

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.

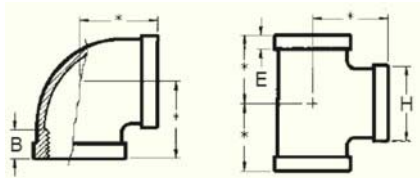
Pressure-Temperature Rating (ANSI B16.3 & B16.14)

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.

General Dimensions

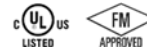
These dimensions apply to all standard fittings, both straight and reducing. For center-to-face dimensions(*), see fitting tables.



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.



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



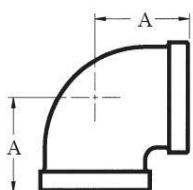
Full warranty terms can be found on www.shurjoint.com

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

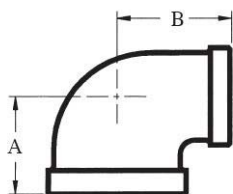
Dimensions: ANSI B16.3 Class 150 except bushings and plugs (B16.14), unions (B16.39) and companion flanges (B16.42). Please note wall thickness dimensions are subordinate to **Shurjoint** UL and FM pressure rating listings and approvals

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

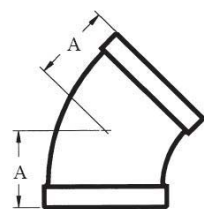
Finish: Black or electro-zinc plated

MODEL 811 ELBOW 90°


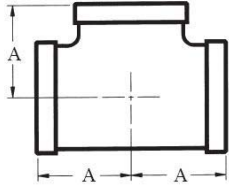
Model 811 Elbow 90°				
Size	Pipe O.D.	A	Weight	Box Q'ty
in mm	in mm	in mm	Lbs Kgs	Pcs
½ 15	0.840 21.3	1.12 28	0.25 0.1	240
¾ 20	1.050 26.7	1.31 33	0.35 0.2	120
1 25	1.315 33.4	1.50 38	0.57 0.3	70
1¼ 32	1.660 42.2	1.75 44	0.97 0.4	40
1½ 40	1.900 48.3	1.94 49	1.17 0.5	30
2 50	2.375 60.3	2.25 57	1.83 0.8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

MODEL 812 REDUCING ELBOW 90°


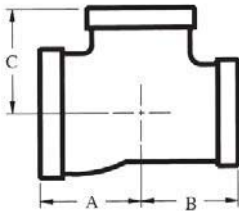
Model 812 Reducing Elbow 90°					
Size	Pipe O.D.	A	B	Weight	Box Q'ty
in mm	in mm	in mm	in mm	Lbs Kgs	Pcs
¾ x ½ 20 x 15	1.050 x 0.840 26.7 x 21.3	1.20 30	1.22 31	0.35 0.2	160
1 x ½ 25 x 15	1.315 x 0.840 33.4 x 21.3	1.26 32	1.36 35	0.46 0.2	110
1 x ¾ 25 x 20	1.315 x 1.050 33.4 x 26.7	1.18 30	1.45 37	0.57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

MODEL 813 ELBOW 45°


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

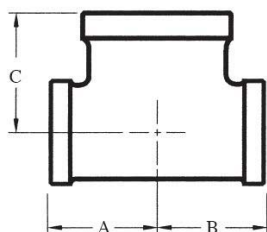
MODEL 814 TEE


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

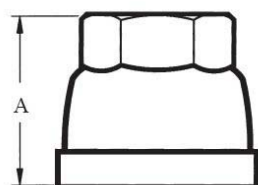
MODEL 815 REDUCING TEE


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

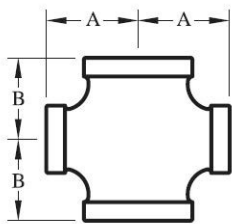
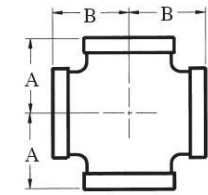
Model 815 Reducing Tee						
Size		A	B	C	Weight	Box Q'ty
in mm		in mm	in mm	in mm	Lbs Kgs	Pcs
1½ 40	1 25	½ 15	1.44 37	1.31 33	1.69 43	0.92 0.4
		¾ 20	1.50 38	1.37 35	1.75 44	1.01 0.5
		1 25	1.65 42	1.50 38	1.80 46	1.19 0.5
		1¼ 32	1.82 46	1.67 42	1.88 48	1.54 0.7
		1½ 40	1.94 49	1.80 46	1.94 49	1.54 0.7
		2 50	2.25 57	2.02 51	2.25 57	2.13 1.0
	1¼ 32	½ 15	1.41 36	1.34 34	1.66 42	1.08 0.5
		¾ 20	1.52 39	1.45 37	1.75 44	1.14 0.5
		1 25	1.65 42	1.58 40	1.80 46	1.39 0.6
		1¼ 32	1.82 46	1.67 42	1.88 48	1.54 0.7
		1½ 40	1.94 49	1.80 46	1.94 49	1.54 0.7
		2 50	2.25 57	2.02 51	2.25 57	2.13 1.0
2 50	1½ 40	½ 15	1.49 38	1.41 36	1.88 48	1.52 0.7
		¾ 20	1.60 41	1.52 39	1.97 50	1.47 0.7
		1 25	1.73 44	1.65 42	2.02 51	1.63 0.7
		1¼ 32	1.90 48	1.80 46	2.10 53	2.09 0.9
		1½ 40	2.02 51	1.94 49	2.16 55	2.09 0.9
		2 50	2.25 57	2.16 55	2.25 57	2.33 1.1
	2 50	½ 15	1.49 38	1.49 38	1.88 48	1.56 0.7
		¾ 20	1.60 41	1.60 41	1.97 50	1.61 0.7
		1 25	1.73 44	1.73 44	2.02 51	1.80 0.8
		1¼ 32	1.90 48	1.90 48	2.10 53	2.09 0.9
		1½ 40	2.02 51	2.02 51	2.16 55	2.24 1.0
		2 50	2.25 57	2.16 55	2.25 57	2.33 1.1
2½ 65	2 50	¾ 20	1.74 44	1.60 41	2.32 59	2.35 1.1

MODEL 815 BULLHEAD TEE


Model 815 Bullhead Tee						
Size			A	B	C	Weight
in			in	in	in	Lbs
mm			mm	mm	mm	Kgs
¾	¾	1	1.45	1.45	1.37	0.66
20	20	25	37	37	35	0.3
1	1	1¼	1.67	1.67	1.58	0.97
		32	42	42	40	0.4
		1½	1.81	1.81	1.65	1.15
1¼	1	40	46	46	42	0.5
		25	1.88	1.81	1.82	1.43
	1¼	40	48	46	46	0.6
		32	1.88	1.88	1.82	1.52
		40	2.10	2.10	1.90	1.80
1½	1¼	50	53	53	48	0.8
		2	2.16	2.10	2.02	1.94
	1½	32	55	53	51	0.9
		40	2.16	2.16	2.02	2.00
2	2	2½	2.60	2.60	2.39	3.61
50	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	
¾ x ½	1.050 x 0.840	1.63	1¼	0.37	150
20 x 15	26.7 x 21.3	41	32	0.2	
1 x ½	1.315 x 0.840	1.69	1¼	0.37	140
25 x 15	33.4 x 21.3	43	32	0.2	
1 x ¾	1.315 x 1.050	1.37	1½	0.48	120
25 x 20	33.4 x 26.7	35	38	0.2	
1¼ x ¾	1.660 x 1.050	2.06	1½	0.59	80
32 x 20	42.2 x 26.7	52	38	0.3	
1¼ x 1	1.660 x 1.315	2.06	-	0.66	60
32 x 25	42.2 x 33.4	52	-	0.3	
1½ x 1	1.900 x 1.315	2.31	-	0.84	50
40 x 25	48.3 x 33.4	59	-	0.4	
1½ x 1¼	1.900 x 1.660	2.31	-	0.92	45
40 x 32	48.3 x 42.2	59	-	0.4	
2 x 1	2.375 x 1.315	2.81	-	1.23	35
50 x 25	60.3 x 33.4	71	-	0.6	
2 x 1¼	2.375 x 1.660	2.81	-	1.28	30
50 x 32	60.3 x 42.2	71	-	0.6	
2 x 1½	2.375 x 1.900	2.81	-	1.66	30
50 x 40	60.3 x 48.3	71	-	0.8	
2½ x 2	2.875 x 2.375	3.25	-	2.24	18
65 x 50	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	
½	0.840	1.12	1.12	0.48	90
15	21.3	28	28	0.2	
¾	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	
1¼	1.660	1.75	1.75	1.43	25
32	42.2	44	44	0.6	
1½	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	

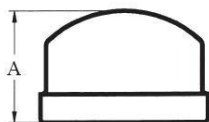
Model 817 Reducing Cross

Size	A	B	Weight	Box Q'ty
in	in	in	Lbs	Pcs
mm	mm	mm	Kgs	
1¼ x 1¼ x 1 x 1	1.67	1.58	1.25	30
32 x 32 x 25 x 25	42	40	0.6	
1½ x 1½ 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	

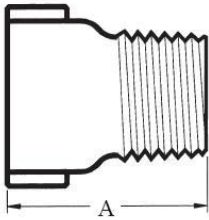
MODEL 818 STRAIGHT COUPLING

Model 818 Straight Coupling

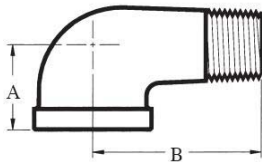
Size	Pipe O.D.	A	Wrench Size	Weight	Box Q'ty
in	in	in	in	Lbs	Pcs
mm	mm	mm	mm	Kgs	
½	0.840	1.38	1½	0.18	360
15	21.3	35	29	0.1	
¾	1.050	1.61	1¾	0.26	200
20	26.7	41	35	0.2	
1	1.315	1.77	1⅞	0.42	110
25	33.4	45	43	0.2	
1¼	1.660	2.00	2	0.57	75
32	42.2	51	51	0.3	
1½	1.900	2.20	2¼	0.77	60
40	48.3	56	57	0.3	
2	2.375	2.60	2¾	1.17	30
50	60.3	66	70	0.5	
2½	2.875	3.00	3¾	2.11	18
65	73.0	76	86	1.0	

MODEL 820 CAP

Model 820 Cap

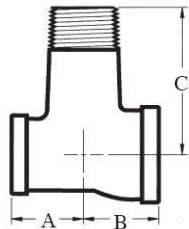
Size	Pipe O.D.	A	Weight	Box Q'ty
in	in	in	Lbs	Pcs
mm	mm	mm	Kgs	
½	0.840	0.89	0.14	500
15	21.3	23	0.1	
¾	1.050	1.00	0.20	300
20	26.7	25	0.1	
1	1.315	1.18	0.33	180
25	33.4	30	0.1	
1¼	1.660	1.32	0.46	110
32	42.2	34	0.2	
1½	1.900	1.38	0.57	80
40	48.3	35	0.3	
2	2.375	1.48	0.88	45
50	60.3	38	0.4	
2½	2.875	1.77	1.54	25
65	73.0	45	0.7	

MODEL 825 EXTENSION PIECE

Model 825 Extension Piece

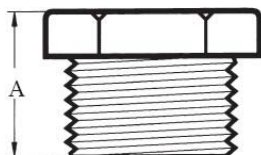
Size	Pipe O.D.	A	Weight	Box Q'ty
in	in	in	Lbs	Pcs
mm	mm	mm	Kgs	
1/2 x 1 1/2L 15 x 40L	0.840 x 1.900 21.3 x 48.3	1.50 38	0.18 0.1	300
1/2 x 2L 15 x 50L	1.900 x 2.375 21.3 x 60.3	2.00 51	0.22 0.1	250
3/4 x 1 1/2L 20 x 40L	1.050 x 1.900 26.7 x 48.3	1.50 38	0.22 0.1	250
3/4 x 2L 20 x 50L	1.050 x 2.375 26.7 x 60.3	2.00 51	0.26 0.1	200

MODEL 831 LONG STREET ELBOW 90°

Model 831 Long Street Elbow 90°

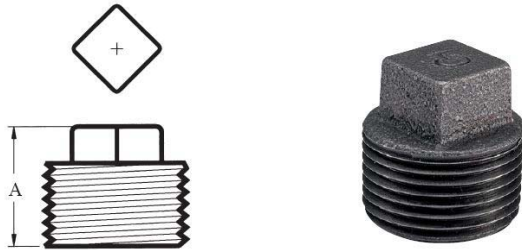
Size	Pipe O.D.	A	B	Weight	Box Q'ty
in	in	in	in	Lbs	Pcs
mm	mm	mm	mm	Kgs	
1 x 1/2M 25 x 15M	1.315 x 0.840 33.4 x 21.3	1.50 38	3.00 76	0.66 0.3	80
1 x 1M 25 x 25M	1.315 x 1.315 33.4 x 33.4	1.50 38	3.00 76	0.81 0.4	60

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 1/2 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 1/2 25 x 15	1.315 x 0.840 33.4 x 21.3	1.06 27	0.20 0.1	280
1 x 3/4 25 x 20	1.315 x 1.050 33.4 x 26.7	1.06 27	0.18 0.1	280
1 1/4 x 1 32 x 25	1.660 x 1.315 42.2 x 33.4	1.18 30	0.29 0.1	150
1 1/2 x 1 40 x 25	1.900 x 1.315 48.3 x 21.3	1.26 32	0.53 0.2	100
1 1/2 x 1 1/4 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 1 1/4 50 x 32	2.375 x 1.660 60.3 x 42.2	1.34 34	0.75 0.3	80
2 x 1 1/2 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.