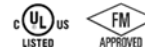


## THREADED FITTINGS

**Shurjoint** offers a complete range of ductile iron Class 300 threaded fittings in sizes from ½” to 2½”. **Shurjoint** ductile iron threaded fittings are 100% air tested underwater to ensure leak-free performance. The **Shurjoint** ductile iron fitting series is UL listed and FM approved, making them the right choice for fire protection and other general application services.

Ductile Iron Class 300 threaded fittings are designed to the same dimensions as that of Class 150 malleable iron fittings. Though due to the superior strength characteristics, ductile iron fittings carry a much higher pressure rating. Laboratory tests confirm **Shurjoint** ductile iron fittings have passed hydrostatic test pressures exceeding 6,000 psi / 414 Bar, which is equal to four times the 1,500 psi /103 Bar as specified by ANSI B16.3 for 1¼” – 2” sizes.



For Fire Protection pressure rating, listing, and approval information, refer to Data Sheet B-42 or visit **SHURJOINT** website, [www.shurjoint.com](http://www.shurjoint.com) for details or contact your **SHURJOINT** Representative.

### Pressure-Temperature Rating (ANSI B16.3 & B16.14)

Nom. Rating	Working Pressure (W.O.G.) @150°F / @65°C	Working Pressure Saturated Steam
Class 300	½” – 1” : 2000 psi / 140 Bar 1¼” – 2” : 1500 psi / 105 Bar 2½” : 1000 psi / 70 Bar	300 psi (20 Bar)

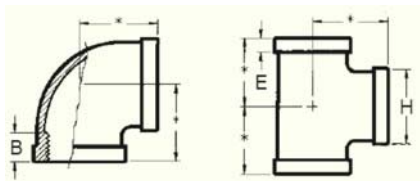
\*Proof test pressure: 1.5 times the working pressure, non-shock cold water.



Full warranty terms can be found on [www.shurjoint.com](http://www.shurjoint.com)

### General Dimensions

These dimensions apply to all standard fittings, both straight and reducing. For center-to-face dimensions(\*), see fitting tables.



Pipe Size	H Band O.D.	E Band Width	B Thread Length (min)
in mm	in mm	in mm	in mm
½ 15	1.02 26	0.25 6	0.43 11
¾ 20	1.46 37	0.27 7	0.5 13
1 25	1.77 45	0.3 8	0.58 15
1¼ 32	2.15 55	0.34 9	0.67 17
1½ 40	2.43 62	0.37 9	0.7 18
2 50	2.96 75	0.42 11	0.75 19
2½ 65	3.59 91	0.48 12	0.92 23



Installers who have not used DI threaded fittings before should be instructed that the fittings are stronger than the pipe in most cases. In general DI threaded fittings require about a one-half turn less than cast iron fittings. Refer to the installation instructions for further detail.

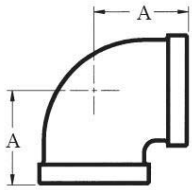
**Material:** Ductile iron ASTM A536 Gr. 65-45-12 and or ASTM A395 Gr. 65-45-15.

**Dimensions:** ANSI B16.3 Class 150 except bushings and plugs (B16.14), unions (B16.39) and companion flanges (B16.42). Please note wall thickness dimensions are subordinate to **Shurjoint** UL and FM pressure rating listings and approvals

**Threads:** ANSI B1.20.1 NPT or ISO 7 (BSPT)

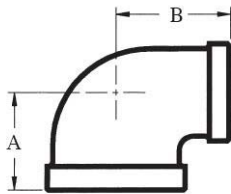
**Finish:** Black or electro-zinc plated

**MODEL 811 ELBOW 90°**



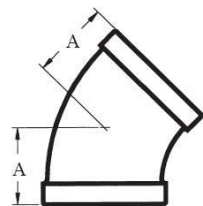
Model 811 Elbow 90°				
Size	Pipe O.D.	A	Weight	Box Q'ty
in	in	in	Lbs	Pcs
mm	mm	mm	Kgs	
½	0.840	1.12	0.25	240
15	21.3	28	0.1	
¾	1.050	1.31	0.35	120
20	26.7	33	0.2	
1	1.315	1.50	0.57	70
25	33.4	38	0.3	
1¼	1.660	1.75	0.97	40
32	42.2	44	0.4	
1½	1.900	1.94	1.17	30
40	48.3	49	0.5	
2	2.375	2.25	1.83	20
50	60.3	57	0.8	
2½	2.875	2.70	3.34	10
65	73.0	69	1.5	

**MODEL 812 REDUCING ELBOW 90°**



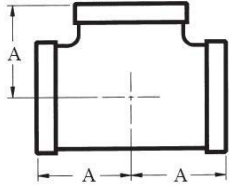
Model 812 Reducing Elbow 90°					
Size	Pipe O.D.	A	B	Weight	Box Q'ty
in	in	in	in	Lbs	Pcs
mm	mm	mm	mm	Kgs	
¾ x ½	1.050 x 0.840	1.20	1.22	0.35	160
20 x 15	26.7 x 21.3	30	31	0.2	
1 x ½	1.315 x 0.840	1.26	1.36	0.46	110
25 x 15	33.4 x 21.3	32	35	0.2	
1 x ¾	1.315 x 1.050	1.18	1.45	0.57	90
25 x 20	33.4 x 26.7	30	37	0.3	
1¼ x ½	1.660 x 0.840	1.34	1.53	0.64	75
32 x 15	42.2 x 21.3	34	39	0.3	
1¼ x ¾	1.660 x 1.050	1.45	1.62	0.68	60
32 x 20	42.2 x 26.7	37	41	0.3	
1¼ x 1	1.660 x 1.315	1.58	1.67	0.81	55
32 x 25	42.2 x 33.4	40	42	0.4	
1½ x ½	1.900 x 0.840	1.41	1.66	0.84	45
40 x 15	48.3 x 21.3	36	42	0.4	
1½ x ¾	1.900 x 1.050	1.52	1.75	0.90	45
40 x 20	48.3 x 26.7	39	44	0.4	
1½ x 1	1.900 x 1.315	1.65	1.80	0.95	40
40 x 25	48.3 x 33.4	42	46	0.4	
1½ x 1¼	1.900 x 1.660	1.82	1.88	1.10	35
40 x 32	48.3 x 42.2	46	48	0.5	
2 x ¾	2.375 x 1.050	1.60	1.97	1.19	30
50 x 20	60.3 x 26.7	41	50	0.5	
2 x 1	2.375 x 1.315	1.73	2.02	1.47	25
50 x 25	60.3 x 33.4	44	51	0.7	
2 x 1½	2.375 x 1.900	2.02	2.16	1.61	20
50 x 40	60.3 x 48.3	51	55	0.7	
2½ x 2	2.875 x 2.375	2.39	2.60	2.93	15
65 x 50	73.0 x 60.3	61	66	1.3	

**MODEL 813 ELBOW 45°**



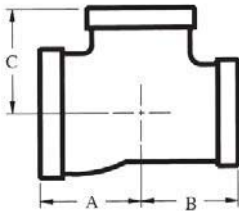
Model 813 Elbow 45°				
Size	Pipe O.D.	A	Weight	Box Q'ty
in	in	in	Lbs	Pcs
mm	mm	mm	Kgs	
½	0.840	0.88	0.22	250
15	21.3	22	0.1	
¾	1.050	0.98	0.33	150
20	26.7	25	0.1	
1	1.315	1.12	0.55	90
25	33.4	28	0.2	
1¼	1.660	1.29	0.84	50
32	42.2	33	0.4	
1½	1.900	1.43	0.92	35
40	48.3	36	0.4	
2	2.375	1.68	1.63	18
50	60.3	43	0.7	
2½	2.875	1.95	2.42	12
65	73.0	50	1.1	

**MODEL 814 TEE**



Model 814 Tee				
Size	Pipe O.D.	A	Weight	Box Q'ty
in	in	in	Lbs	Pcs
mm	mm	mm	Kgs	
½	0.840	1.12	0.31	150
15	21.3	28	0.1	
¾	1.050	1.31	0.48	90
20	26.7	33	0.2	
1	1.315	1.50	0.81	60
25	33.4	38	0.4	
1¼	1.660	1.75	1.28	35
32	42.2	44	0.6	
1½	1.900	1.94	1.72	24
40	48.3	49	0.8	
2	2.375	2.25	2.57	12
50	60.3	57	1.2	
2½	2.875	2.70	4.44	8
65	73.0	69	2.0	

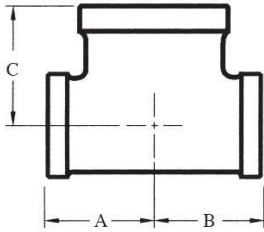
**MODEL 815 REDUCING TEE**



Model 815 Reducing Tee							
Size	A	B	C	Weight	Box Q'ty		
in	in	in	in	Lbs	Pcs		
mm	mm	mm	mm	Kgs			
1 25	½	1.44	1.31	1.69	0.92	40	
		15	37	33	43	0.4	
		¾	1.50	1.37	1.75	1.01	40
		20	38	35	44	0.5	
		1	1.65	1.50	1.80	1.19	30
		25	42	38	46	0.5	
	1¼	1.82	1.67	1.88	1.54	30	
		32	46	42	48	0.7	
		1½	1.94	1.80	1.94	1.54	30
		40	49	46	49	0.7	
		½	1.41	1.34	1.66	1.08	40
		15	36	34	42	0.5	
1½	1.52	1.45	1.75	1.14	40		
	20	39	37	44	0.5		
	1	1.65	1.58	1.80	1.39	30	
	25	42	40	46	0.6		
	½	1.41	1.41	1.66	1.10	35	
	15	36	36	42	0.5		
2	1.52	1.52	1.75	1.17	35		
	20	39	39	44	0.5		
	1	1.65	1.65	1.80	1.36	30	
	25	42	42	46	0.6		
	1¼	1.82	1.82	1.88	1.56	30	
	32	46	46	48	0.7		
2 50	1	2.25	2.02	2.25	2.13	15	
		25	50	51	57	1.0	
		1¼	2	2.25	2.10	2.22	15
		50	57	53	57	1.0	
		1½	1.49	1.41	1.88	1.52	30
			15	38	36	48	0.7
	¾		1.60	1.52	1.97	1.47	25
	20		41	39	50	0.7	
	1		1.73	1.65	2.02	1.63	20
	25		44	42	51	0.7	
	2	1.73	1.94	2.16	2.09	20	
		40	51	49	55	0.9	
2		2.25	2.16	2.25	2.33	15	
50		57	55	57	1.1		
1½		1.49	1.49	1.88	1.56	20	
		15	38	38	48	0.7	
	¾	1.60	1.60	1.97	1.61	20	
	20	41	41	50	0.7		
	1	1.73	1.73	2.02	1.80	20	
	25	44	44	51	0.8		
2 50	1.90	1.90	2.10	2.09	20		
	32	48	48	53	0.9		
	1½	2.02	2.02	2.16	2.24	15	
	40	51	51	55	1.0		
	2½	2	¾	1.60	2.32	15	
	65	50	20	44	41	59	1.1

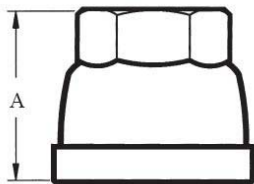
Model 815 Reducing Tee								
Size	A	B	C	Weight	Box Q'ty			
in	in	in	in	Lbs	Pcs			
mm	mm	mm	mm	Kgs				
¾	¾	½	1.20	1.20	1.22	0.46	95	
20	20	15	30	30	31	0.2		
1 25	½	1	1.50	1.36	1.50	0.71	55	
		15	25	38	35	38	0.3	
		¾	1.26	1.20	1.36	0.59	80	
			15	32	30	35	0.3	
		1	1.37	1.31	1.45	0.66	65	
			20	35	33	37	0.3	
	1	1.50	1.45	1.50	0.77	55		
		25	38	37	38	0.3		
		½	1.26	1.26	1.36	0.64	65	
			15	32	32	35	0.3	
		¾	1.37	1.37	1.45	0.75	60	
			20	35	35	37	0.3	
1¼ 32	1	1.34	1.26	1.53	0.79	50		
		15	34	32	39	0.4		
		¾	1.45	1.37	1.62	0.88	50	
			20	37	35	41	0.4	
		1	1.58	1.50	1.67	1.01	45	
			25	40	38	42	0.2	
	1¼	1.75	1.67	1.75	1.25	40		
		32	44	42	44	0.6		
		½	1.34	1.34	1.53	0.84	45	
			15	34	34	39	0.4	
		¾	1.45	1.45	1.62	0.99	45	
			20	37	37	41	0.4	
1	1.58	1.58	1.67	1.12	40			
25	40	40	42	0.5				

**MODEL 815 BULLHEAD TEE**



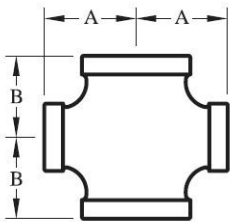
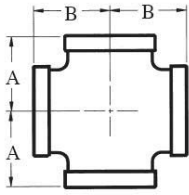
Model 815 Bullhead Tee							
Size			A	B	C	Weight	Box Q'ty
in			in	in	in	Lbs	Pcs
mm			mm	mm	mm	Kgs	
3/4	3/4	1	1.45	1.45	1.37	0.66	65
	20	25	37	37	35	0.3	
1	1	1 1/4	1.67	1.67	1.58	0.97	45
		32	42	42	40	0.4	
	25	1 1/2	1.81	1.81	1.65	1.15	35
		40	46	46	42	0.5	
1 1/4	1	1 1/2	1.88	1.81	1.82	1.43	30
		40	48	46	46	0.6	
	32	1 1/2	1.88	1.88	1.82	1.52	30
		40	48	48	46	0.7	
		2	2.10	2.10	1.90	1.80	24
		50	53	53	48	0.8	
1 1/2	1 1/4	2	2.16	2.10	2.02	1.94	20
	32	50	55	53	51	0.9	
	40	1 1/2	2	2.16	2.16	2.02	2.00
		50	55	55	51	0.9	
2	2	2 1/2	2.60	2.60	2.39	3.61	10
	50	65	66	66	61	1.6	

**MODEL 816 REDUCING COUPLING**



Model 816 Reducing Coupling					
Size	Pipe O.D.	A	Wrench Size	Weight	Box Q'ty
in	in	in	in	Lbs	Pcs
mm	mm	mm	mm	Kgs	
3/4 x 1/2	1.050 x 0.840	1.63	1 1/4	0.37	150
	26.7 x 21.3	41	32	0.2	
1 x 1/2	1.315 x 0.840	1.69	1 1/4	0.37	140
	33.4 x 21.3	43	32	0.2	
1 x 3/4	1.315 x 1.050	1.37	1 1/2	0.48	120
	33.4 x 26.7	35	38	0.2	
1 1/4 x 3/4	1.660 x 1.050	2.06	1 1/2	0.59	80
	42.2 x 26.7	52	38	0.3	
1 1/4 x 1	1.660 x 1.315	2.06	-	0.66	60
	42.2 x 33.4	52	-	0.3	
1 1/2 x 1	1.900 x 1.315	2.31	-	0.84	50
	48.3 x 33.4	59	-	0.4	
1 1/2 x 1 1/4	1.900 x 1.660	2.31	-	0.92	45
	48.3 x 42.2	59	-	0.4	
2 x 1	2.375 x 1.315	2.81	-	1.23	35
	60.3 x 33.4	71	-	0.6	
2 x 1 1/4	2.375 x 1.660	2.81	-	1.28	30
	60.3 x 42.2	71	-	0.6	
2 x 1 1/2	2.375 x 1.900	2.81	-	1.66	30
	60.3 x 48.3	71	-	0.8	
2 1/2 x 2	2.875 x 2.375	3.25	-	2.24	18
	73.0 x 60.3	83	-	1.0	

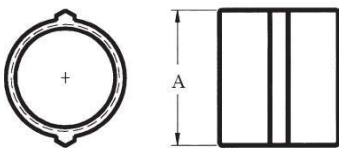
**MODEL 817 CROSS**



Model 817 Cross					
Size	Pipe	A	B	Weight	Box Q'ty
in	in	in	in	Lbs	Pcs
mm	mm	mm	mm	Kgs	
1/2	0.840	1.12	1.12	0.48	90
15	21.3	28	28	0.2	
3/4	1.050	1.31	1.31	0.77	60
20	26.7	33	33	0.3	
1	1.315	1.50	1.50	0.95	45
25	33.4	38	38	0.4	
1 1/4	1.660	1.75	1.75	1.43	25
32	42.2	44	44	0.6	
1 1/2	1.900	1.94	1.94	1.87	20
40	48.3	49	49	0.8	
2	2.375	2.25	2.25	2.86	10
50	60.3	57	57	1.3	

Model 817 Reducing Cross					
Size	A	B	Weight	Box Q'ty	
in	in	in	Lbs	Pcs	
mm	mm	mm	Kgs		
1 1/4 x 1 1/4 x 1 x 1	1.67	1.58	1.25	30	
32 x 32 x 25 x 25	42	40	0.6		
1 1/2 x 1 1/2 x 1 x 1	1.80	1.65	1.47	24	
40 x 40 x 25 x 25	46	42	0.7		
2 x 2 x 1 x 1	2.02	1.73	1.94	16	
50 x 50 x 25 x 25	51	44	0.9		

**MODEL 818 STRAIGHT COUPLING**



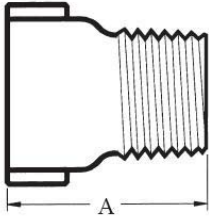
Model 818 Straight Coupling					
Size	Pipe O.D.	A	Wrench Size	Weight	Box Q'ty
in	in	in	in	Lbs	Pcs
mm	mm	mm	mm	Kgs	
1/2	0.840	1.38	1 1/8	0.18	360
15	21.3	35	29	0.1	
3/4	1.050	1.61	1 3/8	0.26	200
20	26.7	41	35	0.2	
1	1.315	1.77	1 11/16	0.42	110
25	33.4	45	43	0.2	
1 1/4	1.660	2.00	2	0.57	75
32	42.2	51	51	0.3	
1 1/2	1.900	2.20	2 1/4	0.77	60
40	48.3	56	57	0.3	
2	2.375	2.60	2 3/4	1.17	30
50	60.3	66	70	0.5	
2 1/2	2.875	3.00	3 3/8	2.11	18
65	73.0	76	86	1.0	

**MODEL 820 CAP**



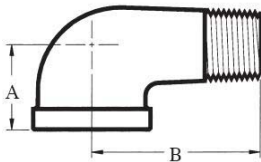
Model 820 Cap				
Size	Pipe O.D.	A	Weight	Box Q'ty
in	in	in	Lbs	Pcs
mm	mm	mm	Kgs	
1/2	0.840	0.89	0.14	500
15	21.3	23	0.1	
3/4	1.050	1.00	0.20	300
20	26.7	25	0.1	
1	1.315	1.18	0.33	180
25	33.4	30	0.1	
1 1/4	1.660	1.32	0.46	110
32	42.2	34	0.2	
1 1/2	1.900	1.38	0.57	80
40	48.3	35	0.3	
2	2.375	1.48	0.88	45
50	60.3	38	0.4	
2 1/2	2.875	1.77	1.54	25
65	73.0	45	0.7	

**MODEL 825 EXTENSION PIECE**



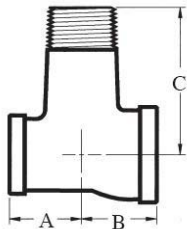
Model 825 Extension Piece				
Size	Pipe O.D.	A	Weight	Box Q'ty
in	in	in	Lbs	Pcs
mm	mm	mm	Kgs	
½ x 1½L 15 x 40L	0.840 x 1.900 21.3 x 48.3	1.50 38	0.18 0.1	300
½ x 2L 15 x 50L	1.900 x 2.375 21.3 x 60.3	2.00 51	0.22 0.1	250
¾ x 1½L 20 x 40L	1.050 x 1.900 26.7 x 48.3	1.50 38	0.22 0.1	250
¾ x 2L 20 x 50L	1.050 x 2.375 26.7 x 60.3	2.00 51	0.26 0.1	200

**MODEL 831 LONG STREET ELBOW 90°**



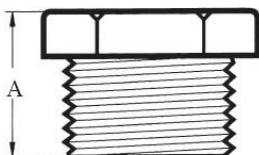
Model 831 Long Street Elbow 90°					
Size	Pipe O.D.	A	B	Weight	Box Q'ty
in	in	in	in	Lbs	Pcs
mm	mm	mm	mm	Kgs	
1 x ½M 25 x 15M	1.315 x 0.840 33.4 x 21.3	1.50 38	3.00 76	0.66 0.3	80
1 x 1M 25 x 25M	1.315 x 1.315 33.4 x 33.4	1.50 38	3.00 76	0.81 0.4	60

**MODEL 832 LONG STREET TEE**



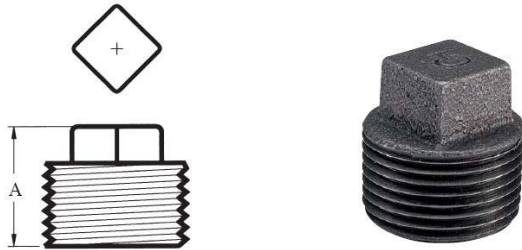
Model 832 Long Street Tee					
Size	A	B	C	Weight	Box Q'ty
in	in	in	in	Lbs	Pcs
mm	mm	mm	mm	Kgs	
1 x ½ x 1M 25 x 15 x 25M	1.50 38	1.40 36	3.00 76	0.91 0.4	50
1 x 1 x 1M 25 x 25 x 25M	1.50 38	1.50 38	3.00 76	1.03 0.5	45

**MODEL 827 HEX BUSHING**



Model 827 Hex Bushing				
Size	Pipe O.D.	A	Weight	Box Q'ty
in	in	in	Lbs	Pcs
mm	mm	mm	Kgs	
1 x ½ 25 x 15	1.315 x 0.840 33.4 x 21.3	1.06 27	0.20 0.1	280
1 x ¾ 25 x 20	1.315 x 1.050 33.4 x 26.7	1.06 27	0.18 0.1	280
1¼ x 1 32 x 25	1.660 x 1.315 42.2 x 33.4	1.18 30	0.29 0.1	150
1½ x 1 40 x 25	1.900 x 1.315 48.3 x 21.3	1.26 32	0.53 0.2	100
1½ x 1¼ 40 x 32	1.900 x 1.660 48.3 x 42.2	1.26 32	0.37 0.2	100
2 x 1 50 x 25	2.375 x 1.315 60.3 x 33.4	1.34 34	0.75 0.3	80
2 x 1¼ 50 x 32	2.375 x 1.660 60.3 x 42.2	1.34 34	0.75 0.3	80
2 x 1½ 50 x 40	2.375 x 1.900 60.3 x 48.3	1.34 34	0.64 0.3	80

**MODEL 819 PLUG**



Model 819 Plug				
Size	Pipe O.D.	A	Weight	Box Q'ty
in	in	in	Lbs	Pcs
mm	mm	mm	Kgs	
½	0.840	0.93	0.09	500
15	21.3	24	0.0	
¾	1.050	1.13	0.18	300
20	26.7	29	0.1	
1	1.315	1.25	0.25	200
25	33.4	32	0.1	
1¼	1.660	1.36	0.42	110
32	42.2	35	0.2	
1½	1.900	1.45	0.59	80
40	48.3	37	0.3	
2	2.375	1.50	0.95	45
50	60.3	38	0.4	

General Notes:

- **Pressure Ratings** for fittings conform to the working pressure of the coupling used to join the system.
- **Listed and or Approved Pressures** are pressure ratings for fire protection systems, tested and approved by various approval bodies. Please always refer to the latest approval data posted on the **Shurjoint** website.
- **Field Joint Test:** For one time only the system may be tested hydrostatically at 1½ times the maximum working pressure listed (AWWA C606 5.2.3).
- **Warning:** Piping systems must always be depressurized and drained before attempting disassembly and or removal of any components.
- **The 10 Year Limited Warranty** applies to manufacturing defects only and does not cover severe service/temperature applications or wear parts.
- **Shurjoint** reserves the right to change specifications, designs and or standard without notice and without incurring any obligations.

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