listing of configurations and flow plans can be found at www.sharpevalves.com



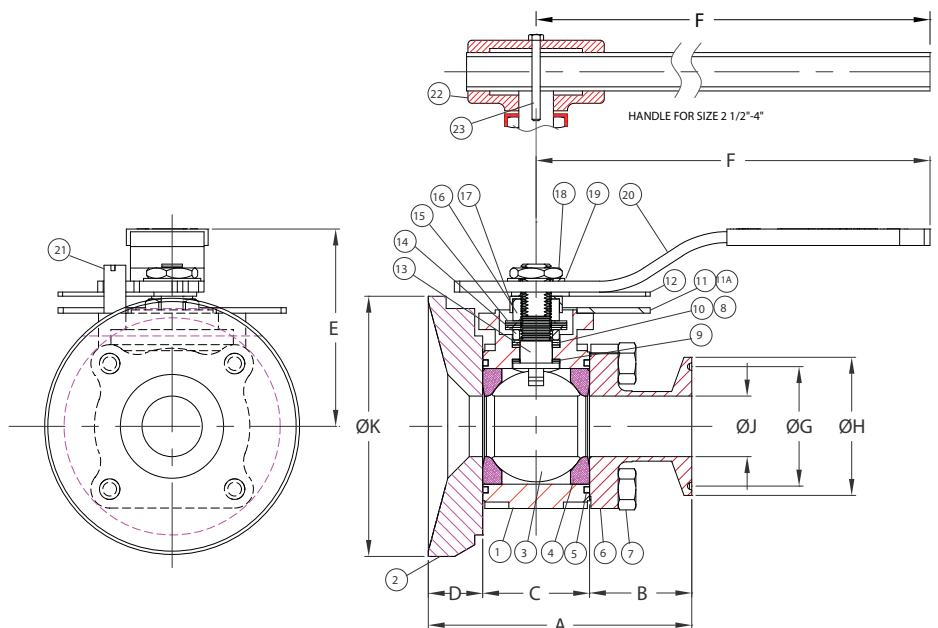
Port: Full Tube Port
 Size: 1/2" to 4"
 Material: 316L Stainless Steel
 Ends: Tri-Clamp Ends, Extended Butt Weld, Short Butt Weld

Pressure: 1480 PSI

Temperature: 450° F

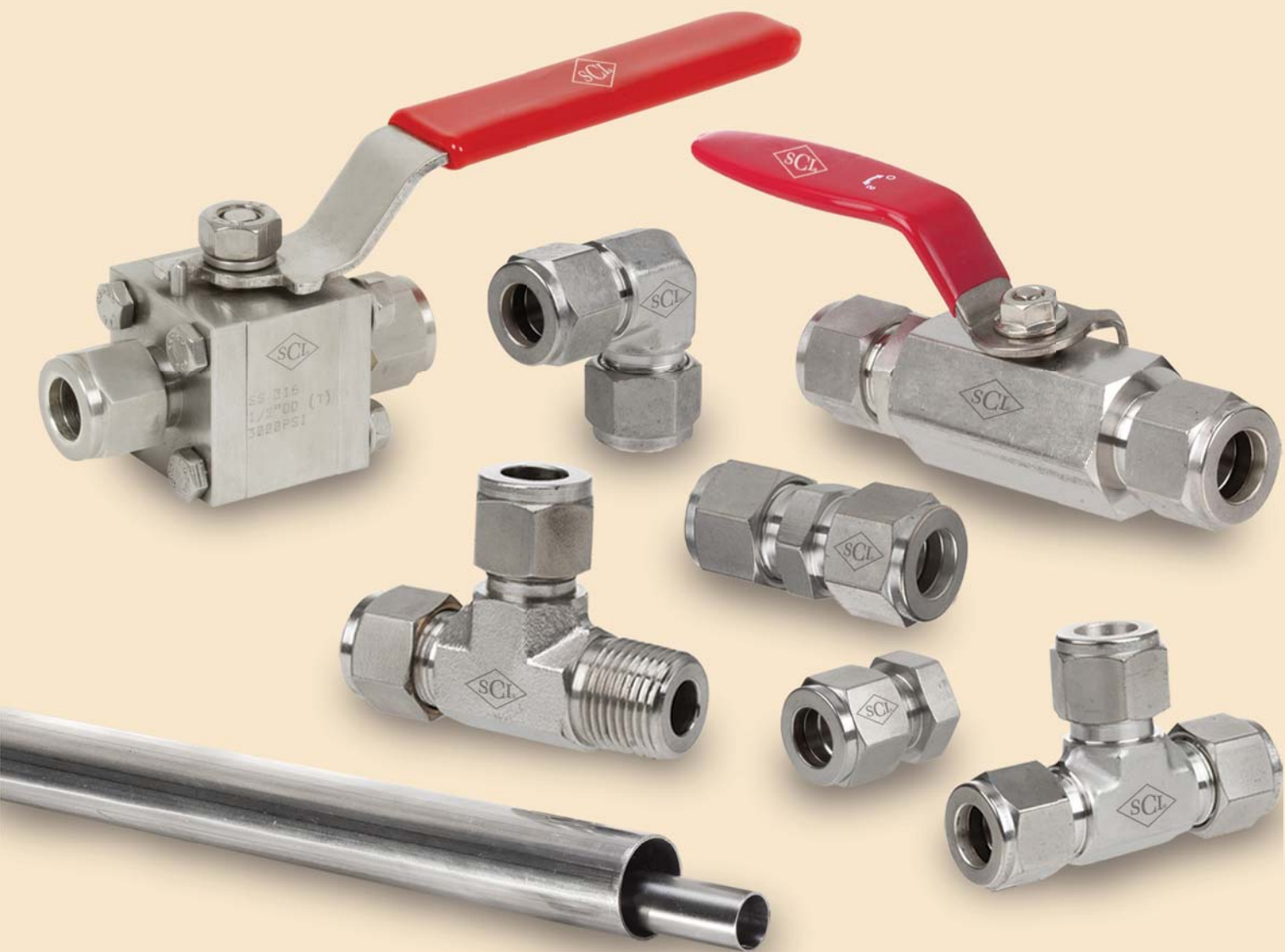
- 3-Piece design
- High cycle stem packing
- Encapsulated body bolts
- Variety of seats and seals
- Integral ISO mounting pad
- Lockable, lever, extended or oval handle
- Hygienic seating design
- Blow out proof stem
- Flush pad made from solid bar stock
- Optional purge ports available

No.	Part Name	Material
1	Body	CF3M
2	Flush Bottom Flange	CF3M
3	Ball	SS 316L
4	Seats	TFM
5	Body Seals	TFM
6	Tri-Clamp Ends	CF3M
7	Body Bolts	SS 316
8	Seal Protector	TFM
9	Thrust Washer	TFM
10	Stem Packing	PTFE
11	Lower Lock Latch	Stainless Steel
11A	Lower Lock Bolt	Stainless Steel
12	Upper Lock Latch	Stainless Steel
13	Stem	SS 316L
14	Gland Packing	Stainless Steel
15	Belleville Washer	Stainless Steel
16	Packing Nut	Stainless Steel
17	Lock Tab	Stainless Steel
18	Stem Nut	Stainless Steel
19	Lock Washer	Stainless Steel
20	Handle	Stainless Steel
21	Stop Bolt	Stainless Steel
22	Wrench Block	Stainless Steel
23	Hex head Bolt	Stainless Steel



Nominal Tube Size in	Part Number	A in	B in	C in	D in	E in	F in	G in	H in	J in	K in
1/2	SV6666TTCEFB006	3.02	1.26	0.97	0.79	1.76	5.53	0.80	0.95	0.37	3.74
3/4	SV6666TTCEFB006	3.31	1.47	1.05	0.79	1.87	4.50	0.80	0.95	0.62	3.74
1	SV6666TTCEFB006	3.80	1.48	1.54	0.79	2.40	5.75	1.72	1.98	0.87	3.84
1-1/2	SV6666TTCEFB006	4.92	1.69	2.13	1.10	3.16	7.00	1.72	1.98	1.37	5.50
2	SV6666TTCEFB006	5.88	2.13	2.65	1.10	3.35	7.00	2.22	2.52	1.87	5.50
2-1/2	SV6666TTCEFB006	6.30	1.77	3.20	1.34	5.58	10.00	2.78	3.05	2.37	7.00
3	SV6666TTCEFB006	7.05	1.39	3.97	1.69	7.25	13.80	3.28	3.58	2.87	10.00
4	SV6666TTCEFB006	8.42	1.76	4.73	1.93	7.84	22.00	4.35	4.68	3.83	11.00

Part number listed is for configuration listed on this page with the addition of a L-Port 90° Turn Ball and 240 Grit Clamp Ends.
 A full listing of configurations and flow plans can be found at www.sharpevalves.com



Instrumentation

Specifications

- Instrumentation fittings meet ANSI B31.1, ANSI B31.3, ASME Sec. VIII
- Instrumentation fitting wall thickness conform to SAE-J514
- NPT pipe threads conform to ANSI B2-1
- Straight threads conform to ANSI B1-1 (unified threads clause 2A & 2B)
- Instrumentation fittings made from material that conforms to ASTM A276 316 SS (barstock) and ASTM A-182 G F 316 (forgings)
- Instrumentation fitting ferrules conform to ASTM A276 316 SS (min hardness Rockwell B-90)
- Instrumentation fitting ferrules composed of 316 SS
- Nuts are silver plated to 5 microns for anti-galling

Testing

- The following tests are carried out at various stages of manufacture and are in accordance with BS-4368-Part-IV:
 - Visual / dimensional check
 - Pneumatic pressure test at 2000 psi
 - Hydraulic leak test at 10,000 psi
 - Pressure impulse & vibration test at vibration frequency of 23-47 Hz with 5 mm amplitude, and 30-40 CPM for a minimum of 20 million cycles
 - Minimum burst pressure test at a steady rate of 3000 PSI per min, up to 15,000 psi
 - Make-and-break test hydraulically tested at 6,000 psi and 10,000 psi
 - Temperature cycling test: temperature increased from ambient to 320° C in min. held for 60 min, reduced to ambient, then hydraulically at 10,000 psi
 - Vacuum test at 700 m bar vacuum, deterioration in vacuum not to exceed 20 m bar in 20 mins.
 - Helium leak test at 15 PSI, leak not to exceed 2 x 10 STD cc per sec

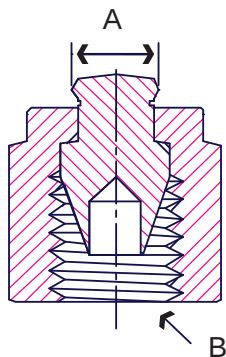


Fig. AFEC – Fitting End Closure

Tube OD in	Part Number	A in	B in	Packing	Weight lb
1/8	S76AFEC001	1/8	7/16	100	0.04
1/4	S76AFEC002	1/4	9/16	100	0.05
3/8	S76AFEC003	3/8	11/16	60	0.09
1/2	S76AFEC004	1/2	7/8	20	0.1
5/8	S76AFEC005	5/8	1	50	0.1
3/4	S76AFEC006	3/4	1-1/8	20	0.2
1	S76AFEC010	1	1-1/2	20	0.2

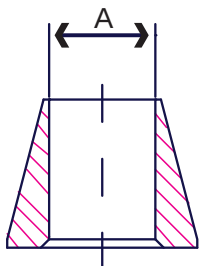


Fig. AFF – Front Ferrule

Tube OD in	Part Number	A in	Packing	Weight lb
1/8	S76AFF001	1/8	500	0.007
3/16	S76AFF316	3/16	500	0.007
1/4	S76AFF002	1/4	500	0.009
5/16	S76AFF516	5/16	500	0.01
3/8	S76AFF003	3/8	300	0.01
1/2	S76AFF004	1/2	200	0.01
5/8	S76AFF005	5/8	150	0.04
3/4	S76AFF006	3/4	100	0.05
1	S76AFF010	1	1	0.06

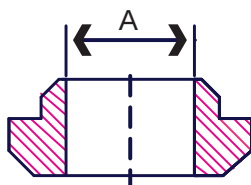


Fig. ABF – Back Ferrule

Tube OD in	Part Number	A in	Packing	Weight lb
1/8	S76ABF001	1/8	500	0.004
3/16	S76ABF316	3/16	500	0.004
1/4	S76ABF002	1/4	500	0.007
5/16	S76ABF516	5/16	500	0.009
3/8	S76ABF003	3/8	300	0.01
1/2	S76ABF004	1/2	200	0.01
5/8	S76ABF005	5/8	150	0.03
3/4	S76ABF006	3/4	100	0.04
1	S76ABF010	1	1	0.05

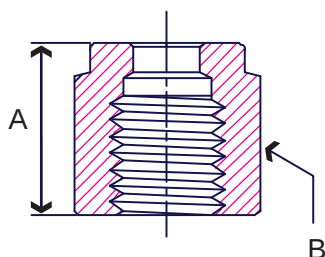


Fig. AHN – Hex Nut

Tube OD in	Part Number	A in	B in	Packing	Weight lb
1/8	S76AHN001	0.47	7/16	100	0.01
1/4	S76AHN002	0.50	9/16	100	0.02
3/16	S76AHN316	0.52	1/2	100	0.22
3/8	S76AHN003	0.56	11/16	100	0.04
1/2	S76AHN004	0.69	7/8	60	0.07
5/8	S76AHN005	0.69	1	50	0.08
3/4	S76AHN006	0.69	1-1/8	30	0.09
1	S76AHN010	0.81	1-1/2	30	0.09

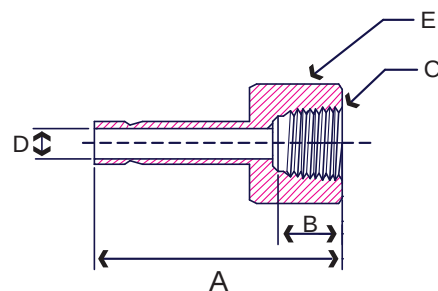


Fig. AFA – Female Adapter

Tube OD x NPT in	Part Number	A in	B in	C in	D in	E in	Packing	Weight lb
1/8 x 1/8	S76AFA001001	1.23	0.41	1/8	0.09	9/16	100	0.07
1/8 x 1/4	S76AFA001002	1.38	0.59	1/4	0.09	3/4	100	0.08
1/4 x 1/8	S76AFA002001	1.29	0.41	1/8	0.19	9/16	100	0.07
1/4 x 1/4	S76AFA002002	1.45	0.59	1/4	0.19	3/4	60	0.07
1/4 x 3/8	S76AFA002003	1.54	0.59	3/8	0.19	7/8	40	0.08
1/4 x 1/2	S76AFA002004	1.78	0.78	1/2	0.19	1-1/16	20	0.1
3/8 x 1/4	S76AFA003002	1.49	0.59	1/4	0.28	3/4	40	0.1
3/8 x 3/8	S76AFA003003	1.58	0.59	3/8	0.28	7/8	40	0.1
1/2 x 1/4	S76AFA004002	1.71	0.59	1/4	0.39	3/4	40	0.1
1/2 x 3/8	S76AFA004003	1.78	0.59	3/8	0.39	7/8	30	0.07
1/2 x 1/2	S76AFA004004	2.03	0.78	1/2	0.39	1-1/16	10	0.1
5/8 x 1/4	S76AFA005002	1.90	0.59	1/4	0.39	15/16	40	0.2
5/8 x 3/8	S76AFA005003	1.90	0.59	3/8	0.39	15/16	40	0.3
5/8 x 1/2	S76AFA005004	2.08	0.78	1/2	0.50	1-1/16	20	0.3
3/4 x 1/2	S76AFA006004	2.08	0.78	1/2	0.59	1-1/16	10	0.4
3/4 x 3/4	S76AFA006006	2.15	0.81	3/4	0.59	1-5/16	10	0.5
3/4 x 1	S76AFA006010	2.29	1.00	1	0.59	1-5/8	10	0.8
1 x 1	S76AFA010010	2.53	1.00	1	0.80	1-5/8	10	0.5

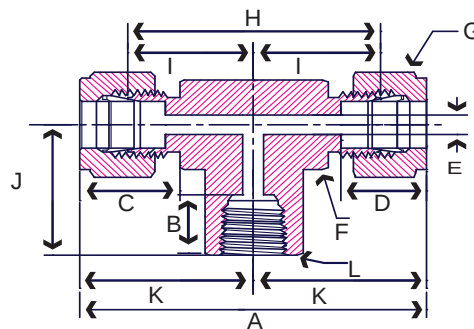


Fig. AFBT – Female Branch Tee

Tube OD x NPT in	Part Number	A in	B in	C in	D in	E in	F in	G in	H in	I in	J in	K in	L in	Packing	Weight lb
1/8 x 1/8	S76AFBT001001	1.92	0.41	0.60	0.50	0.09	1/2	7/16	1.40	0.70	0.74	0.96	1/8	40	0.1
1/8 x 1/4	S76AFBT001002	2.16	0.59	0.60	0.50	0.09	3/4	7/16	1.64	0.82	0.88	1.08	1/4	30	0.1
3/16 x 1/8	S76AFBT316001	2.00	0.41	0.63	0.54	0.12	1/2	1/2	1.48	0.74	0.75	1.00	1/8	40	0.1
1/4 x 1/8	S76AFBT002001	2.10	0.41	0.70	0.60	0.19	1/2	9/16	1.52	0.76	0.74	1.05	1/8	30	0.1
1/4 x 1/4	S76AFBT002002	2.32	0.59	0.70	0.60	0.19	11/16	9/16	1.74	0.87	0.87	1.16	1/4	30	0.2
3/8 x 1/4	S76AFBT003002	2.44	0.59	0.76	0.66	0.28	11/16	11/16	1.84	0.93	0.87	1.22	1/4	20	0.3
3/8 x 3/8	S76AFBT003003	2.60	0.59	0.76	0.66	0.28	13/16	11/16	2.02	1.01	0.87	1.30	3/8	20	0.3
1/2 x 3/8	S76AFBT004003	2.82	0.59	0.86	0.90	0.41	13/16	7/8	2.02	1.01	0.87	1.41	3/8	10	0.3
1/2 x 1/2	S76AFBT004004	3.04	0.78	0.86	0.90	0.41	1	7/8	2.24	1.12	1.11	1.52	1/2	10	0.5
5/8 x 1/2	S76AFBT005004	3.04	0.78	0.86	0.96	0.50	1	1	2.24	1.12	1.11	1.52	1/2	10	1.1
3/4 x 1/2	S76AFBT006004	3.14	0.78	0.86	0.96	0.62	1-1/16	1-1/8	2.34	1.17	1.12	1.57	1/2	5	1.5
3/4 x 3/4	S76AFBT006006	3.50	0.81	0.86	0.96	0.62	1-3/8	1-1/8	2.70	1.35	1.24	1.75	3/4	5	1.6
1 x 3/4	S76AFBT010006	3.86	0.81	1.04	1.23	0.88	1-7/16	1-1/2	2.90	1.45	1.25	1.93	3/4	5	1.5
1 x 1	S76AFBT010010	4.22	1.00	1.04	1.23	0.88	1-5/8	1-1/2	3.26	1.63	1.50	2.11	1	5	1.6

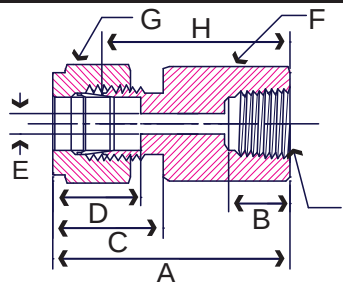


Fig. AFC – Female Connector

Tube OD x NPT in	Part Number	A in	B in	C in	D in	E in	F in	G in	H in	I in	Packing	Weight lb
1/8 x 1/8	S76AFC001001	1.12	0.40	0.60	0.50	0.09	9/16	7/16	0.86	1/8	30	0.08
1/8 x 1/4	S76AFC001002	1.31	0.59	0.60	0.50	0.09	3/4	7/16	1.05	1/4	30	0.09
3/16 x 1/8	S76AFC316001	1.17	0.39	0.63	0.54	0.12	9/16	1/2	0.91	1/8	30	0.09
1/4 x 1/8	S76AFC002001	1.22	0.39	0.70	0.60	0.19	9/16	9/16	0.93	1/8	100	0.09
1/4 x 1/4	S76AFC002002	1.40	0.59	0.70	0.60	0.19	3/4	9/16	1.11	1/4	60	0.09
1/4 x 3/8	S76AFC002003	1.47	0.59	0.70	0.60	0.19	7/8	9/16	1.18	3/8	40	0.1
1/4 x 1/2	S76AFC002004	1.66	0.78	0.70	0.60	0.19	1-1/16	9/16	1.37	1/2	20	0.1
5/16 x 1/8	S76AFC516001	1.26	0.41	0.73	0.64	0.25	9/16	5/8	0.97	1/8	100	0.1
5/16 x 1/4	S76AFC516002	1.44	0.59	0.73	0.64	0.25	3/4	5/8	1.15	1/4	60	0.1
3/8 x 1/8	S76AFC003001	1.29	0.41	0.76	0.66	0.28	5/8	11/16	1.00	1/8	40	0.1
3/8 x 1/4	S76AFC003002	1.47	0.59	0.76	0.66	0.28	3/4	11/16	1.18	1/4	40	0.1
3/8 x 3/8	S76AFC003003	1.53	0.59	0.76	0.66	0.28	7/8	11/16	1.24	3/8	30	0.1
3/8 x 1/2	S76AFC003004	1.72	0.78	0.76	0.66	0.28	1-1/16	11/16	1.48	1/2	20	0.1
1/2 x 1/4	S76AFC004002	1.58	0.59	0.86	0.90	0.41	13/16	7/8	1.18	1/4	30	0.1
1/2 x 3/8	S76AFC004003	1.64	0.59	0.86	0.90	0.41	7/8	7/8	1.24	3/8	20	0.1
1/2 x 1/2	S76AFC004004	1.83	0.78	0.86	0.90	0.41	1-1/16	7/8	1.43	1/2	10	0.2
1/2 x 3/4	S76AFC004006	1.90	0.81	0.86	0.90	0.41	1-5/16	7/8	1.50	3/4	10	0.3
5/8 x 3/8	S76AFC005003	1.65	0.59	0.86	0.96	0.50	15/16	1.00	1.25	3/8	15	0.3
5/8 x 1/2	S76AFC005004	1.84	0.78	0.86	0.96	0.50	1-1/16	1.00	1.44	1/2	15	0.4
3/4 x 1/2	S76AFC006004	1.83	0.78	0.86	0.96	0.62	1-1/16	1-1/8	1.43	1/2	10	0.5
3/4 x 3/4	S76AFC006006	1.91	0.81	0.86	0.96	0.62	1-5/16	1-1/8	1.49	3/4	10	0.6
1 x 3/4	S76AFC010006	2.09	0.81	1.04	1.23	0.88	1-3/8	1-1/2	1.61	3/4	10	0.5
1 x 1	S76AFC010010	2.44	1.00	1.04	1.23	0.88	1-5/8	1-1/2	1.96	1	10	0.6

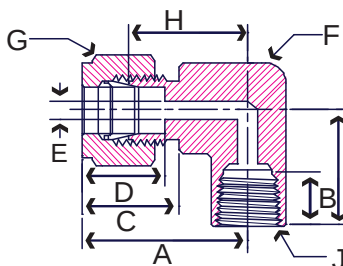


Fig. AFE – Female Elbow

Tube OD x NPT in	Part Number	A in	B in	C in	D in	E in	F in	G in	H in	I in	J in	Packing	Weight lb
1/8 x 1/8	S76AFE001001	0.96	0.41	0.60	0.50	0.09	1/2	7/16	0.71	0.74	1/8	40	0.09
1/8 x 1/4	S76AFE001002	1.07	0.59	0.60	0.50	0.09	11/16	7/16	0.81	0.87	1/4	30	0.1
3/16 x 1/8	S76AFE316001	1.00	0.41	0.63	0.54	0.12	1/2	1/2	0.74	0.75	1/8	40	0.1
3/16 x 1/4	S76AFE316002	1.10	0.59	0.63	0.54	0.12	3/4	1/2	0.81	0.88	1/4	30	0.1
1/4 x 1/8	S76AFE002001	1.05	0.41	0.70	0.60	0.19	1/2	9/16	0.76	0.74	1/8	40	0.1
1/4 x 1/4	S76AFE002002	1.16	0.59	0.70	0.60	0.19	11/16	9/16	0.87	0.87	1/4	30	0.2
1/4 x 3/8	S76AFE002003	1.24	0.59	0.70	0.60	0.19	13/16	9/16	0.95	0.87	3/8	30	0.3
1/4 x 1/2	S76AFE002004	1.35	0.78	0.70	0.60	0.19	1	9/16	1.06	1.11	1/2	20	0.4
5/16 x 1/4	S76AFE516002	1.19	0.59	0.73	0.64	0.25	11/16	5/8	0.90	0.87	1/4	30	0.3
3/8 x 1/8	S76AFE003001	1.20	0.41	0.76	0.66	0.28	5/8	11/16	0.91	0.75	1/8	30	0.2
3/8 x 1/4	S76AFE003002	1.22	0.59	0.76	0.66	0.28	11/16	11/16	0.93	0.87	1/4	30	0.3
3/8 x 3/8	S76AFE003003	1.30	0.59	0.76	0.66	0.28	13/16	11/16	1.01	0.87	3/8	20	0.3
3/8 x 1/2	S76AFE003004	1.41	0.78	0.76	0.66	0.28	1	11/16	1.12	1.11	1/2	20	0.3
1/2 x 1/4	S76AFE004002	1.41	0.59	0.86	0.90	0.41	13/16	7/8	1.01	0.87	1/4	10	0.3
1/2 x 3/8	S76AFE004003	1.41	0.59	0.86	0.90	0.41	13/16	7/8	1.01	0.87	3/8	10	0.4
1/2 x 1/2	S76AFE004004	1.52	0.78	0.86	0.90	0.41	1	7/8	1.12	1.11	1/2	10	0.5
5/8 x 3/8	S76AFE005003	1.50	0.59	0.86	0.96	0.50	15/16	1.00	1.10	0.88	3/8	15	0.4
5/8 x 1/2	S76AFE005004	1.52	0.78	0.86	0.96	0.50	1-1/16	1	1.16	1.11	1/2	15	0.5
3/4 x 1/2	S76AFE006004	1.56	0.78	0.86	0.96	0.62	1-1/16	1-1/8	1.16	1.11	1/2	10	0.6
3/4 x 3/4	S76AFE006006	1.75	0.81	0.86	0.96	0.62	1-3/8	1-1/8	1.35	1.24	3/4	10	0.8
3/4 x 1	S76AFE006010	1.93	1.00	0.86	0.96	0.62	1-5/8	1-1/8	1.53	1.50	1	10	1.1
1 x 1	S76AFE010010	2.10	1.00	1.04	1.23	0.88	1-11/16	1-1/2	1.62	1.49	1	10	0.9

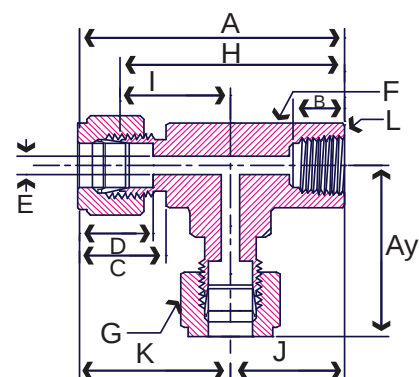


Fig. AFRT – Female Run Tee

Tube OD x NPT in	Part Number	A in	B in	C in	D in	E in	F in	G in	H in	I in	J in	K in	L in	Packing	Weight lb
1/8 x 1/8	S76AFRT001001	1.71	0.41	0.60	0.50	0.09	1/2	7/16	1.44	0.70	0.74	0.96	1/8	40	0.1
1/8 x 1/4	S76AFRT001002	1.96	0.59	0.60	0.50	0.09	3/4	7/16	1.07	0.82	0.88	1.08	1/4	30	0.1
1/4 x 1/8	S76AFRT002001	1.81	0.41	0.70	0.60	0.19	1/2	9/16	1.50	0.76	0.74	1.05	1/8	40	0.1
1/4 x 1/4	S76AFRT002002	2.05	0.59	0.70	0.60	0.19	11/16	9/16	1.79	0.87	0.87	1.16	1/4	30	0.2
3/16 x 1/8	S76AFRT316001	1.75	0.41	0.63	0.54	0.12	1/2	1/2	1.49	0.74	0.75	1.00	1/8	40	0.1
3/8 x 1/4	S76AFRT003002	2.10	0.59	0.76	0.66	0.28	11/16	11/16	1.79	0.93	0.87	1.22	1/4	20	0.3
3/8 x 3/8	S76AFRT003003	2.17	0.59	0.76	0.66	0.28	7/8	11/16	1.88	1.01	0.87	1.30	3/8	10	0.3
1/2 x 3/8	S76AFRT004003	2.29	0.59	0.86	0.90	0.41	13/16	7/8	1.88	1.01	0.87	1.41	3/8	10	0.3
1/2 x 1/2	S76AFRT004004	2.68	0.78	0.86	0.90	0.41	1-1/16	7/8	2.27	1.16	1.12	1.56	1/2	10	0.5
5/8 x 1/2	S76AFRT005004	2.64	0.78	0.86	0.96	0.50	1-1/16	1.00	2.24	1.12	1.12	1.52	1/2	10	1.1
3/4 x 1/2	S76AFRT006004	2.69	0.78	0.86	0.96	0.62	1-1/16	1-1/8	2.29	1.17	1.12	1.57	3/4	5	1.5
3/4 x 3/4	S76AFRT006006	3.00	0.81	0.86	0.96	0.62	1-3/8	1-1/8	2.59	1.35	1.24	1.75	3/4	5	1.6
1 x 3/4	S76AFRT010006	3.17	0.81	1.04	1.23	0.88	1-3/8	1-1/2	2.68	1.44	1.24	1.92	3/4	5	1.5
1 x 1	S76AFRT010010	3.60	1.00	1.04	1.23	0.88	1-11/16	1-1/2	3.11	1.62	1.49	2.10	1	5	1.6

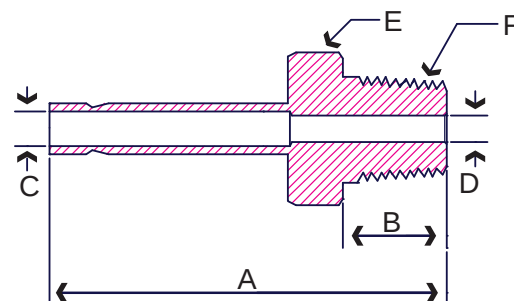


Fig. AMA – Male Adapter

Tube OD x NPT in	Part Number	A in	B in	C in	D in	E in	F in	Packing	Weight lb
1/8 x 1/8	S76AMA001001	1.15	0.38	0.19	0.09	7/16	1/8	100	0.07
1/8 x 1/4	S76AMA001002	1.36	0.56	0.28	0.09	9/16	1/4	100	0.07
1/4 x 1/8	S76AMA002001	1.24	0.38	0.19	0.19	7/16	1/8	100	0.07
1/4 x 1/4	S76AMA002002	1.45	0.56	0.19	0.19	9/16	1/4	100	0.07
1/4 x 3/8	S76AMA002003	1.48	0.56	0.19	0.19	11/16	3/8	60	0.08
1/4 x 1/2	S76AMA002004	1.70	0.75	0.19	0.19	7/8	1/2	30	0.1
5/16 x 1/8	S76AMA516001	1.28	0.38	0.19	0.25	7/16	1/8	100	0.08
5/16 x 1/4	S76AMA516002	1.49	0.56	0.25	0.25	9/16	1/4	100	0.08
3/8 x 1/4	S76AMA003002	1.52	0.56	0.28	0.28	9/16	1/4	60	0.09
3/8 x 3/8	S76AMA003003	1.55	0.56	0.28	0.28	11/16	3/8	60	0.09
3/8 x 1/2	S76AMA003004	1.77	0.75	0.28	0.28	7/8	1/2	40	0.1
1/2 x 1/4	S76AMA004002	1.75	0.56	0.39	0.28	9/16	1/4	30	0.08
1/2 x 3/8	S76AMA004003	1.77	0.56	0.39	0.39	11/16	3/8	30	0.07
1/2 x 1/2	S76AMA004004	1.99	0.75	0.39	0.39	7/8	1/2	30	0.1
5/8 x 1/2	S76AMA005004	2.05	0.75	0.47	0.50	7/8	1/2	20	0.2
3/4 x 1/2	S76AMA006004	2.05	0.75	0.47	0.59	7/8	1/2	10	0.3
3/4 x 3/4	S76AMA006006	2.05	0.75	0.59	0.59	1-11/16	3/4	10	0.6
3/4 x 1	S76AMA006010	2.31	0.94	0.59	0.59	1-3/8	1	10	0.6
1 x 3/4	S76AMA010006	2.31	0.75	0.80	0.62	1-1/16	3/4	10	0.6
1 x 1	S76AMA010010	2.60	0.94	0.80	0.80	1-3/8	1	10	0.6

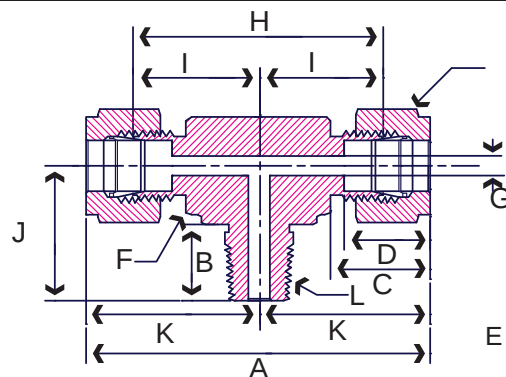


Fig. AMBT – Male Branch Tee

Tube OD x NPT in	Part Number	A in	B in	C in	D in	E in	F in	G in	H in	I in	J in	K in	L in	Packing	Weight lb
1/8 x 1/8	S76AMBT001001	1.84	0.38	0.60	0.50	0.09	7/16	7/16	1.32	0.66	0.69	1.84	1/8	40	0.1
1/8 x 1/4	S76AMBT001002	1.92	0.56	0.60	0.50	0.09	1/2	7/16	1.40	0.70	0.91	1.92	1/4	30	0.1
3/16 x 1/8	S76AMBT316001	1.92	0.38	0.63	0.54	0.12	1/2	1/2	1.40	0.70	0.70	0.96	1/8	40	0.1
1/4 x 1/8	S76AMBT002001	2.10	0.38	0.70	0.60	0.19	1/2	9/16	1.52	0.76	0.73	2.10	1/8	30	0.1
1/4 x 1/4	S76AMBT002002	2.10	0.56	0.70	0.60	0.19	1/2	9/16	1.52	0.76	0.91	2.10	1/4	30	0.1
1/4 x 1/2	S76AMBT002004	2.50	0.75	0.70	0.60	0.19	7/8	9/16	1.92	0.96	1.30	1.25	1/2	20	0.2
5/16 x 1/8	S76AMBT516001	2.34	0.38	0.73	0.64	0.19	5/8	5/8	1.76	0.88	0.82	1.17	1/8	40	0.1
3/8 x 1/4	S76AMBT003002	2.38	0.56	0.76	0.66	0.28	5/8	11/16	1.80	0.90	0.99	2.38	1/4	30	0.2
3/8 x 3/8	S76AMBT003003	2.60	0.56	0.76	0.66	0.28	13/16	11/16	2.02	1.01	1.10	2.60	3/8	20	0.2
1/2 x 3/8	S76AMBT004003	2.82	0.56	0.86	0.90	0.38	13/16	7/8	2.02	1.01	1.10	2.82	3/8	10	0.4
1/2 x 1/2	S76AMBT004004	2.82	0.75	0.86	0.90	0.41	13/16	7/8	2.02	1.01	1.29	2.82	1/2	10	0.7
5/8 x 1/2	S76AMBT005004	3.04	0.75	0.86	0.96	0.47	1	1	2.24	1.12	1.40	3.04	1/2	1	0.8
3/4 x 1/2	S76AMBT006004	3.14	0.75	0.86	0.96	0.47	1-1/16	1-1/8	2.34	1.17	1.45	1.57	1/2	5	0.3
3/4 x 3/4	S76AMBT006006	3.12	0.75	0.86	0.96	0.62	1-1/16	1-1/8	2.32	1.16	1.44	3.12	3/4	5	0.8
1 x 3/4	S76AMBT010006	3.86	0.75	1.04	1.23	0.62	1-7/16	1-1/2	2.90	1.45	1.64	1.93	3/4	5	0.3
1 x 1	A76AMBT010010	3.86	0.94	1.04	1.23	0.88	1-7/16	1-1/2	2.90	1.45	1.83	1.93	1	5	0.6

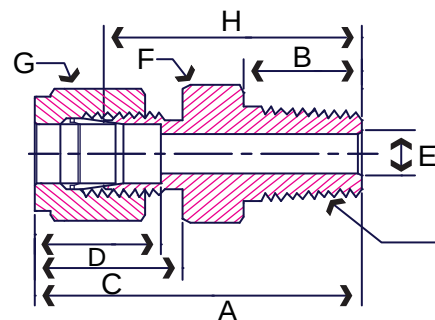


Fig. AMC – Male Connector

Tube OD x NPT in	Part Number	A in	B in	C in	D in	E in	F in	G in	H in	I in	Packing	Weight lb
1/8 x 1/8	S76AMC001001	1.19	0.38	0.60	0.50	0.09	7/16	7/16	0.93	1/8	100	0.08
1/8 x 1/4	S76AMC001002	1.39	0.56	0.60	0.50	0.09	9/16	7/16	1.13	1/4	100	0.08
3/16 x 1/8	S76AMC316001	1.23	0.38	0.63	0.54	0.12	7/16	1/2	0.97	1/8	100	0.08
3/16 x 1/4	S76AMC316002	1.43	0.56	0.63	0.54	0.12	9/16	1/2	1.17	1/4	30	0.08
1/4 x 1/8	S76AMC002001	1.28	0.38	0.70	0.60	0.19	1/2	9/16	0.99	1/8	100	0.07
1/4 x 1/4	S76AMC002002	1.48	0.56	0.70	0.60	0.19	9/16	9/16	1.19	1/4	100	0.08
1/4 x 3/8	S76AMC002003	1.50	0.56	0.70	0.60	0.19	11/16	9/16	1.21	3/8	60	0.09
1/4 x 1/2	S76AMC002004	1.75	0.75	0.70	0.60	0.19	7/8	9/16	1.46	1/2	30	0.1
5/16 x 1/8	S76AMC516001	1.34	0.38	0.73	0.64	0.19	9/16	5/8	1.05	1/8	100	0.1
5/16 x 1/4	S76AMC516002	1.51	0.56	0.73	0.64	0.25	9/16	5/8	1.22	1/4	40	0.1
3/8 x 1/8	S76AMC003001	1.38	0.38	0.76	0.66	0.19	5/8	11/16	1.09	1/8	100	0.1
3/8 x 1/4	S76AMC003002	1.56	0.56	0.76	0.66	0.28	5/8	11/16	1.27	1/4	60	0.1
3/8 x 3/8	S76AMC003003	1.56	0.56	0.76	0.66	0.28	11/16	11/16	1.27	3/8	40	0.1
3/8 x 1/2	S76AMC003004	1.81	0.75	0.76	0.66	0.28	7/8	11/16	1.52	1/2	30	0.1
1/2 x 1/4	S76AMC004002	1.70	0.56	0.86	0.90	0.28	13/16	7/8	1.30	1/4	30	0.1
1/2 x 3/8	S76AMC004003	1.70	0.56	0.86	0.90	0.38	13/16	7/8	1.30	3/8	30	0.1
1/2 x 1/2	S76AMC004004	1.92	0.75	0.86	0.90	0.41	7/8	7/8	1.52	1/2	30	0.2
1/2 x 3/4	S76AMC004006	1.98	0.75	0.86	0.96	0.41	1-1/16	7/8	1.58	3/4	20	0.2
5/8 x 3/8	S76AMC005003	1.73	0.56	0.86	0.96	0.38	15/16	1	1.33	3/8	20	0.2
5/8 x 1/2	S76AMC005004	1.92	0.75	0.86	0.96	0.47	15/16	1	1.52	1/2	20	0.3
3/4 x 1/2	S76AMC006004	1.98	0.75	0.86	0.96	0.47	1-1/16	1-1/8	1.58	1/2	15	0.4
3/4 x 3/4	S76AMC006006	1.98	0.75	0.86	0.96	0.62	1-1/16	1-1/8	1.58	3/4	15	0.4
3/4 x 1	S76AMC006010	2.24	0.94	0.86	0.96	0.62	1-3/8	1-1/8	1.84	1	10	0.5
1 x 3/4	S76AMC010006	2.26	0.75	1.04	1.23	0.62	1-3/8	1-1/2	1.78	3/4	15	0.4
1 x 1	S76AMC010010	2.45	0.94	1.04	1.23	0.88	1-3/8	1-1/2	1.97	1	10	0.5

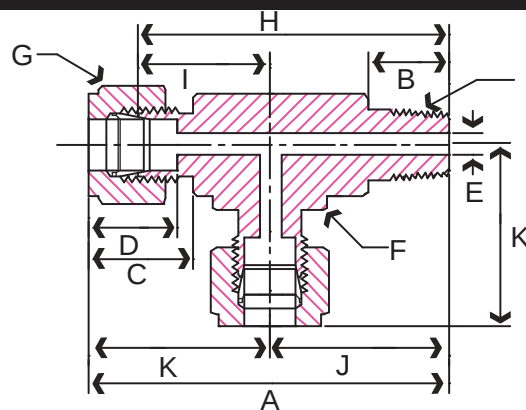


Fig. AMRT – Male Run Tee

Tube OD x NPT in	Part Number	A in	B in	C in	D in	E in	F in	G in	H in	I in	J in	K in	L in	Packing	Weight lb
1/8 x 1/8	S76AMRT001001	1.61	0.38	0.60	0.50	0.09	7/16	7/16	1.35	0.66	0.92	0.93	1/8	40	0.1
1/8 x 1/4	S76AMRT001002	1.87	0.56	0.60	0.50	0.09	1/2	7/16	1.61	0.70	0.96	0.97	1/4	30	0.1
3/16 x 1/8	S76AMRT316001	1.66	0.38	0.63	0.54	0.12	1/2	1/2	1.40	0.70	0.70	0.96	1/8	40	0.1
1/4 x 1/8	S76AMRT002001	1.98	0.38	0.70	0.60	0.19	1/2	9/16	1.48	0.76	1.05	1.06	1/8	30	0.1
1/4 x 1/4	S76AMRT002002	1.96	0.56	0.70	0.60	0.19	1/2	9/16	1.67	0.76	1.05	1.06	1/4	30	0.1
5/16 x 1/8	S76AMRT516001	1.99	0.38	0.73	0.64	0.19	5/8	5/8	1.70	0.88	0.82	1.17	1/8	40	0.1
3/8 x 1/4	S76AMRT003002	2.18	0.56	0.76	0.66	0.28	5/8	11/16	1.89	0.90	1.19	1.20	1/4	20	0.2
3/8 x 3/8	S76AMRT003003	2.40	0.56	0.76	0.66	0.28	13/16	11/16	2.11	1.01	1.30	1.31	3/8	10	0.2
1/2 x 3/8	S76AMRT004003	2.51	0.56	0.86	0.90	0.38	13/16	7/8	2.11	1.01	1.41	1.42	3/8	10	0.4
1/2 x 1/2	S76AMRT004004	2.70	0.75	0.86	0.90	0.41	13/16	7/8	2.30	1.01	1.41	1.42	1/2	10	0.7
5/8 x 1/2	S76AMRT005004	2.86	0.75	0.86	0.96	0.47	15/16	1	2.46	1.00	1.49	1.50	1/2	10	0.8
3/4 x 1/2	S76AMRT006004	3.02	0.75	0.86	0.96	0.47	1-1/16	1-1/8	2.62	1.17	1.45	1.57	1/2	5	0.8
3/4 x 3/4	S76AMRT006006	3.00	0.75	0.86	0.96	0.62	1-1/16	1-1/8	2.60	1.16	1.56	1.57	3/4	5	1.3

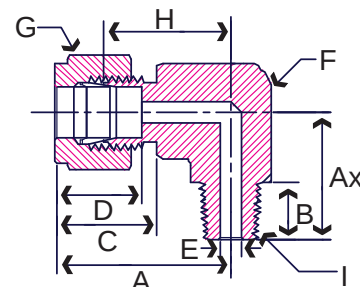


Fig. AME – Male Elbow

Tube OD x NPT in	Part Number	A in	B in	C in	D in	E in	F in	G in	H in	I in	Packing	Weight lb
1/8 x 1/8	S76AME001001	0.92	0.38	0.60	0.50	0.09	7/16	7/16	0.66	1/8	50	0.06
1/8 x 1/4	S76AME001002	0.96	0.56	0.60	0.50	0.09	1/2	7/16	0.70	1/4	40	0.07
3/16 x 1/8	S76AME316001	1.00	0.38	0.63	0.54	0.12	1/2	1/2	0.74	1/8	40	0.08
1/4 x 1/8	S76AME002001	1.05	0.38	0.70	0.60	0.19	1/2	9/16	0.76	1/8	40	0.1
1/4 x 1/4	S76AME002002	1.05	0.56	0.70	0.60	0.19	1/2	9/16	0.76	1/4	30	0.1
1/4 x 3/8	S76AME002003	1.16	0.56	0.70	0.60	0.19	11/16	9/16	0.87	3/8	20	0.1
1/4 x 1/2	S76AME002004	1.24	0.75	0.70	0.60	0.19	13/16	9/16	0.95	1/2	20	0.1
5/16 x 1/4	S76AME516002	1.12	0.56	0.73	0.64	0.25	9/16	5/8	0.84	1/4	40	0.1
3/8 x 1/8	S76AME003001	1.20	0.38	0.76	0.66	0.19	5/8	11/16	0.91	1/8	40	0.1
3/8 x 1/4	S76AME003002	1.19	0.56	0.76	0.66	0.28	5/8	11/16	0.90	1/4	30	0.1
3/8 x 3/8	S76AME003003	1.22	0.56	0.76	0.66	0.28	11/16	11/16	0.93	3/8	20	0.2
3/8 x 1/2	S76AME003004	1.30	0.75	0.76	0.66	0.28	13/16	11/16	1.01	1/2	10	0.2
1/2 x 1/4	S76AME004002	1.41	0.56	0.86	0.90	0.28	13/16	7/8	1.01	1/4	10	0.2
1/2 x 3/8	S76AME004003	1.41	0.56	0.86	0.90	0.38	13/16	7/8	1.01	3/8	10	0.2
1/2 x 1/2	S76AME004004	1.41	0.75	0.86	0.90	0.41	13/16	7/8	1.01	1/2	10	0.3
5/8 x 3/8	S76AME005003	1.50	0.56	0.86	0.96	0.38	15/16	1.00	1.10	3/8	15	0.4
5/8 x 1/2	S76AME005004	1.49	0.75	0.86	0.96	0.47	15/16	1	1.09	1/2	15	0.4
3/4 x 1/2	S76AME006004	1.56	0.75	0.86	0.96	0.47	1-1/16	1-1/8	1.16	1/2	10	0.7
3/4 x 3/4	S76AME006006	1.56	0.75	0.86	0.96	0.62	1-1/16	1-1/8	1.16	3/4	10	0.8
1 x 3/4	S76AME010006	1.92	0.75	1.04	1.23	0.62	1-3/8	1-1/2	1.44	3/4	5	1.0
1 x 1	S76AME010010	1.92	0.75	1.04	1.23	0.88	1-3/8	1-1/2	1.44	1	5	1.0

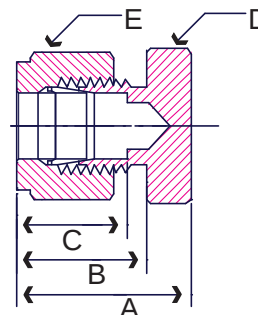


Fig. ATEC – Tube End Closure (Cap)

Tube OD in	Part Number	A in	B in	C in	D in	E in	F in	Packing	Weight lb
1/8	S76ATEC001	0.78	0.60	0.50	7/16	7/16	0.52	100	0.06
3/16	S76ATEC316	0.84	0.63	0.54	7/16	1/2	0.58	100	0.07
1/4	S76ATEC002	0.92	0.70	0.60	1/2	9/16	0.62	100	0.07
5/16	S76ATEC516	0.96	0.73	0.64	9/16	5/8	0.65	100	0.1
3/8	S76ATEC003	1.00	0.76	0.66	5/8	11/16	0.71	60	0.1
1/2	S76ATEC004	1.14	0.86	0.90	13/16	7/8	0.74	30	0.1
5/8	S76ATEC005	1.17	0.86	0.96	15/16	1	0.77	40	0.3
3/4	S76ATEC006	1.23	0.86	0.96	1-1/16	1-1/8	0.83	10	0.3
1	S76ATEC010	1.80	1.04	1.23	1-3/8	1-1/2	1.02	1	0.5

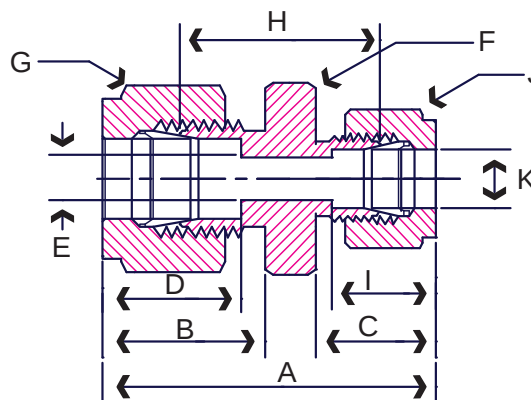


Fig. ARU – Reducing Union

Tube OD in	Part Number	A in	B in	C in	D in	E in	F in	G in	H in	I in	J in	K in	Packing	Weight lb
1/4 x 1/8	S76ARU002001	1.51	0.70	0.60	0.60	0.09	1/2	9/16	0.96	0.50	7/16	1/8	100	0.08
5/16 x 1/4	S76ARU516002	1.65	0.73	0.70	0.64	0.19	9/16	5/8	1.07	0.60	9/16	1/4	60	0.1
3/16 x 1/8	S76ARU316001	1.67	0.74	0.70	0.65	0.19	1/2	7/16	1.09	0.60	9/16	1/4	60	0.1
3/8 x 1/4	S76ARU003002	1.69	0.76	0.70	0.66	0.19	5/8	11/16	1.11	0.60	9/16	1/4	40	0.1
1/2 x 1/4	S76ARU004002	1.84	0.86	0.70	0.90	0.19	13/16	7/8	1.15	0.60	9/16	1/4	20	0.3
1/2 x 3/8	S76ARU004003	1.90	0.86	0.76	0.90	0.28	13/16	7/8	1.21	0.66	11/16	3/8	20	0.3
5/8 x 3/8	S76ARU005003	1.93	0.86	0.76	0.96	0.28	15/16	1	1.24	0.66	11/16	3/8	30	0.4
5/8 x 1/2	S76ARU005004	2.04	0.86	0.86	0.96	0.41	15/16	1	1.24	0.90	7/8	1/2	30	0.4
3/4 x 1/2	S76ARU006004	2.10	0.86	0.86	0.96	0.50	1-1/16	1-1/8	1.30	0.90	7/8	1/2	10	0.5
3/4 x 5/8	S76ARU006005	2.10	0.86	0.86	0.96	0.62	1-1/16	1-1/8	1.30	0.96	1	5/8	10	0.5
1 x 3/4	S76ARU010006	2.10	1.04	0.86	0.96	0.62	1-3/8	1-1/2	1.58	1.23	1-1/8	3/4	1	0.5

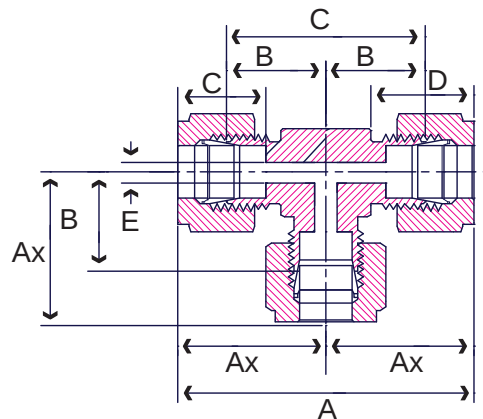


Fig. AUT – Union Tee

Tube OD in	Part Number	A in	B in	C in	D in	E in	F in	G in	Packing	Weight lb
1/8	S76AUT001	1.76	1.22	0.87	0.50	0.09	3/8	7/16	40	0.2
3/16	S76AUT316	1.92	1.40	0.96	0.54	0.12	1/2	1/2	40	0.1
1/4	S76AUT002	2.12	1.52	1.05	0.60	0.19	1/2	9/16	30	0.2
5/16	S76AUT516	2.34	1.74	1.16	0.64	0.25	5/8	5/8	20	0.3
3/8	S76AUT003	2.40	1.80	1.19	0.66	0.28	5/8	11/16	20	0.4
1/2	S76AUT004	2.84	2.02	1.41	0.96	0.41	13/16	7/8	10	0.7
5/8	S76AUT005	3.06	2.24	1.52	0.96	0.50	1	1	10	0.8
3/4	S76AUT006	3.14	2.32	1.56	0.96	0.62	1-1/16	1-1/8	5	1.0
1	S76AUT010	3.86	2.88	1.92	1.23	0.88	1-3/8	1-1/2	1	1.0

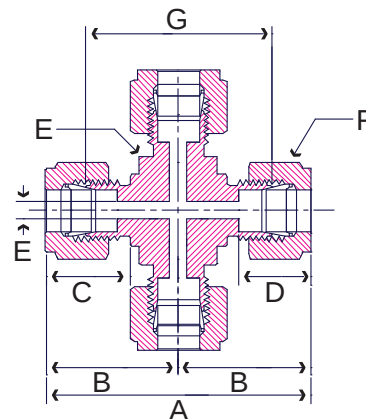


Fig. AUC – Union Cross

Tube OD in	Part Number	A in	B in	C in	D in	E in	F in	G in	Packing	Weight lb
1/8	S76AUCR001	1.74	0.87	0.60	0.50	3/8	7/16	1.22	40	0.2
1/4	S76AUCR002	2.10	1.05	0.70	0.60	1/2	9/16	1.52	20	0.2
5/16	S76AUCR516	2.32	1.16	0.73	0.64	5/8	5/8	1.74	20	0.4
3/8	S76AUCR003	2.38	1.19	0.76	0.66	5/8	11/16	1.80	20	0.4
1/2	S76AUCR004	2.82	1.41	0.86	0.41	13/16	7/8	2.02	4	0.5
5/8	S76AUCR005	3.04	1.52	0.86	0.96	15/16	1.00	2.26	10	0.9
3/4	S76AUCR006	3.12	1.56	0.86	0.96	1-1/16	1-1/8	2.34	2	1.3
1	S76AUCR010	3.85	1.92	1.05	1.23	1-3/8	1-1/2	2.90	2	1.3

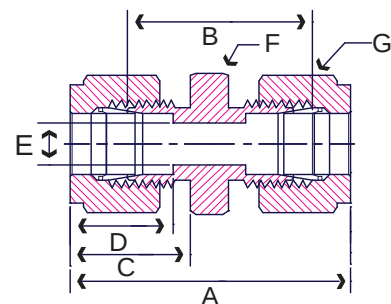


Fig. ASU – Straight Union

Tube OD in	Part Number	A in	B in	C in	D in	E in	F in	G in	Packing	Weight lb
1/8	S76ASU001	1.39	0.87	0.60	0.50	0.09	7/16	7/16	100	0.08
3/16	S76ASU316	1.47	0.95	0.63	0.54	0.12	7/16	1/2	100	0.1
1/4	S76ASU002	1.60	1.02	0.70	0.60	0.19	1/2	9/16	60	0.1
5/16	S76ASU516	1.68	1.10	0.73	0.64	0.25	9/16	5/8	40	0.1
3/8	S76ASU003	1.75	1.18	0.76	0.66	0.28	5/8	11/16	40	0.1
1/2	S76ASU004	2.01	1.21	0.86	0.90	0.41	13/16	7/8	20	0.3
5/8	S76ASU005	2.04	1.24	0.86	0.96	0.50	15/16	1	30	0.4
3/4	S76ASU006	2.10	1.30	0.86	0.96	0.62	1-1/16	1-1/8	10	0.5
1	S76ASU010	2.54	1.58	1.04	1.23	0.88	1-3/8	1-1/2	10	0.7

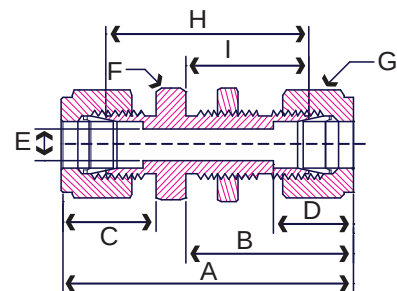


Fig. ABHU – Bulkhead Union

Tube OD in	Part Number	A in	B in	C in	D in	E in	F in	G in	H in	I in	Packing	Weight lb
1/8	S76ABHU001	2.01	1.22	0.60	0.50	0.09	1/2	7/16	1.49	0.96	100	0.09
3/16	S76ABHU316	2.11	1.26	0.63	0.54	0.12	9/16	1/2	1.59	1.00	100	0.1
1/4	S76ABHU002	2.26	1.31	0.70	0.60	0.19	5/8	9/16	1.68	1.02	60	0.1
5/16	S76ABHU516	2.38	1.40	0.73	0.64	0.25	11/16	5/8	1.80	1.11	40	0.1
3/8	S76ABHU003	2.44	1.44	0.76	0.66	0.28	3/4	11/16	1.86	1.15	30	0.2
1/2	S76ABHU004	2.79	1.64	0.86	0.90	0.41	15/16	7/8	1.99	1.24	20	0.3
5/8	S76ABHU005	2.85	1.67	0.86	0.96	0.50	1-1/16	1	2.05	1.27	20	0.5
3/4	S76ABHU006	3.10	1.86	0.86	0.96	0.63	1-3/16	1-1/8	2.30	1.46	10	0.7
1	S76ABHU010	3.76	2.25	1.04	1.23	0.88	1-5/8	1-1/2	2.80	1.77	10	0.9

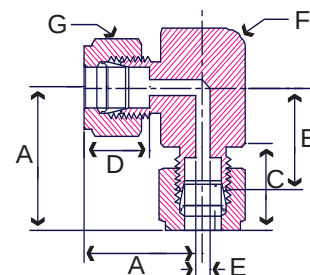


Fig. AUE – Union Elbow

Tube OD in	Part Number	A in	B in	C in	D in	E in	F in	G in	Packing	Weight lb
1/8	S76AUE001	0.87	0.61	0.43	0.34	0.05	3/8	5/16	50	0.1
3/16	S76AUE316	1.00	0.74	0.63	0.54	0.12	1/2	1/2	50	0.1
1/4	S76AUE002	1.05	0.76	0.70	0.60	0.19	1/2	9/16	40	0.1
5/16	S76AUE516	1.12	0.83	0.73	0.64	0.25	9/16	5/8	30	0.2
3/8	S76AUE003	1.19	0.90	0.76	0.66	0.28	5/8	11/16	30	0.3
1/2	S76AUE004	1.41	1.01	0.86	0.90	0.41	13/16	7/8	20	0.3
5/8	S76AUE005	1.49	1.09	0.86	0.96	0.50	15/16	1	20	0.4
3/4	S76AUE006	1.56	1.16	0.86	0.96	0.62	1-1/16	1-1/8	10	0.4
1	S76AUE010	1.92	1.44	1.04	1.23	0.88	1-3/8	1-1/2	10	0.4



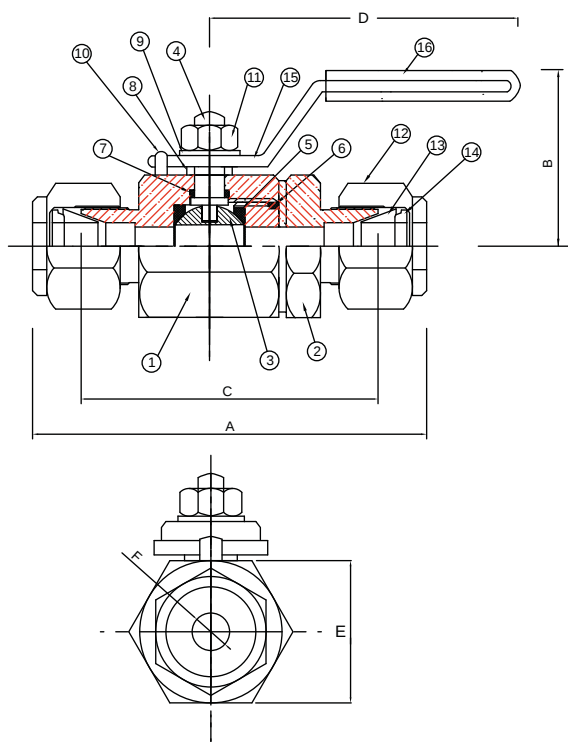
Fig. S64ST4 & S64ST6 – Seamless Instrumentation Tubing

Tube OD in	Wall Thickness in	Part Number		ID in	Tube Length ft	Weight lb / ft
		304/L	316/L			
1/8	0.035	S64ST4035001	S64ST6035001	0.055	20	0.03
1/8	0.049	S64ST4049001	S64ST6049001	0.027	20	0.04
1/4	0.028	S64ST4028002	S64ST6028002	0.194	20	0.06
1/4	0.035	S64ST4035002	S64ST6035002	0.180	20	0.08
1/4	0.049	S64ST4049002	S64ST6049002	0.152	20	0.1
1/4	0.065	S64ST4065002	S64ST6065002	0.120	20	0.1
1/4	0.083	S64ST4083002	S64ST6083002	0.084	20	0.1
5/16	0.035	S64ST4035516	S64ST6035516	0.243	20	0.1
3/8	0.035	S64ST4035003	S64ST6035003	0.305	20	0.1
3/8	0.049	S64ST4049003	S64ST6049003	0.277	20	0.1
3/8	0.065	S64ST4065003	S64ST6065003	0.245	20	0.2
3/8	0.083	S64ST4083003	S64ST6083003	0.209	20	0.2
1/2	0.035	S64ST4035004	S64ST6035004	0.430	20	0.1
1/2	0.049	S64ST4049004	S64ST6049004	0.402	20	0.2
1/2	0.065	S64ST4065004	S64ST6065004	0.370	20	0.3
1/2	0.083	S64ST4083004	S64ST6083004	0.334	20	0.4
1/2	0.120	S64ST4120004	S64ST6120004	0.260	20	0.5
5/8	0.035	S64ST4035005	S64ST6035005	0.555	20	0.2
5/8	0.049	S64ST4049005	S64ST6049005	0.527	20	0.3
5/8	0.065	S64ST4065005	S64ST6065005	0.495	20	0.3
5/8	0.083	S64ST4083005	S64ST6083005	0.509	20	0.5
3/4	0.035	S64ST4035006	S64ST6035006	0.680	20	0.2
3/4	0.049	S64ST4049006	S64ST6049006	0.652	20	0.3
3/4	0.065	S64ST4065006	S64ST6065006	0.620	20	0.4
3/4	0.083	S64ST4083006	S64ST6083006	0.584	20	0.6
3/4	0.095	S64ST4095006	S64ST6095006	0.560	20	0.7
1	0.035	S64ST4035010	S64ST6035010	0.930	20	0.3
1	0.049	S64ST4049010	S64ST6049010	0.902	20	0.4
1	0.065	S64ST4065010	S64ST6065010	0.870	20	0.6
1	0.083	S64ST4083010	S64ST6083010	0.834	20	0.8
1	0.095	S64ST4095010	S64ST6095010	0.810	20	0.9
1	0.120	S64ST4120010	S64ST6120010	0.760	20	1.1
1-1/4	0.065	S64ST4065012	S64ST6065012	1.120	20	0.8



Size: 1/4" to 1"
 Material: 316 stainless steel construction
 Ends: Double ferrule compression tube ends
 Pressure: 1000 psi @ 200°F

INSTRUMENTATION

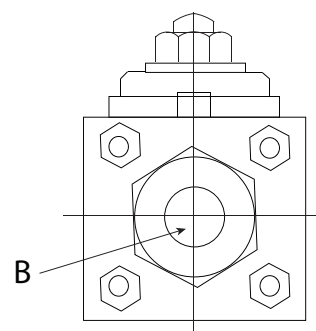
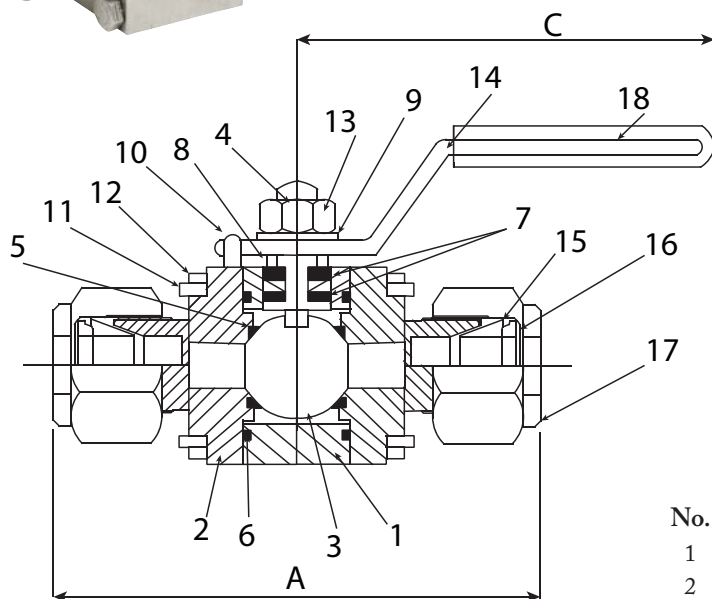


No.	Part	Material
1	Body	316 Stainless Steel
2	Adapter	316 Stainless Steel
3	Ball	316 Stainless Steel
4	Stem	316 Stainless Steel
5	Seats	PTFE
6	Joint Seals	PTFE
7	Gland Seals	316 Stainless Steel
8	Retainer	410 Stainless Steel
9	Washer	Alloy Steel
10	Stop Pin	304 Stainless Steel
11	Stem Nut	304 Stainless Steel
12	Nut	316 Stainless Steel
13	Front Ferrule	316 Stainless Steel
14	Back Ferrule	316 Stainless Steel
15	Handle	304 Stainless Steel
16	Sleeve	PVC

Size in	Part Number	Weight lb	A in	B in	C in	D in	E in	F in
1/4	S76BVH002	0.40	2.93	1.33	2.34	3.71	0.86	0.19
3/8	S76BVH003	0.44	3.12	1.40	2.50	3.71	0.86	0.27
1/2	S76BVH004	0.72	3.51	1.64	2.73	3.90	1.09	0.35
3/4	S76BVH006	1.05	3.90	1.83	2.93	5.27	1.25	0.39
1	S76BVH010	1.62	4.25	1.85	3.26	5.31	1.77	0.75



Size: 1/4" to 1"
 Material: 316 stainless steel construction
 Ends: Double ferrule compression tube ends
 Pressure: 3000 psi @ 200°F

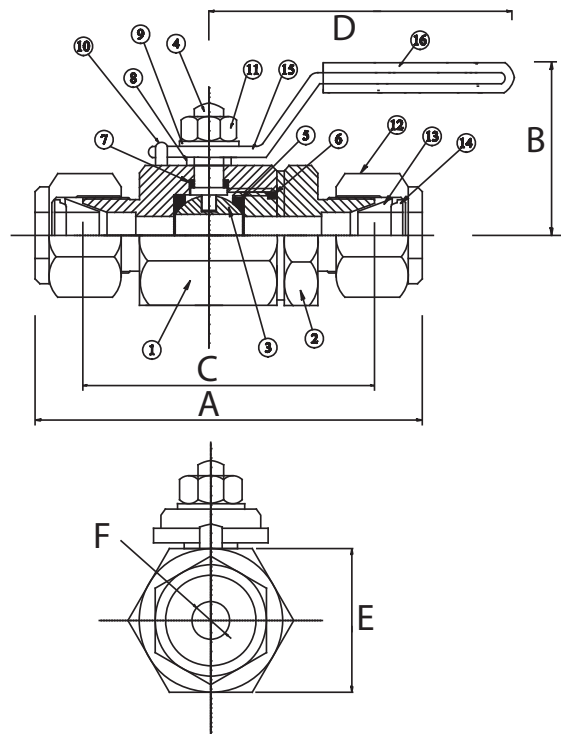


No.	Part	Material
1	Body	316 Stainless Steel
2	Adapter	316 Stainless Steel
3	Ball	316 Stainless Steel
4	Stem	316 Stainless Steel
5	Seats	PTFE
6	Joint Seal	PTFE
7	Gland Seal	PTFE
8	Retainer	304 Stainless Steel
9	Washer	304 Stainless Steel
10	Stop Pin	304 Stainless Steel
11	Stud	304 Stainless Steel
12	Nut	304 Stainless Steel
13	Stem Nut	304 Stainless Steel
14	Handle	304 Stainless Steel
15	Front Ferrule	316 Stainless Steel
16	Back Ferrule	316 Stainless Steel
17	Nut	316 Stainless Steel
18	Sleeve	PVC

Size in	Part Number	Weight lb	A in	B in	C in
1/4	S76BVH3002	0.62	2.95	0.19	3.74
3/8	S76BVH3003	0.74	3.15	0.28	3.74
1/2	S76BVH3004	0.86	3.46	0.39	3.74
3/4	S76BVH3006	1.68	3.86	0.47	5.31
1	S76BVH3010	2.52	4.65	0.75	5.91



Size: 1/4" to 1"
 Material: 316 stainless steel construction
 Ends: Double ferrule compression tube ends
 Pressure: 6000 psi @ 200°F

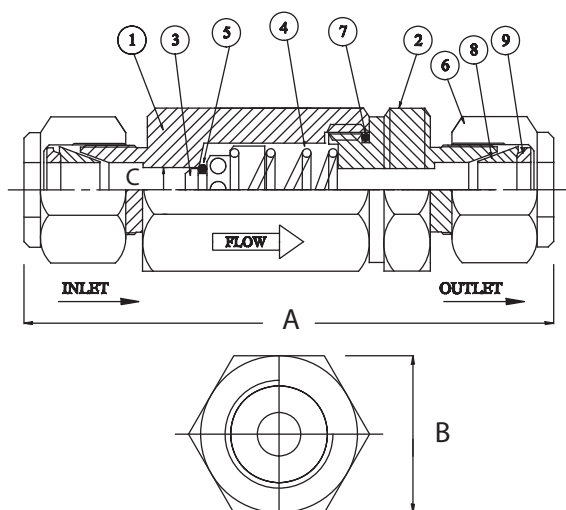


No.	Part	Material
1	Body	316 Stainless Steel
2	Adapter	316 Stainless Steel
3	Ball	316 Stainless Steel
4	Stem	316 Stainless Steel
5	Seats	Delrin
6	Joint Seals	Viton
7	Gland Seals	PTFE
8	Retainer	304 Stainless Steel
9	Washer	304 Stainless Steel
10	Stop Pin	304 Stainless Steel
11	Stem Nut	304 Stainless Steel
12	Nut	316 Stainless Steel
13	Front Ferrule	316 Stainless Steel
14	Back Ferrule	316 Stainless Steel
15	Handle	304 Stainless Steel
16	Sleeve	PVC

Size in	Part Number	Weight lb	A in	B in	C in	D in	E in	F in
1/4	S76BVH6002	0.40	2.95	1.34	2.36	3.74	0.87	0.19
3/8	S76BVH6003	0.44	3.15	1.42	2.56	3.74	0.98	0.28
1/2	S76BVH6004	0.72	3.54	1.57	2.76	3.74	1.10	0.39
3/4	S76BVH6006	1.05	3.94	1.85	3.07	5.31	1.65	0.59
1	S76BVH6010	1.62	4.25	1.85	3.27	5.31	1.77	0.75



Size: 1/4" to 1"
 Material: 316 stainless steel construction
 Ends: Double ferrule compression tube ends
 Pressure: 3000 psi @ 200°F
 Cracking Pressure: 7 psi

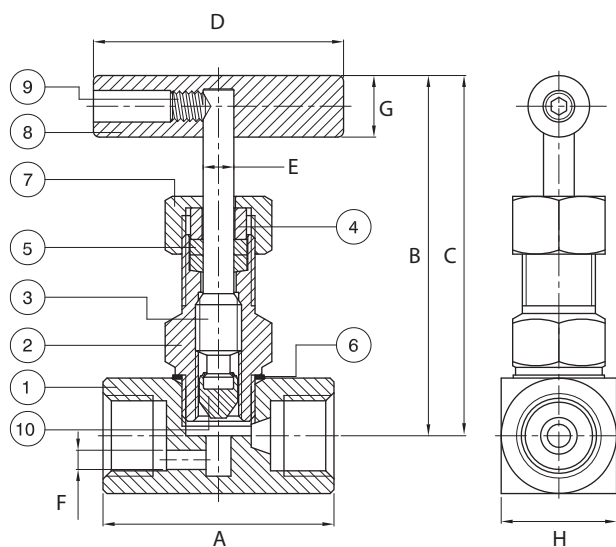


No.	Part	Material
1	Body	316 Stainless Steel
2	Adapter	316 Stainless Steel
3	Poppet	316 Stainless Steel
4	Spring	316 Stainless Steel
5	Seal	Viton
6	Nut	316 Stainless Steel
7	Joint	Viton
8	Front Ferrule	316 Stainless Steel
9	Back Ferrule	316 Stainless Steel

Size in	Part Number	Weight lb	A in	B in	C in
1/4	S76PCV3002	0.3	2.95	0.75	0.19
3/8	S76PCV3003	0.3	3.07	0.87	0.28
1/2	S76PCV3004	0.5	3.46	0.98	0.39
3/4	S76PCV3006	0.6	4.13	1.10	0.59
1	S76PCV3010	1.5	4.53	1.77	0.75



Size: 1/4" to 1"
Material: 316 stainless steel
Ends: NPT threaded
Pressure: 6000 psi
Temperature: 0°F to 650°F



No.	Part	Material
1	Body	316 Stainless Steel
2	Bonnet	316 Stainless Steel
3	Stem	316 Stainless Steel
4	Gland	316 Stainless Steel
5	Packing	PTFE
6	Body Seal	PTFE
7	Gland Nut	316 Stainless Steel
8	Handle	410 Stainless Steel
9	Set Screw	Alloy Steel
10	Disc	316 Stainless Steel

Size in	Part Number	Weight lb	A in	B in	C in	D in	E in	F in	G in	H in	Cv
1/4	S7166NV002	1.0	1.77	2.56	3.23	2.36	0.28	0.12	0.51	0.87	0.4
3/8	S7166NV003	1.1	1.97	2.64	3.35	2.36	0.28	0.12	0.51	0.98	0.4
1/2	S7166NV004	1.6	2.36	3.39	4.21	2.56	0.31	0.16	0.63	1.18	0.75
3/4	S7166NV006	1.9	2.56	3.46	4.37	2.56	0.31	0.20	0.63	1.38	0.9
1	S7166NV010	3.1	3.27	3.94	5.12	3.15	0.39	0.28	0.75	1.81	1.8





Standard Weight 150# Stainless Fittings

Specifications

- Stainless castings conform to ASTM A351
- NPT threads conform to ASME B1.20.1
- Manufacturing facility is ISO 9001:2008
- Fittings meet applicable chemical & physical properties

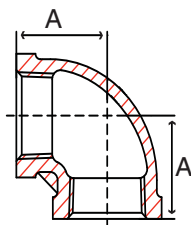
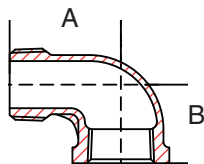


Fig. S3014E & S3016E - 90° Elbow

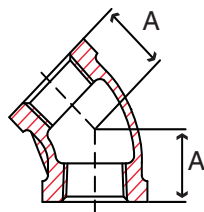
Size in	Part Number		A in	Packing		Weight lb
	304	316		Inner	Master	
1/8	S3014E 001	S3016E 001	0.67	120	480	0.1
1/4	S3014E 002	S3016E 002	0.75	100	400	0.1
3/8	S3014E 003	S3016E 003	0.91	50	200	0.2
1/2	S3014E 004	S3016E 004	1.06	30	120	0.2
3/4	S3014E 006	S3016E 006	1.26	18	72	0.4
1	S3014E 010	S3016E 010	1.46	10	40	0.6
1-1/4	S3014E 012	S3016E 012	1.69	5	20	0.9
1-1/2	S3014E 014	S3016E 014	1.89	5	20	1.3
2	S3014E 020	S3016E 020	2.20	2	8	2.0
2-1/2	S3014E 024	S3016E 024	2.68	-	7	2.6
3	S3014E 030	S3016E 030	3.03	-	4	4.4
4	S3014E 040	S3016E 040	3.78	-	2	7.0

Fig. S3014SE & S3016SE 90° Street Elbow



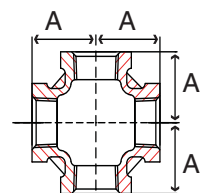
Size in	Part Number		A in	B in	Packing		Weight lb
	304	316			Inner	Master	
1/8	S3014SE001	S3016SE001	0.91	0.67	150	600	0.06
1/4	S3014SE002	S3016SE002	1.14	0.75	120	480	0.1
3/8	S3014SE003	S3016SE003	1.30	0.91	60	240	0.2
1/2	S3014SE004	S3016SE004	1.44	1.06	35	140	0.2
3/4	S3014SE006	S3016SE006	1.67	1.26	18	72	0.4
1	S3014SE010	S3016SE010	2.05	1.46	12	48	0.6
1-1/4	S3014SE012	S3016SE012	2.28	1.69	5	20	0.9
1-1/2	S3014SE014	S3016SE014	2.52	1.89	4	16	1.3
2	S3014SE020	S3016SE020	2.91	2.20	2	8	2.1
2-1/2	S3014SE024	S3016SE024	3.44	2.68	-	6	3.6
3	S3014SE030	S3016SE030	4.02	3.03	-	4	5.1
4	S3014SE040	S3016SE040	4.33	3.78	-	2	8.6

Fig. S3014F & S3016F - 45° Elbow



Size in	Part Number		A in	Packing		Weight lb
	304	316		Inner	Master	
1/8	S3014F 001	S3016F 001	0.67	150	600	0.07
1/4	S3014F 002	S3016F 002	0.75	100	400	0.1
3/8	S3014F 003	S3016F 003	0.91	60	240	0.1
1/2	S3014F 004	S3016F 004	1.06	40	160	0.2
3/4	S3014F 006	S3016F 006	1.26	20	80	0.3
1	S3014F 010	S3016F 010	1.46	10	40	0.5
1-1/4	S3014F 012	S3016F 012	1.69	6	24	0.8
1-1/2	S3014F 014	S3016F 014	1.89	4	16	1.1
2	S3014F 020	S3016F 020	2.20	2	8	2.3
2-1/2	S3014F 024	S3016F 024	2.68	-	8	2.2
3	S3014F 030	S3016F 030	3.03	-	6	3.5
4	S3014F 040	S3016F 040	3.78	-	3	6.0

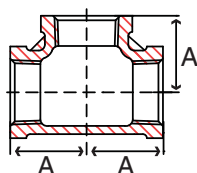
Fig. S3014X & S3016X - Cross



Size in	Part Number		A in	Packing		Weight lb
	304	316		Inner	Master	
1/8	S3014X 001	S3016X 001	0.67	50	200	0.05
1/4	S3014X 002	S3016X 002	0.75	50	200	0.05
3/8	S3014X 003	S3016X 003	0.91	30	120	0.06
1/2	S3014X 004	S3016X 004	1.06	15	60	0.1
3/4	S3014X 006	S3016X 006	1.26	10	40	0.2
1	S3014X 010	S3016X 010	1.46	5	20	0.2
1-1/4	S3014X 012	S3016X 012	1.69	3	12	0.4
1-1/2	S3014X 014	S3016X 014	1.89	2	8	0.4
2	S3014X 020	S3016X 020	2.20	-	9	0.6
2-1/2	S3014X 024	S3016X 024	2.68	-	3	1.1
3	S3014X 030	S3016X 030	3.03	-	2	1.3
4	S3014X 040	S3016X 040	3.78	-	1	2.6

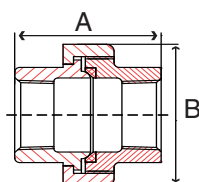
Note: Non-MSS Fittings, Dimensions, Weights and Packing May Vary.

Fig. S3014T & S3016T - Tee



Size in	Part Number		A in	Packing		Weight lb
	304	316		Inner	Master	
1/8	S3014T 001	S3016T 001	0.67	75	300	0.1
1/4	S3014T 002	S3016T 002	0.75	70	280	0.1
3/8	S3014T 003	S3016T 003	0.91	40	160	0.2
1/2	S3014T 004	S3016T 004	1.06	20	80	0.3
3/4	S3014T 006	S3016T 006	1.26	12	48	0.5
1	S3014T 010	S3016T 010	1.46	8	32	0.8
1-1/4	S3014T 012	S3016T 012	1.69	-	26	1.2
1-1/2	S3014T 014	S3016T 014	1.89	-	18	1.7
2	S3014T 020	S3016T 020	2.20	-	10	2.7
2-1/2	S3014T 024	S3016T 024	2.68	-	5	4.4
3	S3014T 030	S3016T 030	3.03	-	4	5.8
4	S3014T 040	S3016T 040	3.78	-	2	9.8

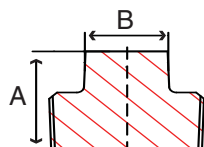
Fig. S3014U & S3016U - Union



Size in	Part Number		A in	B in	Packing		Weight lb
	304	316			Inner	Master	
1/8	S3014U 001	S3016U 001	0.98	0.98	50	200	0.2
1/4	S3014U 002	S3016U 002	1.20	1.22	50	200	0.2
3/8	S3014U 003	S3016U 003	1.32	1.34	35	140	0.3
1/2	S3014U 004	S3016U 004	1.46	1.46	25	100	0.3
3/4	S3014U 006	S3016U 006	1.56	1.81	12	48	0.5
1	S3014U 010	S3016U 010	1.85	2.05	12	48	0.8
1-1/4	S3014U 012	S3016U 012	2.05	2.52	3	12	1.2
1-1/2	S3014U 014	S3016U 014	2.19	2.76	4	16	1.5
2	S3014U 020	S3016U 020	2.50	3.39	2	8	2.5
2-1/2	S3014U 024	S3016U 024	3.01	4.13	-	8	3.3
3	S3014U 030	S3016U 030	3.19	4.61	-	7	4.9
4	S3014U 040	S3016U 040	3.74	5.79	-	1	7.5

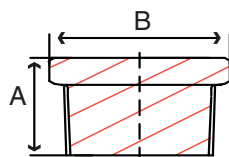
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Fig. S3014SP & S3016SP - Square Head Plug



Size in	Part Number		A in	B in	Packing		Weight lb
	304	316			Inner	Master	
1/8	S3014SP001	S3016SP001	0.43	0.28	600	2400	0.01
1/4	S3014SP002	S3016SP002	0.59	0.35	500	2000	0.03
3/8	S3014SP003	S3016SP003	0.63	0.39	300	1200	0.05
1/2	S3014SP004	S3016SP004	0.79	0.43	150	600	0.08
3/4	S3014SP006	S3016SP006	0.87	0.69	100	400	0.1
1	S3014SP010	S3016SP010	0.98	0.75	45	180	0.2
1-1/4	S3014SP012	S3016SP012	1.18	0.87	35	140	0.3
1-1/2	S3014SP014	S3016SP014	1.22	0.87	25	100	0.3
2	S3014SP020	S3016SP020	1.46	1.06	12	48	0.6
2-1/2	S3014SP024	S3016SP024	1.50	1.26	5	20	0.7
3	S3014SP030	S3016SP030	1.77	1.34	3	12	1.4
4	S3014SP040	S3016SP040	1.81	1.65	-	15	2.3

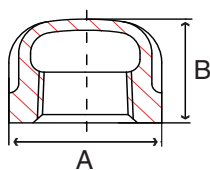
Fig. S3014HP & S3016HP - Hex Head Plug



Size in	Part Number		A in	B in	Packing		Weight lb
	304	316			Inner	Master	
1/8	S3014HP001	S3016HP001	0.51	0.50	400	1600	0.02
1/4	S3014HP002	S3016HP002	0.58	0.62	300	1200	0.04
3/8	S3014HP003	S3016HP003	0.64	0.68	200	800	0.05
1/2	S3014HP004	S3016HP004	0.75	0.87	120	480	0.08
3/4	S3014HP006	S3016HP006	0.85	1.20	60	240	0.1
1	S3014HP010	S3016HP010	1.00	1.43	35	140	0.2
1-1/4	S3014HP012	S3016HP012	1.08	1.76	18	72	0.4
1-1/2	S3014HP014	S3016HP014	1.14	2.00	15	60	0.4
2	S3014HP020	S3016HP020	1.22	2.48	6	24	0.7
2-1/2	S3014HP024	S3016HP024	1.44	2.98	4	16	1.3
3	S3014HP030	S3016HP030	1.53	3.86	-	16	2.0
4	S3014HP040	S3016HP040	1.72	4.62	-	10	3.2

Note: Non-MSS Fittings, Dimensions, Weights and Packing May Vary.

Fig. S3014C & S3016C - Cap



Size in	Part Number		A in	B in	Packing		Weight lb
	304	316			Inner	Master	
1/8	S3014C 001	S3016C 001	0.53	0.47	300	1200	0.05
1/4	S3014C 002	S3016C 002	0.63	0.59	200	800	0.08
3/8	S3014C 003	S3016C 003	0.79	0.63	120	480	0.1
1/2	S3014C 004	S3016C 004	1.02	0.79	90	360	0.2
3/4	S3014C 006	S3016C 006	1.22	0.83	50	200	0.3
1	S3014C 010	S3016C 010	1.52	0.98	25	100	0.5
1-1/4	S3014C 012	S3016C 012	1.81	1.14	16	64	0.7
1-1/2	S3014C 014	S3016C 014	2.09	1.18	15	60	0.9
2	S3014C 020	S3016C 020	2.60	1.30	8	32	1.3
2-1/2	S3014C 024	S3016C 024	3.31	1.34	-	30	2.3
3	S3014C 030	S3016C 030	3.94	1.42	-	18	3.7
4	S3014C 040	S3016C 040	4.88	1.46	-	12	5.6

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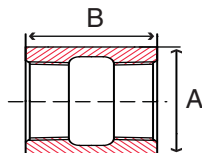


Fig. S3014CP & S3016CP - Full Coupling

Size in	Part Number		A in	B in	Packing		Weight lb
	304	316			Inner	Master	
1/8	S3014CP001	S3016CP001	0.55	0.77	200	800	0.03
1/4	S3014CP002	S3016CP002	0.71	0.94	120	480	0.1
3/8	S3014CP003	S3016CP003	0.83	0.98	100	400	0.1
1/2	S3014CP004	S3016CP004	1.02	1.26	60	240	0.3
3/4	S3014CP006	S3016CP006	1.22	1.38	36	144	0.4
1	S3014CP010	S3016CP010	1.50	1.65	18	72	0.7
1-1/4	S3014CP012	S3016CP012	1.89	1.85	12	48	1.1
1-1/2	S3014CP014	S3016CP014	2.13	1.85	12	48	1.5
2	S3014CP020	S3016CP020	2.60	1.97	4	16	2.3
2-1/2	S3014CP024	S3016CP024	3.23	2.52	-	10	2.6
3	S3014CP030	S3016CP030	3.74	2.91	-	6	3.2
4	S3014CP040	S3016CP040	4.78	3.15	-	4	5.9
6	S3014CP060	S3016CP060	6.75	5.40	-	1	13.4

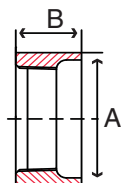
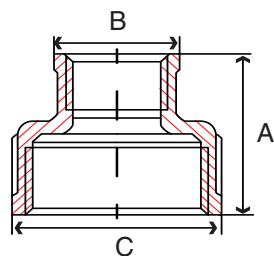


Fig. S3014HC & S3016HC - Half Coupling

Size in	Part Number		A in	B in	Packing		Weight lb
	304	316			Inner	Master	
1/8	S3014HC001	S3016HC001	0.55	0.30	400	1600	0.0220
1/4	S3014HC002	S3016HC002	0.71	0.39	300	1200	0.03
3/8	S3014HC003	S3016HC003	0.83	0.45	200	800	0.05
1/2	S3014HC004	S3016HC004	1.02	0.57	120	480	0.08
3/4	S3014HC006	S3016HC006	1.22	0.67	70	280	0.1
1	S3014HC010	S3016HC010	1.50	0.79	40	160	0.2
1-1/4	S3014HC012	S3016HC012	1.89	0.87	24	96	0.3
1-1/2	S3014HC014	S3016HC014	2.13	0.85	20	80	0.4
2	S3014HC020	S3016HC020	2.60	1.18	10	40	0.5
2-1/2	S3014HC024	S3016HC024	3.23	1.26	6	24	1.0
3	S3014HC030	S3016HC030	3.74	1.50	-	12	1.2
4	S3014HC040	S3016HC040	4.76	1.50	-	12	2.3
6	S3014HC060	S3016HC060	6.75	1.75	-	1	3.6

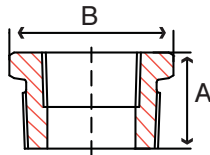
Note: Non-MSS Fittings, Dimensions, Weights and Packing May Vary.

Fig. S3014RC & S3016RC - Reducing Coupling



Size in	Part Number		A in	B in	C in	Packing		Weight lb
	304	316				Inner	Master	
1/4 x 1/8	S3014RC002001	S3016RC002001	0.83	0.55	0.67	150	600	0.08
3/8 x 1/8	S3014RC003001	S3016RC003001	0.98	0.55	0.83	100	400	0.1
3/8 x 1/4	S3014RC003002	S3016RC003002	1.06	0.67	0.83	100	400	0.1
1/2 x 1/8	S3014RC004001	S3016RC004001	1.06	0.75	1.02	60	240	0.2
1/2 x 1/4	S3014RC004002	S3016RC004002	1.14	0.67	1.02	60	240	0.2
1/2 x 3/8	S3014RC004003	S3016RC004003	1.26	0.83	1.02	60	240	0.2
3/4 x 1/8	S3014RC006001	S3016RC006001	1.14	0.59	1.26	36	144	0.3
3/4 x 1/4	S3014RC006002	S3016RC006002	1.22	0.67	1.26	36	144	0.3
3/4 x 3/8	S3014RC006003	S3016RC006003	1.34	0.87	1.26	36	144	0.3
3/4 x 1/2	S3014RC006004	S3016RC006004	1.42	1.06	1.26	36	144	0.3
1 x 1/8	S3014RC010001	S3016RC010001	1.26	0.67	1.57	20	80	0.2
1 x 1/4	S3014RC010002	S3016RC010002	1.26	0.67	1.57	20	80	0.2
1 x 3/8	S3014RC010003	S3016RC010003	1.38	0.83	1.57	20	80	0.2
1 x 1/2	S3014RC010004	S3016RC010004	1.54	1.06	1.57	20	80	0.2
1 x 3/4	S3014RC010006	S3016RC010006	1.57	1.26	1.57	20	80	0.2
1-1/4 x 1/8	S3014RC012001	S3016RC012001	1.57	1.06	1.93	18	64	0.9
1-1/4 x 1/4	S3014RC012002	S3016RC012002	1.57	1.06	1.93	18	64	0.9
1-1/4 x 3/8	S3014RC012003	S3016RC012003	1.57	1.06	1.93	18	64	0.9
1-1/4 x 1/2	S3014RC012004	S3016RC012004	1.57	1.06	1.93	18	64	0.9
1-1/4 x 3/4	S3014RC012006	S3016RC012006	1.65	1.26	1.93	18	64	0.9
1-1/4 x 1	S3014RC012010	S3016RC012010	1.77	1.57	1.93	18	64	0.9
1-1/2 x 1/8	S3014RC014001	S3016RC014001	1.65	1.02	2.17	12	48	1.2
1-1/2 x 1/4	S3014RC014002	S3016RC014002	1.65	1.02	2.17	12	48	1.2
1-1/2 x 3/8	S3014RC014003	S3016RC014003	1.65	1.02	2.17	12	48	1.2
1-1/2 x 1/2	S3014RC014004	S3016RC014004	1.65	1.02	2.17	12	48	1.2
1-1/2 x 3/4	S3014RC014006	S3016RC014006	1.77	1.26	2.17	12	48	1.2
1-1/2 x 1	S3014RC014010	S3016RC014010	1.85	1.54	2.17	12	48	1.2
1-1/2 x 1-1/4	S3014RC014012	S3016RC014012	1.93	1.89	2.17	12	48	1.2
2 x 1/8	S3014RC020001	S3016RC020001	1.73	1.02	2.68	4	16	1.9
2 x 1/4	S3014RC020002	S3016RC020002	1.73	1.02	2.68	4	16	1.9
2 x 3/8	S3014RC020003	S3016RC020003	1.73	1.02	2.68	4	16	1.9
2 x 1/2	S3014RC020004	S3016RC020004	1.73	1.02	2.68	4	16	1.9
2 x 3/4	S3014RC020006	S3016RC020006	1.81	1.26	2.68	4	16	1.9
2 x 1	S3014RC020010	S3016RC020010	1.93	1.54	2.68	4	16	1.9
2 x 1-1/4	S3014RC020012	S3016RC020012	2.01	1.89	2.68	4	16	1.9
2 x 1-1/2	S3014RC020014	S3016RC020014	2.01	2.17	2.68	4	16	1.9
2-1/2 x 1/2	S3014RC024004	S3016RC024004	2.36	1.57	3.23	-	18	2.9
2-1/2 x 3/4	S3014RC024006	S3016RC024006	2.17	1.26	3.23	-	18	2.8
2-1/2 x 1	S3014RC024010	S3016RC024010	2.32	1.54	3.23	-	18	2.8
2-1/2 x 1-1/4	S3014RC024012	S3016RC024012	2.52	1.89	3.23	-	18	2.8
2-1/2 x 1-1/2	S3014RC024014	S3016RC024014	2.52	2.20	3.31	-	18	2.8
2-1/2 x 2	S3014RC024020	S3016RC024020	2.56	2.68	3.31	-	18	2.8
3 x 3/4	S3014RC030006	S3016RC030006	2.24	1.26	3.86	-	12	4.9
3 x 1	S3014RC030010	S3016RC030010	2.32	1.57	3.86	-	12	4.9
3 x 1-1/4	S3014RC030012	S3016RC030012	2.56	1.89	3.86	-	12	4.9
3 x 1-1/2	S3014RC030014	S3016RC030014	2.68	2.17	3.86	-	12	4.9
3 x 2	S3014RC030020	S3016RC030020	2.60	2.72	3.86	-	12	4.9
3 x 2-1/2	S3014RC030024	S3016RC030024	2.60	3.31	3.86	-	9	4.9
4 x 1	S3014RC040010	S3016RC040010	2.52	1.57	4.84	-	4	7.7
4 x 1-1/2	S3014RC040014	S3016RC040014	2.72	2.17	4.84	-	4	7.7
4 x 2	S3014RC040020	S3016RC040020	2.72	2.68	4.84	-	4	7.7
4 x 2-1/2	S3014RC040024	S3016RC040024	2.72	3.31	4.84	-	4	7.7
4 x 3	S3014RC040030	S3016RC040030	2.72	3.86	4.84	-	4	7.7

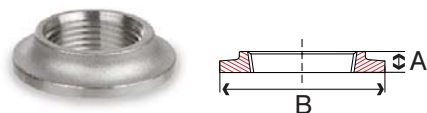
Fig. S3014HB & S3016HB - Hex Bushing



Size in	Part Number		A in	B in	Packing		Weight lb
	304	316			Inner	Master	
1/4 x 1/8	S3014HB002001	S3016HB002001	0.59	0.59	300	1200	0.02
3/8 x 1/8	S3014HB003001	S3016HB003001	0.71	0.61	200	800	0.04
3/8 x 1/4	S3014HB003002	S3016HB003002	0.71	0.61	200	800	0.04
1/2 x 1/8	S3014HB004001	S3016HB004001	0.89	0.89	120	480	0.07
1/2 x 1/4	S3014HB004002	S3016HB004002	0.89	0.89	120	480	0.07
1/2 x 3/8	S3014HB004003	S3016HB004003	0.89	0.89	120	480	0.07
3/4 x 1/8	S3014HB006001	S3016HB006001	1.12	0.96	70	280	0.2
3/4 x 1/4	S3014HB006002	S3016HB006002	1.12	0.96	70	280	0.2
3/4 x 3/8	S3014HB006003	S3016HB006003	1.12	0.96	70	280	0.2
3/4 x 1/2	S3014HB006004	S3016HB006004	1.12	0.96	70	280	0.2
1 x 1/8	S3014HB010001	S3016HB010001	1.38	1.04	40	160	0.2
1 x 1/4	S3014HB010002	S3016HB010002	1.38	1.04	40	160	0.2
1 x 3/8	S3014HB010003	S3016HB010003	1.38	1.04	40	160	0.2
1 x 1/2	S3014HB010004	S3016HB010004	1.38	1.04	40	160	0.2
1 x 3/4	S3014HB010006	S3016HB010006	1.38	1.04	40	160	0.2
1-1/4 x 1/8	S3014HB012001	S3016HB012001	1.73	1.16	20	80	0.3
1-1/4 x 1/4	S3014HB012002	S3016HB012002	1.73	1.16	20	80	0.3
1-1/4 x 3/8	S3014HB012003	S3016HB012003	1.73	1.16	20	80	0.3
1-1/4 x 1/2	S3014HB012004	S3016HB012004	1.73	1.16	20	80	0.3
1-1/4 x 3/4	S3014HB012006	S3016HB012006	1.73	1.16	20	80	0.3
1-1/4 x 1	S3014HB012010	S3016HB012010	1.73	1.16	20	80	0.3
1-1/2 x 1/8	S3014HB014001	S3016HB014001	1.97	1.24	18	72	0.4
1-1/2 x 1/4	S3014HB014002	S3016HB014002	1.97	1.24	18	72	0.4
1-1/2 x 3/8	S3014HB014003	S3016HB014003	1.97	1.24	18	72	0.4
1-1/2 x 1/2	S3014HB014004	S3016HB014004	1.97	1.24	18	72	0.4
1-1/2 x 3/4	S3014HB014006	S3016HB014006	1.97	1.24	18	72	0.4
1-1/2 x 1	S3014HB014010	S3016HB014010	1.97	1.24	18	72	0.4
1-1/2 x 1-1/4	S3014HB014012	S3016HB014012	1.97	1.24	18	72	0.4
2 x 1/8	S3014HB020001	S3016HB020001	2.48	1.38	9	36	0.6
2 x 1/4	S3014HB020002	S3016HB020002	2.48	1.38	9	36	0.6
2 x 3/8	S3014HB020003	S3016HB020003	2.48	1.38	9	36	0.6
2 x 1/2	S3014HB020004	S3016HB020004	2.48	1.38	9	36	0.6
2 x 3/4	S3014HB020006	S3016HB020006	2.48	1.38	9	36	0.6
2 x 1	S3014HB020010	S3016HB020010	2.48	1.38	9	36	0.6
2 x 1-1/4	S3014HB020012	S3016HB020012	3.09	1.38	9	36	0.6
2 x 1-1/2	S3014HB020014	S3016HB020014	3.09	1.38	9	36	0.6
2-1/2 x 1/2	S3014HB024004	S3016HB024004	3.09	1.54	4	16	1.1
2-1/2 x 3/4	S3014HB024006	S3016HB024006	3.09	1.54	4	16	1.1
2-1/2 x 1	S3014HB024010	S3016HB024010	3.09	1.54	4	16	1.1
2-1/2 x 1-1/4	S3014HB024012	S3016HB024012	3.09	1.54	4	16	1.1
2-1/2 x 1-1/2	S3014HB024014	S3016HB024014	3.09	1.54	4	16	1.1
2-1/2 x 2	S3014HB024020	S3016HB024020	3.09	1.54	4	16	1.1
3 x 1/2	S3014HB030004	S3016HB030004	3.62	1.65	3	12	1.3
3 x 3/4	S3014HB030006	S3016HB030006	3.62	1.65	3	12	1.3
3 x 1	S3014HB030010	S3016HB030010	3.62	1.65	3	12	1.3
3 x 1-1/4	S3014HB030012	S3016HB030012	3.62	1.65	3	12	1.3
3 x 1-1/2	S3014HB030014	S3016HB030014	3.62	1.65	3	12	1.3
3 x 2	S3014HB030020	S3016HB030020	3.62	1.65	3	12	1.3
3 x 2-1/2	S3014HB030024	S3016HB030024	3.62	1.65	3	12	1.3
4 x 1	S3014HB040010	S3016HB040010	4.61	1.89	-	8	2.6
4 x 1-1/4	S3014HB040012	S3016HB040012	4.61	1.89	-	8	2.6
4 x 1-1/2	S3014HB040014	S3016HB040014	4.61	1.89	-	8	2.6
4 x 2	S3014HB040020	S3016HB040020	4.61	1.89	-	8	2.6
4 x 2-1/2	S3014HB040024	S3016HB040024	4.61	1.89	-	8	2.6
4 x 3	S3014HB040030	S3016HB040030	4.61	1.89	-	8	2.6

Note: Non-MSS Fittings, Dimensions, Weights and Packing May Vary.

Fig. S3616WS - Weld Spud



Size in	Part Number 316	A in	B in	Packing		Weight lb
				Inner	Master	
1/4	S3616WS002	0.50	1.50	-	1	0.05
3/8	S3616WS003	0.50	1.62	-	1	0.06
1/2	S3616WS004	0.59	1.75	-	1	0.1
3/4	S3616WS006	0.65	1.93	-	1	0.2
1	S3616WS010	0.78	2.18	-	1	0.2
1-1/4	S3616WS012	0.75	2.68	-	1	0.3
1-1/2	S3616WS014	0.87	3.00	-	1	0.4
2	S3616WS020	0.93	3.50	-	1	0.6
2-1/2	S3616WS024	1.00	4.06	-	1	1.1
3	S3616WS030	1.00	4.62	-	1	1.3
4	S3616WS040	1.12	5.81	-	1	2.6

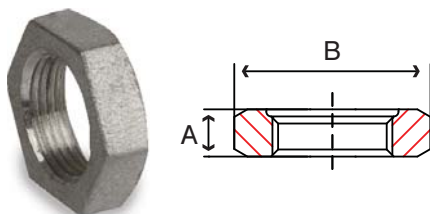
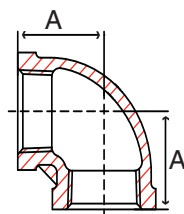


Fig. S3314LN & S3316LN - Lock Nut

Size in	Part Number		A in	B in	Packing		Weight lb
	304	316			Inner	Master	
1/8	S3314LN001	S3316LN001	0.25	0.68	-	1	0.03
1/4	S3314LN002	S3316LN002	0.28	0.75	-	1	0.03
3/8	S3314LN003	S3316LN003	0.30	1.00	-	1	0.05
1/2	S3314LN004	S3316LN004	0.30	1.19	-	1	0.06
3/4	S3314LN006	S3316LN006	0.36	1.35	-	1	0.1
1	S3314LN010	S3316LN010	0.35	1.70	-	1	0.1
1-1/4	S3314LN012	S3316LN012	0.46	2.05	-	1	0.2
1-1/2	S3314LN014	S3316LN014	0.46	2.29	-	1	0.3
2	S3314LN020	S3316LN020	0.52	2.83	-	1	0.4
2-1/2	S3314LN024	S3316LN024	0.58	3.56	-	1	0.8
3	S3314LN030	S3316LN030	0.67	4.06	-	1	1.3
4	S3314LN040	S3316LN040	0.71	5.04	-	1	2.0

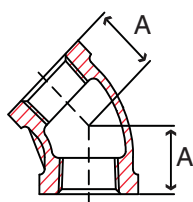
STANDARD 150#

Fig. S3714E & S3716E - 90° Elbow



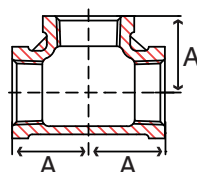
Size in	Part Number		A in	Packing		Weight lb
	304	316		Inner	Master	
1/2	S3714E 004	S3716E 004	1.06	20	80	0.3
3/4	S3714E 006	S3716E 006	1.24	15	60	0.5
1	S3714E 010	S3716E 010	1.42	5	20	0.9
1-1/4	S3714E 012	S3716E 012	1.65	5	20	1.3
1-1/2	S3714E 014	S3716E 014	1.89	2	8	1.6
2	S3714E 020	S3716E 020	2.20	2	8	2.2
2-1/2	S3714E 024	S3716E 024	2.68	-	1	4.3
3	S3714E 030	S3716E 030	3.03	-	1	6.3

Fig. S3714F & S3716F - 45° Elbow



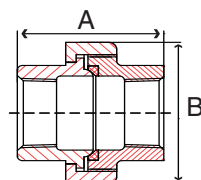
Size in	Part Number		A in	Packing		Weight lb
	304	316		Inner	Master	
1/2	S3714F 004	S3716F 004	1.06	30	120	0.2
3/4	S3714F 006	S3716F 006	1.24	20	80	0.4
1	S3714F 010	S3716F 010	1.42	10	40	0.6
1-1/4	S3714F 012	S3716F 012	1.65	5	20	1.0
1-1/2	S3714F 014	S3716F 014	1.89	4	16	1.5
2	S3714F 020	S3716F 020	2.20	2	8	2.0

Fig. S3714T & S3716T - Tee



Size in	Part Number		A in	Packing		Weight lb
	304	316		Inner	Master	
1/2	S3714T 004	S3716T 004	1.06	20	80	0.4
3/4	S3714T 006	S3716T 006	1.24	10	40	0.7
1	S3714T 010	S3716T 010	1.42	5	20	1.1
1-1/4	S3714T 012	S3716T 012	1.65	2	8	1.9
1-1/2	S3714T 014	S3716T 014	1.89	2	8	2.1
2	S3714T 020	S3716T 020	2.20	-	1	3.3
2-1/2	S3714T 024	S3716T 024	2.68	-	1	5.9
3	S3714T 030	S3716T 030	3.03	-	1	9.3

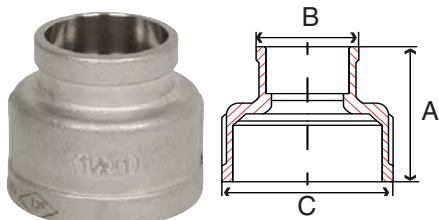
Fig. S3714U & S3716U - Union



Size in	Part Number		A in	B in	Packing		Weight lb
	304	316			Inner	Master	
1/2	S3714U 004	S3716U 004	1.46	1.46	20	80	0.4
3/4	S3714U 006	S3716U 006	1.56	1.81	10	40	0.5
1	S3714U 010	S3716U 010	1.85	2.05	5	20	0.9
1-1/4	S3714U 012	S3716U 012	2.05	2.52	2	8	1.3
1-1/2	S3714U 014	S3716U 014	2.19	2.76	2	8	2.0
2	S3714U 020	S3716U 020	2.50	3.39	2	8	3.0

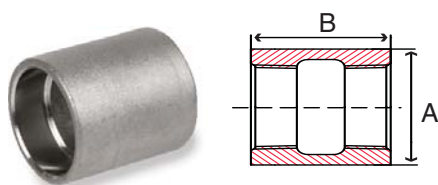
Note: Non-MSS Fittings, Dimensions, Weights and Packing May Vary.

Fig. 3714RC & 3716RC - Reducing Coupling



Size in	Part Number		A in	B in	C in	Packing		Weight lb
	304	316				Inner	Master	
3/4 x 1/2	S3714RC006004	S3716RC006004	1.42	1.06	1.26	15	60	0.3
1 x 1/2	S3714RC010004	S3716RC010004	1.54	1.06	1.57	15	60	0.6
1 x 3/4	S3714RC010006	S3716RC010006	1.57	1.26	1.57	15	60	0.6
1-1/4 x 1	S3714RC012010	S3716RC012010	1.77	1.57	1.93	10	40	0.7
1-1/2 x 1	S3714RC014010	S3716RC014010	1.85	1.54	2.17	10	40	0.8
1-1/2 x 1-1/4	S3714RC014012	S3716RC014012	1.93	1.89	2.17	10	40	0.8
2 x 1	S3714RC020010	S3716RC020010	1.93	1.54	2.68	2	8	1.6
2 x 1-1/2	S3714RC020014	S3716RC020014	2.01	2.17	2.68	2	8	1.6

Fig. 3714CP & 3716CP - Full Coupling



Size in	Part Number		A in	B in	Packing		Weight lb
	304	316			Inner	Master	
1/2	S3714CP004	S3716CP004	1.20	1.38	50	200	0.1
3/4	S3714CP006	S3716CP006	1.46	1.50	35	140	0.2
1	S3714CP010	S3716CP010	1.77	1.62	15	60	0.4
1-1/4	S3714CP012	S3716CP012	2.15	2.00	10	40	0.5
1-1/2	S3714CP014	S3716CP014	2.43	2.12	10	40	0.6
2	S3714CP020	S3716CP020	2.96	2.50	2	8	1.3
2-1/2	S3714CP024	S3716CP024	3.31	2.87	-	1	2.3
3	S3714CP030	S3716CP030	4.00	3.18	-	1	3.3



Bar Stock Fittings

Specifications

- Stainless bar stock dimensions conform to MSS SP-114
- Stainless bar stock conforms to A-479
- NPT threads conform to ASME B1.20.1
- Manufacturing facility is ISO 9001:2008
- Fittings meet applicable chemical & physical properties

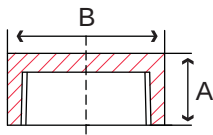
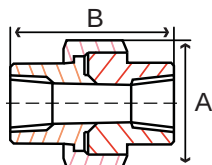


Fig. S3414C & S3416C - Cap

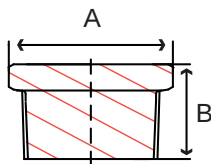
Size in	Part Number		A in	B in	Weight lb
	304	316			
1/8	S3414C 001B	S3416C 001B	0.62	0.68	0.05
1/4	S3414C 002B	S3416C 002B	0.74	0.68	0.07
3/8	S3414C 003B	S3416C 003B	0.86	0.80	0.09
1/2	S3414C 004B	S3416C 004B	1.05	0.93	0.1
3/4	S3414C 006B	S3416C 006B	1.29	1.05	0.4
1	S3414C 010B	S3416C 010B	1.60	1.35	0.5
1-1/4	S3414C 012B	S3416C 012B	1.95	1.60	0.6
1-1/2	S3414C 014B	S3416C 014B	2.15	0.04	0.6
2	S3414C 020B	S3416C 020B	2.71	1.74	1.2
2-1/2	S3414C 024B	S3416C 024B	3.32	2.34	3.5
3	S3414C 030B	S3416C 030B	4.10	2.54	6.2
4	S3414C 040B	S3416C 040B	5.07	2.65	9.2

Fig. S3414U & S3416U - Union



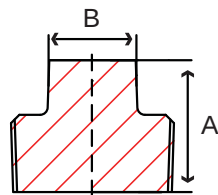
Size in	Part Number		A in	B in	Weight lb
	304	316			
1/8	S3414U 001B	S3416U 001B	1.17	1.48	0.2
1/4	S3414U 002B	S3416U 002B	1.17	1.48	0.2
3/8	S3414U 003B	S3416U 003B	1.37	1.60	0.3
1/2	S3414U 004B	S3416U 004B	1.48	1.91	0.4
3/4	S3414U 006B	S3416U 006B	1.79	1.92	0.6
1	S3414U 010B	S3416U 010B	2.11	2.34	0.9
1-1/4	S3414U 012B	S3416U 012B	2.48	2.59	1.3
1-1/2	S3414U 014B	S3416U 014B	2.96	2.96	2.2
2	S3414U 020B	S3416U 020B	3.59	3.04	2.9
2-1/2	S3414U 024B	S3416U 024B	4.46	3.71	5.1
3	S3414U 030B	S3416U 030B	5.32	4.06	8.4
4	S3414U 040B	S3416U 040B	6.67	4.37	11.8

Fig. S3414HP & S3416HP - Hex Head Plug



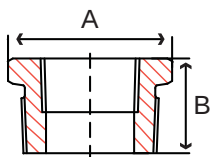
Size in	Part Number		A in	B in	Weight lb
	304	316			
1/8	S3414HP001B	S3416HP001B	0.62	0.47	0.02
1/4	S3414HP002B	S3416HP002B	0.74	0.62	0.07
3/8	S3414HP003B	S3416HP003B	0.87	0.68	0.1
1/2	S3414HP004B	S3416HP004B	0.92	0.86	0.1
3/4	S3414HP006B	S3416HP006B	1.05	1.05	0.2
1	S3414HP010B	S3416HP010B	1.13	1.37	0.4
1-1/4	S3414HP012B	S3416HP012B	1.37	1.79	0.9
1-1/2	S3414HP014B	S3416HP014B	1.44	1.95	1.2
2	S3414HP020B	S3416HP020B	1.70	2.46	2.2
2-1/2	S3414HP024B	S3416HP024B	1.79	2.93	2.7
3	S3414HP030B	S3416HP030B	1.93	3.47	5.6
4	S3414HP040B	S3416HP040B	2.22	4.58	10.1

Fig. S3414SP & S3416SP - Square Head Plug



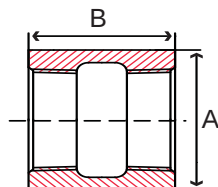
Size in	Part Number		A in	B in	Weight lb
	304	316			
1/8	S3414SP001B	S3416SP001B	0.62	0.27	0.02
1/4	S3414SP002B	S3416SP002B	0.70	0.39	0.04
3/8	S3414SP003B	S3416SP003B	0.84	0.47	0.07
1/2	S3414SP004B	S3416SP004B	0.98	0.55	0.1
3/4	S3414SP006B	S3416SP006B	1.05	0.66	0.2
1	S3414SP010B	S3416SP010B	1.25	0.82	0.3
1-1/4	S3414SP012B	S3416SP012B	1.37	0.94	0.5
1-1/2	S3414SP014B	S3416SP014B	1.44	1.12	0.7
2	S3414SP020B	S3416SP020B	1.56	1.30	1.1
2-1/2	S3414SP024B	S3416SP024B	1.79	1.48	2.5
3	S3414SP030B	S3416SP030B	1.91	1.68	3.9
4	S3414SP040B	S3416SP040B	2.22	2.48	7.2

Fig. S3414HB & S3416HB - Hex Bushing



Size in	Part Number		A in	B in	Weight lb
	304	316			
1/4 x 1/8	S3414HB002001B	S3416HB002001B	0.62	0.65	0.07
3/8 x 1/8	S3414HB003001B	S3416HB003001B	0.68	0.74	0.07
3/8 x 1/4	S3414HB003002B	S3416HB003002B	0.68	0.74	0.04
1/2 x 1/8	S3414HB004001B	S3416HB004001B	0.86	0.81	0.1
1/2 x 1/4	S3414HB004002B	S3416HB004002B	0.86	0.81	0.09
1/2 x 3/8	S3414HB004003B	S3416HB004003B	0.86	0.81	0.07
3/4 x 1/8	S3414HB006001B	S3416HB006001B	1.05	0.97	0.2
3/4 x 1/4	S3414HB006002B	S3416HB006002B	1.05	0.97	0.1
3/4 x 3/8	S3414HB006003B	S3416HB006003B	1.05	0.97	0.1
3/4 x 1/2	S3414HB006004B	S3416HB006004B	1.05	0.97	0.1
1 x 1/8	S3414HB010001B	S3416HB010001B	1.37	1.05	0.3
1 x 1/4	S3414HB010002B	S3416HB010002B	1.37	1.05	0.3
1 x 3/8	S3414HB010003B	S3416HB010003B	1.37	1.05	0.3
1 x 1/2	S3414HB010004B	S3416HB010004B	1.37	1.05	0.2
1 x 3/4	S3414HB010006B	S3416HB010006B	1.37	1.05	0.1
1-1/4 x 1/8	S3414HB012001B	S3416HB012001B	1.72	1.15	0.6
1-1/4 x 1/4	S3414HB012002B	S3416HB012002B	1.72	1.15	0.6
1-1/4 x 3/8	S3414HB012003B	S3416HB012003B	1.72	1.15	0.6
1-1/4 x 1/2	S3414HB012004B	S3416HB012004B	1.72	1.15	0.6
1-1/4 x 3/4	S3414HB012006B	S3416HB012006B	1.72	1.15	0.4
1-1/4 x 1	S3414HB012010B	S3416HB012010B	1.72	1.15	0.3
1-1/2 x 1/8	S3414HB014001B	S3416HB014001B	1.95	1.21	0.9
1-1/2 x 1/4	S3414HB014002B	S3416HB014002B	1.95	1.21	0.9
1-1/2 x 3/8	S3414HB014003B	S3416HB014003B	1.95	1.21	0.9
1-1/2 x 1/2	S3414HB014004B	S3416HB014004B	1.95	1.21	0.8
1-1/2 x 3/4	S3414HB014006B	S3416HB014006B	1.95	1.21	0.7
1-1/2 x 1	S3414HB014010B	S3416HB014010B	1.95	1.21	0.6
1-1/2 x 1-1/4	S3414HB014012B	S3416HB014012B	1.95	1.21	0.3
2 x 1/4	S3414HB020002B	S3416HB020002B	2.46	1.37	1.7
2 x 3/8	S3414HB020003B	S3416HB020003B	2.46	1.37	1.6
2 x 1/2	S3414HB020004B	S3416HB020004B	2.46	1.37	1.6
2 x 3/4	S3414HB020006B	S3416HB020006B	2.46	1.37	1.5
2 x 1	S3414HB020010B	S3416HB020010B	2.46	1.37	1.3
2 x 1-1/4	S3414HB020012B	S3416HB020012B	2.46	1.37	1.0
2 x 1-1/2	S3414HB020014B	S3416HB020014B	2.46	1.37	0.8
2-1/2 x 1/2	S3414HB024004B	S3416HB024004B	2.93	1.44	2.4
2-1/2 x 3/4	S3414HB024006B	S3416HB024006B	2.93	1.44	2.4
2-1/2 x 1	S3414HB024010B	S3416HB024010B	2.93	1.44	2.2
2-1/2 x 1-1/4	S3414HB024012B	S3416HB024012B	2.93	1.44	2.4
2-1/2 x 1-1/2	S3414HB024012B	S3416HB024012B	2.93	1.44	1.6
2-1/2 x 2	S3414HB024020B	S3416HB024020B	2.93	1.44	0.9
3 x 1	S3414HB030010B	S3416HB030010B	3.47	1.48	3.7
3 x 1-1/4	S3414HB030012B	S3416HB030012B	3.47	1.48	4.9
3 x 1-1/2	S3414HB030014B	S3416HB030014B	3.47	1.48	2.5
3 x 2	S3414HB030020B	S3416HB030020B	3.47	1.48	2.3
3 x 2-1/2	S3414HB030024B	S3416HB030024B	3.47	1.48	1.6
4 x 1	S3414HB040010B	S3416HB040010B	4.58	1.76	10.5
4 x 1-1/4	S3414HB040012B	S3416HB040012B	4.58	1.76	10.2
4 x 1-1/2	S3414HB040014B	S3416HB040014B	4.58	1.76	6.9
4 x 2	S3414HB040020B	S3416HB040020B	4.58	1.76	6.1
4 x 2-1/2	S3414HB040024B	S3416HB040024B	4.58	1.76	5.2
4 x 3	S3414HB040030B	S3416HB040030B	4.58	1.76	3.7

Fig. S3414CP & S3416CP - Full Coupling



Size in	Part Number		A in	B in	Weight lb
	304	316			
1/8	S3414CP001B	S3416CP001B	0.62	0.99	0.07
1/4	S3414CP002B	S3416CP002B	0.74	0.99	0.09
3/8	S3414CP003B	S3416CP003B	0.86	1.11	0.1
1/2	S3414CP004B	S3416CP004B	1.05	1.37	0.2
3/4	S3414CP006B	S3416CP006B	1.29	1.49	0.2
1	S3414CP010B	S3416CP010B	1.62	1.61	0.4
1-1/4	S3414CP012B	S3416CP012B	1.87	1.99	0.5
1-1/2	S3414CP014B	S3416CP014B	2.16	2.11	0.7
2	S3414CP020B	S3416CP020B	2.71	1.42	1.4
2-1/2	S3414CP024B	S3416CP024B	3.38	2.85	2.6
3	S3414CP030B	S3416CP030B	3.96	3.16	3.8
4	S3414CP040B	S3416CP040B	5.05	3.67	6.8

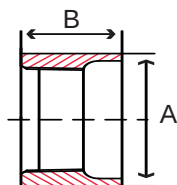


Fig. S3414HC & S3416HC - Half Coupling

Size in	Part Number		A in	B in	Weight lb
	304	316			
1/8	S3414HC001B	S3416HC001B	0.62	0.50	0.03
1/4	S3414HC002B	S3416HC002B	0.74	0.56	0.04
3/8	S3414HC003B	S3416HC003B	0.86	0.56	0.07
1/2	S3414HC004B	S3416HC004B	1.05	0.70	0.1
3/4	S3414HC006B	S3416HC006B	1.29	0.74	0.1
1	S3414HC010B	S3416HC010B	1.62	0.80	0.2
1-1/4	S3414HC012B	S3416HC012B	1.87	0.99	0.2
1-1/2	S3414HC014B	S3416HC014B	2.16	1.05	0.3
2	S3414HC020B	S3416HC020B	2.71	1.25	0.7
2-1/2	S3414HC024B	S3416HC024B	3.38	1.42	1.3
3	S3414HC030B	S3416HC030B	3.96	1.58	1.8
4	S3414HC040B	S3416HC040B	5.05	1.83	3.1

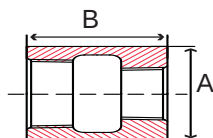
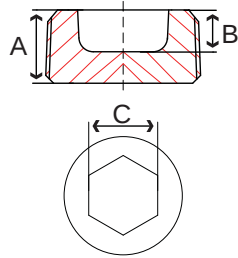


Fig. S3414RC & S3416RC - Reducing Coupling

Size in	Part Number		A in	B in	Weight lb
	304	316			
1/4 x 1/8	S3414RC002001B	S3416RC002001B	0.74	1.12	0.1
3/8 x 1/8	S3414RC003001B	S3416RC003001B	0.86	1.17	0.1
3/8 x 1/4	S3414RC003002B	S3416RC003002B	0.86	1.17	0.1
1/2 x 1/8	S3414RC004001B	S3416RC004001B	1.05	1.49	0.2
1/2 x 1/4	S3414RC004002B	S3416RC004002B	1.05	1.49	0.2
1/2 x 3/8	S3414RC004003B	S3416RC004003B	1.05	1.49	0.2
3/4 x 1/8	S3414RC006001B	S3416RC006001B	1.29	1.55	0.7
3/4 x 1/4	S3414RC006002B	S3416RC006002B	1.29	1.55	0.3
3/4 x 3/8	S3414RC006003B	S3416RC006003B	1.29	1.55	0.3
3/4 x 1/2	S3414RC006004B	S3416RC006004B	1.29	1.55	0.3
1 x 1/8	S3414RC010001B	S3416RC010001B	1.64	1.72	0.8
1 x 1/4	S3414RC010002B	S3416RC010002B	1.64	1.72	0.6
1 x 3/8	S3414RC010003B	S3416RC010003B	1.64	1.72	0.6
1 x 1/2	S3414RC010004B	S3416RC010004B	1.64	1.72	0.5
1 x 3/4	S3414RC010006B	S3416RC010006B	1.64	1.72	0.5
1-1/4 x 1/8	S3414RC012001B	S3416RC012001B	1.95	1.98	1.1
1-1/4 x 1/4	S3414RC012002B	S3416RC012002B	1.95	1.98	1.1
1-1/4 x 3/8	S3414RC012003B	S3416RC012003B	1.95	1.98	1.1
1-1/4 x 1/2	S3414RC012004B	S3416RC012004B	1.95	1.98	1.0
1-1/4 x 3/4	S3414RC012006B	S3416RC012006B	1.95	1.98	0.9
1-1/4 x 1	S3414RC012010B	S3416RC012010B	1.95	1.98	0.9
1-1/2 x 1/8	S3414RC014001B	S3416RC014001B	2.15	2.10	1.3
1-1/2 x 1/4	S3414RC014002B	S3416RC014002B	2.15	2.10	1.4
1-1/2 x 3/8	S3414RC014003B	S3416RC014003B	2.15	2.10	1.2
1-1/2 x 1/2	S3414RC014004B	S3416RC014004B	2.15	2.10	1.2
1-1/2 x 3/4	S3414RC014006B	S3416RC014006B	2.15	2.10	1.1
1-1/2 x 1	S3414RC014010B	S3416RC014010B	2.15	2.10	1.0
1-1/2 x 1-1/4	S3414RC014012B	S3416RC014012B	2.15	2.10	0.8
2 x 3/8	S3414RC020003B	S3416RC020003B	2.71	2.48	2.6
2 x 1/2	S3414RC020004B	S3416RC020004B	2.71	2.48	2.5
2 x 3/4	S3414RC020006B	S3416RC020006B	2.71	2.48	2.4
2 x 1	S3414RC020010B	S3416RC020010B	2.71	2.48	2.3
2 x 1-1/4	S3414RC020012B	S3416RC020012B	2.71	2.48	2.0
2 x 1-1/2	S3414RC020014B	S3416RC020014B	2.71	2.48	1.8
2-1/2 x 1-1/2	S3414RC024014B	S3416RC024014B	3.32	3.24	5.1
2-1/2 x 2	S3414RC024020B	S3416RC024020B	3.32	3.24	3.5
3 x 1	S3414RC030010B	S3416RC030010B	4.10	3.63	8.8
3 x 1-1/2	S3414RC030014B	S3416RC030014B	4.10	3.63	7.9
3 x 2	S3414RC030020B	S3416RC030020B	4.10	3.63	7.5
3 x 2-1/2	S3414RC030024B	S3416RC030024B	4.10	3.63	6.5
4 x 2	S3414RC040020B	S3416RC040020B	5.07	4.33	14.5
4 x 3	S3414RC040030B	S3416RC040030B	5.07	4.33	15.6

Fig. S3514CH & S3516CH - Short Counter Sunk Hex Plug



Size in	Part Number		A in	B in	C in	Weight lb
	302 / 304*	316				
1/16	S3514CH000	S3516CH000	0.25	0.09	0.15	0.006
1/8	S3514CH001	S3516CH001	0.26	0.09	0.18	0.01
1/4	S3514CH002	S3516CH002	0.39	0.16	0.25	0.02
3/8	S3514CH003	S3516CH003	0.39	0.16	0.31	0.03
1/2	S3514CH004	S3516CH004	0.52	0.19	0.37	0.06
3/4	S3514CH006	S3516CH006	0.53	0.19	0.56	0.08
1	S3514CH010	S3516CH010	0.67	0.25	0.62	0.2
1-1/4	S3514CH012	S3516CH012	0.69	0.37	0.75	0.3
1-1/2	S3514CH014	S3516CH014	0.80	0.37	1.00	0.4
2	S3514CH020	S3516CH020	0.87	0.37	1.00	0.9

* 1/16 to 3/4 are 302 Stainless Steel 1 - 2 are 304 Stainless Steel



3000# Stainless Fittings

Specifications

- Forged stainless steel material conforms to ASME A182
- Forged stainless steel fitting dimensions conform to ASME B16.11
- NPT threads conform to ASME B1.20.1
- Socket weld fittings conform to ASME B16.11
- Forged stainless union conform to MSS SP-83
- Forged stainless outlets conform to MSS SP-97
- Forged stainless socket weld inserts conform to MSS SP-79
- Manufacturing facility is ISO 9001:2008

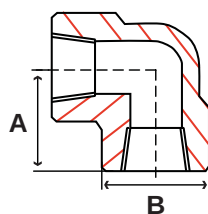


Fig. S4034E & S4036E - 90° Elbow

Size in	Part Number		A in	B in	Packing	Weight lb
	304 / L	316 / L				
1/8	S4034E 001	S4036E 001	0.81	0.88	100	0.2
1/4	S4034E 002	S4036E 002	0.97	1.00	100	0.7
3/8	S4034E 003	S4036E 003	1.12	1.31	80	0.6
1/2	S4034E 004	S4036E 004	1.31	1.50	50	0.9
3/4	S4034E 006	S4036E 006	1.50	1.81	25	1.5
1	S4034E 010	S4036E 010	1.75	2.19	20	2.2
1-1/4	S4034E 012	S4036E 012	2.00	2.44	15	3.1
1-1/2	S4034E 014	S4036E 014	2.38	2.97	6	4.8
2	S4034E 020	S4036E 020	2.50	3.31	5	5.4
2-1/2	S4034E 024	S4036E 024	3.25	4.00	2	13.2
3	S4034E 030	S4036E 030	3.75	4.75	1	19.5

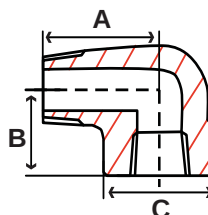


Fig. S4034SE & S4036SE - 90° Street Elbow

Size in	Part Number		A in	B in	C in	Packing	Weight lb
	304 / L	316 / L					
1/8	S4034SE001	S4036SE001	0.97	1.00	1.25	200	0.2
1/4	S4034SE002	S4036SE002	0.97	1.00	1.25	150	0.2
3/8	S4034SE003	S4036SE003	1.12	1.31	1.50	80	0.4
1/2	S4034SE004	S4036SE004	1.31	1.50	1.69	50	0.6
3/4	S4034SE006	S4036SE006	1.50	1.81	1.94	30	1.1
1	S4034SE010	S4036SE010	1.75	2.19	2.31	20	2.2
1-1/4	S4034SE012	S4036SE012	2.00	2.44	2.69	15	2.4
1-1/2	S4034SE014	S4036SE014	2.38	2.97	2.81	8	4.4
2	S4034SE020	S4036SE020	2.50	3.31	3.38	5	6.4

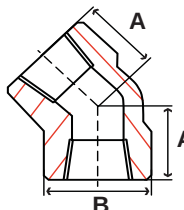


Fig. S4034F & S4036F - 45° Elbow

Size in	Part Number		A in	B in	Packing	Weight lb
	304 / L	316 / L				
1/8	S4034F 001	S4036F 001	0.66	0.86	100	0.2
1/4	S4034F 002	S4036F 002	0.75	1.00	100	0.2
3/8	S4034F 003	S4036F 003	0.88	1.31	80	0.5
1/2	S4034F 004	S4036F 004	1.00	1.50	50	0.7
3/4	S4034F 006	S4036F 006	1.12	1.81	30	1.2
1	S4034F 010	S4036F 010	1.31	2.19	20	2.0
1-1/4	S4034F 012	S4036F 012	1.38	2.44	15	2.2
1-1/2	S4034F 014	S4036F 014	1.69	2.97	8	4.5
2	S4034F 020	S4036F 020	1.72	3.31	6	4.9
2-1/2	S4034F 024	S4036F 024	2.06	4.00	2	8.1
3	S4034F 030	S4036F 030	2.50	4.75	2	13.1

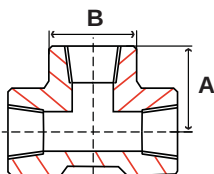
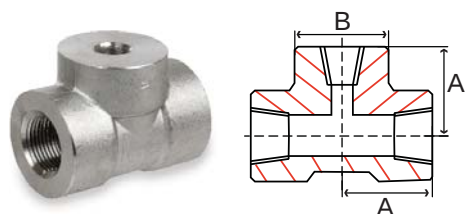


Fig. S4034T & S4036T - Tee

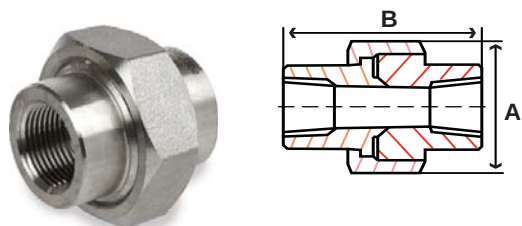
Size in	Part Number		A in	B in	Packing	Weight lb
	304 / L	316 / L				
1/8	S4034T 001	S4036T 001	0.81	0.88	80	0.2
1/4	S4034T 002	S4036T 002	0.97	1.00	80	0.4
3/8	S4034T 003	S4036T 003	1.12	1.31	50	0.8
1/2	S4034T 004	S4036T 004	1.31	1.50	35	1.2
3/4	S4034T 006	S4036T 006	1.50	1.81	20	2.0
1	S4034T 010	S4036T 010	1.75	2.19	15	3.2
1-1/4	S4034T 012	S4036T 012	2.00	2.44	10	3.8
1-1/2	S4034T 014	S4036T 014	2.38	2.97	5	7.2
2	S4034T 020	S4036T 020	2.50	3.31	4	7.7
2-1/2	S4034T 024	S4036T 024	3.25	4.00	2	15.4
3	S4034T 030	S4036T 030	3.75	4.75	1	22.4

Fig. S4034RT & S4036RT – Reducing Tee



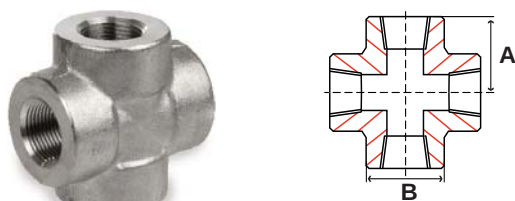
Size in	Part Number		A in	B in	Packing	Weight lb
	304 / L	316 / L				
1/2 X 1/4	S4034RT004002	S4036RT004002	1.30	1.49	20	1.8
3/4 X 1/4	S4034RT006002	S4036RT006002	1.50	1.81	15	2.9
3/4 X 3/8	S4034RT006003	S4036RT006003	1.50	1.81	15	2.9
3/4 X 1/2	S4034RT006004	S4036RT006004	1.50	1.81	10	3.6
1 X 3/8	S4034RT010003	S4036RT010003	1.75	2.19	10	3.6
1 X 1/2	S4034RT010004	S4036RT010004	1.75	2.19	10	3.6
1 X 3/4	S4034RT010006	S4036RT010006	1.75	2.19	5	6.8
1-1/2 X 1/2	S4034RT014004	S4036RT014004	2.38	2.97	5	6.8
1-1/2 X 3/4	S4034RT014006	S4036RT014006	2.38	2.97	5	6.8
1-1/2 X 1	S4034RT014010	S4036RT014010	2.38	2.97	5	6.8
1-1/2 X 1-1/4	S4034RT014012	S4036RT014012	2.38	2.97	4	7.0
2 X 3/8	S4034RT020003	S4036RT020003	2.50	3.31	4	7.0
2 X 1/2	S4034RT020004	S4036RT020004	2.50	3.31	4	7.0
2 X 3/4	S4034RT020006	S4036RT020006	2.50	3.31	4	7.0
2 X 1	S4034RT020010	S4036RT020010	2.50	3.31	4	7.0
2 X 1-1/4	S4034RT020012	S4036RT020012	2.50	3.31	4	7.0
2 X 1-1/2	S4034RT020014	S4036RT020014	2.50	3.31	4	7.0

Fig. S4034U & S4036U - Union



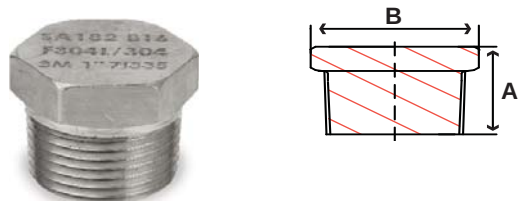
Size in	Part Number		A in	B in	Packing	Weight lb
	304 / L	316 / L				
1/8	S4034U 001	S4036U 001	1.48	1.66	70	0.6
1/4	S4034U 002	S4036U 002	1.48	1.66	70	0.6
3/8	S4034U 003	S4036U 003	1.66	1.83	70	0.5
1/2	S4034U 004	S4036U 004	1.93	2.00	50	0.7
3/4	S4034U 006	S4036U 006	2.38	2.31	35	1.0
1	S4034U 010	S4036U 010	2.78	2.42	20	1.7
1-1/4	S4034U 012	S4036U 012	3.35	2.86	14	2.2
1-1/2	S4034U 014	S4036U 014	3.70	3.00	10	3.5
2	S4034U 020	S4036U 020	4.42	3.50	5	5.3
2-1/2	S4034U 024	S4036U 024	5.22	4.25	3	8.0
3	S4034U 030	S4036U 030	6.15	4.42	2	11.6

Fig. S4034X & S4036X - Cross



Size in	Part Number		A in	B in	Packing	Weight lb
	304 / L	316 / L				
1/8	S4034X 001	S4036X 001	0.81	0.88	40	0.4
1/4	S4034X 002	S4036X 002	0.97	1.00	40	0.5
3/8	S4034X 003	S4036X 003	1.12	1.31	40	0.9
1/2	S4034X 004	S4036X 004	1.31	1.50	30	1.4
3/4	S4034X 006	S4036X 006	1.50	1.81	20	2.5
1	S4034X 010	S4036X 010	1.75	2.19	12	3.5
1-1/4	S4034X 012	S4036X 012	2.00	2.44	6	4.1
1-1/2	S4034X 014	S4036X 014	2.38	2.97	4	6.5
2	S4034X 020	S4036X 020	2.50	3.31	4	8.1

Fig. S4034HP & S4036HP - Hex Head Plug



Size in	Part Number		A in	B in	Packing	Weight lb
	304 / L	316 / L				
1/8	S4034HP001	S4036HP001	0.63	0.44	800	0.02
1/4	S4034HP002	S4036HP002	0.69	0.62	800	0.06
3/8	S4034HP003	S4036HP003	0.81	0.69	600	0.08
1/2	S4034HP004	S4036HP004	0.87	0.88	250	0.1
3/4	S4034HP006	S4036HP006	1.00	1.06	150	0.3
1	S4034HP010	S4036HP010	1.13	1.38	100	0.4
1-1/4	S4034HP012	S4036HP012	1.37	1.75	35	0.9
1-1/2	S4034HP014	S4036HP014	1.43	2.00	25	1.3
2	S4034HP020	S4036HP020	1.57	2.50	20	2.2
2-1/2	S4034HP024	S4036HP024	1.81	3.00	8	3.9
3	S4034HP030	S4036HP030	1.93	3.50	6	5.7

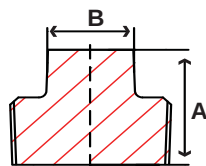


Fig. S4034SP & S4036SP - Square Head Plug

Size in	Part Number		A in	B in	Packing	Weight lb
	304 / L	316 / L				
1/8	S4034SP001	S4036SP001	0.63	0.28	800	0.02
1/4	S4034SP002	S4036SP002	0.69	0.38	800	0.02
3/8	S4034SP003	S4036SP003	0.81	0.44	500	0.06
1/2	S4034SP004	S4036SP004	0.94	0.56	300	0.1
3/4	S4034SP006	S4036SP006	1.06	0.62	200	0.1
1	S4034SP010	S4036SP010	1.25	0.81	150	0.3
1-1/4	S4034SP012	S4036SP012	1.37	0.94	80	0.5
1-1/2	S4034SP014	S4036SP014	1.43	1.12	50	0.8
2	S4034SP020	S4036SP020	1.57	1.31	30	1.3

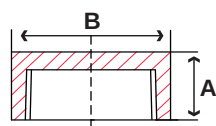


Fig. S4034C & S4036C - Cap

Size in	Part Number		A in	B in	Packing	Weight lb
	304 / L	316 / L				
1/8	S4034C 001	S4036C 001	0.75	0.62	300	0.04
1/4	S4034C 002	S4036C 002	1.00	0.75	300	0.08
3/8	S4034C 003	S4036C 003	1.00	0.88	250	0.1
1/2	S4034C 004	S4036C 004	1.25	1.12	130	0.2
3/4	S4034C 006	S4036C 006	1.44	1.33	80	0.3
1	S4034C 010	S4036C 010	1.62	1.75	50	0.8
1-1/4	S4034C 012	S4036C 012	1.75	2.25	30	1.3
1-1/2	S4034C 014	S4036C 014	1.75	2.50	25	1.5
2	S4034C 020	S4036C 020	1.88	3.00	15	2.4
2-1/2	S4034C 024	S4036C 024	2.38	3.62	10	4.8
3	S4034C 030	S4036C 030	2.56	4.25	5	7.7

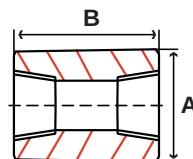


Fig. S4034CP & S4036CP - Full Coupling

Size in	Part Number		A in	B in	Packing	Weight lb
	304 / L	316 / L				
1/8	S4034CP001	S4036CP001	0.62	1.25	250	0.04
1/4	S4034CP002	S4036CP002	0.75	1.38	250	0.08
3/8	S4034CP003	S4036CP003	0.88	1.50	200	0.1
1/2	S4034CP004	S4036CP004	1.12	1.88	100	0.2
3/4	S4034CP006	S4036CP006	1.33	2.00	70	0.3
1	S4034CP010	S4036CP010	1.75	2.38	35	0.8
1-1/4	S4034CP012	S4036CP012	2.25	2.62	20	1.3
1-1/2	S4034CP014	S4036CP014	2.50	3.12	15	1.5
2	S4034CP020	S4036CP020	3.00	3.38	10	2.4
2-1/2	S4034CP024	S4036CP024	3.62	3.62	5	4.8
3	S4034CP030	S4036CP030	4.25	4.25	3	7.7
4	S4034CP040	S4036CP040	5.50	4.75	2	10.6

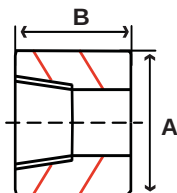


Fig. S4034HC & S4036HC - Half Coupling

Size in	Part Number		A in	B in	Packing	Weight lb
	304 / L	316 / L				
1/8	S4034HC001	S4036HC001	0.62	0.62	400	0.04
1/4	S4034HC002	S4036HC002	0.75	0.69	800	0.04
3/8	S4034HC003	S4036HC003	0.88	0.75	500	0.06
1/2	S4034HC004	S4036HC004	1.12	0.94	250	0.1
3/4	S4034HC006	S4036HC006	1.33	1.00	150	0.2
1	S4034HC010	S4036HC010	1.75	1.17	80	0.5
1-1/4	S4034HC012	S4036HC012	2.25	1.31	35	0.7
1-1/2	S4034HC014	S4036HC014	2.50	1.56	30	1.1
2	S4034HC020	S4036HC020	3.00	1.67	20	1.5
2-1/2	S4034HC024	S4036HC024	3.62	1.81	12	2.4
3	S4034HC030	S4036HC030	4.25	2.12	6	3.7

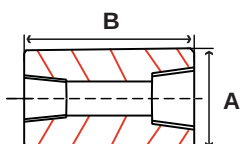


Fig. S4034RC & S4036RC - Reducing Coupling

Size in	Part Number		A in	B in	Packing	Weight lb
	304 / L	316 / L				
1/4 x 1/8	S4034RC002001	S4036RC002001	0.75	1.38	250	0.1
3/8 x 1/8	S4034RC003001	S4036RC003001	0.88	1.50	200	0.1
3/8 x 1/4	S4034RC003002	S4036RC003002	0.88	1.50	200	0.1
1/2 x 1/8	S4034RC004001	S4036RC004001	1.12	1.88	100	0.2
1/2 x 1/4	S4034RC004002	S4036RC004002	1.12	1.88	100	0.2
1/2 x 3/8	S4034RC004003	S4036RC004003	1.12	1.88	100	0.2
3/4 x 1/4	S4034RC006002	S4036RC006002	1.33	2.00	70	0.4
3/4 x 3/8	S4034RC006003	S4036RC006003	1.33	2.00	70	0.4
3/4 x 1/2	S4034RC006004	S4036RC006004	1.33	2.00	70	0.4
1 x 1/4	S4034RC010002	S4036RC010002	1.75	2.38	35	0.8
1 x 3/8	S4034RC010003	S4036RC010003	1.75	2.38	35	0.8
1 x 1/2	S4034RC010004	S4036RC010004	1.75	2.38	35	0.8
1 x 3/4	S4034RC010006	S4036RC010006	1.75	2.38	35	0.8
1-1/4 x 1/2	S4034RC012004	S4036RC012004	2.25	2.62	20	1.4
1-1/4 x 3/4	S4034RC012006	S4036RC012006	2.25	2.62	20	1.4
1-1/4 x 1	S4034RC012010	S4036RC012010	2.25	2.62	20	1.4
1-1/2 x 1/4	S4034RC014002	S4036RC014002	2.50	3.12	15	2.1
1-1/2 x 3/8	S4034RC014003	S4036RC014003	2.50	3.12	15	2.1
1-1/2 x 1/2	S4034RC014004	S4036RC014004	2.50	3.12	15	2.1
1-1/2 x 3/4	S4034RC014006	S4036RC014006	2.50	3.12	15	2.1
1-1/2 x 1	S4034RC014010	S4036RC014010	2.50	3.12	15	2.8
1-1/2 x 1-1/4	S4034RC014012	S4036RC014012	2.50	3.12	15	2.1
2 x 1/2	S4034RC020004	S4036RC020004	3.00	3.38	10	3.0
2 x 3/4	S4034RC020006	S4036RC020006	3.00	3.38	10	3.0
2 x 1	S4034RC020010	S4036RC020010	3.00	3.38	10	4.5
2 x 1-1/4	S4034RC020012	S4036RC020012	3.00	3.38	10	3.3
2 x 1-1/2	S4034RC020014	S4036RC020014	3.00	3.38	10	3.9

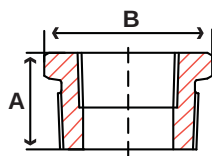


Fig. S4034HB & S4036HB - Hex Bushing

Size in	Part Number		A in	B in	Packing	Weight lb
	304 / L	316 / L				
1/4 X 1/8	S4034HB002001	S4036HB002001	0.56	0.62	600	0.02
3/8 X 1/8	S4034HB003001	S4036HB003001	0.66	0.69	500	0.02
3/8 X 1/4	S4034HB003002	S4036HB003002	0.66	0.69	500	0.02
1/2 X 1/8	S4034HB004001	S4036HB004001	0.75	0.88	400	0.06
1/2 X 1/4	S4034HB004002	S4036HB004002	0.75	0.88	400	0.06
1/2 X 3/8	S4034HB004003	S4036HB004003	0.75	0.88	400	0.06
3/4 X 1/8	S4034HB006001	S4036HB006001	0.84	1.06	200	0.1
3/4 X 1/4	S4034HB006002	S4036HB006002	0.84	1.06	200	0.1
3/4 X 3/8	S4034HB006003	S4036HB006003	0.84	1.06	200	0.1
3/4 X 1/2	S4034HB006004	S4036HB006004	0.84	1.06	200	0.1
1 X 1/8	S4034HB010001	S4036HB010001	1.00	1.38	100	0.1
1 X 1/4	S4034HB010002	S4036HB010002	1.00	1.38	100	0.1
1 X 3/8	S4034HB010003	S4036HB010003	1.00	1.38	100	0.1
1 X 1/2	S4034HB010004	S4036HB010004	1.00	1.38	100	0.1
1 X 3/4	S4034HB010006	S4036HB010006	1.00	1.38	100	0.1
1-1/4 X 1/8	S4034HB012001	S4036HB012001	1.09	1.75	70	0.8
1-1/4 X 1/4	S4034HB012002	S4036HB012002	1.09	1.75	70	0.3
1-1/4 X 3/8	S4034HB012003	S4036HB012003	1.09	1.75	70	0.3
1-1/4 X 1/2	S4034HB012004	S4036HB012004	1.09	1.75	70	0.5
1-1/4 X 3/4	S4034HB012006	S4036HB012006	1.09	1.75	70	0.5
1-1/4 X 1	S4034HB012010	S4036HB012010	1.09	1.75	70	0.5
1-1/2 X 1/8	S4034HB014001	S4036HB014001	1.12	2.00	50	1.3
1-1/2 X 1/4	S4034HB014002	S4036HB014002	1.12	2.00	50	1.3
1-1/2 X 3/8	S4034HB014003	S4036HB014003	1.12	2.00	50	1.3
1-1/2 X 1/2	S4034HB014004	S4036HB014004	1.12	2.00	50	1.0
1-1/2 X 3/4	S4034HB014006	S4036HB014006	1.12	2.00	50	0.8
1-1/2 X 1	S4034HB014010	S4036HB014010	1.12	2.00	50	0.7
1-1/2 X 1-1/4	S4034HB014012	S4036HB014012	1.12	2.00	50	0.7
2 X 1/4	S4034HB020002	S4036HB020002	1.22	2.50	25	0.8
2 X 3/8	S4034HB020003	S4036HB020003	1.22	2.50	25	1.8
2 X 1/2	S4034HB020004	S4036HB020004	1.22	2.50	25	1.7
2 X 3/4	S4034HB020006	S4036HB020006	1.22	2.50	25	1.6
2 X 1	S4034HB020010	S4036HB020010	1.22	2.50	25	1.5
2 X 1-1/4	S4034HB020012	S4036HB020012	1.22	2.50	25	0.9
2 X 1-1/2	S4034HB020014	S4036HB020014	1.22	2.50	25	0.9
2-1/2 X 1/2	S4034HB024004	S4036HB024004	1.44	3.00	15	1.1
2-1/2 X 3/4	S4034HB024006	S4036HB024006	1.44	3.00	15	1.1
2-1/2 X 1	S4034HB024010	S4036HB024010	1.44	3.00	15	1.1
2-1/2 X 1-1/4	S4034HB024012	S4036HB024012	1.44	3.00	15	1.1
2-1/2 X 1-1/2	S4034HB024014	S4036HB024014	1.44	3.00	15	1.3
2-1/2 X 2	S4034HB024020	S4036HB024020	1.44	3.00	15	1.3
3 X 1/4	S4034HB030002	S4036HB030002	1.53	3.50	10	4.7
3 X 1/2	S4034HB030004	S4036HB030004	1.53	3.50	10	5.3
3 X 3/4	S4034HB030006	S4036HB030006	1.53	3.50	10	2.5
3 X 1	S4034HB030010	S4036HB030010	1.53	3.50	10	2.5
3 X 1-1/4	S4034HB030012	S4036HB030012	1.53	3.50	10	2.5
3 X 1-1/2	S4034HB030014	S4036HB030014	1.53	3.50	10	2.5
3 X 2	S4034HB030020	S4036HB030020	1.53	3.50	10	2.5
3 X 2-1/2	S4034HB030024	S4036HB030024	1.53	3.50	10	2.5

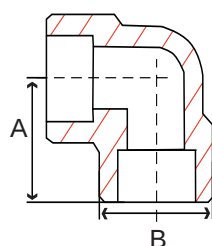


Fig. S5034E & S5036E - 90° Elbow

Size in	Part Number		A in	B in	Packing	Weight lb
	304 / L	316 / L				
1/8	S5034E 001	S5036E 001	0.82	0.68	150	0.2
1/4	S5034E 002	S5036E 002	0.82	0.82	150	0.3
3/8	S5034E 003	S5036E 003	0.91	0.98	100	0.2
1/2	S5034E 004	S5036E 004	1.00	1.20	80	0.4
3/4	S5034E 006	S5036E 006	1.25	1.41	50	0.7
1	S5034E 010	S5036E 010	1.38	1.74	30	1.1
1-1/4	S5034E 012	S5036E 012	1.56	2.10	20	1.8
1-1/2	S5034E 014	S5036E 014	1.75	2.36	15	2.3
2	S5034E 020	S5036E 020	2.12	2.89	8	3.7
2-1/2	S5034E 024	S5036E 024	2.24	3.54	4	7.0
3	S5034E 030	S5036E 030	2.87	4.21	2	11.8

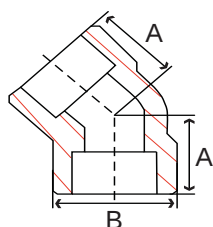


Fig. S5034F & S5036F - 45° Elbow

Size in	Part Number		A in	B in	Packing	Weight lb
	304 / L	316 / L				
1/8	S5034F 001	S5036F 001	0.69	0.68	150	0.3
1/4	S5034F 002	S5036F 002	0.69	0.82	150	0.3
3/8	S5034F 003	S5036F 003	0.69	0.98	100	0.2
1/2	S5034F 004	S5036F 004	0.82	1.20	80	0.4
3/4	S5034F 006	S5036F 006	1.00	1.41	50	0.6
1	S5034F 010	S5036F 010	1.06	1.74	30	0.9
1-1/4	S5034F 012	S5036F 012	1.19	2.10	20	1.5
1-1/2	S5034F 014	S5036F 014	1.31	2.36	15	1.7
2	S5034F 020	S5036F 020	1.62	2.89	10	2.9
2-1/2	S5034F 024	S5036F 024	1.74	3.54	6	5.5
3	S5034F 030	S5036F 030	1.87	4.21	2	11.2

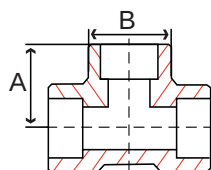


Fig. S5034T & S5036T - Tee

Size in	Part Number		A in	B in	Packing	Weight lb
	304 / L	316 / L				
1/8	S5034T 001	S5036T 001	0.82	0.68	100	0.2
1/4	S5034T 002	S5036T 002	0.82	0.82	100	0.2
3/8	S5034T 003	S5036T 003	0.91	0.98	80	0.3
1/2	S5034T 004	S5036T 004	1.53	3.50	50	0.6
3/4	S5034T 006	S5036T 006	1.25	1.41	35	0.9
1	S5034T 010	S5036T 010	1.38	1.74	20	1.4
1-1/4	S5034T 012	S5036T 012	1.56	2.10	15	2.2
1-1/2	S5034T 014	S5036T 014	1.75	2.36	10	2.9
2	S5034T 020	S5036T 020	2.12	2.89	6	4.4
2-1/2	S5034T 024	S5036T 024	2.24	3.54	3	8.7
3	S5034T 030	S5036T 030	2.87	4.21	2	13.0

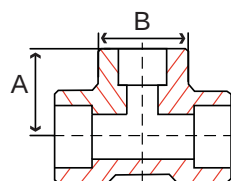


Fig. S5034RT & S5036RT - Reducing Tee

Size in	Part Number		A in	B in	Packing	Weight lb
	304 / L	316 / L				
1/2 X 1/4	S5034RT004002	S5036RT004002	1.53	3.50	20	1.8
1/2 X 3/8	S5034RT004003	S5036RT004003	1.53	3.50	15	2.9
3/4 X 1/2	S5034RT006004	S5036RT006004	1.25	1.41	15	2.9
1 X 1/2	S5034RT010004	S5036RT010004	1.38	1.74	10	3.6
1 X 3/4	S5034RT010006	S5036RT010006	1.38	1.74	10	3.6
1-1/4 X 3/4	S5034RT012006	S5036RT012006	1.56	2.10	10	3.6
1-1/4 X 1	S5034RT012010	S5036RT012010	1.56	2.10	5	6.8
1-1/2 X 1/2	S5034RT014004	S5036RT014004	1.75	2.36	5	6.8
1-1/2 X 3/4	S5034RT014006	S5036RT014006	1.75	2.36	5	6.8
1-1/2 X 1	S5034RT014010	S5036RT014010	1.75	2.36	5	6.8
1-1/2 X 1-1/4	S5034RT014012	S5036RT014012	1.75	2.36	4	7.0
2 X 1/2	S5034RT020004	S5036RT020004	2.12	2.89	4	7.0
2 X 3/4	S5034RT020006	S5036RT020006	2.12	2.89	4	7.0
2 X 1	S5034RT020010	S5036RT020010	2.12	2.89	4	7.0
2 X 1-1/4	S5034RT020012	S5036RT020012	2.12	2.89	4	7.0
2 X 1-1/2	S5034RT020014	S5036RT020014	2.12	2.89		

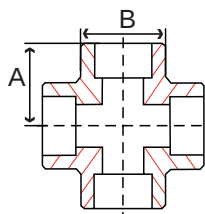


Fig. S5034X & S5036X - Cross

Size in	Part Number		A in	B in	Packing	Weight lb
	304 / L	316 / L				
1/8	S5034X 001	S5036X 001	0.82	0.82	60	1.1
1/4	S5034X 002	S5036X 002	0.82	0.82	60	1.0
3/8	S5034X 003	S5036X 003	0.91	0.98	60	0.8
1/2	S5034X 004	S5036X 004	1.00	1.20	40	1.0
3/4	S5034X 006	S5036X 006	1.25	1.41	30	1.6
1	S5034X 010	S5036X 010	1.38	1.74	20	2.6
1-1/4	S5034X 012	S5036X 012	1.56	2.10	10	3.5
1-1/2	S5034X 014	S5036X 014	1.75	2.36	6	5.1
2	S5034X 020	S5036X 020	2.12	2.89	4	13.3

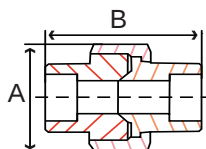


Fig. S5034U & S5036U - Union

Size in	Part Number		A in	B in	Packing	Weight lb
	304 / L	316 / L				
1/8	S5034U 001	S5036U 001	1.66	1.48	70	0.6
1/4	S5034U 002	S5036U 002	1.66	1.48	70	0.6
3/8	S5034U 003	S5036U 003	1.83	1.66	70	0.5
1/2	S5034U 004	S5036U 004	2.00	1.93	50	1.0
3/4	S5034U 006	S5036U 006	2.31	2.38	35	1.0
1	S5034U 010	S5036U 010	2.42	2.78	20	1.6
1-1/4	S5034U 012	S5036U 012	2.86	3.35	14	2.4
1-1/2	S5034U 014	S5036U 014	3.00	3.70	10	3.5
2	S5034U 020	S5036U 020	3.50	4.42	5	4.7
2-1/2	S5034U 024	S5036U 024	4.25	5.22	3	7.7
3	S5034U 030	S5036U 030	4.42	6.15	2	11.3

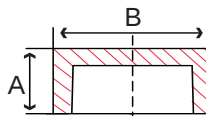


Fig. S5034C & S5036C - Cap

Size in	Part Number		A in	B in	Packing	Weight lb
	304 / L	316 / L				
1/8	S5034C 001	S5036C 001	0.56	0.70	300	0.08
1/4	S5034C 002	S5036C 002	0.71	0.87	300	0.1
3/8	S5034C 003	S5036C 003	0.77	1.03	250	0.2
1/2	S5034C 004	S5036C 004	0.90	1.27	130	0.3
3/4	S5034C 006	S5036C 006	1.02	1.50	80	0.5
1	S5034C 010	S5036C 010	1.07	1.80	50	0.9
1-1/4	S5034C 012	S5036C 012	1.22	2.23	30	1.3
1-1/2	S5034C 014	S5036C 014	1.29	2.55	25	2.1
2	S5034C 020	S5036C 020	1.53	2.96	15	3.1
2-1/2	S5034C 024	S5036C 024	1.65	3.64	1	6.0
3	S5034C 030	S5036C 030	1.77	4.27	1	9.3
4	S5034C 040	S5036C 040	1.91	5.40	1	10.6

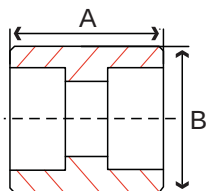


Fig. S5034CP & S5036CP - Full Coupling

Size in	Part Number		A in	B in	Packing	Weight lb
	304 / L	316 / L				
1/8	S5034CP001	S5036CP001	1.01	0.97	350	0.08
1/4	S5034CP002	S5036CP002	1.01	0.87	350	0.1
3/8	S5034CP003	S5036CP003	1.01	1.03	250	0.1
1/2	S5034CP004	S5036CP004	1.14	1.27	120	0.2
3/4	S5034CP006	S5036CP006	1.38	1.50	80	0.3
1	S5034CP010	S5036CP010	1.50	1.80	50	0.6
1-1/4	S5034CP012	S5036CP012	1.50	2.23	30	0.9
1-1/2	S5034CP014	S5036CP014	1.50	2.55	25	1.3
2	S5034CP020	S5036CP020	2.00	2.96	15	1.8
2-1/2	S5034CP024	S5036CP024	2.00	3.64	10	3.0
3	S5034CP030	S5036CP030	2.00	4.27	6	3.9
4	S5034CP040	S5036CP040	2.25	5.40	4	6.2

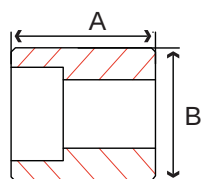
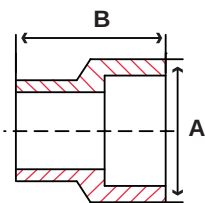
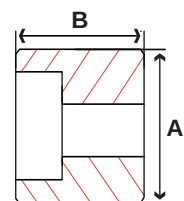


Fig. S5034HC & S5036HC Half Coupling

Size in	Part Number		A in	B in	Packing	Weight lb
	304 / L	316 / L				
1/8	S5034HC001	S5036HC001	1.00	0.68	400	0.2
1/4	S5034HC002	S5036HC002	1.00	0.86	400	0.4
3/8	S5034HC003	S5036HC003	1.06	1.01	300	0.6
1/2	S5034HC004	S5036HC004	1.26	1.27	150	0.7
3/4	S5034HC006	S5036HC006	1.44	1.50	80	1.4
1	S5034HC010	S5036HC010	1.62	1.80	50	2.4
1-1/4	S5034HC012	S5036HC012	1.69	2.23	30	3.5
1-1/2	S5034HC014	S5036HC014	1.75	2.55	25	4.6
2	S5034HC020	S5036HC020	2.24	2.96	15	8.1
2-1/2	S5034HC024	S5036HC024	2.31	3.64	10	3.0
3	S5034HC030	S5036HC030	2.37	4.27	6	3.9
4	S5034HC040	S5034HC040	2.63	5.40	1	6.2



Type 1



Type 2

Fig. S5034IN & S5036IN - Insert Fitting

Size in	Part Number		A in	B in	Type	Packing	Weight lb
	304/L	316/L					
1/4 x 1/8	S5034IN002001	S5036IN002001	0.86	1.13	1	300	.04
3/8 x 1/4	S5034IN003002	S5036IN003002	0.86	1.13	1	300	.11
1/2 x 1/4	S5034IN004002	S5036IN004002	1.25	1.23	1	150	0.2
1/2 x 3/8	S5034IN004003	S5036IN004003	1.25	1.23	1	150	0.2
3/4 x 1/4	S5034IN006002	S5036IN006002	1.06	1.46	1	100	0.3
3/4 x 3/8	S5034IN006003	S5036IN006003	1.06	1.46	2	100	0.3
3/4 x 1/2	S5034IN006004	S5036IN006004	1.06	1.46	2	100	0.3
1 x 1/4	S5034IN010002	S5036IN010002	1.12	1.78	2	80	0.5
1 x 3/8	S5034IN010003	S5036IN010003	1.12	1.78	2	80	0.5
1 x 1/2	S5034IN010004	S5036IN010004	1.12	1.78	2	80	0.5
1 x 3/4	S5034IN010006	S5036IN010006	1.12	1.78	1	80	0.5
1-1/4 x 1/4	S5034IN012002	S5036IN012002	1.25	2.16	2	70	0.9
1-1/4 x 3/8	S5034IN012003	S5036IN012003	1.25	2.16	2	70	0.9
1-1/4 x 1/2	S5034IN012004	S5036IN012004	1.25	2.16	2	70	0.9
1-1/4 x 3/4	S5034IN012006	S5036IN012006	1.25	2.16	2	70	0.9
1-1/4 x 1	S5034IN012010	S5036IN012010	1.25	2.16	1	70	0.9
1-1/2 x 3/8	S5034IN014003	S5036IN014003	1.31	2.42	2	50	1.2
1-1/2 x 1/2	S5034IN014004	S5036IN014004	1.31	2.42	2	50	1.2
1-1/2 x 3/4	S5034IN014006	S5036IN014006	1.31	2.42	2	50	1.2
1-1/2 x 1	S5034IN014010	S5036IN014010	1.31	2.42	2	50	1.2
1-1/2 x 1-1/4	S5034IN014012	S5036IN014012	1.31	2.42	1	50	1.2
2 x 3/8	S5034IN020003	S5036IN020003	1.50	2.96	2	25	1.9
2 x 1/2	S5034IN020004	S5036IN020004	1.50	2.96	2	25	1.9
2 x 3/4	S5034IN020006	S5036IN020006	1.50	2.96	2	25	1.9
2 x 1	S5034IN020010	S5036IN020010	1.50	2.96	2	25	1.9
2 x 1-1/4	S5034IN020012	S5036IN020012	1.50	2.96	2	25	1.9
2 x 1-1/2	S5034IN020014	S5036IN020014	1.50	2.96	1	25	1.9
2-1/2 x 1/2	S5034IN024004	S5036IN024004	2.12	3.70	2	12	2.6
2-1/2 x 3/4	S5034IN024006	S5036IN024006	2.12	3.70	2	12	2.6
2-1/2 x 1	S5034IN024010	S5036IN024010	2.12	3.70	2	12	2.6
2-1/2 x 1-1/4	S5034IN024012	S5036IN024012	2.12	3.70	2	12	2.6
2-1/2 x 1-1/2	S5034IN024014	S5036IN024014	2.12	3.70	2	12	2.6
2-1/2 x 2	S5034IN024020	S5036IN024020	2.12	3.70	1	12	2.6
3 x 1	S5034IN030010	S5036IN030010	1.87	4.30	2	10	3.9
3 x 1-1/4	S5034IN030012	S5036IN030012	1.87	4.30	2	10	3.9
3 x 1-1/2	S5034IN030014	S5036IN030014	1.87	4.30	2	10	3.9
3 x 2	S5034IN030020	S5036IN030020	1.87	4.30	2	10	3.9
3 x 2-1/2	S5034IN030024	S5036IN030024	1.87	4.30	1	10	3.9

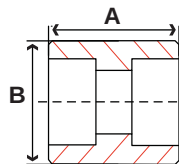
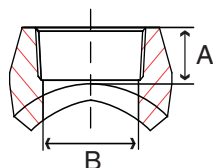


Fig. S5034RC & S5036RC - Reducing Coupling

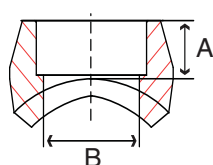
Size in	Part Number		A in	B in	Packing	Weight lb
	304/L	316/L				
1/4 x 1/8	S5034RC002001	S5036RC002001	0.88	0.87	350	0.1
3/8 x 1/8	S5034RC003001	S5036RC003001	0.88	1.03	250	0.1
3/8 x 1/4	S5034RC003002	S5036RC003002	0.88	1.03	250	0.1
1/2 X 1/8	S5034RC004001	S5036RC004001	1.14	1.27	120	0.2
1/2 X 1/4	S5034RC004002	S5036RC004002	1.14	1.27	120	0.2
1/2 X 3/8	S5034RC004003	S5036RC004003	1.14	1.27	120	0.2
3/4 X 1/4	S5034RC006002	S5036RC006002	1.38	1.50	80	0.4
3/4 X 3/8	S5034RC006003	S5036RC006003	1.38	1.50	80	0.4
3/4 X 1/2	S5034RC006004	S5036RC006004	1.38	1.50	80	0.4
1 X 1/4	S5034RC010002	S5036RC010002	1.50	1.80	50	0.5
1 X 3/8	S5034RC010003	S5036RC010003	1.50	1.80	50	0.5
1 X 1/2	S5034RC010004	S5036RC010004	1.50	1.80	50	0.5
1 X 3/4	S5034RC010006	S5036RC010006	1.50	1.80	50	0.5
1-1/4 X 1/2	S5034RC012004	S5036RC012004	1.50	2.23	30	1.1
1-1/4 X 3/4	S5034RC012006	S5036RC012006	1.50	2.23	30	1.1
1-1/4 X 1	S5034RC012010	S5036RC012010	1.50	2.23	30	1.1
1-1/2 X 3/8	S5034RC014003	S5036RC014003	1.50	2.55	25	1.3
1-1/2 X 1/2	S5034RC014004	S5036RC014004	1.50	2.55	25	1.3
1-1/2 X 3/4	S5034RC014006	S5036RC014006	1.50	2.55	25	1.3
1-1/2 X 1	S5034RC014010	S5036RC014010	1.50	2.55	25	1.3
1-1/2 X 1-1/4	S5034RC014012	S5036RC014012	1.50	2.55	25	1.3
2 X 1/2	S5034RC020004	S5036RC020004	2.00	2.96	15	2.6
2 X 3/4	S5034RC020006	S5036RC020006	2.00	2.96	15	2.3
2 X 1	S5034RC020010	S5036RC020010	2.00	2.96	15	2.1
2 X 1-1/4	S5034RC020012	S5036RC020012	2.00	2.96	15	2.1
2 X 1-1/2	S5034RC020014	S5036RC020014	2.00	2.96	15	2.6
2-1/2 X 2	S5034RC024020	S5036RC024020	2.00	3.64	6	3.1
3 X 1-1/2	S5034RC030014	S5036RC030014	2.00	4.27	6	4.1
3 X 2	S5034RC030020	S5036RC030020	2.00	4.27	6	4.1

Fig. S4534T0 & S4536T0 3000# Threaded Outlet



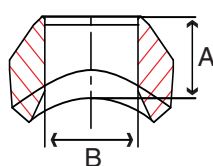
Size in	Run in	Part Number		A in	B in	Weight lb
		304 / L	316 / L			
1/4	3/8" - 36"	S4534TO002	S4536TO002	0.75	0.63	0.1
3/8	1/2" - 36"	S4534TO003	S4536TO003	0.75	0.63	0.2
1/2	3/4" - 36"	S4534TO004	S4536TO004	0.81	0.75	0.3
3/4	1" - 36"	S4534TO006	S4536TO006	1.00	0.94	0.5
1	2" - 36"	S4534TO010	S4536TO010	1.05	1.19	0.8
1-1/4	3-1/2" - 36"	S4534TO012	S4536TO012	1.31	1.43	1.0
1-1/2	5" - 36"	S4534TO014	S4536TO014	1.31	1.75	1.5
2	8" - 36"	S4534TO020	S4536TO020	1.38	2.00	2.6
2-1/2	10" - 36"	S4534TO024	S4536TO024	1.50	2.56	3.7
3	8" - 36"	S4534TO030	S4536TO030	1.81	3.00	13.1

Fig. S4534S0 & S4536S0 3000# Socket Weld Outlet



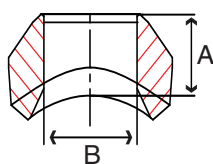
Size in	Run in	Part Number		A in	B in	Weight lb
		304 / L	316 / L			
1/4	3/8" - 36"	S4534SO002	S4536SO002	0.81	0.49	0.1
3/8	1/2" - 36"	S4534SO003	S4536SO003	1.00	0.62	0.2
1/2	3/4" - 36"	S4534SO004	S4536SO004	1.06	0.82	0.3
3/4	1" - 36"	S4534SO006	S4536SO006	1.31	1.04	0.5
1	2" - 36"	S4534SO010	S4536SO010	1.31	1.38	0.8
1-1/4	3-1/2" - 36"	S4534SO012	S4536SO012	1.37	1.61	1.0
1-1/2	5" - 36"	S4534SO014	S4536SO014	1.50	2.06	1.7
2	8" - 36"	S4534SO020	S4536SO020	1.81	2.46	2.9
2-1/2	10" - 36"	S4534SO024	S4536SO024	2.00	3.06	4.2
3	8" - 36"	S4534SO030	S4536SO030	2.50	4.75	13.1

Fig. S4534W04 & S4536W04 Sch 40 3000# Butt Weld Outlet



Size in	Run in	Part Number		A in	B in	Weight lb
		304 / L	316 / L			
1/4	3/8" - 36"	S4534WO4002	S4536WO4002	0.62	0.36	0.8
3/8	1/2" - 36"	S4534WO4003	S4536WO4003	0.75	0.49	0.1
1/2	3/4" - 36"	S4534WO4004	S4536WO4004	0.75	0.62	0.1
3/4	1" - 36"	S4534WO4006	S4536WO4006	0.87	0.82	0.2
1	2" - 36"	S4534WO4010	S4536WO4010	1.06	1.04	0.5
1-1/4	3-1/2" - 36"	S4534WO4012	S4536WO4012	1.25	1.38	0.8
1-1/2	5" - 36"	S4534WO4014	S4536WO4014	1.31	1.61	1.0
2	8" - 36"	S4534WO4020	S4536WO4020	1.50	2.06	1.7
2-1/2	10" - 36"	S4534WO4024	S4536WO4024	1.62	2.46	2.5
3	8" - 36"	S4534WO4030	S4536WO4030	1.75	3.06	3.8

Fig. S4534W08 & S4636W08 Sch 80 3000# Butt Weld Outlet



Size in	Run in	Part Number		A in	B in	Weight lb
		304 / L	316 / L			
1/4	3/8" - 36"	S4534WO8002	S4536WO8002	0.62	0.36	0.8
3/8	1/2" - 36"	S4534WO8003	S4536WO8003	0.75	0.49	0.1
1/2	3/4" - 36"	S4534WO8004	S4536WO8004	0.75	0.62	0.1
3/4	1" - 36"	S4534WO8006	S4536WO8006	0.87	0.82	0.2
1	2" - 36"	S4534WO8010	S4536WO8010	1.06	1.04	0.5
1-1/4	3-1/2" - 36"	S4534WO8012	S4536WO8012	1.25	1.38	0.8
1-1/2	5" - 36"	S4534WO8014	S4536WO8014	1.31	1.61	1.0
2	8" - 36"	S4534WO8020	S4536WO8020	1.50	2.06	1.7
2-1/2	10" - 36"	S4534WO8024	S4536WO8024	1.62	2.46	2.5
3	8" - 36"	S4534WO8030	S4536WO8030	1.75	3.06	3.8



SMITH-COOPER[®]

INTERNATIONAL

Nipples

Specifications

- Stainless steel nipple material conforms to ASTM A312
- Stainless steel nipple dimensions conform to ASTM A733 and ASME B36.19
- NPT threads on stainless nipples conform to ASME B1.20.1
- Manufacturing facility is ISO 9001:2008
- Hex and king combo nipples cast in conformance to ASTM A351

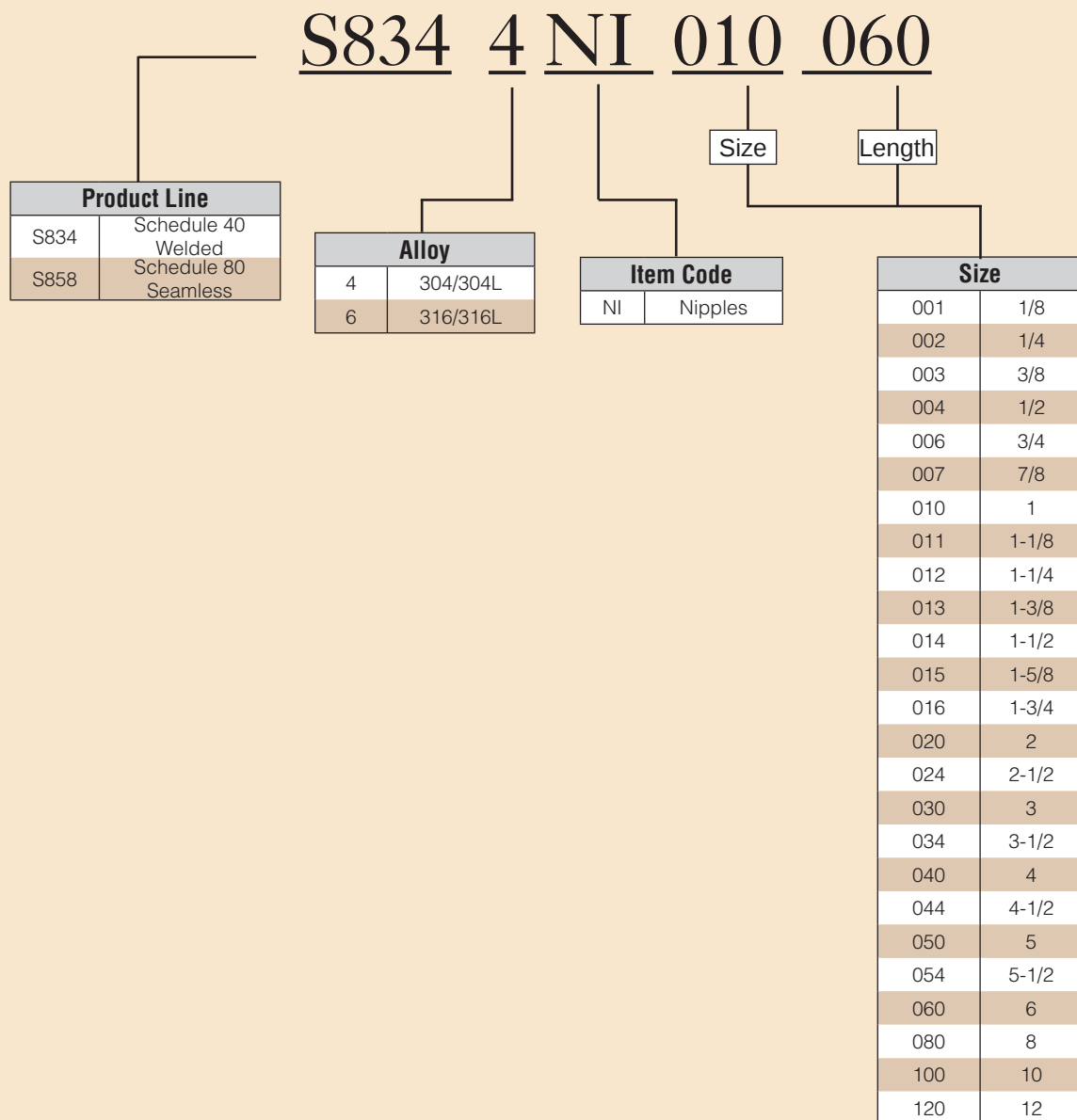


Fig. S834 - Sch 40 Welded 304/304L & 316/316L Nipple Weights

Size in	Close Length	Weight per Each (lb)													
		Packing (Inner/Master)													
		Close	1-1/2	2	2-1/2	3	3-1/2	4	4-1/2	5	5-1/2	6	8	10	12
1/8	3/4	0.01	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.11	0.11	0.12	0.16	0.21	0.25
		25/200	25/200	25/200	25/200	25/200	25/200	25/200	25/200	25/200	25/200	25/100	25/100	25/100	25/100
1/4	7/8	0.03	0.04	0.06	0.08	0.09	0.10	0.13	0.14	0.15	0.18	0.20	0.27	0.35	0.42
		25/200	25/200	25/200	25/200	25/200	25/200	25/200	25/200	25/200	25/200	25/200	25/100	25/100	25/100
3/8	1	0.03	0.06	0.08	0.10	0.12	0.15	0.18	0.20	0.22	0.23	0.26	0.35	0.48	0.52
		25/200	25/200	25/200	25/200	25/200	25/200	25/200	25/200	25/100	25/100	25/100	25/50	25/50	25/50
1/2	1-1/8	0.06	0.08	0.12	0.15	0.18	0.22	0.25	0.29	0.32	0.36	0.39	0.52	0.66	0.80
		25/200	25/200	25/200	25/100	25/100	25/100	25/100	25/100	25/100	25/100	25/100	25/50	25/50	25/50
3/4	1-3/8	0.10	0.11	0.16	0.20	0.24	0.29	0.34	0.38	0.43	0.47	0.52	0.73	0.91	1.09
		25/200	25/200	25/100	25/100	25/100	25/100	25/50	25/50	25/50	25/50	25/50	-/25	-/25	-/25
1	1-1/2	0.15		0.22	0.25	0.36	0.40	0.47	0.53	0.62	0.66	0.77	1.01	1.28	1.55
		25/100		25/100	25/50	25/50	25/50	25/50	25/50	-/25	-/25	-/25	-/25	-/25	-/25
1-1/4	1-5/8	0.23		0.32	0.40	0.49	0.60	0.62	0.72	0.81	0.94	0.97	1.39	2.01	2.30
		25/50		25/50	25/50	25/50	-/25	-/25	-/25	-/25	-/25	-/25	-/15	-/15	-/15
1-1/2	1-3/4	0.30		0.32	0.47	0.56	0.68	0.80	0.91	1.00	1.10	1.27	1.65	2.07	2.43
		25/100		25/100	-/25	-/25	-/25	-/25	-/25	-/20	-/20	-/20	-/12	-/7	-/7
2	2	0.40			0.62	0.71	0.93	1.07	1.23	1.37	1.55	1.67	2.20	2.90	3.46
		-/25			-/25	-/25	-/12	-/12	-/12	-/12	-/12	-/12	-/9	-/7	-/7
2-1/2	2-1/2	0.73				0.95	1.35	1.45	1.80	2.04	2.16	2.38	3.15	4.05	5.10
		-/18				-/18	-/13	-/13	-/12	-/9	-/9	-/9	-/6	-/4	-/4
3	2-5/8	1.19				1.49	1.68	2.06	2.38	2.67	2.95	3.17	4.50	5.95	8.16
		-/12				-/12	-/9	-/9	-/8	-/6	-/6	-/6	-/4	-/3	-/3
4	2-7/8	1.94						2.99	3.63	3.68	4.53	4.44	6.70	7.55	9.25
		-/7						-/6	-/5	-/4	-/4	-/4	-/2	-/2	-/2
6	3-1/8	4.69						6.32				9.01			18.02
		-/1						-/1				-/1			-/1

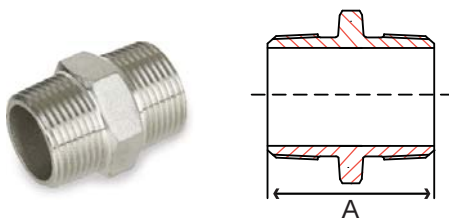


Fig. S8346HN - 316 Hex Nipple

Diameter in	Part Number	A in	Weight lb
1/8	S8346HN001	1.30	0.02
1/4	S8346HN002	1.30	0.04
3/8	S8346HN003	1.38	0.08
1/2	S8346HN004	1.67	0.1
3/4	S8346HN006	1.81	0.1
1	S8346HN010	1.97	0.3
1 1/4	S8346HN012	2.28	0.4
1 1/2	S8346HN014	2.36	0.6
2	S8346HN020	2.70	0.9

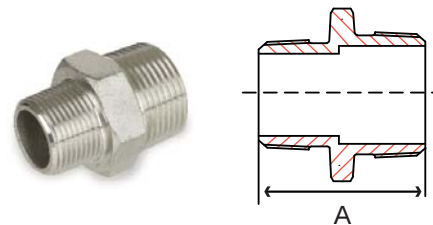


Fig. S8346RH - 316 Reducing Hex Nipple

Diameter in	Part Number	A in	Weight lb
1/4 x 1/8	S8346RH002001	1.30	0.04
3/8 x 1/4	S8346RH003002	1.38	0.08
1/2 x 3/8	S8346RH004003	1.67	0.1
3/4 x 1/2	S8346RH006004	1.81	0.1
1 x 3/4	S8346RH010006	1.97	0.3
1-1/4 x 1	S8346RH012010	2.28	0.4
1-1/2 x 1-1/4	S8346RH014012	2.36	0.6
2 x 1-1/2	S8346RH020014	2.70	0.9

Fig. S858 - Sch 80 Seamless 304/304L & 316/316L Weights

Size in	Close Length	Weight per Each (lb)													
		Packing (Inner/Master)													
		Close	1-1/2	2	2-1/2	3	3-1/2	4	4-1/2	5	5-1/2	6	8	10	12
1/8	3/4	0.02 25/200	0.04 25/200	0.05 25/200	0.06 25/200	0.07 25/200	0.08 25/200	0.09 25/200	0.11 25/200	0.12 25/200	0.13 25/200	0.15 25/100	0.20 25/100	0.25 25/100	0.30 25/100
1/4	7/8	0.03 25/200	0.06 25/200	0.08 25/200	0.10 25/200	0.13 25/200	0.15 25/200	0.17 25/200	0.27 25/200	0.21 25/200	0.23 25/200	0.26 25/200	0.35 25/100	0.45 25/100	0.55 25/100
3/8	1	0.05 25/200	0.08 25/200	0.11 25/200	0.15 25/200	0.17 25/200	0.20 25/200	0.24 25/200	0.27 25/200	0.30 25/100	0.34 25/100	0.37 25/100	0.53 25/50	0.67 25/50	0.82 25/50
1/2	1-1/8	0.08 25/200	0.11 25/200	0.16 25/200	0.20 25/100	0.24 25/100	0.29 25/100	0.34 25/100	0.54 25/100	0.42 25/100	0.47 25/100	0.52 25/100	0.35 25/50	0.87 25/50	1.06 25/50
3/4	1-3/8	0.14 25/200	0.15 25/200	0.22 25/100	0.27 25/100	0.33 25/100	0.40 25/100	0.46 25/50	0.73 25/50	0.55 25/50	0.62 25/50	0.69 25/50	0.94 -/25	1.20 -/25	1.38 -/25
1	1-1/2	0.22 25/100		0.31 25/100	0.39 25/50	0.46 25/50	0.56 25/50	0.65 25/50	1.04 25/50	0.83 -/25	0.91 -/25	1.00 -/25	1.33 -/25	1.67 -/25	2.00 -/25
1-1/4	1-5/8	0.34 25/50		0.40 25/50	0.55 25/50	0.67 25/50	0.79 -/25	0.90 -/25	1.03 -/25	1.15 -/25	1.28 -/25	1.40 -/25	1.88 -/15	2.37 -/15	2.85 -/15
1-1/2	1-3/4	0.47 25/100		0.54 25/100	0.71 -/25	0.87 -/25	1.04 -/25	1.21 -/25	1.37 -/25	1.53 - /20	1.69 - /20	1.85 - /20	1.62 - /12	3.17 - /7	3.80 - /7
2	2	0.70 -/25			0.92 -/25	1.13 - /25	1.35 - /12	1.50 - /12	2.42 - /12	1.95 - /12	2.10 - /12	2.25 - /12	3.06 - /9	3.98 - /7	4.77 - /7
3	2-5/8	1.75 -/12						2.67 - /9				4.00 - /6	6.49 - /4	8.11 - /3	9.74 - /3

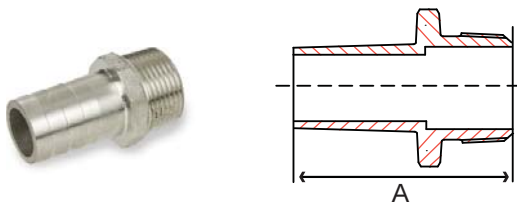


Fig. S8346KN - 316 King Nipple Hose x Threaded

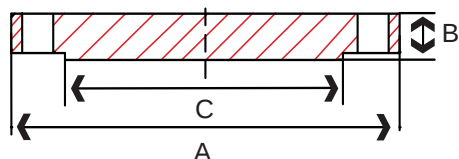
Diameter in	Part Number	A in	Weight lb
1/8	S8346KN001	1.57	0.02
1/4	S8346KN002	1.77	0.05
3/8	S8346KN003	1.97	0.07
1/2	S8346KN004	2.36	0.1
3/4	S8346KN006	2.56	0.2
1	S8346KN010	2.95	0.3
1 1/4	S8346KN012	3.35	0.5
1 1/2	S8346KN014	3.54	0.9
2	S8346KN020	3.94	1.3
2-1/2	S8346KN024	4.72	1.7
3	S8346KN030	5.12	2.0
4	S8346KN040	5.51	4.6



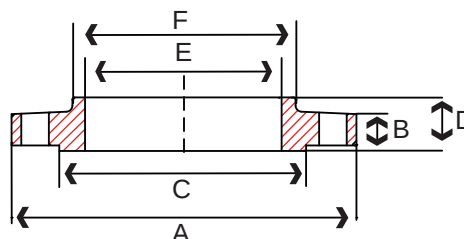
Flanges

Specifications

- Forged stainless steel material conforms to ASME A182
- Forged stainless steel flange dimensions conform to ASME B16.5
- NPT threads conform to ASME B1.20.1
- Manufacturing facility is ISO 9001:2008
- Plate stainless steel flange dimensions conform to ASME B16.5 Class 150
- Plate stainless steel flange made from ASTM A240 plate or cast in conformance with ASTM A351



Blind Flange



Slip-On Flange

150# – Blind Raised Face Flange

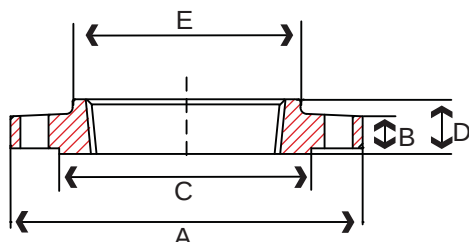
Size in	Part Number		A in	B in	C in	Bolt Circle in	Bolt Hole Diameter in	Number of Bolt Holes	Weight lb
	304/304L	316/316L							
1/2	S1014BL004N	S1016BL004N	3.50	0.44	1.38	2.38	0.62	4	1
3/4	S1014BL006N	S1016BL006N	3.88	0.50	1.69	2.75	0.62	4	2
1	S1014BL010N	S1016BL010N	4.25	0.56	2.00	3.12	0.62	4	2
1-1/4	S1014BL012N	S1016BL012N	4.62	0.62	2.50	3.50	0.62	4	3
1-1/2	S1014BL014N	S1016BL014N	5.00	0.69	2.88	3.88	0.62	4	4
2	S1014BL020N	S1016BL020N	6.00	0.75	3.62	4.75	0.75	4	5
2-1/2	S1014BL024N	S1016BL024N	7.00	0.88	4.12	5.50	0.75	4	7
3	S1014BL030N	S1016BL030N	7.50	0.94	5.00	6.00	0.75	4	9
4	S1014BL040N	S1016BL040N	9.00	0.94	6.19	7.50	0.75	8	17
5	S1014BL050N	S1016BL050N	10.00	0.94	7.31	8.50	0.88	8	20
6	S1014BL060N	S1016BL060N	11.00	1.00	8.50	9.50	0.88	8	26
8	S1014BL080N	S1016BL080N	13.50	1.12	10.62	11.75	0.88	8	45
10	S1014BL100N	S1016BL100N	16.00	1.19	12.75	14.25	1.00	12	70
12	S1014BL120N	S1016BL120N	19.00	1.25	15.00	17.00	1.00	12	110

Raised Face 1/16"

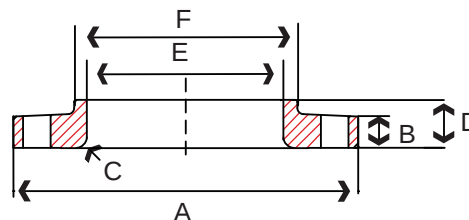
150# – Slip-On Raised Face Flange

Size in	Part Number		A in	B in	C in	D in	E in	F in	Bolt Circle in	Bolt Hole Diameter in	Number of Bolt Holes	Weight lb
	304/304L	316/316L										
1/2	S1014SO004N	S1016SO004N	3.50	0.44	1.38	0.62	0.88	1.19	2.38	0.62	4	1
3/4	S1014SO006N	S1016SO006N	3.88	0.50	1.69	0.62	1.09	1.50	2.75	0.62	4	2
1	S1014SO010N	S1016SO010N	4.25	0.56	2.00	0.69	1.36	1.94	3.12	0.62	4	2
1-1/4	S1014SO012N	S1016SO012N	4.62	0.62	2.50	0.81	1.70	2.31	3.50	0.62	4	3
1-1/2	S1014SO014N	S1016SO014N	5.00	0.69	2.88	0.88	1.95	2.56	3.88	0.62	4	3
2	S1014SO020N	S1016SO020N	6.00	0.75	3.62	1.00	2.44	3.06	4.75	0.75	4	5
2-1/2	S1014SO024N	S1016SO024N	7.00	0.88	4.12	1.12	2.94	3.56	5.50	0.75	4	7
3	S1014SO030N	S1016SO030N	7.50	0.94	5.00	1.19	3.57	4.25	6.00	0.75	4	8
4	S1014SO040N	S1016SO040N	9.00	0.94	6.19	1.31	4.60	5.31	7.50	0.75	8	13
5	S1014SO050N	S1016SO050N	10.00	0.94	7.31	1.44	5.66	6.44	8.50	0.88	8	15
6	S1014SO060N	S1016SO060N	11.00	1.00	8.50	1.56	6.72	7.56	9.50	0.88	8	19
8	S1014SO080N	S1016SO080N	13.50	1.12	10.62	1.75	8.72	9.69	11.75	0.88	8	30
10	S1014SO100N	S1016SO100N	16.00	1.19	12.75	1.94	10.88	12.00	14.25	1.00	12	43
12	S1014SO120N	S1016SO120N	19.00	1.25	15.00	2.19	12.88	14.38	17.00	1.00	12	64

Raised Face 1/16"



Threaded Flange



Lap Joint Flange

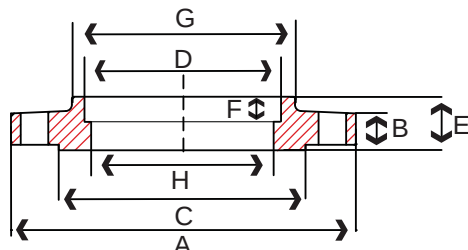
150# – Threaded Raised Face Flange

Size in	Part Number		A in	B in	C in	D in	E in	Bolt Circle in	Bolt Hole Diameter in	Number of Bolt Holes	Weight lb
	304/304L	316/316L									
1/2	S1014TH004N	S1016TH004N	3.50	0.44	1.38	0.62	1.19	2.38	0.62	4	1
3/4	S1014TH006N	S1016TH006N	3.88	0.50	1.69	0.62	1.50	2.75	0.62	4	2
1	S1014TH010N	S1016TH010N	4.25	0.56	2.00	0.69	1.94	3.12	0.62	4	2
1-1/4	S1014TH012N	S1016TH012N	4.62	0.62	2.50	0.81	2.31	3.50	0.62	4	3
1-1/2	S1014TH014N	S1016TH014N	5.00	0.69	2.88	0.88	2.56	3.88	0.62	4	3
2	S1014TH020N	S1016TH020N	6.00	0.75	3.62	1.00	3.06	4.75	0.75	4	5
2-1/2	S1014TH024N	S1016TH024N	7.00	0.88	4.12	1.12	3.56	5.50	0.75	4	7
3	S1014TH030N	S1016TH030N	7.50	0.94	5.00	1.19	4.25	6.00	0.75	4	8
4	S1014TH040N	S1016TH040N	9.00	0.94	6.19	1.31	5.31	7.50	0.75	8	13
5	S1014TH050N	S1016TH050N	10.00	0.94	7.31	1.44	6.44	8.50	0.88	8	15
6	S1014TH060N	S1016TH060N	11.00	1.00	8.50	1.56	7.56	9.50	0.88	8	19

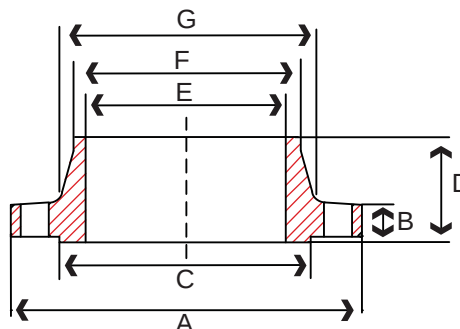
Raised Face 1/16"

150# – Lap Joint Flange

Size in	Part Number		A in	B in	C in	D in	E in	F in	Bolt Circle in	Bolt Hole Diameter in	Number of Bolt Holes	Weight lb
	304/304L	316/316L										
1/2	S1014LJ004N	S1016LJ004N	3.50	0.44	0.12	0.62	0.90	1.19	2.38	0.62	4	1
3/4	S1014LJ006N	S1016LJ006N	3.88	0.50	0.12	0.62	1.11	1.50	2.75	0.62	4	2
1	S1014LJ010N	S1016LJ010N	4.25	0.56	0.12	0.69	1.38	1.94	3.12	0.62	4	2
1-1/4	S1014LJ012N	S1016LJ012N	4.62	0.62	0.19	0.81	1.72	2.31	3.50	0.62	4	3
1-1/2	S1014LJ014N	S1016LJ014N	5.00	0.69	0.25	0.88	1.97	2.56	3.88	0.62	4	3
2	S1014LJ020N	S1016LJ020N	6.00	0.75	0.31	1.00	2.46	3.06	4.75	0.75	4	5
2-1/2	S1014LJ024N	S1016LJ024N	7.00	0.88	0.31	1.12	2.97	3.56	5.50	0.75	4	7
3	S1014LJ030N	S1016LJ030N	7.50	0.94	0.38	1.19	3.60	4.25	6.00	0.75	4	8
3-1/2	S1014LJ034N	S1016LJ034N	8.50	0.94	0.38	1.25	4.10	4.81	7.00	0.75	8	11
4	S1014LJ040N	S1016LJ040N	9.00	0.94	0.44	1.31	4.60	5.31	7.50	0.75	8	13
5	S1014LJ050N	S1016LJ050N	10.00	0.94	0.44	1.44	5.69	6.44	8.50	0.88	8	15
6	S1014LJ060N	S1016LJ060N	11.00	1.00	0.50	1.56	6.75	7.56	9.50	0.88	8	19
8	S1014LJ080N	S1016LJ080N	13.50	1.12	0.50	1.75	8.75	9.69	11.75	0.88	8	30
10	S1014LJ100N	S1016LJ100N	16.00	1.19	0.50	1.94	10.92	12.00	14.25	1.00	12	43
12	S1014LJ120N	S1016LJ120N	19.00	1.25	0.50	2.19	12.92	14.38	17.00	1.00	12	64



Socket Weld Flange



Weld Neck Flange

150# Schedule 40 – Socket Weld Raised Face Flange

Size in	Part Number		A	B	C	D	E	F	G	H	Bolt Circle in	Bolt Hole Diameter in	Number of Bolt Holes	Weight lb
	304/304L	316/316L	in	in	in	in	in	in	in	in	in	in		
1/2	S1014SW4004N	S1016SW4004N	3.50	0.44	1.38	0.88	0.62	0.38	1.19	0.62	2.38	0.62	4	1
3/4	S1014SW4006N	S1016SW4006N	3.88	0.50	1.69	1.09	0.62	0.44	1.50	0.82	2.75	0.62	4	2
1	S1014SW4010N	S1016SW4010N	4.25	0.56	2.00	1.36	0.69	0.50	1.94	1.05	3.12	0.62	4	2
1-1/4	S1014SW4012N	S1016SW4012N	4.62	0.62	2.50	1.70	0.81	0.56	2.31	1.38	3.50	0.62	4	3
1-1/2	S1014SW4014N	S1016SW4014N	5.00	0.69	2.88	1.95	0.88	0.62	2.56	1.61	3.88	0.62	4	3
2	S1014SW4020N	S1016SW4020N	6.00	0.75	3.62	2.44	1.00	0.69	3.06	2.07	4.75	0.75	4	5
2-1/2	S1014SW4024N	S1016SW4024N	7.00	0.88	4.12	2.94	1.12	0.75	3.56	2.47	5.50	0.75	4	7
3	S1014SW4030N	S1016SW4030N	7.50	0.94	5.00	3.57	1.19	0.81	4.25	3.07	6.00	0.75	4	8
4	S1014SW4040N	S1016SW4040N	9.00	0.94	6.19	4.60	1.31	0.94	5.31	4.03	7.50	0.75	8	13
5	S1014SW4050N	S1016SW4050N	10.00	0.94	7.31	5.66	1.44	0.94	6.44	5.05	8.50	0.88	8	15
6	S1014SW4060N	S1016SW4060N	11.00	1.00	8.50	6.72	1.56	1.06	7.56	6.07	9.50	0.88	8	19

Raised Face 1/16"

150# Schedule 80 – Socket Weld Raised Face Flange

Size in	Part Number		A	B	C	D	E	F	G	H	Bolt Circle in	Bolt Hole Diameter in	Number of Bolt Holes	Weight lb
	304/304L	316/316L	in	in	in	in	in	in	in	in	in	in		
1/2	S1014SW8004N	S1016SW8004N	3.50	0.44	1.38	0.54	0.62	0.38	1.19	0.62	2.38	0.62	4	1
3/4	S1014SW8006N	S1016SW8006N	3.88	0.50	1.69	0.74	0.62	0.44	1.50	0.82	2.75	0.62	4	2
1	S1014SW8010N	S1016SW8010N	4.25	0.56	2.00	0.95	0.69	0.50	1.94	1.05	3.12	0.62	4	2
1-1/4	S1014SW8012N	S1016SW8012N	4.62	0.62	2.50	1.27	0.81	0.56	2.31	1.38	3.50	0.62	4	3
1-1/2	S1014SW8014N	S1016SW8014N	5.00	0.69	2.88	1.50	0.88	0.62	2.56	1.61	3.88	0.62	4	3
2	S1014SW8020N	S1016SW8020N	6.00	0.75	3.62	1.94	1.00	0.69	3.06	2.07	4.75	0.75	4	5
2-1/2	S1014SW8024N	S1016SW8024N	7.00	0.88	4.12	2.32	1.12	0.75	3.56	2.47	5.50	0.75	4	7
3	S1014SW8030N	S1016SW8030N	7.50	0.94	5.00	2.90	1.19	0.81	4.25	3.07	6.00	0.75	4	8
4	S1014SW8040N	S1016SW8040N	9.00	0.94	6.19	3.82	1.31	0.94	5.31	4.03	7.50	0.75	8	13

Raised Face 1/16"

150# Schedule 10 – Weld Neck Raised Face Flange

Size in	Part Number		A in	B in	C in	D in	E in	F in	G in	Bolt Circle in	Bolt Hole Diameter in	Number of Bolt Holes	Weight lb
	304/304L	316/316L											
1/2	S1014WN1004N	S1016WN1004N	3.50	0.44	1.38	1.88	0.67	0.84	1.19	2.38	0.62	4	2
3/4	S1014WN1006N	S1016WN1006N	3.88	0.50	1.69	2.06	0.88	1.05	1.50	2.75	0.62	4	2
1	S1014WN1010N	S1016WN1010N	4.25	0.56	2.00	2.19	1.09	1.32	1.94	3.12	0.62	4	3
1-1/4	S1014WN1012N	S1016WN1012N	4.62	0.62	2.50	2.25	1.44	1.66	2.31	3.50	0.62	4	3
1-1/2	S1014WN1014N	S1016WN1014N	5.00	0.69	2.88	2.44	1.68	1.90	2.56	3.88	0.62	4	4
2	S1014WN1020N	S1016WN1020N	6.00	0.75	3.62	2.50	2.15	2.38	3.06	4.75	0.75	4	6
2-1/2	S1014WN1024N	S1016WN1024N	7.00	0.88	4.12	2.75	2.63	2.88	3.56	5.50	0.75	4	8
3	S1014WN1030N	S1016WN1030N	7.50	0.94	5.00	2.75	3.26	3.50	4.25	6.00	0.75	4	10
4	S1014WN1040N	S1016WN1040N	9.00	0.94	6.19	3.00	4.26	4.50	5.31	7.50	0.75	8	15
5	S1014WN1050N	S1016WN1050N	10.00	0.94	7.31	3.50	5.29	5.56	6.44	8.50	0.88	8	19
6	S1014WN1060N	S1016WN1060N	11.00	1.00	8.50	3.50	6.35	6.63	7.56	9.50	0.88	8	24
8	S1014WN1080N	S1016WN1080N	13.50	1.12	10.62	4.00	8.32	8.63	9.69	11.75	0.88	8	39
10	S1014WN1100N	S1016WN1100N	16.00	1.19	12.75	4.00	10.42	10.75	12.00	14.25	1.00	12	52
12	S1014WN1120N	S1016WN1120N	19.00	1.25	15.00	4.50	12.39	12.75	14.38	17.00	1.00	12	80

Raised Face 1/16"

150# Schedule 40 – Weld Neck Raised Face Flange

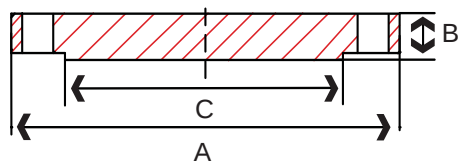
Size in	Part Number		A in	B in	C in	D in	E in	F in	G in	Bolt Circle in	Bolt Hole Diameter in	Number of Bolt Holes	Weight lb
	304/304L	316/316L											
1/2	S1014WN4004N	S1016WN4004N	3.50	0.44	1.38	1.88	0.62	0.84	1.19	2.38	0.62	4	2
3/4	S1014WN4006N	S1016WN4006N	3.88	0.50	1.69	2.06	0.82	1.05	1.50	2.75	0.62	4	2
1	S1014WN4010N	S1016WN4010N	4.25	0.56	2.00	2.19	1.05	1.32	1.94	3.12	0.62	4	3
1-1/4	S1014WN4012N	S1016WN4012N	4.62	0.62	2.50	2.25	1.38	1.66	2.31	3.50	0.62	4	3
1-1/2	S1014WN4014N	S1016WN4014N	5.00	0.69	2.88	2.44	1.61	1.90	2.56	3.88	0.62	4	4
2	S1014WN4020N	S1016WN4020N	6.00	0.75	3.62	2.50	2.07	2.38	3.06	4.75	0.75	4	6
2-1/2	S1014WN4024N	S1016WN4024N	7.00	0.88	4.12	2.75	2.47	2.88	3.56	5.50	0.75	4	8
3	S1014WN4030N	S1016WN4030N	7.50	0.94	5.00	2.75	3.07	3.50	4.25	6.00	0.75	4	10
4	S1014WN4040N	S1016WN4040N	9.00	0.94	6.19	3.00	4.03	4.50	5.31	7.50	0.75	8	15
5	S1014WN4050N	S1016WN4050N	10.00	0.94	7.31	3.50	5.05	5.56	6.44	8.50	0.88	8	19
6	S1014WN4060N	S1016WN4060N	11.00	1.00	8.50	3.50	6.07	6.63	7.56	9.50	0.88	8	24
8	S1014WN4080N	S1016WN4080N	13.50	1.12	10.62	4.00	7.98	8.63	9.69	11.75	0.88	8	39
10	S1014WN4100N	S1016WN4100N	16.00	1.19	12.75	4.00	10.02	10.75	12.00	14.25	1.00	12	52
12	S1014WN4120N	S1016WN4120N	19.00	1.25	15.00	4.50	12.00	12.75	14.38	17.00	1.00	12	80

Raised Face 1/16"

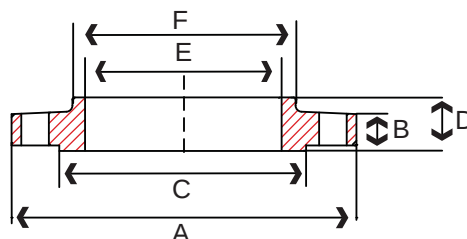
150# Schedule 80 – Weld Neck Raised Face Flange

Size in	Part Number		A in	B in	C in	D in	E in	F in	G in	Bolt Circle in	Bolt Hole Diameter in	Number of Bolt Holes	Weight lb
	304/304L	316/316L											
1/2	S1014WN8004N	S1016WN8004N	3.50	0.44	1.38	1.88	0.54	0.84	1.19	2.38	0.62	4	2
3/4	S1014WN8006N	S1016WN8006N	3.88	0.50	1.69	2.06	0.74	1.05	1.50	2.75	0.62	4	2
1	S1014WN8010N	S1016WN8010N	4.25	0.56	2.00	2.19	0.95	1.32	1.94	3.12	0.62	4	3
1-1/4	S1014WN8012N	S1016WN8012N	4.62	0.62	2.50	2.25	1.27	1.66	2.31	3.50	0.62	4	3
1-1/2	S1014WN8014N	S1016WN8014N	5.00	0.69	2.88	2.44	1.50	1.90	2.56	3.88	0.62	4	4
2	S1014WN8020N	S1016WN8020N	6.00	0.75	3.62	2.50	1.93	2.38	3.06	4.75	0.75	4	6
2-1/2	S1014WN8024N	S1016WN8024N	7.00	0.88	4.12	2.75	2.32	2.88	3.56	5.50	0.75	4	8
3	S1014WN8030N	S1016WN8030N	7.50	0.94	5.00	2.75	2.90	3.50	4.25	6.00	0.75	4	10
4	S1014WN8040N	S1016WN8040N	9.00	0.94	6.19	3.00	3.82	4.50	5.31	7.50	0.75	8	15
6	S1014WN8060N	S1016WN8060N	11.00	1.00	8.50	3.50	5.76	6.63	7.56	9.50	0.88	8	24
8	S1014WN8080N	S1016WN8080N	13.50	1.12	10.62	4.00	7.62	8.63	9.69	11.75	0.88	8	39
10	S1014WN8100N	S1016WN8100N	16.00	1.19	12.75	4.00	9.75	10.75	12.00	14.25	1.00	12	52
12	S1014WN8120N	S1016WN8120N	19.00	1.25	15.00	4.50	11.75	12.75	14.38	17.00	1.00	12	80

Raised Face 1/16"



Blind Flange



Slip-On Flange

300# – Blind Raised Face Flange

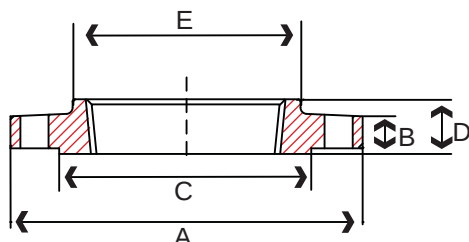
Size in	Part Number		A in	B in	C in	Bolt Circle in	Bolt Hole Diameter in	Number of Bolt Holes	Weight lb
	304/304L	316/316L							
1/2	S1034BL004N	S1036BL004N	3.75	0.56	1.38	2.62	0.62	4	2
3/4	S1034BL006N	S1036BL006N	4.62	0.62	1.69	3.25	0.75	4	3
1	S1034BL010N	S1036BL010N	4.88	0.69	2.00	3.50	0.75	4	3
1-1/4	S1034BL012N	S1036BL012N	5.25	0.75	2.50	3.88	0.75	4	4
1-1/2	S1034BL014N	S1036BL014N	6.12	0.81	2.88	4.50	0.88	4	6
2	S1034BL020N	S1036BL020N	6.50	0.88	3.62	5.00	0.75	8	8
2-1/2	S1034BL024N	S1036BL024N	7.50	1.00	4.12	5.88	0.88	8	12
3	S1034BL030N	S1036BL030N	8.25	1.12	5.00	6.62	0.88	8	16
4	S1034BL040N	S1036BL040N	10.00	1.25	6.19	7.88	0.88	8	27
6	S1034BL060N	S1036BL060N	12.50	1.44	8.50	10.62	0.88	12	50
8	S1034BL080N	S1036BL080N	15.00	1.62	10.62	13.00	1.00	12	81
10	S1034BL100N	S1036BL100N	17.50	1.88	12.75	15.25	1.12	12	124
12	S1034BL120N	S1036BL120N	20.50	2.00	15.00	17.75	1.25	12	185

Raised Face 1/16"

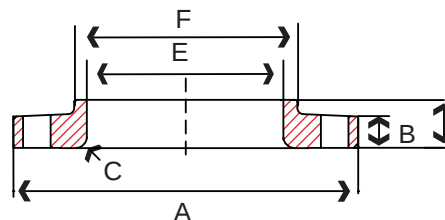
300# – Slip-On Raised Face Flange

Size in	Part Number		A in	B in	C in	D in	E in	F in	Bolt Circle in	Bolt Hole Diameter in	Number of Bolt Holes	Weight lb
	304/304L	316/316L										
1/2	S1034SO004N	S1036SO004N	3.75	0.56	1.38	0.88	0.88	1.50	2.62	0.62	4	2
3/4	S1034SO006N	S1036SO006N	4.62	0.62	1.69	1.00	1.09	1.88	3.25	0.75	4	3
1	S1034SO010N	S1036SO010N	4.88	0.69	2.00	1.06	1.36	2.12	3.50	0.75	4	3
1-1/4	S1034SO012N	S1036SO012N	5.25	0.75	2.50	1.06	1.70	2.50	3.88	0.75	4	4
1-1/2	S1034SO014N	S1036SO014N	6.12	0.81	2.88	1.19	1.95	2.75	4.50	0.88	4	6
2	S1034SO020N	S1036SO020N	6.50	0.88	3.62	1.31	2.44	3.31	5.00	0.75	8	7
2-1/2	S1034SO024N	S1036SO024N	7.50	1.00	4.12	1.50	2.94	3.94	5.88	0.88	8	10
3	S1034SO030N	S1036SO030N	8.25	1.12	5.00	1.69	3.57	4.62	6.62	0.88	8	13
4	S1034SO040N	S1036SO040N	10.00	1.25	6.19	1.88	4.60	5.75	7.88	0.88	8	22
6	S1034SO060N	S1036SO060N	12.50	1.44	8.50	2.06	6.72	8.12	10.62	0.88	12	39
8	S1034SO080N	S1036SO080N	15.00	1.62	10.62	2.44	8.72	10.25	13.00	1.00	12	58
10	S1034SO100N	S1036SO100N	17.50	1.88	12.75	2.62	10.88	12.62	15.25	1.12	12	81
12	S1034SO120N	S1036SO120N	20.50	2.00	15.00	2.88	12.88	14.75	17.75	1.25	12	115

Raised Face 1/16"



Threaded Flange



Lap Joint Flange

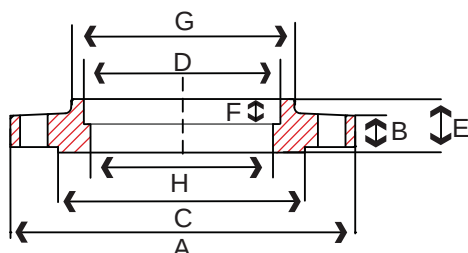
300# – Threaded Raised Face Flange Flange

Size in	Part Number		A in	B in	C in	D in	E in	Bolt Circle in	Bolt Hole Diameter in	Number of Bolt Holes	Weight lb
	304/304L	316/316L									
1/2	S1034TH004N	S1036TH004N	3.75	0.56	1.38	0.88	1.50	2.62	0.62	4	2
3/4	S1034TH006N	S1036TH006N	4.62	0.62	1.69	1.00	1.88	3.25	0.75	4	3
1	S1034TH010N	S1036TH010N	4.88	0.69	2.00	1.06	2.12	3.50	0.75	4	3
1-1/4	S1034TH012N	S1036TH012N	5.25	0.75	2.50	1.06	2.50	3.88	0.75	4	4
1-1/2	S1034TH014N	S1036TH014N	6.12	0.81	2.88	1.19	2.75	4.50	0.88	4	6
2	S1034TH020N	S1036TH020N	6.50	0.88	3.62	1.31	3.31	5.00	0.75	8	7
3	S1034TH030N	S1036TH030N	8.25	1.12	5.00	1.69	4.62	6.62	0.88	8	13
4	S1034TH040N	S1036TH040N	10.00	1.25	6.19	1.88	5.75	7.88	0.88	8	22

Raised Face 1/16"

300# – Lap Joint Flange

Size in	Part Number		A in	B in	C in	D in	E in	F in	Bolt Circle in	Bolt Hole Diameter in	Number of Bolt Holes	Weight lb
	304/304L	316/316L										
1/2	S1034LJ004N	S1036LJ004N	3.75	0.56	0.12	0.88	0.90	1.50	2.62	0.62	4	2
3/4	S1034LJ006N	S1036LJ006N	4.62	0.62	0.12	1.00	1.11	1.88	3.25	0.75	4	3
1	S1034LJ010N	S1036LJ010N	4.88	0.69	0.12	1.06	1.38	2.12	3.50	0.75	4	3
1-1/4	S1034LJ012N	S1036LJ012N	5.25	0.75	0.19	1.06	1.72	2.50	3.88	0.75	4	4
1-1/2	S1034LJ014N	S1036LJ014N	6.12	0.81	0.25	1.19	1.97	2.75	4.50	0.88	4	6
2	S1034LJ020N	S1036LJ020N	6.50	0.88	0.31	1.31	2.46	3.31	5.00	0.75	8	7
3	S1034LJ030N	S1036LJ030N	8.25	1.12	0.38	1.69	3.60	4.62	6.62	0.88	8	13
4	S1034LJ040N	S1036LJ040N	10.00	1.25	0.44	1.88	4.60	5.75	7.88	0.88	8	22



Socket Weld Flange

300# Schedule 40 – Socket Weld Raised Face Flange

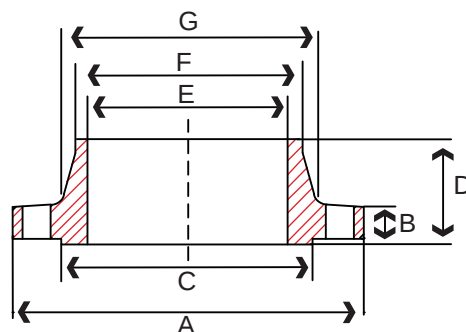
Size in	Part Number		A	B	C	D	E	F	G	H	Bolt Circle in	Bolt Hole Diameter in	Number of Bolt Holes	Weight lb
	304/304L	316/316L	in	in	in	in	in	in	in	in	in	in		
1/2	S1034SW4004N	S1036SW4004N	3.75	0.56	1.38	0.88	0.88	0.38	1.50	0.62	2.62	0.62	4	2
3/4	S1034SW4006N	S1036SW4006N	4.62	0.62	1.69	1.09	1.00	0.44	1.88	0.82	3.25	0.75	4	3
1	S1034SW4010N	S1036SW4010N	4.88	0.69	2.00	1.36	1.06	0.50	2.12	1.05	3.50	0.75	4	3
1-1/4	S1034SW4012N	S1036SW4012N	5.25	0.75	2.50	1.70	1.06	0.56	2.50	1.38	3.88	0.75	4	4
1-1/2	S1034SW4014N	S1036SW4014N	6.12	0.81	2.88	1.95	1.19	0.62	2.75	1.61	4.50	0.88	4	6
2	S1034SW4020N	S1036SW4020N	6.50	0.88	3.62	2.44	1.31	0.69	3.31	2.07	5.00	0.75	8	7
2-1/2	S1034SW4024N	S1036SW4024N	7.50	1.00	4.12	2.94	1.50	0.75	3.94	2.94	5.88	0.88	8	10
3	S1034SW4030N	S1036SW4030N	8.25	1.12	5.00	3.57	1.69	0.81	4.62	3.57	6.62	0.88	8	13
4	S1034SW4040N	S1036SW4040N	10.00	1.25	6.19	4.60	1.88	-	5.75	4.03	7.88	0.88	8	22

Raised Face 1/16"

300# Schedule 80 – Socket Weld Raised Face Flange

Size in	Part Number		A	B	C	D	E	F	G	H	Bolt Circle in	Bolt Hole Diameter in	Number of Bolt Holes	Weight lb
	304/304L	316/316L	in	in	in	in	in	in	in	in	in	in		
1/2	S1034SW8004N	S1036SW8004N	3.75	0.56	1.38	0.54	0.88	0.38	1.50	0.62	2.62	0.62	4	2
3/4	S1034SW8006N	S1036SW8006N	4.62	0.62	1.69	0.74	1.00	0.44	1.88	0.82	3.25	0.75	4	3
1	S1034SW8010N	S1036SW8010N	4.88	0.69	2.00	0.95	1.06	0.50	2.12	1.05	3.50	0.75	4	3
1-1/4	S1034SW8012N	S1036SW8012N	5.25	0.75	2.50	1.27	1.06	0.56	2.50	1.38	3.88	0.75	4	4
1-1/2	S1034SW8014N	S1036SW8014N	6.12	0.81	2.88	1.50	1.19	0.62	2.75	1.61	4.50	0.88	4	6
2	S1034SW8020N	S1036SW8020N	6.50	0.88	3.62	1.93	1.31	0.69	3.31	2.07	5.00	0.75	8	7
2-1/2	S1034SW8024N	S1036SW8024N	7.50	1.00	4.12	2.32	1.50	0.75	3.94	2.94	5.88	0.88	8	10
3	S1034SW8030N	S1036SW8030N	8.25	1.12	5.00	2.90	1.69	0.81	4.62	3.57	6.62	0.88	8	13
4	S1034SW8040N	S1036SW8040N	10.00	1.25	6.19	3.82	1.88	-	5.75	4.03	7.88	0.88	8	22

Raised Face 1/16"



Weld Neck Flange

300# Schedule 40 – Weld Neck Raised Face Flange

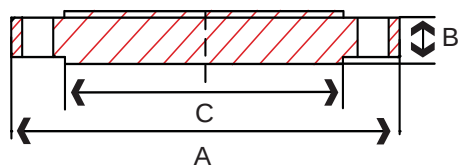
Size in	Part Number		A in	B in	C in	D in	E in	F in	G in	Bolt Circle in	Bolt Hole Diameter in	Number of Bolt Holes	Weight lb
	304/304L	316/316L											
1/2	S1034WN4004N	S1036WN4004N	3.75	0.56	1.38	2.06	0.62	0.84	1.50	2.38	0.62	4	2
3/4	S1034WN4006N	S1036WN4006N	4.62	0.62	1.69	2.25	0.82	1.05	1.88	2.75	0.62	4	3
1	S1034WN4010N	S1036WN4010N	4.88	0.69	2.00	2.44	1.05	1.32	2.12	3.12	0.62	4	4
1-1/4	S1034WN4012N	S1036WN4012N	5.25	0.75	2.50	2.56	1.38	1.66	2.50	3.50	0.62	4	5
1-1/2	S1034WN4014N	S1036WN4014N	6.12	0.81	2.88	2.69	1.61	1.90	2.75	3.88	0.62	4	7
2	S1034WN4020N	S1036WN4020N	6.50	0.88	3.62	2.75	2.07	2.38	3.31	4.75	0.75	8	9
2-1/2	S1034WN4024N	S1036WN4024N	7.50	1.00	4.12	3.00	2.47	2.88	3.94	5.50	0.75	8	12
3	S1034WN4030N	S1036WN4030N	8.25	1.12	5.00	3.12	3.07	3.50	4.62	6.00	0.75	8	15
4	S1034WN4040N	S1036WN4040N	10.00	1.25	6.19	3.38	4.03	4.50	5.75	7.50	0.75	8	25
6	S1034WN4060N	S1036WN4060N	12.50	1.44	8.50	3.88	6.07	6.63	8.12	9.50	0.88	12	42
8	S1034WN4080N	S1036WN4080N	15.00	1.62	10.62	4.38	7.98	8.63	10.25	11.75	0.88	12	67
10	S1034WN4100N	S1036WN4100N	17.50	1.88	12.75	4.62	10.02	10.75	12.62	14.25	1.00	12	91
12	S1034WN4120N	S1036WN4120N	20.50	2.00	15.00	5.12	12.00	12.75	14.75	17.00	1.00	12	140

Raised Face 1/4"

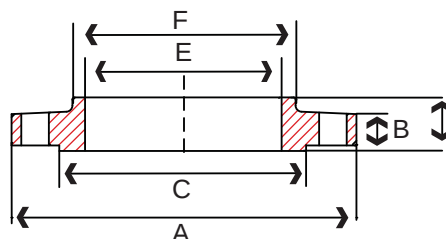
300# Schedule 80 – Weld Neck Raised Face Flange

Size in	Part Number		A in	B in	C in	D in	E in	F in	G in	Bolt Circle in	Bolt Hole Diameter in	Number of Bolt Holes	Weight lb
	304/304L	316/316L											
1/2	S1034WN8004N	S1036WN8004N	3.75	0.56	1.38	2.06	0.54	0.84	1.50	2.38	0.62	4	2
3/4	S1034WN8006N	S1036WN8006N	4.62	0.62	1.69	2.25	0.74	1.05	1.88	2.75	0.62	4	3
1	S1034WN8010N	S1036WN8010N	4.88	0.69	2.00	2.44	0.95	1.32	2.12	3.12	0.62	4	4
1-1/4	S1034WN8012N	S1036WN8012N	5.25	0.75	2.50	2.56	1.27	1.66	2.50	3.50	0.62	4	5
1-1/2	S1034WN8014N	S1036WN8014N	6.12	0.81	2.88	2.69	1.50	1.90	2.75	3.88	0.62	4	7
2	S1034WN8020N	S1036WN8020N	6.50	0.88	3.62	2.75	1.93	2.38	3.31	4.75	0.75	8	9
2-1/2	S1034WN8024N	S1036WN8024N	7.50	1.00	4.12	3.00	2.32	2.88	3.94	5.50	0.75	8	12
3	S1034WN8030N	S1036WN8030N	8.25	1.12	5.00	3.12	2.90	3.50	4.62	6.00	0.75	8	15
4	S1034WN8040N	S1036WN8040N	10.00	1.25	6.19	3.38	3.82	4.50	5.75	7.50	0.75	8	25
6	S1034WN8060N	S1036WN8060N	12.50	1.44	8.50	3.88	5.76	6.63	8.12	9.50	0.88	12	42
8	S1034WN8080N	S1036WN8080N	15.00	1.62	10.62	4.38	7.62	8.63	10.25	11.75	0.88	12	67
10	S1034WN8100N	S1036WN8100N	17.50	1.88	12.75	4.62	9.75	10.75	12.62	14.25	1.00	12	91
12	S1034WN8120N	S1036WN8120N	20.50	2.00	15.00	5.12	11.75	12.75	14.75	17.00	1.00	12	140

Raised Face 1/4"



Blind Flange



Slip-On Flange

600# – Blind (Hi-Hub) Raised Face Flange

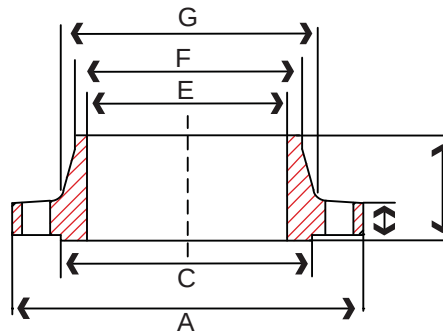
Size in	Part Number		A in	B in	C in	Bolt Circle in	Bolt Hole Diameter in	Number of Bolt Holes	Weight lb
	304/304L	316/316L							
1/2	S1064BL004N	S1066BL004N	3.75	0.56	1.38	2.62	0.62	4	1
3/4	S1064BL006N	S1066BL006N	4.62	0.62	1.69	3.25	0.75	4	2
1	S1064BL010N	S1066BL010N	4.88	0.69	2.00	3.50	0.75	4	2
1-1/4	S1064BL012N	S1066BL012N	5.25	0.81	2.50	3.88	0.75	4	3
1-1/2	S1064BL014N	S1066BL014N	6.12	0.88	2.88	4.50	0.88	4	4
2	S1064BL020N	S1066BL020N	6.50	1.00	3.62	5.00	0.75	8	5
3	S1064BL030N	S1066BL030N	8.25	1.25	5.00	6.62	0.88	8	9
4	S1064BL040N	S1066BL040N	10.00	1.50	6.19	8.50	1.00	8	17
6	S1064BL060N	S1066BL060N	12.50	1.88	8.50	11.50	1.12	12	26

Raised Face 1/4"

600# – Slip-On Raised Face Flange

Size in	Part Number		A in	B in	C in	D in	E in	F in	Bolt Circle in	Bolt Hole Diameter in	Number of Bolt Holes	Weight lb
	304/304L	316/316L										
1/2	S1064SO004N	S1066SO004N	3.75	0.56	1.38	0.88	0.88	1.50	2.62	0.62	4	1
3/4	S1064SO006N	S1066SO006N	4.62	0.62	1.69	1.00	1.09	1.88	3.25	0.75	4	2
1	S1064SO010N	S1066SO010N	4.88	0.69	2.00	1.06	1.36	2.12	3.50	0.75	4	2
1-1/4	S1064SO012N	S1066SO012N	5.25	0.81	2.50	1.12	1.70	2.50	3.88	0.75	4	3
1-1/2	S1064SO014N	S1066SO014N	6.12	0.88	2.88	1.25	1.95	2.75	4.50	0.88	4	3
2	S1064SO020N	S1066SO020N	6.50	1.00	3.62	1.44	2.44	3.31	5.00	0.75	8	5
3	S1064SO030N	S1066SO030N	8.25	1.25	5.00	1.81	3.57	4.62	6.62	0.88	8	8
4	S1064SO040N	S1066SO040N	10.00	1.50	6.19	2.12	4.60	0.94	8.50	1.00	8	13
6	S1064SO060N	S1066SO060N	12.50	1.88	8.50	2.62	6.72	1.06	11.50	1.12	12	19

Raised Face 1/4"



Weld Neck Flange

600# Schedule 40 – Weld Neck Raised Face Flange

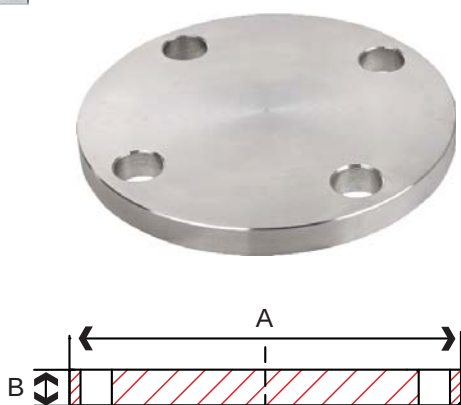
Size in	Part Number		A in	B in	C in	D in	E in	F in	G in	Bolt Circle in	Bolt Hole Diameter in	Number of Bolt Holes	Weight lb
	304/304L	316/316L											
1/2	S1064WN4004N	S1066WN4004N	3.75	0.56	1.38	2.06	To be specified by purchaser	0.84	1.50	2.62	0.62	4	2
3/4	S1064WN4006N	S1066WN4006N	4.62	0.62	1.69	2.25		1.05	1.88	3.25	0.75	4	4
1	S1064WN4010N	S1066WN4010N	4.88	0.69	2.00	2.44		1.32	2.12	3.50	0.75	4	4
1-1/4	S1064WN4012N	S1066WN4012N	5.25	0.81	2.50	2.62		1.66	2.50	3.88	0.75	4	6
1-1/2	S1064WN4014N	S1066WN4014N	6.12	0.88	2.88	2.75		1.90	2.75	4.50	0.88	4	8
2	S1064WN4020N	S1066WN4020N	6.50	1.00	3.62	2.88		2.38	3.31	5.00	0.75	8	12
3	S1064WN4030N	S1066WN4030N	8.25	1.25	5.00	3.25		3.50	4.62	6.62	0.88	8	23
4	S1064WN4040N	S1066WN4040N	10.00	1.50	6.19	4.00		4.50	0.94	8.50	1.00	8	42
6	S1064WN4060N	S1066WN4060N	12.50	1.88	8.50	4.62		6.63	1.06	11.50	1.12	12	81

Raised Face 1/4"

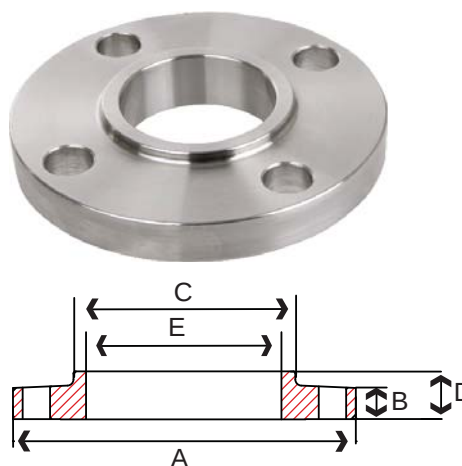
600# Schedule 80 – Weld Neck Raised Face Flange

Size in	Part Number		A in	B in	C in	D in	E in	F in	G in	Bolt Circle in	Bolt Hole Diameter in	Number of Bolt Holes	Weight lb
	304/304L	316/316L											
1/2	S1064WN8004N	S1066WN8004N	3.75	0.56	1.38	2.06	To be specified by purchaser	0.84	1.50	2.62	0.62	4	2
3/4	S1064WN8006N	S1066WN8006N	4.62	0.62	1.69	2.25		1.05	1.88	3.25	0.75	4	4
1	S1064WN8010N	S1066WN8010N	4.88	0.69	2.00	2.44		1.32	2.12	3.50	0.75	4	4
1-1/4	S1064WN8012N	S1066WN8012N	5.25	0.81	2.50	2.62		1.66	2.50	3.88	0.75	4	6
1-1/2	S1064WN8014N	S1066WN8014N	6.12	0.88	2.88	2.75		1.90	2.75	4.50	0.88	4	8
2	S1064WN8020N	S1066WN8020N	6.50	1.00	3.62	2.88		2.38	3.31	5.00	0.75	8	12
3	S1064WN8030N	S1066WN8030N	8.25	1.25	5.00	3.25		3.50	4.62	6.62	0.88	8	23
4	S1064WN8040N	S1066WN8040N	10.00	1.50	6.19	4.00		4.50	0.94	8.50	1.00	8	42
6	S1064WN8060N	S1066WN8060N	12.50	1.88	8.50	4.62		6.63	1.06	11.50	1.12	12	81

Raised Face 1/4"



Blind Flange



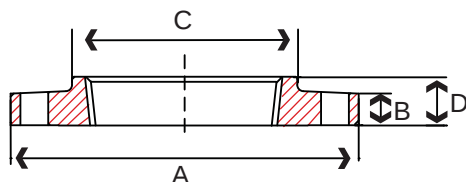
Slip-On Flange

Blind MSS Flange

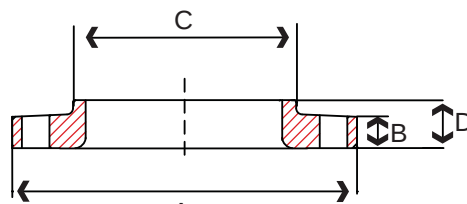
Size in	Part Number		A Outside Diameter in	B Thickness in	Bolt Circle in	Bolt Hole Diameter in	Number of Bolt Holes	Weight lb
	304/304L	316/316L						
1/2	S1514BL004	S1516BL004	3.500	5/16	2-3/8	5/8	4	1
3/4	S1514BL006	S1516BL006	3.875	11/32	3-3/4	5/8	4	2
1	S1514BL010	S1516BL010	4.250	3/8	3-1/8	5/8	4	2
1-1/4	S1514BL012	S1516BL012	4.625	13/32	3-1/2	5/8	4	3
1-1/2	S1514BL014	S1516BL014	5.000	7/16	3-7/8	5/8	4	4
2	S1514BL020	S1516BL020	6.000	1/2	4-3/4	3/4	4	5
2-1/2	S1514BL024	S1516BL024	7.000	9/16	5-1/2	3/4	4	9
3	S1514BL030	S1516BL030	7.500	5/8	6	3/4	4	17
4	S1514BL040	S1516BL040	9.000	11/16	7-1/2	3/4	8	26

Slip-On MSS Flange

Size in	Part Number		A Outside Diameter in	B Thickness in	C Hub Diameter in	D Slip-on in	E Depth of Socket in	Bolt Circle in	Bolt Hole Diameter in	Number of Bolt Holes	Weight lb
	304/304L	316/316L									
1/2	S1514SO004	S1516SO004	3.500	5/16	1-3/16	19/32	3/8	2-3/8	5/8	4	1
3/4	S1514SO006	S1516SO006	3.875	11/32	1-1/2	5/8	7/16	3-3/4	5/8	4	2
1	S1514SO010	S1516SO010	4.250	3/8	1-15/16	11/16	1/2	3-1/8	5/8	4	2
1-1/4	S1514SO012	S1516SO012	4.625	13/32	2-5/16	13/16	9/16	3-1/2	5/8	4	3
1-1/2	S1514SO014	S1516SO014	5.000	7/16	2-9/16	7/8	5/8	3-7/8	5/8	4	3
2	S1514SO020	S1516SO020	6.000	1/2	2-9/16	1	11/16	4-3/4	3/4	4	3
2-1/2	S1514SO024	S1516SO024	7.000	9/16	3-1/16	1-1/8	3/4	5-1/2	3/4	4	5
3	S1514SO030	S1516SO030	7.500	5/8	4-1/4	1-3/16	13/16	6	3/4	4	8
4	S1514SO040	S1516SO040	9.000	11/16	5-5/16	1-5/16	-	7-1/2	3/4	8	13
6	S1514SO060	S1516SO060	11.00	13/16	7-9/16	1-9/16	-	9-1/2	7/8	8	19



Threaded Flange



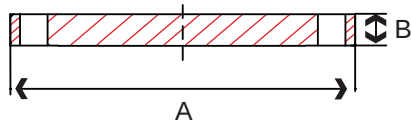
Lap Joint Flange

Threaded MSS Flange

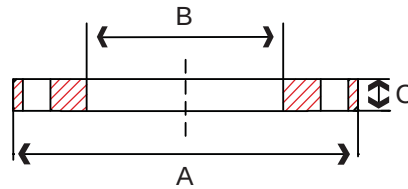
Size in	Part Number		A Outside Diameter	B Thickness	C Hub Diameter	D	Bolt Circle	Bolt Hole Diameter	Number of Bolt Holes	Weight lb
	304/304L	316/316L	in	in	in	in	in	in		
1/2	S1514TH004	S1516TH004	3.500	5/16	1-3/16	19/32	2-3/8	5/8	4	1
3/4	S1514TH006	S1516TH006	3.875	11/32	1-1/2	5/8	3-3/4	5/8	4	2
1	S1514TH010	S1516TH010	4.250	3/8	1-15/16	11/16	3-1/8	5/8	4	2
1-1/4	S1514TH012	S1516TH012	4.625	13/32	2-5/16	13/16	3-1/2	5/8	4	3
1-1/2	S1514TH014	S1516TH014	5.000	7/16	2-9/16	7/8	3-7/8	5/8	4	3
2	S1514TH020	S1516TH020	6.000	1/2	2-9/16	1	4-3/4	3/4	4	4
2-1/2	S1514TH024	S1516TH024	7.000	9/16	3-1/16	1-1/8	5-1/2	3/4	4	5
3	S1514TH030	S1516TH030	7.500	5/8	4-1/4	1-3/16	6	3/4	4	9
4	S1514TH040	S1516TH040	9.000	11/16	5-5/16	1-5/16	7-1/2	3/4	8	17
6	S1514TH060	S1516TH060	11.00	13/16	7-9/16	1-9/16	9-1/2	7/8	8	26

Lap Joint MSS Flange

Size in	Part Number		A Outside Diameter	B Thickness	C Hub Diameter	D Slip-on	Bolt Circle	Bolt Hole Diameter	Number of Bolt Holes	Weight lb
	304/304L	316/316L	in	in	in	in	in	in		
1/2	S1514LJ004	S1516LJ004	3.500	5/16	1-3/16	19/32	2-3/8	5/8	4	1
3/4	S1514LJ006	S1516LJ006	3.875	11/32	1-1/2	5/8	3-3/4	5/8	4	2
1	S1514LJ010	S1516LJ010	4.250	3/8	1-15/16	11/16	3-1/8	5/8	4	2
1-1/4	S1514LJ012	S1516LJ012	4.625	13/32	2-5/16	13/16	3-1/2	5/8	4	3
1-1/2	S1514LJ014	S1516LJ014	5.000	7/16	2-9/16	7/8	3-7/8	5/8	4	3
2	S1514LJ020	S1516LJ020	6.000	1/2	2-9/16	1	4-3/4	3/4	4	3
2-1/2	S1514LJ024	S1516LJ024	7.000	9/16	3-1/16	1-1/8	5-1/2	3/4	4	5
3	S1514LJ030	S1516LJ030	7.500	5/8	4-1/4	1-3/16	6	3/4	4	8
4	S1514LJ040	S1516LJ040	9.000	11/16	5-5/16	1-5/16	7-1/2	3/4	8	13
6	S1514LJ060	S1516LJ060	11.00	13/16	7-9/16	1-9/16	9-1/2	7/8	8	19



Blind Plate Flange



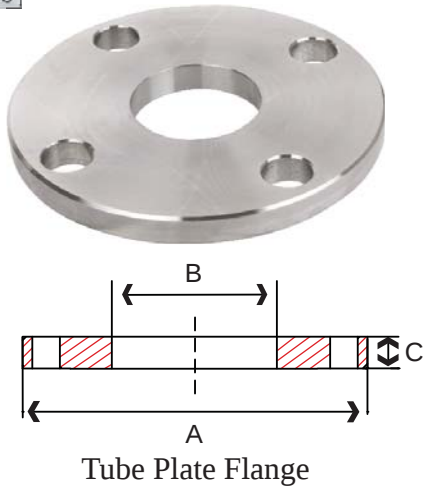
Slip-On IPS Plate Flange

Blind Plate Flanges

Size in	Part Numbers		A Outside Diameter in	B Thickness in	Number of Bolt Holes	Bolt Hole Diameter in	Bolt Circle in	Weight lb
	304	316						
1	S1414BLP010	S1416BLP010	4.25	0.500	4	0.625	3.12	1.9
1-1/2	S1414BLP014	S1416BLP014	5.00	0.500	4	0.625	3.88	2.7
2	S1414BLP020	S1416BLP020	6.00	0.500	4	0.750	4.75	3.9
2-1/2	S1414BLP024	S1416BLP024	7.00	0.500	4	0.750	5.50	5.5
3	S1414BLP030	S1416BLP030	7.50	0.500	4	0.750	6.00	6.3
4	S1414BLP040	S1416BLP040	9.00	0.500	8	0.750	7.50	9.0
6	S1414BLP060	S1416BLP060	11.00	0.500	8	0.880	9.50	13.5
8	S1414BLP080	S1416BLP080	13.50	0.500	8	0.880	11.75	20.8
10	S1414BLP100	-	16.00	0.500	12	1.000	14.25	28.5
12	S1414BLP120	-	19.00	0.500	12	1.000	17.00	40.7

Slip-On IPS Plate Flanges

Size in	Part Numbers		A Outside Diameter in	B Inside Diameter in	C Thickness in	Number of Bolt Holes	Bolt Hole Diameter in	Bolt Circle in	Weight lb
	304	316							
1	S1414SOP010	S1416SOP010	4.25	1.36	0.500	4	0.625	3.12	1.7
1-1/2	S1414SOP014	S1416SOP014	5.00	1.95	0.500	4	0.625	3.88	2.3
2	S1414SOP020	S1416SOP020	6.00	2.44	0.500	4	0.75	4.75	3.2
2-1/2	S1414SOP024	S1416SOP024	7.00	2.94	0.500	4	0.75	5.50	4.5
3	S1414SOP030	S1416SOP030	7.50	3.57	0.500	4	0.75	6.00	4.8
4	S1414SOP040	S1416SOP040	9.00	4.60	0.500	8	0.75	7.50	6.5
5	S1414SOP050	S1416SOP050	10.00	5.66	0.500	8	0.88	8.50	7.3
6	S1414SOP060	S1416SOP060	11.00	6.72	0.500	8	0.88	9.50	8.2
8	S1414SOP080	S1416SOP080	13.50	8.72	0.500	8	0.88	11.75	11.8
10	S1414SOP100	S1416SOP100	16.00	10.88	0.500	12	1.00	14.25	18.3
12	S1414SOP120	S1416SOP120	19.00	12.88	0.500	12	1.00	17.00	26.8
14	-	S1416SOP140	21.00	14.14	0.500	12	1.12	18.75	31.6
16	-	S1416SOP160	23.50	16.16	0.500	16	1.12	21.25	31.4
18	-	S1416SOP180	25.00	18.18	0.500	16	1.25	22.75	31.4
20	-	S1416SOP200	27.50	20.20	0.500	20	1.25	25.00	36.8
24	-	S1416SOP240	32.00	24.25	0.500	20	1.38	29.50	46.3



Tube Plate Flanges

Size	Part Numbers		A Outside Diameter	B Inside Diameter	C Thickness	Number of Bolt Holes	Bolt Hole Diameter	Bolt Circle	Weight
	304	316	in	in	in		in		
1	S1414SOTP010	S1416SOTP010	4.25	1.063	0.500	4	0.625	3.12	1.7
1-1/2	S1414SOTP014	S1416SOTP014	5.00	1.563	0.500	4	0.625	3.88	2.3
2	S1414SOTP020	S1416SOTP020	6.00	2.063	0.500	4	0.750	4.75	3.2
2-1/2	S1414SOTP024	S1416SOTP024	7.00	2.563	0.500	4	0.750	5.50	4.5
3	S1414SOTP030	S1416SOTP030	7.50	3.063	0.500	4	0.750	6.00	4.8
4	S1414SOTP040	S1416SOTP040	9.00	4.063	0.500	8	0.750	7.50	6.5
6	S1414SOTP060	S1416SOTP060	11.00	6.063	0.500	8	0.875	9.50	8.2
8	S1414SOTP080	S1416SOTP080	13.50	8.063	0.500	8	0.875	11.75	11.8
10	S1414SOTP100	S1416SOTP100	16.00	10.063	0.500	12	1.00	14.25	14.7
12	S1414SOTP120	S1416SOTP120	19.00	12.063	0.500	12	1.00	17.00	18.2



Stainless Weld Fittings

Specifications

- Stainless weld fittings conform to ASTM A403, ASTM A960, MSS SP-43
- Stainless weld fitting dimensions conform to ASTM B16.9 (except Wall) and MSS SP-43
- Manufacturing facility is ISO 9001:2008
- Independent lab verification that fittings meet applicable chemical & physical properties

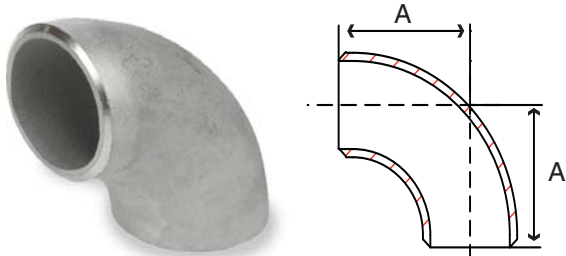


Fig. S2014LE & S2016LE - 90° Elbow Long Radius

Size in	Part Number		A in	Weight lb
	304 / L	316 / L		
1/2	S2014LE004	S2016LE004	1.50	0.1
3/4	S2014LE006	S2016LE006	1.50	0.1
1	S2014LE010	S2016LE010	1.50	0.1
1-1/4	S2014LE012	S2016LE012	1.88	0.2
1-1/2	S2014LE014	S2016LE014	2.25	0.3
2	S2014LE020	S2016LE020	3.00	0.6
2-1/2	S2014LE024	S2016LE024	3.75	1.2
3	S2014LE030	S2016LE030	4.50	1.7
4	S2014LE040	S2016LE040	6.00	3.0
5	S2014LE050	S2016LE050	7.50	6.1
6	S2014LE060	S2016LE060	9.00	8.9
8	S2014LE080	S2016LE080	12.00	15.4
10	S2014LE100	S2016LE100	15.00	29.2
12	S2014LE120	S2016LE120	16.00	52.0

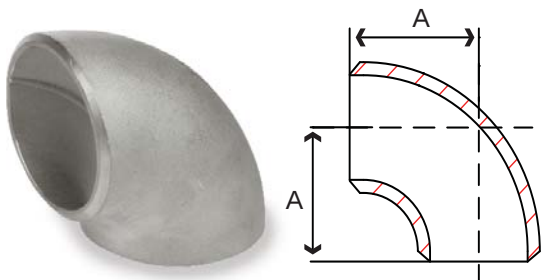


Fig. S2014E & S2016E - 90° Elbow Short Radius

Size in	Part Number		A in	Weight lb
	304 / L	316 / L		
1	S2014E 010	S2016E 010	1.50	0.1
1-1/4	S2014E 012	S2016E 012	1.88	0.2
1-1/2	S2014E 014	S2016E 014	2.25	0.3
2	S2014E 020	S2016E 020	3.00	0.6
2-1/2	S2014E 024	S2016E 024	3.75	1.2
3	S2014E 030	S2016E 030	4.50	1.7
4	S2014E 040	S2016E 040	6.00	3.0
5	S2014E 050	S2016E 050	7.50	6.1
6	S2014E 060	S2016E 060	9.00	8.9
8	S2014E 080	S2016E 080	12.00	15.4
10	S2014E 100	S2016E 100	15.00	29.2
12	S2014E 120	S2016E 120	16.00	52.0

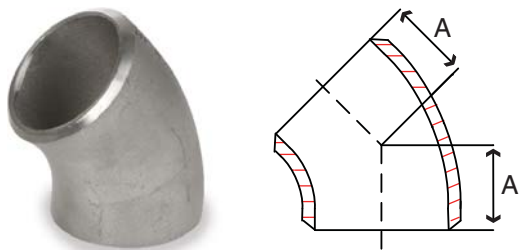


Fig. S2014F & S2016F - 45° Elbow

Size in	Part Number		A in	Weight lb
	304 / L	316 / L		
1/2	S2014F 004	S2016F 004	0.62	0.07
3/4	S2014F 006	S2016F 006	0.44	0.07
1	S2014F 010	S2016F 010	0.86	0.1
1-1/4	S2014F 012	S2016F 012	1.00	0.2
1-1/2	S2014F 014	S2016F 014	1.12	0.3
2	S2014F 020	S2016F 020	1.36	0.5
2-1/2	S2014F 024	S2016F 024	1.75	0.9
3	S2014F 030	S2016F 030	2.00	1.3
4	S2014F 040	S2016F 040	2.50	2.3
5	S2014F 050	S2016F 050	3.12	4.0
6	S2014F 060	S2016F 060	3.75	5.7
8	S2014F 080	S2016F 080	5.00	11.1
10	S2014F 100	S2016F 100	6.25	19.3
12	S2014F 120	S2016F 120	7.50	29.8

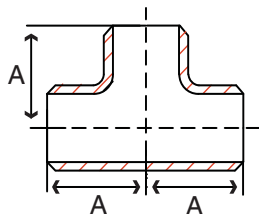


Fig. S2014T & S2016T - Tee

Size in	Part Number		A in	Weight lb
	304 / L	316 / L		
1/2	S2014T 004	S2016T 004	1.00	0.2
3/4	S2014T 006	S2016T 006	1.125	0.3
1	S2014T 010	S2016T 010	1.50	0.5
1-1/4	S2014T 012	S2016T 012	1.68	1.1
1-1/2	S2014T 014	S2016T 014	2.25	1.6
2	S2014T 020	S2016T 020	2.50	1.7
2-1/2	S2014T 024	S2016T 024	3.00	2.8
3	S2014T 030	S2016T 030	3.38	3.8
4	S2014T 040	S2016T 040	4.12	5.8
5	S2014T 050	S2016T 050	4.88	10.3
6	S2014T 060	S2016T 060	5.520	14.6
8	S2014T 080	S2016T 080	7.00	24.0
10	S2014T 100	S2016T 100	8.6	40.0
12	S2014T 120	S2016T 120	10.00	56.0

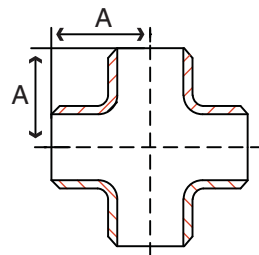


Fig. S2014X & S2016X - Cross

Size in	Part Number		A in	Weight lb
	304 / L	316 / L		
1-1/2	S2014X 014	S2016X 014	2.25	1.7
2	S2014X 020	S2016X 020	2.50	2.1
3	S2014X 030	S2016X 030	3.38	4.4
4	S2014X 040	S2016X 040	4.12	8.7
6	S2014X 060	S2016X 060	5.52	20.4

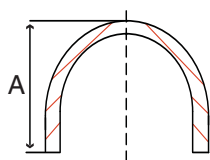


Fig. S2014C & S2016C - Cap

Size in	Part Number		A in	Weight lb
	304 / L	316 / L		
1/2	S2014C 004	S2016C 004	1.00	0.07
3/4	S2014C 006	S2016C 006	1.00	0.1
1	S2014C 010	S2016C 010	1.50	0.1
1-1/4	S2014C 012	S2016C 012	1.50	0.2
1-1/2	S2014C 014	S2016C 014	1.50	0.2
2	S2014C 020	S2016C 020	15.0	0.4
2-1/2	S2014C 024	S2016C 024	1.50	0.5
3	S2014C 030	S2016C 030	2.00	0.8
4	S2014C 040	S2016C 040	2.50	1.2
5	S2014C 050	S2016C 050	3.00	2.4
6	S2014C 060	S2016C 060	3.50	3.1
8	S2014C 080	S2016C 080	4.00	5.4
10	S2014C 100	S2016C 100	5.00	9.9
12	S2014C 120	S2016C 120	6.00	14.7

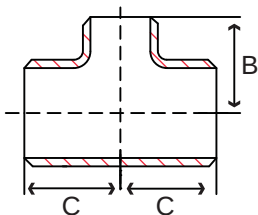


Fig. S2014RT & S2016RT - Reducing Tee

Size in	Part Number		A in	C in	Weight lb
	304 / L	316 / L			
3/4 x 1/2	S2014RT006004	S2016RT006004	1-1/8	1-1/8	0.2
1 x 1/2	S2014RT010004	S2016RT010004	1-1/2	1-1/2	0.5
1 x 3/4	S2014RT010006	S2016RT010006	1-1/2	1-1/2	0.5
1-1/4 x 3/4	S2014RT012006	S2016RT012006	1-7/8	1-7/8	0.9
1-1/4 x 1	S2014RT012010	S2016RT012010	1-7/8	1-7/8	0.9
1-1/2 x 1/2	S2014RT014004	S2016RT014004	2-1/4	2-1/4	1.2
1-1/2 x 3/4	S2014RT014006	S2016RT014006	2-1/4	2-1/4	1.2
1-1/2 x 1	S2014RT014010	S2016RT014010	2-1/4	2-1/4	1.3
1-1/2 x 1-1/4	S2014RT014012	S2016RT014012	2-1/4	2-1/4	1.3
2 x 1/2	S2014RT020004	S2014RT020004	2-1/2		
2 x 3/4	S2014RT020006	S2016RT020006	2-1/2	1-3/4	1.5
2 x 1	S2014RT020010	S2016RT020010	2-1/2	2	1.6
2 x 1-1/4	S2014RT020012	S2016RT020012	2-1/2	2-1/4	1.6
2 x 1-1/2	S2014RT020014	S2016RT020014	2-1/2	2-3/8	1.6
2-1/2 x 1	S2014RT024010	S2016RT024010	3	2-1/4	2.6
2-1/2 x 1-1/2	S2014RT024014	S2016RT024014	3	2-5/8	2.7
2-1/2 x 2	S2014RT024020	S2016RT024020	3	2-3/4	2.7
3 x 1	S2014RT030010	S2016RT030010	3-3/8	2-5/8	3.2
3 x 1-1/4	S2014RT030012	S2016RT030012	3-3/8	2-3/4	3.3
3 x 1-1/2	S2014RT030014	S2016RT030014	3-3/8	2-7/8	3.3
3 x 2	S2014RT030020	S2016RT030020	3-3/8	3	3.4
3 x 2-1/2	S2014RT030024	S2016RT030024	3-3/8	3-1/4	3.5
4 x 1-1/2	S2014RT040014	S2016RT040014	4-1/8	3-3/8	6.4
4 x 2	S2014RT040020	S2016RT040020	4-1/8	3-1/2	6.4
4 x 2-1/2	S2014RT040024	S2016RT040024	4-1/8	3-3/4	6.5
4 x 3	S2014RT040030	S2016RT040030	4-1/8	3-7/8	6.7
5 x 3	S2014RT050030	S2016RT050030	4-7/8	4-3/8	11.5
5 x 4	S2014RT050040	S2016RT050040	4-7/8	5	12.1
6 x 2	S2014RT060020	S2016RT060020	5-5/8		
6 x 2-1/2	S2014RT060024	S2016RT060024	5-5/8	4-3/4	14.9
6 x 3	S2014RT060030	S2016RT060030	5-5/8	4-7/8	15.1
6 x 4	S2014RT060040	S2016RT060040	5-5/8	5-1/8	15.6
8 x 3	S2014RT080030	S2016RT080030	7	6	29.0
8 x 4	S2014RT080040	S2016RT080040	7	6-1/8	29.6
8 x 6	S2014RT080060	S2016RT080060	7	6-5/8	31.0
10 x 4	S2014RT100040	S2016RT100040	8-1/2	7-1/4	50.1
10 x 6	S2014RT100060	S2016RT100060	8-1/2	7-5/8	51.9
10 x 8	S2014RT100080	S2016RT100080	8-1/2	8	53.1
12 x 6	S2014RT120060	S2016RT120060	10	8-5/8	74.8
12 x 8	S2014RT120080	S2016RT120080	10	9	76.5
12 x 10	S2014RT120100	S2016RT120100	10	9-1/2	78.3

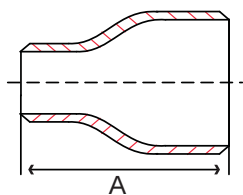


Fig. S2014CR & S2016CR - Concentric Reducer

Size in	Part Number		A in	Weight lb
	304 / L	316 / L		
3/4 x 1/2	S2014CR006004	S2016CR006004	1-1/2	0.2
1 x 1/2	S2014CR010004	S2016CR010004	2	0.2
1 x 3/4	S2014CR010006	S2016CR010006	2	0.2
1-1/4 x 1/2	S2014CR012004	S2016CR012004	2	0.3
1-1/4 x 3/4	S2014CR012006	S2016CR012006	2	0.3
1-1/4 x 1	S2014CR012010	S2016CR012010	2	0.3
1-1/2 x 1/2	S2014CR014004	S2016CR014004	2-1/2	0.3
1-1/2 x 3/4	S2014CR014006	S2016CR014006	2-1/2	0.3
1-1/2 x 1	S2014CR014010	S2016CR014010	2-1/2	0.4
1-1/2 x 1-1/4	S2014CR014012	S2016CR014012	2-1/2	0.4
2 x 1/2	S2014CR020004	S2016CR020004	3	0.5
2 x 3/4	S2014CR020006	S2016CR020006	3	0.5
2 x 1	S2014CR020010	S2016CR020010	3	0.6
2 x 1-1/4	S2014CR020012	S2016CR020012	3	0.6
2 x 1-1/2	S2014CR020014	S2016CR020014	3	0.6
2-1/2 x 1	S2014CR024010	S2016CR024010	3-1/2	0.8
2-1/2 x 1-1/4	S2014CR024012	S2016CR024012	3-1/2	0.9
2-1/2 x 1-1/2	S2014CR024014	S2016CR024014	3-1/2	0.9
2-1/2 x 2	S2014CR024020	S2016CR024020	3-1/2	1.0
3 x 1	S2014CR030010	S2016CR030010	3-1/2	1.0
3 x 1-1/4	S2014CR030012	S2016CR030012	3-1/2	1.0
3 x 1-1/2	S2014CR030014	S2016CR030014	3-1/2	1.1
3 x 2	S2014CR030020	S2016CR030020	3-1/2	1.2
3 x 2-1/2	S2014CR030024	S2016CR030024	3-1/2	1.3
4 x 1-1/2	S2014CR040014	S2016CR040014	4	1.7
4 x 2	S2014CR040020	S2016CR040020	4	1.5
4 x 2-1/2	S2014CR040024	S2016CR040024	4	1.7
4 x 3	S2014CR040030	S2016CR040030	4	1.8
5 x 3	S2014CR050030	S2016CR050030	5	3.0
5 x 4	S2014CR050040	S2016CR050040	5	3.2
6 x 2	S2014CR060020	S2016CR060020	5-1/2	3.2
6 x 2-1/2	S2014CR060024	S2016CR060024	5-1/2	3.2
6 x 3	S2014CR060030	S2016CR060030	5-1/2	3.3
6 x 4	S2014CR060040	S2016CR060040	5-1/2	4.2
6 x 5	S2014CR060050	S2016CR060050	5-1/2	4.3
8 x 3	S2014CR080030	S2016CR080030	6	4.4
8 x 4	S2014CR080040	S2016CR080040	6	6.6
8 x 6	S2014CR080060	S2016CR080060	6	7.0
10 x 4	S2014CR100040	S2016CR100040	7	10.4
10 x 6	S2014CR100060	S2016CR100060	7	11.0
10 x 8	S2014CR100080	S2016CR100080	7	11.4
12 x 6	S2014CR120060	S2016CR120060	8	16.3
12 x 8	S2014CR120080	S2016CR120080	8	16.9
12 x 10	S2014CR120100	S2016CR120100	8	17.6

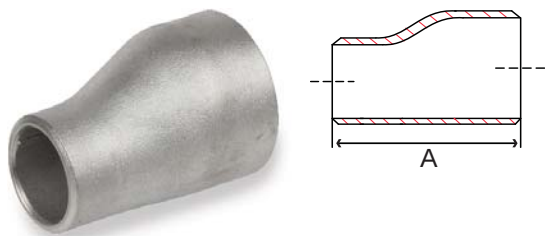


Fig. S2014ER & S2016ER - Eccentric Reducer

Size in	Part Number		A in	Weight lb
	304 / L	316 / L		
3/4 x 1/2	S2014ER006004	S2016ER006004	1-1/2	0.2
1 x 1/2	S2014ER010004	S2016ER010004	2	0.2
1 x 3/4	S2014ER010006	S2016ER010006	2	0.2
1-1/4 x 3/4	S2014ER012006	S2016ER012006	2	0.3
1-1/4 x 1	S2014ER012010	S2016ER012010	2	0.3
1-1/2 x 1/2	S2014ER014004	S2016ER014004	2-1/2	0.3
1-1/2 x 3/4	S2014ER014006	S2016ER014006	2-1/2	0.3
1-1/2 x 1	S2014ER014010	S2016ER014010	2-1/2	0.4
1-1/2 x 1-1/4	S2014ER014012	S2016ER014012	2-1/2	0.4
2 x 1/2	S2014ER020004	S2016ER020004	3	0.5
2 x 3/4	S2014ER020006	S2016ER020006	3	0.5
2 x 1	S2014ER020010	S2016ER020010	3	0.6
2 x 1-1/4	S2014ER020012	S2016ER020012	3	0.6
2 x 1-1/2	S2014ER020014	S2016ER020014	3	0.6
2-1/2 x 1	S2014ER024010	S2016ER024010	3-1/2	0.8
2-1/2 x 1-1/2	S2014ER024014	S2016ER024014	3-1/2	0.9
2-1/2 x 2	S2014ER024020	S2016ER024020	3-1/2	1.0
3 x 1	S2014ER030010	S2016ER030010	3-1/2	1.0
3 x 1-1/4	S2014ER030012	S2016ER030012	3-1/2	1.0
3 x 1-1/2	S2014ER030014	S2016ER030014	3-1/2	1.1
3 x 2	S2014ER030020	S2016ER030020	3-1/2	1.2
3 x 2-1/2	S2014ER030024	S2016ER030024	3-1/2	1.3
4 x 1-1/2	S2014ER040014	S2016ER040014	4	1.7
4 x 2	S2014ER040020	S2016ER040020	4	1.5
4 x 2-1/2	S2014ER040024	S2016ER040024	4	1.7
4 x 3	S2014ER040030	S2016ER040030	4	1.8
5 x 3	S2014ER050030	S2016ER050030	5	3.0
5 x 4	S2014ER050040	S2016ER050040	5	3.2
6 x 2	S2014ER060020	S2016ER060020	5-1/2	3.2
6 x 2-1/2	S2014ER060024	S2016ER060024	5-1/2	3.2
6 x 3	S2014ER060030	S2016ER060030	5-1/2	3.3
6 x 4	S2014ER060040	S2016ER060040	5-1/2	4.2
6 x 5	S2014ER060050	S2016ER060050	5-1/2	4.3
8 x 3	S2014ER080030	S2016ER080030	6	4.4
8 x 4	S2014ER080040	S2016ER080040	6	6.6
8 x 6	S2014ER080060	S2016ER080060	6	7.0
10 x 6	S2014ER100060	S2016ER100060	7	11.0
10 x 8	S2014ER100080	S2016ER100080	7	11.4
12 x 6	S2014ER120060	S2016ER120060	8	16.3
12 x 8	S2014ER120080	S2016ER120080	8	16.9
12 x 10	S2014ER120100	S2016ER120100	8	17.6

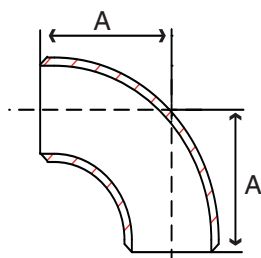


Fig. S2044LE & S2046LE - 90° Elbow Long Radius

Size in	Part Number		A in	Weight lb
	304 / L	316 / L		
1/2	S2044LE004	S2046LE004	1.50	0.1
3/4	S2044LE006	S2046LE006	1.50	0.1
1	S2044LE010	S2046LE010	1.50	0.2
1-1/4	S2044LE012	S2046LE012	1.88	0.4
1-1/2	S2044LE014	S2046LE014	2.25	0.6
2	S2044LE020	S2046LE020	3.00	1.0
2-1/2	S2044LE024	S2046LE024	3.75	1.8
3	S2044LE030	S2046LE030	4.50	2.6
4	S2044LE040	S2046LE040	6.00	4.6
5	S2044LE050	S2046LE050	7.50	8.0
6	S2044LE060	S2046LE060	9.00	11.5
8	S2044LE080	S2046LE080	12.00	22.0
10	S2044LE100	S2046LE100	15.00	38.6
12	S2044LE120	S2046LE120	16.00	59.5

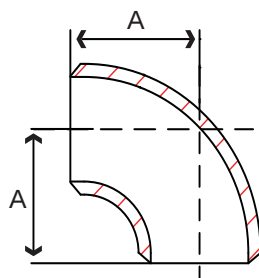


Fig. S2044E & S2046E - 90° Elbow Short Radius

Size in	Part Number		A in	Weight lb
	304 / L	316 / L		
1	S2044E 010	S2046E 010	1.00	0.1
1-1/4	S2044E 012	S2046E 012	1.25	0.3
1-1/2	S2044E 014	S2046E 014	1.50	0.4
2	S2044E 020	S2046E 020	2.00	0.7
2-1/2	S2044E 024	S2046E 024	2.50	1.2
3	S2044E 030	S2046E 030	3.00	1.7
4	S2044E 040	S2046E 040	4.00	3.0
5	S2044E 050	S2046E 050	5.00	5.2
6	S2044E 060	S2046E 060	6.00	8.2
8	S2044E 080	S2046E 080	8.00	14.2

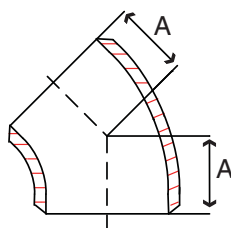


Fig. S2044F & S2046F - 45° Elbow

Size in	Part Number		A in	Weight lb
	304 / L	316 / L		
1/2	S2044F 004	S2046F 004	0.62	0.09
3/4	S2044F 006	S2046F 006	0.44	0.09
1	S2044F 010	S2046F 010	0.86	0.1
1-1/4	S2044F 012	S2046F 012	1.00	0.2
1-1/2	S2044F 014	S2046F 014	1.12	0.4
2	S2044F 020	S2046F 020	1.36	0.7
2-1/2	S2044F 024	S2046F 024	1.75	1.4
3	S2044F 030	S2046F 030	2.00	2.3
4	S2044F 040	S2046F 040	2.50	4.4
5	S2044F 050	S2046F 050	3.12	7.5
6	S2044F 060	S2046F 060	3.75	11.8
8	S2044F 080	S2046F 080	5.00	23.5
10	S2044F 100	S2046F 100	6.25	41.8
12	S2044F 120	S2046F 120	7.50	61.5

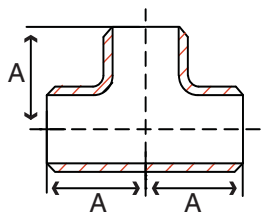


Fig. S2044T & S2046T - Tee

Size in	Part Number		A in	Weight lb
	304 / L	316 / L		
1/2	S2044T 004	S2046T 004	1.00	0.3
3/4	S2044T 006	S2046T 006	1.125	0.4
1	S2044T 010	S2046T 010	1.50	0.6
1-1/4	S2044T 012	S2046T 012	1.68	1.1
1-1/2	S2044T 014	S2046T 014	2.25	1.6
2	S2044T 020	S2046T 020	2.50	4.1
2-1/2	S2044T 024	S2046T 024	3.00	6.3
3	S2044T 030	S2046T 030	3.38	8.4
4	S2044T 040	S2046T 040	4.12	13.2
5	S2044T 050	S2046T 050	4.88	21.9
6	S2044T 060	S2046T 060	5.520	34.6
8	S2044T 080	S2046T 080	7.00	61.0
10	S2044T 100	S2046T 100	8.6	89.0
12	S2044T 120	S2046T 120	10.00	145.0

W
E
L
D

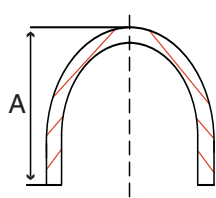


Fig. S2044C & S2046C - Cap

Size in	Part Number		A in	Weight lb
	304 / L	316 / L		
1/2	S2044C 004	S2046C 004	1.00	0.07
3/4	S2044C 006	S2046C 006	1.00	0.1
1	S2044C 010	S2046C 010	1.50	0.2
1-1/4	S2044C 012	S2046C 012	1.50	0.3
1-1/2	S2044C 014	S2046C 014	1.50	0.3
2	S2044C 020	S2046C 020	15.0	0.5
2-1/2	S2044C 024	S2046C 024	1.50	0.8
3	S2044C 030	S2046C 030	2.00	1.4
4	S2044C 040	S2046C 040	2.50	2.5
5	S2044C 050	S2046C 050	3.00	4.1
6	S2044C 060	S2046C 060	3.50	6.4
8	S2044C 080	S2046C 080	4.00	11.2
10	S2044C 100	S2046C 100	5.00	20.0
12	S2044C 120	S2046C 120	6.00	35.4

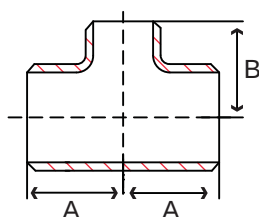


Fig. S2044RT & S2046RT - Reducing Tee

Size in	Part Number		A in	B in	Weight lb
	304 / L	316 / L			
3/4 x 1/2	S2044RT006004	S2046RT006004	1-1/8	1-1/8	0.3
1 x 1/2	S2044RT010004	S2046RT010004	1-1/2	1-1/2	0.5
1 x 3/4	S2044RT010006	S2046RT010006	1-1/2	1-1/2	0.5
1-1/4 x 3/4	S2044RT012006	S2046RT012006	1-7/8	1-7/8	1.1
1-1/4 x 1	S2044RT012010	S2046RT012010	1-7/8	1-7/8	1.1
1-1/2 x 1/2	S2044RT014004	S2046RT014004	2-1/4	2-1/4	1.6
1-1/2 x 3/4	S2044RT014006	S2046RT014006	2-1/4	2-1/4	1.6
1-1/2 x 1	S2044RT014010	S2046RT014010	2-1/4	2-1/4	1.6
1-1/2 x 1-1/4	S2044RT014012	S2046RT014012	2-1/4	2-1/4	1.7
2 x 1/2	S2044RT020004	S2046RT020004	2-1/2	1-3/4	2.4
2 x 3/4	S2044RT020006	S2046RT020006	2-1/2	1-3/4	2.4
2 x 1	S2044RT020010	S2046RT020010	2-1/2	2	2.4
2 x 1-1/4	S2044RT020012	S2046RT020012	2-1/2	2-1/4	2.4
2 x 1-1/2	S2044RT020014	S2046RT020014	2-1/2	2-3/8	2.5
2-1/2 x 1	S2044RT024010	S2046RT024010	3	2-1/4	4.1
2-1/2 x 1-1/2	S2044RT024014	S2046RT024014	3	2-5/8	4.2
2-1/2 x 2	S2044RT024020	S2046RT024020	3	2-3/4	4.3
3 x 1	S2044RT030010	S2046RT030010	3-3/8	2-5/8	6.1
3 x 1-1/4	S2044RT030012	S2046RT030012	3-3/8	2-3/4	6.2
3 x 1-1/2	S2044RT030014	S2046RT030014	3-3/8	2-7/8	6.2
3 x 2	S2044RT030020	S2046RT030020	3-3/8	3	6.4
3 x 2-1/2	S2044RT030024	S2046RT030024	3-3/8	3-1/4	6.5
4 x 1-1/2	S2044RT040014	S2046RT040014	4-1/8	3-3/8	9.7
4 x 2	S2044RT040020	S2046RT040020	4-1/8	3-1/2	9.8
4 x 2-1/2	S2044RT040024	S2046RT040024	4-1/8	3-3/4	10.0
4 x 3	S2044RT040030	S2046RT040030	4-1/8	3-7/8	10.2
5 x 3	S2044RT050030	S2046RT050030	4-7/8	4-3/8	17.8
5 x 4	S2044RT050040	S2046RT050040	4-7/8	5	18.6
6 x 2	S2044RT060020	S2046RT060020	5-5/8	4-3/4	20.3
6 x 2-1/2	S2044RT060024	S2046RT060024	5-5/8	4-3/4	20.3
6 x 3	S2044RT060030	S2046RT060030	5-5/8	4-7/8	26.3
6 x 4	S2044RT060040	S2046RT060040	5-5/8	5-1/8	21.3
6 x 5	S2044RT060050	S2046RT060050	5-5/8	5-3/8	21.8
8 x 3	S2044RT080030	S2046RT080030	7	6	38.7
8 x 4	S2044RT080040	S2046RT080040	7	6-1/8	39.6
8 x 6	S2044RT080060	S2046RT080060	7	6-5/8	41.4
10 x 4	S2044RT100040	S2046RT100040	8-1/2	7-1/4	66.3
10 x 6	S2044RT100060	S2046RT100060	8-1/2	7-5/8	68.6
10 x 8	S2044RT100080	S2046RT100080	8-1/2	8	70.2
12 x 6	S2044RT120060	S2046RT120060	10	8-5/8	118.0
12 x 8	S2044RT120080	S2046RT120080	10	9	120.0
12 x 10	S2044RT120100	S2046RT120100	10	9-1/2	123.0

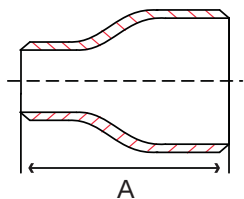


Fig. S2044CR & S2046CR - Concentric Reducer

Size in	Part Number		A in	Weight lb
	304 / L	316 / L		
3/4 x 1/2	S2044CR006004	S2046CR006004	1-1/2	0.3
1 x 1/2	S2044CR010004	S2046CR010004	2	0.3
1 x 3/4	S2044CR010006	S2046CR010006	2	0.3
1-1/4 x 3/4	S2044CR012006	S2046CR012006	2	0.4
1-1/4 x 1	S2044CR012010	S2046CR012010	2	0.4
1-1/2 x 1/2	S2044CR014004	S2046CR014004	2-1/2	0.5
1-1/2 x 3/4	S2044CR014006	S2046CR014006	2-1/2	0.5
1-1/2 x 1	S2044CR014010	S2046CR014010	2-1/2	0.5
1-1/2 x 1-1/4	S2044CR014012	S2046CR014012	2-1/2	0.6
2 x 1/2	S2044CR020004	S2046CR020004	3	0.8
2 x 3/4	S2044CR020006	S2046CR020006	3	0.8
2 x 1	S2044CR020010	S2046CR020010	3	0.8
2 x 1-1/4	S2044CR020012	S2046CR020012	3	0.9
2 x 1-1/2	S2044CR020014	S2046CR020014	3	0.9
2-1/2 x 1	S2044CR024010	S2046CR024010	3-1/2	1.4
2-1/2 x 1-1/4	S2044CR024012	S2046CR024012	3-1/2	1.6
2-1/2 x 1-1/2	S2044CR024014	S2046CR024014	3-1/2	1.6
2-1/2 x 2	S2044CR024020	S2046CR024020	3-1/2	1.7
3 x 1	S2044CR030010	S2046CR030010	3-1/2	1.8
3 x 1-1/4	S2044CR030012	S2046CR030012	3-1/2	1.8
3 x 1-1/2	S2044CR030014	S2046CR030014	3-1/2	2.0
3 x 2	S2044CR030020	S2046CR030020	3-1/2	2.2
3 x 2-1/2	S2044CR030024	S2046CR030024	3-1/2	2.3
4 x 1-1/2	S2044CR040014	S2046CR040014	4	3.3
4 x 2	S2044CR040020	S2046CR040020	4	3.0
4 x 2-1/2	S2044CR040024	S2046CR040024	4	3.4
4 x 3	S2044CR040030	S2046CR040030	4	3.6
5 x 3	S2044CR050030	S2046CR050030	5	6.0
5 x 4	S2044CR050040	S2046CR050040	5	6.4
6 x 2	S2044CR060020	S2046CR060020	5-1/2	6.5
6 x 2-1/2	S2044CR060024	S2046CR060024	5-1/2	6.5
6 x 3	S2044CR060030	S2046CR060030	5-1/2	8.3
6 x 4	S2044CR060040	S2046CR060040	5-1/2	8.9
6 x 5	S2044CR060050	S2046CR060050	5-1/2	8.9
8 x 3	S2044CR080030	S2046CR080030	6	9.4
8 x 4	S2044CR080040	S2046CR080040	6	14.4
8 x 6	S2044CR080060	S2046CR080060	6	15.3
10 x 4	S2044CR100040	S2046CR100040	7	23.1
10 x 6	S2044CR100060	S2046CR100060	7	24.5
10 x 8	S2044CR100080	S2046CR100080	7	25.4
12 x 6	S2044CR120060	S2046CR120060	8	34.1
12 x 8	S2044CR120080	S2046CR120080	8	35.2
12 x 10	S2044CR120100	S2046CR120100	8	36.6

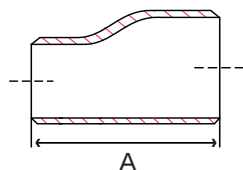


Fig. S2044ER & S2046ER - Eccentric Reducer

Size in	Part Number		A in	Weight lb
	304 / L	316 / L		
3/4 x 1/2	S2044ER006004	S2046ER006004	1-1/2	0.3
1 x 1/2	S2044ER010004	S2046ER010004	2	0.3
1 x 3/4	S2044ER010006	S2046ER010006	2	0.3
1-1/4 x 3/4	S2044ER012006	S2046ER012006	2	0.4
1-1/4 x 1	S2044ER012010	S2046ER012010	2	0.4
1-1/2 x 1/2	S2044ER014004	S2046ER014004	2-1/2	0.5
1-1/2 x 3/4	S2044ER014006	S2046ER014006	2-1/2	0.5
1-1/2 x 1	S2044ER014010	S2046ER014010	2-1/2	0.5
1-1/2 x 1-1/4	S2044ER014012	S2046ER014012	2-1/2	0.6
2 x 1/2	S2044ER020004	S2046ER020004	3	0.8
2 x 3/4	S2044ER020006	S2046ER020006	3	0.8
2 x 1	S2044ER020010	S2046ER020010	3	0.8
2 x 1-1/4	S2044ER020012	S2046ER020012	3	0.9
2 x 1-1/2	S2044ER020014	S2046ER020014	3	0.9
2-1/2 x 1	S2044ER024010	S2046ER024010	3-1/2	1.4
2-1/2 x 1-1/2	S2044ER024014	S2046ER024014	3-1/2	1.6
2-1/2 x 2	S2044ER024020	S2046ER024020	3-1/2	1.7
3 x 1	S2044ER030010	S2046ER030010	3-1/2	1.8
3 x 1-1/4	S2044ER030012	S2046ER030012	3-1/2	1.8
3 x 1-1/2	S2044ER030014	S2046ER030014	3-1/2	2.0
3 x 2	S2044ER030020	S2046ER030020	3-1/2	2.2
3 x 2-1/2	S2044ER030024	S2046ER030024	3-1/2	2.3
4 x 1-1/2	S2044ER040014	S2046ER040014	4	3.3
4 x 2	S2044ER040020	S2046ER040020	4	3.0
4 x 2-1/2	S2044ER040024	S2046ER040024	4	3.4
4 x 3	S2044ER040030	S2046ER040030	4	3.6
5 x 3	S2044ER050030	S2046ER050030	5	6.0
5 x 4	S2044ER050040	S2046ER050040	5	6.4
6 x 2	S2044ER060020	S2046ER060020	5-1/2	6.5
6 x 2-1/2	S2044ER060024	S2046ER060024	5-1/2	6.5
6 x 3	S2044ER060030	S2046ER060030	5-1/2	8.3
6 x 4	S2044ER060040	S2046ER060040	5-1/2	8.9
6 x 5	S2044ER060050	S2046ER060050	5-1/2	8.9
8 x 3	S2044ER080030	S2046ER080030	6	9.4
8 x 4	S2044ER080040	S2046ER080040	6	14.4
8 x 6	S2044ER080060	S2046ER080060	6	15.3
10 x 6	S2044ER100060	S2046ER100060	7	24.5
10 x 8	S2044ER100080	S2046ER100080	7	25.4
12 x 6	S2044ER120060	S2046ER120060	8	34.1
12 x 8	S2044ER120080	S2046ER120080	8	35.2
12 x 10	S2044ER120100	S2046ER120100	8	36.6

Fig. S2214MA & S2216MA - Sch 10 MSS Type A Stub End

Size in	Part Number		A in	B in	C in	D in	Weight lb
	304 / L	316 / L					
1/2	S2214MA004	S2216MA004	1.38	2.00	0.125	0.840	0.1
3/4	S2214MA006	S2216MA006	1.69	2.00	0.125	1.050	0.1
1	S2214MA010	S2216MA010	2.00	2.00	0.125	1.315	0.3
1-1/4	S2214MA012	S2216MA012	2.50	2.00	0.187	1.660	0.4
1-1/2	S2214MA014	S2216MA014	2.88	2.00	0.250	1.90	0.5
2	S2214MA020	S2216MA020	3.62	2.50	0.313	2.375	0.8
2-1/2	S2214MA024	S2216MA024	4.12	2.50	0.313	2.875	1.0
3	S2214MA030	S2216MA030	5.00	2.50	0.375	3.50	1.4
4	S2214MA040	S2216MA040	6.19	3.00	0.436	4.50	2.1
5	S2214MA050	S2216MA050	7.31	3.00	0.436	5.563	2.7
6	S2214MA060	S2216MA060	8.50	3.50	0.500	6.625	4.3
8	S2214MA080	S2216MA080	10.625	4.00	0.500	8.625	6.8
10	S2214MA100	S2216MA100	12.75	5.0	0.500	10.75	10.7
12	S2214MA120	S2216MA120	15.00	6.0	0.500	12.75	12.6

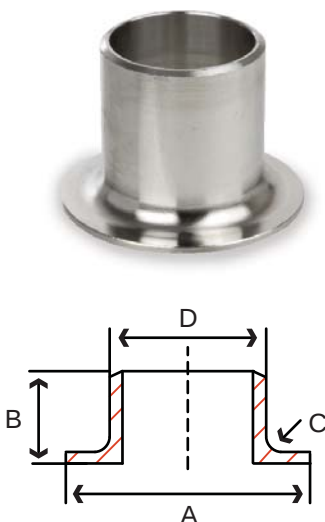


Fig. S2214MC & S2216MC - Sch 10 MSS Type C Stub End

Size in	Part Number		A in	B in	C in	D in	Weight lb
	304 / L	316 / L					
1/2	S2214MC004	S2216MC004	1.38	2.00	0.031	0.840	0.1
3/4	S2214MC006	S2216MC006	1.69	2.00	0.031	1.050	0.1
1	S2214MC010	S2216MC010	2.00	2.00	0.031	1.315	0.3
1-1/4	S2214MC012	S2216MC012	2.50	2.00	0.031	1.660	0.4
1-1/2	S2214MC014	S2216MC014	2.88	2.00	0.031	1.90	0.5
2	S2214MC020	S2216MC020	3.62	2.50	0.031	2.375	0.8
2-1/2	S2214MC024	S2216MC024	4.12	2.50	0.031	2.875	1.0
3	S2214MC030	S2216MC030	5.00	2.50	0.031	3.50	1.4
4	S2214MC040	S2216MC040	6.19	3.00	0.063	4.50	2.1
5	S2214MC050	S2216MC050	7.31	3.00	0.063	5.563	2.7
6	S2214MC060	S2216MC060	8.50	3.50	0.063	6.625	4.3
8	S2214MC080	S2216MC080	10.625	4.00	0.063	8.625	6.8
10	S2214MC100	S2216MC100	12.75	5.0	0.063	10.75	10.7
12	S2214MC120	S2216MC120	15.00	6.0	0.063	12.75	12.6

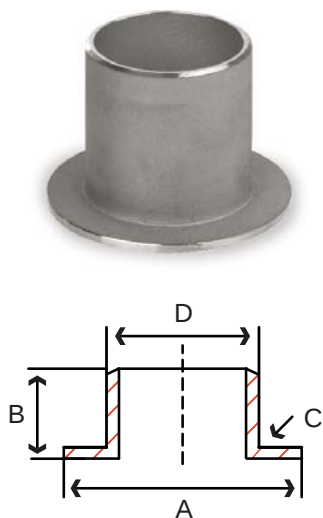
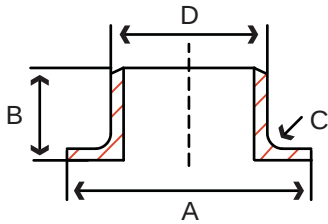
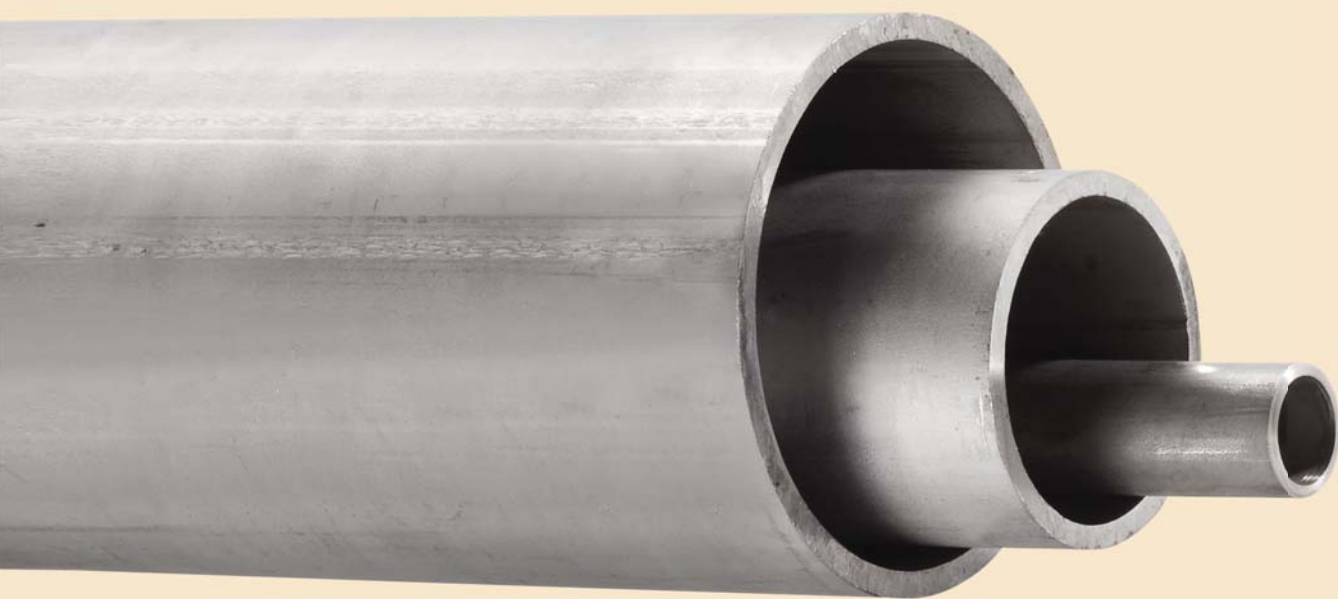


Fig. S2244MA & S2246MA - Sch 40 MSS Type A Stub End



Size in	Part Number		A in	B in	C in	D in	Weight lb
	304 / L	316 / L					
1/2	S2244MA004	S2246MA004	1.38	2.00	0.125	0.840	0.2
3/4	S2244MA006	S2246MA006	1.69	2.00	0.125	1.050	0.3
1	S2244MA010	S2246MA010	2.00	2.00	0.125	1.315	0.4
1-1/4	S2244MA012	S2246MA012	2.50	2.00	0.187	1.660	0.5
1-1/2	S2244MA014	S2246MA014	2.88	2.00	0.250	1.90	0.8
2	S2244MA020	S2246MA020	3.62	2.50	0.313	2.375	1.1
2-1/2	S2244MA024	S2246MA024	4.12	2.50	0.313	2.875	1.7
3	S2244MA030	S2246MA030	5.00	2.50	0.375	3.50	2.5
4	S2244MA040	S2246MA040	6.19	3.00	0.436	4.50	4.0
5	S2244MA050	S2246MA050	7.31	3.00	0.436	5.563	5.6
6	S2244MA060	S2246MA060	8.50	3.50	0.500	6.625	8.2
8	S2244MA080	S2246MA080	10.625	4.00	0.500	8.625	13.0
10	S2244MA100	S2246MA100	12.75	5.0	0.500	10.75	23.0
12	S2244MA120	S2246MA120	15.00	6.0	0.500	12.75	33.0



Pipe and Tubing

Pipe Specifications

- Welded and seamless pipe material conforms to ASTM A312, ASTM A999
- Stainless pipe dimensions conform to ASTM A999, ASME B36.19, ASME B36.10, A276
- Manufacturing facility is ISO 9001:2008
- Pipe sold as single random lengths
- Cut-to-length, threading and grooving available upon request

Instrumentation Tubing Specifications

- Instrumentation tubing dimensions and materials conform to ASTM A269 and ASTM A213

Sanitary Tubing Specifications

- Sanitary tubing dimensions and materials conform to ASTM A269, ASTM A270 and 3-A Approved



Fig. S6014WP & S6016WP - Sch 10 Welded Pipe

Diameter in	Part Number		OD in	Wall Thickness in	Pipe Length ft	Weight lb / ft
	304 / L	316 / L				
1/2	S6014WP004	S6016WP004	0.84	0.083	20	0.6
3/4	S6014WP006	S6016WP006	1.05	0.083	20	0.8
1	S6014WP010	S6016WP010	1.32	0.109	20	1.4
1-1/4	S6014WP012	S6016WP012	1.66	0.109	20	1.8
1-1/2	S6014WP014	S6016WP014	1.90	0.109	20	2.0
2	S6014WP020	S6016WP020	2.37	0.109	20	2.6
2-1/2	S6014WP024	S6016WP024	2.87	0.120	20	3.5
3	S6014WP030	S6016WP030	3.50	0.120	20	4.3
4	S6014WP040	S6016WP040	4.50	0.120	20	5.6
5	S6014WP050	S6016WP050	5.563	0.134	20	7.7
6	S6014WP060	S6016WP060	6.625	0.134	20	9.2
8	S6014WP080	S6016WP080	8.625	0.148	20	13.4
10	S6014WP100	S6016WP100	10.750	0.165	20	18.7
12	S6014WP120	S6016WP120	12.750	0.180	20	24.2

PIPE & TUBE

Fig. S6044WP & S6046WP - Sch 40 Welded Pipe

Diameter in	Part Number		OD in	Wall Thickness in	Pipe Length ft	Weight lb / ft
	304 / L	316 / L				
1/8	S6044WP001	S6046WP001	0.41	0.068	20	0.2
1/4	S6044WP002	S6046WP002	0.54	0.088	20	0.4
3/8	S6044WP003	S6046WP003	0.67	0.091	20	0.5
1/2	S6044WP004	S6046WP004	0.84	0.109	20	0.8
3/4	S6044WP006	S6046WP006	1.05	0.113	20	1.1
1	S6044WP010	S6046WP010	1.32	0.133	20	1.6
1-1/4	S6044WP012	S6046WP012	1.66	0.140	20	2.2
1-1/2	S6044WP014	S6046WP014	1.90	0.145	20	2.7
2	S6044WP020	S6046WP020	2.37	0.154	20	3.6
2-1/2	S6044WP024	S6046WP024	2.87	0.203	20	5.7
3	S6044WP030	S6046WP030	3.50	0.216	20	7.5
4	S6044WP040	S6046WP040	4.50	0.237	20	10.7
5	S6044WP050	S6046WP050	5.563	0.258	20	14.6
6	S6044WP060	S6046WP060	6.625	0.280	20	18.9
8	S6044WP080	S6046WP080	8.625	0.322	20	28.5
10	S6044WP100	S6046WP100	10.750	0.365	20	40.4
12	S6044WP120	S6046WP120	12.750	0.375	20	49.5



Fig. S6144SP & S6146SP - Sch 40 Seamless Pipe

Diameter in	Part Number		OD in	Wall Thickness in	Pipe Length ft	Weight lb / ft
	304 / L	316 / L				
1/8	S6144SP001	S6146SP001	0.41	0.068	20	0.2
1/4	S6144SP002	S6146SP002	0.54	0.088	20	0.4
3/8	S6144SP003	S6146SP003	0.67	0.091	20	0.5
1/2	S6144SP004	S6146SP004	0.84	0.109	20	0.8
3/4	S6144SP006	S6146SP006	1.05	0.113	20	1.1
1	S6144SP010	S6146SP010	1.32	0.133	20	1.6
1-1/4	S6144SP012	S6146SP012	1.66	0.140	20	2.2
1-1/2	S6144SP014	S6146SP014	1.90	0.145	20	2.7
2	S6144SP020	S6146SP020	2.37	0.154	20	3.6

Fig. S6184SP & S6186SP - Sch 80 Seamless Pipe

Diameter in	Part Number		OD in	Wall Thickness in	Pipe Length ft	Weight lb / ft
	304 / L	316 / L				
1/8	S6184SP001	S6186SP001	0.41	0.095	20	0.3
1/4	S6184SP002	S6186SP002	0.54	0.119	20	0.5
3/8	S6184SP003	S6186SP003	0.67	0.126	20	0.7
1/2	S6184SP004	S6186SP004	0.84	0.147	20	1.0
3/4	S6184SP006	S6186SP006	1.05	0.154	20	1.4
1	S6184SP010	S6186SP010	1.32	0.179	20	2.1
1-1/4	S6184SP012	S6186SP012	1.66	0.191	20	2.9
1-1/2	S6184SP014	S6186SP014	1.90	0.200	20	3.6
2	S6184SP020	S6186SP020	2.37	0.218	20	5.0

Fig. S64ST4 & S64ST6 – Seamless Instrumentation Tubing

Tube OD in	Wall Thickness in	Part Number		ID in	Tube Length ft	Weight lb / ft
		304/L	316/L			
1/8	0.035	S64ST4035001	S64ST6035001	0.055	20	0.03
1/8	0.049	S64ST4049001	S64ST6049001	0.027	20	0.04
1/4	0.028	S64ST4028002	S64ST6028002	0.194	20	0.06
1/4	0.035	S64ST4035002	S64ST6035002	0.180	20	0.08
1/4	0.049	S64ST4049002	S64ST6049002	0.152	20	0.1
1/4	0.065	S64ST4065002	S64ST6065002	0.120	20	0.1
1/4	0.083	S64ST4083002	S64ST6083002	0.084	20	0.1
5/16	0.035	S64ST4035516	S64ST6035516	0.243	20	0.1
3/8	0.035	S64ST4035003	S64ST6035003	0.305	20	0.1
3/8	0.049	S64ST4049003	S64ST6049003	0.277	20	0.1
3/8	0.065	S64ST4065003	S64ST6065003	0.245	20	0.2
3/8	0.083	S64ST4083003	S64ST6083003	0.209	20	0.2
1/2	0.035	S64ST4035004	S64ST6035004	0.430	20	0.1
1/2	0.049	S64ST4049004	S64ST6049004	0.402	20	0.2
1/2	0.065	S64ST4065004	S64ST6065004	0.370	20	0.3
1/2	0.083	S64ST4083004	S64ST6083004	0.334	20	0.4
1/2	0.120	S64ST4120004	S64ST6120004	0.260	20	0.5
5/8	0.035	S64ST4035005	S64ST6035005	0.555	20	0.2
5/8	0.049	S64ST4049005	S64ST6049005	0.527	20	0.3
5/8	0.065	S64ST4065005	S64ST6065005	0.495	20	0.3
5/8	0.083	S64ST4083005	S64ST6083005	0.509	20	0.5
3/4	0.035	S64ST4035006	S64ST6035006	0.680	20	0.2
3/4	0.049	S64ST4049006	S64ST6049006	0.652	20	0.3
3/4	0.065	S64ST4065006	S64ST6065006	0.620	20	0.4
3/4	0.083	S64ST4083006	S64ST6083006	0.584	20	0.6
3/4	0.095	S64ST4095006	S64ST6095006	0.560	20	0.7
1	0.035	S64ST4035010	S64ST6035010	0.930	20	0.3
1	0.049	S64ST4049010	S64ST6049010	0.902	20	0.4
1	0.065	S64ST4065010	S64ST6065010	0.870	20	0.6
1	0.083	S64ST4083010	S64ST6083010	0.834	20	0.8
1	0.095	S64ST4095010	S64ST6095010	0.810	20	0.9
1	0.120	S64ST4120010	S64ST6120010	0.760	20	1.1
1-1/4	0.065	S64ST4065012	S64ST6065012	1.120	20	0.8

PIPE
&
TUBE

Fig. S62TP4 & S62TP6 – Sanitary Tubing

Tube OD in	Part Number		Wall Thickness in	I.D. in	Tube Length ft	Weight lb / ft
	304	316				
1/2	S62TP46004	S62TP66004	0.065	0.370	20	0.3
3/4	S62TP46006	S62TP66006	0.065	0.620	20	0.5
1	S62TP46010	S62TP66010	0.065	0.870	20	0.6
1-1/2	S62TP46014	S62TP66014	0.065	1.370	20	0.9
2	S62TP46020	S62TP66020	0.065	1.870	20	1.3
2-1/2	S62TP46024	S62TP66024	0.065	2.370	20	1.6
3	S62TP46030	S62TP66030	0.065	2.870	20	2.0
4	S62TP48040	S62TP68040	0.083	3.834	20	3.4
6	S62TP49060	S62TP69060	0.109	5.782	20	5.3

Nominal IPS in	Nominal O.D. in	Schedule 5S		Schedule 10S		Schedule 40S		Schedule 80S	
		Wall in	Pressure psi	Wall in	Pressure psi	Wall in	Pressure psi	Wall in	Pressure psi
1/8	0.405	-	-	0.049	18150	0.068	25175	0.095	35175
1/4	0.540	-	-	0.065	18050	0.088	24450	0.119	33050
3/8	0.675	-	-	0.065	14450	0.091	20225	0.126	28000
1/2	0.840	0.065	11600	0.083	14825	0.109	19475	0.147	26250
3/4	1.050	0.065	9275	0.083	11850	0.113	16150	0.154	22000
1	1.315	0.065	7425	0.109	12450	0.133	15175	0.179	20425
1-1/4	1.660	0.065	5875	0.109	9850	0.140	12650	0.191	17250
1-1/2	1.900	0.065	5125	0.109	8600	0.145	11450	0.200	15800
2	2.375	0.065	4100	0.109	6875	0.154	9750	0.218	13775
2-1/2	2.875	0.083	4325	0.120	6250	0.203	10600	0.276	14400
3	3.500	0.083	3550	0.120	5150	0.216	9250		
3-1/2	4.000	0.083	3100	0.120	4500	0.226	8475		
4	4.500	0.083	2750	0.120	4000	0.237	7900		
5	5.563	0.109	2950	0.134	3625	0.258	6950		
6	6.625	0.109	2475	0.134	3050	0.280	6350		
8	8.625	0.109	1900	0.148	2575	0.322	5600		
10	10.750	0.134	1875	0.165	2300	0.365	5100		
12	12.750	0.156	1825	0.180	2125	0.375	4400		
14	14.000	0.156	1675	0.188	2025				
16	16.000	0.165	1550	0.188	1775				
18	18.000	0.165	1375	0.188	1575				
20	20.000	0.188	1400	0.218	1625				
24	24.000	0.218	1375	0.250	1550				
30	30.000	0.250	1250	0.312	1550				

Bursting Pressure calculated using Barlows' formula: $P = 2ST/D$

P = Theoretical internal bursting pressures

S = 75,000 psi fiber stress

T = Nominal wall

D = Nominal O.D.

Nominal IPS in	Wall Thickness																	
	0.016	0.020	0.028	0.035	0.049	0.065	0.083	0.095	0.109	0.120	0.134	0.156	0.188	0.250	0.313	0.375	0.500	0.750
1/16	38400	48000																
1/8	19200	24000	39000	42000	58800													
3/16	12800	15998	22403	29498	39203	51863												
1/4		12000	16800	21000	29400	39000	49800	57000										
5/16		9600	13440	16800	23520	31200	39780	45750										
3/8		8003	11998	14003	19598	26003	33203	38003	43598	48000								
7/16		6857	9600	12000	16800	22285	28457	32571	37371	41143								
1/2		6000	8400	10500	14700	19500	24900	28500	32700	36000								
9/16		5333	7467	9333	13067	17333	22133	25333	29066	32000								
5/8		4800	6720	8400	11760	15600	19920	22888	26160	28800	32160	37440	44880					
3/4		3998	5603	6998	9803	12997	16598	18998	21803	24000	26800	31200	37403					
7/8		3428	4800	6000	8400	11145	14228	16283	18683	20573	22971	26745	32055					
1		3000	4200	5250	7350	9750	12450	14250	16350	18000	20100	23400	28050	37500				
1-1/8		2663	3735	4665	6533	8670	11070	12668	14535	15998	17866	20798	24930	33330				
1-1/4		2400	3360	4200	5880	7800	9960	11400	13080	14400	16080	18720	22440	30000				
1-3/8			3053	3818	5348	7087	9053	10365	11888	13088	14618	17018	20400	27270				
1-1/2			2948	3503	4898	6503	8303	9503	10890	12000	13400	15600	18698	24998				
1-5/8				3230	4523	6000	7662	8769	10062	11077	12369	14400	17354	23077				
1-3/4				3000	4200	5573	7118	8145	9345	10283	11486	13373	16028	21428				
2				2625	3675	4875	6225	7125	8175	9000	10050	11700	14025	18750	23475	28125	37500	
2-1/4				2333	3270	4335	5535	6330	7268	8003	8933	10403	12465	16665	20865	24998	33330	
2-1/2				2100	2940	3900	4980	5700	6540	7200	8040	9360	11220	15000	18780	22500	30000	
2-3/4				1913	2670	3548	4530	5183	5948	6548	7309	8513	10200	13636	17070	20453	40913	
3				1748	2453	3248	4148	4748	5453	6000	6700	7800	9353	12503	15653	18750	24998	37500
3-1/4						3000	3833	4388	5033	5535	6185	7200	8633	11535	14445	17310	23078	34613
3-1/2						2783	3555	4073	4673	5145	5743	6683	8018	10718	13418	16073	21428	32146
3-3/4						2603	3323	3803	4358	4800	5360	6240	7478	9998	12518	15000	20003	30000
4						2438	3113	3563	4088	4500	5025	5850	7013	9375	11738	14063	18750	28125

PIPE
&
TUBE

Working pressures for 304 and 316 A269 tubing between -20° F and 100° F

The ASME code suggests a safety factor of four

Example: 1/4" O.D. x 0.035 = 5250 psi

For higher temperatures, multiply work pressure by

	300° F	500° F	1000° F
304	0.828	0.744	0.665
316	0.900	0.853	0.746





Valves

Ball Valves

- Sanitary Clamp End
- Tank Bottom
- Diverter
- 1-Piece
- 2-Piece
- 3-Piece
- Flanged

Instrumentation Valves

- 1-Piece Ball
- 3-Piece Ball
- Check
- Needle

Gate Valves

- Threaded
- Socket weld
- Flanged

Globe Valves

- Threaded
- Socket weld
- Flanged

Check Valves

- Sanitary Clamp End
- Threaded
- Socket weld
- Flanged

Butterfly

- Sanitary Clamp End

Series 58876

Stainless Ball Valve

- 800 lb. WOG, 150 lb. WSP
- 316 stainless steel body
- 1-piece design
- PTFE seats and seals
- Blow-out proof stem
- Locking device



Size in	Part Number	Weight lb
	Threaded	
1/4	SV58876002	0.1
3/8	SV58876003	0.2
1/2	SV58876004	0.4
3/4	SV58876006	0.6
1	SV58876010	1.0
1-1/4	SV58876012	1.4
1-1/2	SV58876014	1.9
2	SV58876020	2.9

Series 54576

316 Stainless Steel Ball Valve

- 2000 lb. WOG (1/4 - 1),
1500 lb. WOG (1-1/4 - 2),
150 lb. WSP*
- Standard port
- 2-piece design
- RTFE seats
- Locking device
- Blow-out proof stem
- ISO 5211 mounting pad



Size in	Part Number	Weight lb
	Threaded	
1/4	SV54576002	0.7
3/8	SV54576003	0.7
1/2	SV54576004	0.7
3/4	SV54576006	1.4
1	SV54576010	1.8
1-1/4	SV54576012	3.2
1-1/2	SV54576014	4.3
2	SV54576020	6.1

*Nova Seats for 250 PSI WSP also available.

Series 50M76

316 Stainless Ball Valve

- 1000 lb. WOG, 150 lb. WSP
- Full port
- 2-piece design
- RTFE seats
- Locking device
- Blow-out proof stem



Size in	Part Number	Weight lb
	Threaded	
1/4	SV50M76002	0.6
3/8	SV50M76003	0.5
1/2	SV50M76004	0.7
3/4	SV50M76006	1.1
1	SV50M76010	1.7
1-1/4	SV50M76012	2.6
1-1/2	SV50M76014	4.1
2	SV50M76020	6.8
2-1/2	SV50M76024	14.7
3	SV50M76030	22.4

Series 50B76

Stainless Steel Ball Valve, Seal Welded

- 2000 lb. WOG (1/4 - 2),
1500 lb. WOG (2-1/2 - 3),
150 lb. WSP*
- Full port
- 2-piece seal welded
- Locking device
- Blow-out proof stem



Size in	Part Number	Weight lb
	Threaded	
1/4	SV50B76002	0.6
3/8	SV50B76003	0.5
1/2	SV50B76004	0.7
3/4	SV50B76006	1.1
1	SV50B76010	1.8
1-1/4	SV50B76012	2.6
1-1/2	SV50B76014	4.2
2	SV50B76020	6.8
2-1/2	SV50B76024	15.2
3	SV50B76030	22.7

*Nova Seats for 250 PSI WSP also available.

Series 50C76

316 Stainless Steel Ball Valve, Seal Welded

- 3000 lb. WOG
- Full port
- 2-piece seal welded
- Anti-static device
- Locking device
- Blow-out proof stem

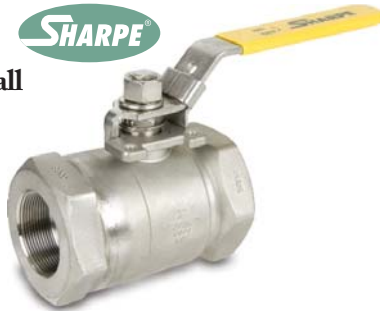


Size in	Part Number	Weight lb
	Threaded	
1/4	SV50C76002	0.9
3/8	SV50C76003	0.8
1/2	SV50C76004	1.0
3/4	SV50C76006	2.4
1	SV50C76010	3.5
1-1/4	SV50C76012	5.1
1-1/2	SV50C76014	8.5
2	SV50C76020	9.6
3	SV50C76030	36.7

Series 50F76

316 Stainless Steel Ball Valve, Seal Welded

- 6000 lb. WOG
- Full port
- 2-piece seal welded
- Anti-static device
- Locking device
- Blow-out proof stem



Size in	Part Number	Weight lb
	Threaded	
1/4	SV50F76002	1.2
3/8	SV50F76003	1.1
1/2	SV50F76004	1.5
3/4	SV50F76006	2.8
1	SV50F76010	4.9
1-1/4	SV50F76012	7.4
1-1/2	SV50F76014	12.1
2	SV50F76020	14.7

Series 39036

316 Stainless Steel Ball Valve, 3-piece design

- 1000 lb. WOG
- Full port
- Locking device
- Blow-out proof stem
- Variety of seats, seals and handles



Size in	Part Number		Weight lb
	Threaded	Socket Weld	
1/4	SV39036TE002	SV39036SW002	0.7
3/8	SV39036TE003	SV39036SW003	0.6
1/2	SV39036TE004	SV39036SW004	1.1
3/4	SV39036TE006	SV39036SW006	1.4
1	SV39036TE010	SV39036SW010	2.0
1-1/4	SV39036TE012	SV39036SW012	2.9
1-1/2	SV39036TE014	SV39036SW014	4.3
2	SV39036TE020	SV39036SW020	7.4
2-1/2	SV39036TE024	SV39036SW024	14.0
3	SV39036TE030	SV39036SW030	19.6
4	SV39036TE040	SV39036SW040	31.1

Series 53036

316 Stainless Steel Ball Valve, 3-piece design

- 1000 lb. WOG
- Full port
- RTFE seat
- Locking device
- Blow-out proof stem
- Actuator mounting pad
- Variety seats, seals and handles



Size in	Part Number		Weight lb
	Threaded	Socket Weld	
1/4	SV53036TE002	SV53036SW002	0.9
3/8	SV53036TE003	SV53036SW003	0.9
1/2	SV53036TE004	SV53036SW004	1.2
3/4	SV53036TE006	SV53036SW006	1.8
1	SV53036TE010	SV53036SW010	2.5
1-1/4	SV53036TE012	SV53036SW012	4.0
1-1/2	SV53036TE014	SV53036SW014	6.2
2	SV53036TE020	SV53036SW020	9.6

Series 54116

316 Stainless Steel Ball Valve, 1-piece

- 150 lb. flanged ends
- Standard port
- TFM seats 1/2 - 4
- RTFM seats 6 - 8
- Locking device
- Blow-out proof stem
- Variety of seats and seals available



Size in	Part Number	Weight lb
	Flanged	
1	SV54116M014	5.6
1-1/2	SV54116M014	12.2
2	SV54116M020	25.4
2-1/2	SV54116M024	0.00
3	SV54116M030	38.5
4	SV54116M040	53.5
6	SV54116M060	79.2
8	SV54116M080	189.2

Series 49116

316 Stainless Steel Flanged Ball Valve, 2-piece

- 150 lb. flanged ends
- Full port
- RTFE seats
- Locking device
- Blow-out proof stem



Size in	Part Number	Weight lb
	Flanged	
1/2	SV49116004	3.3
3/4	SV49116006	4.2
1	SV49116010	5.9
1-1/2	SV49116014	11.4
2	SV49116020	17.4
3	SV49116030	32.6
4	SV49116040	52.4
6	SV49116060	104.5

Series 50116

316 Stainless Steel Flanged Ball Valve, 2-Piece

- 150 lb. flanged ends
- Full port
- 316 stainless steel body and trim
- Locking device
- Blow-out proof stem



Size in	Part Number	Weight lb
	Flanged	
1/2	SV50116R004	3.7
3/4	SV50116R006	4.8
1	SV50116R010	6.8
1-1/2	SV50116R014	13.5
2	SV50116R020	19.6
2-1/2	SV50116R024	36.5
3	SV50116R030	44.2
4	SV50116R040	63.7

Series N66

316 Stainless Steel Sanitary Ball Valve

- Tube port
- 3-piece design
- High cycle steam
- Hygienic seating
- ISO 5211 mounting pad
- Locking device
- Encapsulated body seal



Size in	Part Number	Weight lb
	Clamp Ends	
1/2	SVN6666MTCE004	1.2
3/4	SVN6666MTCE006	2.0
1	SVN6666MTCE010	3.0
1-1/2	SVN6666MTCE014	6.0
2	SVN6666MTCE020	9.2
2-1/2	SVN6666MTCE024	12.1
3	SVN6666MTCE030	16.2
4	SVN6666MTCE040	18.9

Series 66

316 Stainless Steel

Sanitary Tube Port

- 3-piece design
- Encapsulated body bolts
- High cycle steam packing
- Hygienic seating design
- Integrated ISO mounting
- Locking device
- Blow-out proof stem
- Cavity-filled seats available



Size in	Part Number	Weight lb
	Clamp Ends	
1/2	SV6666MTCE004	1.5
3/4	SV6666MTCE006	2.3
1	SV6666MTCE010	3.6
1-1/2	SV6666MTCE014	6.9
2	SV6666MTCE020	9.7
2-1/2	SV6666MTCE024	12.8
3	SV6666MTCE030	16.8
4	SV6666MTCE040	19.6

Series S76BVH

316 Stainless Steel

Instrumentation Ball Valve

- 1000 psi @ 200° F
- PTFE seats
- Double ferrule instrumentation tube ends



Tube OD in	Part Number	Weight lb
	Instrumentation	
1/4	S76BVH002	0.4
3/8	S76BVH003	0.4
1/2	S76BVH004	0.7
3/4	S76BVH006	1.0
1	S76BVH010	1.6

Series S76BVH3

316 Stainless Steel

Instrumentation Ball Valve

- 3000 psi @ 200° F
- PTFE seats
- Double ferrule instrumentation tube ends



Tube OD in	Part Number	Weight lb
	Instrumentation	
1/4	S76BVH3002	0.6
3/8	S76BVH3003	0.7
1/2	S76BVH3004	0.8
3/4	S76BVH3006	1.6
1	S76BVH3010	2.5

Series S76BVH6

316 Stainless Steel

Instrumentation Ball Valve

- 6000 psi @ 200° F
- PTFE seats
- Double ferrule instrumentation tube ends



Tube OD in	Part Number	Weight lb
	Instrumentation	
1/4	S76BVH6002	0.4
3/8	S76BVH6003	0.4
1/2	S76BVH6004	0.7
3/4	S76BVH6006	1.0
1	S76BVH6010	1.6

Series S7166NV

316 Stainless Steel

Needle Valve

- 6000 lb. WOG
- PTFE seats
- Straight pattern
- NPT threaded ends
- 0°F to 650°F



Size in	Part Number	Weight lb
	Threaded	
1/4	S7166NV002	1.0
3/8	S7166NV003	1.1
1/2	S7166NV004	1.6
3/4	S7166NV006	1.9
1	S7166NV010	3.1

Series S7066YS

316 Stainless Steel

Threaded Wye Strainer

- 800 lb. WOG
- PTFE seats
- 20 mesh 316 SS screen
- Blow-down plug



Size in	Part Number	Weight lb
	Threaded	
1/2	S7066YS004	0.5
3/4	S7066YS006	0.8
1	S7066YS010	1.6
1-1/4	S7066YS012	2.0
1-1/2	S7066YS014	2.7
2	S7066YS020	4.3

Series S76PCV3

316 Stainless Steel

Instrumentation

Check Valve

- 3000 psi @ 200° F
- Cracking Pressure 7 psi
- PTFE seats
- Double ferrule instrumentation tube ends



Tube OD in	Part Number	Weight lb
	Instrumentation	
1/4	S76PCV3002	0.3
3/8	S76PCV3003	0.3
1/2	S76PCV3004	0.5
3/4	S76PCV3006	0.6
1	S76PCV3010	1.5

Series S7745MP6

316 Stainless Steel

Clamp End Check Valve

- 150 psi @ ambient
- All wetted parts approved for use in food processing
- All wetted parts polished to 180 grit



Tube OD in	Part Number	Weight lb
	Instrumentation	
1-1/2	S7745MP6014	2.6
2	S7745MP6020	3.1
3	S7745MP6030	5.2
4	S7745MP6040	10.4



Series 30276

316 Stainless Steel Gate Valve

- 200 lb. WOG @ 350°F
- Inside screw
- Non-rising stem
- Screwed bonnet
- Solid wedge disc

Size in	Part Number		Weight lb
	Threaded	Socket Weld	
1/2	SV30276TE004	SV30276SW004	0.9
3/4	SV30276TE006	SV30276SW006	1.2
1	SV30276TE010	SV30276SW010	1.6
1-1/4	SV30276TE012	SV30276SW012	2.6
1-1/2	SV30276TE014	SV30276SW014	3.7
2	SV30276TE020	SV30276SW020	5.2



Series 34836

Forged 316L Stainless Steel Gate Valve

- OS&Y
- Class 800
- A182 / 316L stainless steel body
- Bolted bonnet

Size in	Part Number		Weight lb
	Threaded	Socket Weld	
1/2	SV34836TE004	SV34836SW004	4.9
3/4	SV34836TE006	SV34836SW006	5.3
1	SV34836TE010	SV34836SW010	9.3
1-1/4	SV34836TE012	SV34836SW012	12.5
1-1/2	SV34836TE014	SV34836SW014	15.5
2	SV34836TE020	SV34836SW020	24.0



Series 35116

316L Stainless Steel 150 lb.

Flanged Gate Valve

- Full port
- Outside screw and yoke
- Bolted bonnet
- Flexible wedge, fully guided
- Integrated seats
- Rising stem and non-rising hand-wheel

Size in	Part Number	Weight lb
1/2	SV35116004	7.5
3/4	SV35116006	7.9
1	SV35116010	10.6
1-1/2	SV35116014	18.2
2	SV35116020	25.0
2-1/2	SV35116024	34.7
3	SV35116030	48.3
4	SV35116040	76.4
5	SV35116050	104.7
6	SV35116060	118.9
8	SV35116080	197.3
10	SV35116100	313.1
12	SV35116120	465.1
14	SV35116140	858.0



Series 35316

316L Stainless Steel 300 lb.

Flanged Gate Valve

- Full port
- Outside screw and yoke
- Bolted bonnet
- Flexible wedge, fully guided
- Integrated seats
- Rising stem and non-rising hand-wheel

Size in	Part Number	Weight lb
1/2	SV35316004	11.8
3/4	SV35316006	13.8
1	SV35316010	15.4
1-1/2	SV35316014	35.0
2	SV35316020	45.8
2-1/2	SV35316024	55.8
3	SV35316030	84.8
4	SV35316040	142.0
6	SV35316060	253.0
8	SV35316080	376.2
10	SV35316100	651.2
12	SV35316120	891.0

*600 lb. Flanged End Valve Available Upon Request



Series 40276 316 Stainless Steel Globe Valve

- 200 lb. WOG @ 350°F
- Inside screw
- Non-rising stem
- Screwed bonnet



Size in	Part Number		Weight lb
	Threaded	Socket Weld	
1/2	SV40276TE004	SV40276SW004	1.0
3/4	SV40276TE006	SV40276SW006	1.5
1	SV40276TE010	SV40276SW010	1.9
1-1/4	SV40276TE012	SV40276SW012	3.1
1-1/2	SV40276TE014	SV40276SW014	3.9
2	SV40276TE020	SV40276SW020	5.5



Series 44836 Forged 316L Stainless Steel Globe Valve

- Class 800
- A182 / 316L forged stainless steel body and bonnet
- Bolted bonnet



Size in	Part Number		Weight lb
	Threaded	Socket Weld	
1/2	SV44836TE004	SV44836SW004	5.0
3/4	SV44836TE006	SV44836SW006	5.2
1	SV44836TE010	SV44836SW010	9.5
1-1/4	SV44836TE012	SV44836SW012	12.7
1-1/2	SV44836TE014	SV44836SW014	17.2
2	SV44836TE020	SV44836SW020	27.5



Series 45116 316 Stainless Steel 150 lb. Flanged Globe Valve

- Bolted bonnet
- Outside screw and yoke
- Yoke integrated with bonnet
- Stem/wedge connection meets the API 600 Pull Test
- Rising stem and hand-wheel
- Available with gear operator



Size in	Part Number	Weight lb
1/2	SV45116004	6.9
3/4	SV45116006	8.2
1	SV45116010	9.6
1-1/4	SV45116012	13.9
1-1/2	SV45116014	16.3
2	SV45116020	23.3
2-1/2	SV45116024	33.5
3	SV45116030	45.7
4	SV45116040	68.2
5	SV45116050	140.1
6	SV45116060	136.8
8	SV45116080	217.6
10	SV45116100	413.6
12	SV45116120	1049.4

*300 lb. & 600 lb. Flanged End Valves Available Upon Request



Series 20276 316 Stainless Steel Swing Check Valve

- 200 lb. WOG @ 350°F
- 316 stainless steel
- Screwed cap



Size in	Part Number		Weight lb
	Threaded	Socket Weld	
1/4	SV20276TE002	SV20276SW002	0.8
3/8	SV20276TE003	SV20276SW003	0.8
1/2	SV20276TE004	SV20276SW004	0.7
3/4	SV20276TE006	SV20276SW006	1.1
1	SV20276TE010	SV20276SW010	1.7
1-1/4	SV20276TE012	SV20276SW012	2.4
1-1/2	SV20276TE014	SV20276SW014	3.3
2	SV20276TE020	SV20276SW020	5.0
2-1/2	SV20276TE024	SV20276SW024	9.1
3	SV20276TE030	SV20276SW030	13.2



Series 24836 316L Stainless Steel Piston Check Valve

- Class 800
- A182 / 316L forged stainless steel body
- Bolted cover



Size in	Part Number		Weight lb
	Threaded	Socket Weld	
1/2	SV24836TE004	SV24836SW004	3.3
3/4	SV24836TE006	SV24836SW006	3.7
1	SV24836TE010	SV24836SW010	7.3
1-1/4	SV24836TE012	SV24836SW012	9.2
1-1/2	SV24836TE014	SV24836SW014	9.2
2	SV24836TE020	SV24836SW020	13.1



Series 25116 316 Stainless Steel 150 lb. Flanged Check Valve

- Bolted cover
- Swing type
- Integrated seats
- Renewable seat rings
- For horizontal or vertical lines



Size in	Part Number	Weight lb
1/2	SV25116004	3.5
3/4	SV25116006	4.7
1	SV25116010	6.0
1-1/4	SV25116012	7.2
1-1/2	SV25116014	10.3
2	SV25116020	17.2
2-1/2	SV25116024	25.5
3	SV25116030	32.2
4	SV25116040	62.4
5	SV25116050	82.60
6	SV25116060	103.5
8	SV25116080	167.2
10	SV25116100	295.5
12	SV25116120	429.9



Series 25316 316 Stainless Steel 300 lb. Flanged Check Valve

- Bolted cover
- Swing type
- Integrated seats
- Renewable seat rings
- For horizontal or vertical lines



Size in	Part Number	Weight lb
1/2	SV25316004	5.7
3/4	SV25316006	7.8
1	SV25316010	12.1
1-1/2	SV25316014	21.1
2	SV25316020	31.5
2-1/2	SV25316024	44.7
3	SV25316030	55.4
4	SV25316040	100.8
6	SV25316060	177.5

*600 lb. Flanged Ends Available Upon Request

Series 15

Stainless Sanitary Butterfly Valve



- Tube port
- 304 or 316 stainless steel
- Clamp ends
- 150 psi @ 200° F
- Precision milled body
- Sharpe logo, material grade, size, heat number and country of origin engraved on each valve body
- Disc fully machined and polished
- Hygienic seating design
- Automation available upon request
- Optional: pull handle 4 position, blue 12 position handle, stainless steel 12 position handle

SV154 E CC 2 1 020

Valve Material	
SV154	304 Stainless Steel
SV156	316 Stainless Steel *

Seat Material	
E	EPDM
N	BUNA-N
V	Viton *

Shaft Material	
CC	Tri-Clamp
BB	Buttweld *
EE	Extendable Buttweld *
MM	Male Threaded *
CB	Clamp x Buttweld *

Surface Finish	
1	20 RA *
2	25 RA
3	15 RA *
4	20 RA Electro Polish *

Operator	
1	Blue 12 Position Lever Handle
2	2 Position Handle
3	12 Position Stainless Steel Lever Handle
4	4 Position Pull Handle
5	Bare Stem
6	Gear Operator

Size in	
010	1
014	1-1/2
020	2
024	2-1/2
030	3
040	4

VALVES



*Denotes Special Order - Lead Times Will Vary Call For More Information

WARRANTY AND LIMITATIONS OF LIABILITY

As used herein, "Supplier" shall mean SMITH-COOPER INTERNATIONAL, INC. or any of its affiliates (for clarity, as used herein, Supplier shall only refer to such entity which actually sold the product being warranted to the initial purchaser). Supplier warrants to its initial purchaser only, that the products which are delivered to this initial purchaser will be of the kind described in the order or price list and will be delivered free of defects in workmanship or material.

Should any failure to conform to this warranty be discovered within the Warranty Period (defined below) and written notice of such nonconformity is provided to Supplier promptly after such discovery and within the Warranty Period, upon return of the defective product to Supplier in accordance with the Supplier's instructions and the reasonable determination by Supplier that the product (a) does not conform to the warranty and (b) has been stored, installed, used, maintained and operated in accordance with recognized engineering and piping practices, industry standards and the installation and operating manuals supplied by Supplier, Supplier will correct such defects by suitable repair or replacement of the product at Supplier's own expense or refund the portion of the price applicable to the nonconforming portion of the product (which alternative shall be at the sole discretion of Supplier). If any portion of the product so repaired or replaced fails to conform to the foregoing warranty, and written notice of such nonconformity is provided to Supplier promptly after discovery and within the original Warranty Period applicable to such product or 30 days from completion of such repair or replacement, whichever is later, Supplier will repair or replace such nonconforming product. The original Warranty Period shall not otherwise be extended.

The "Warranty Period" shall mean a period of five years from the date of delivery to its initial purchaser; provided however, with respect to Sharpe® Valves products, the "Warranty Period" shall mean a period that is the shorter of (i) twenty-four (24) months from the date of delivery to its initial purchaser or (ii) twelve (12) months after installation. In the event that Supplier elects to replace or repair the defective product, Supplier shall pay up to \$50 per defective product for total cost of installation, in addition to repairing or replacing such product in accordance with the terms contained herein. In the event of multiple claims, such payment shall be no greater than \$1,000 for each installation project. Except as set forth in the foregoing sentence, Supplier shall not be responsible for the cost of providing working access to the nonconforming products, including disassembly and re-assembly of non-Supplier supplied equipment, or for transportation to or from any repair facility, all of which shall be at the initial purchaser's risk and expense.

This warranty applies only during normal, intended and proper use that meets the above referenced conditions of storage, installation, usage, maintenance and operation and is absolutely void if the product has been damaged after purchase, or if it has been repaired (except if such repair was expressly authorized by Supplier and performed by Supplier), misused, altered or modified in any manner whatsoever. Without limiting the generality of the foregoing, this warranty is void if any portion of the product, including without limitation, any component, gasket, housing or bolt, has been misused, modified, altered, repaired (except if such repair was expressly authorized by Supplier and performed by Supplier), remanufactured or replaced (except if such replacement was expressly authorized by Supplier) in any manner by the initial purchaser, customer, user of the product or third party. COOPLOK™ Grooved products must be used with Smith Cooper International (SCI) branded bolts, gaskets and housings for this warranty to be valid. Rubber gaskets for Smith Cooper International (SCI) Grooved products must be stored or installed in an environment which preserves their elasticity for full functionality for the warranty to be valid. Supplier does not warrant or cover damages arising from a disaster such as a fire, flood, wind, earthquake, or lightning. The warranty set forth herein also does not cover normal and customary wear and tear. The limitations contained herein on the validity of the warranty shall govern not only the express warranty made by the Supplier herein, but also any other warranty which, contrary to the terms herein, is deemed or implied by law to be in effect. Products supplied by Supplier but manufactured by others are warranted only to the extent of the manufacturer's warranty, and only the remedies, if any, provided by the manufacturer will be allowed.

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