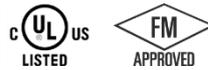


THREADED FITTINGS



For pressure rating, listing, and approval information, refer to data sheet or visit SHURJOINT website www.shurjoint.com for details or contact your SHURJOINT representatives.

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.

material specification

- **Body:**
Ductile Iron to ASTM A536, Gr. 65-45-12, min. tensile strength 65,000 psi (448 MPa).
- **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.

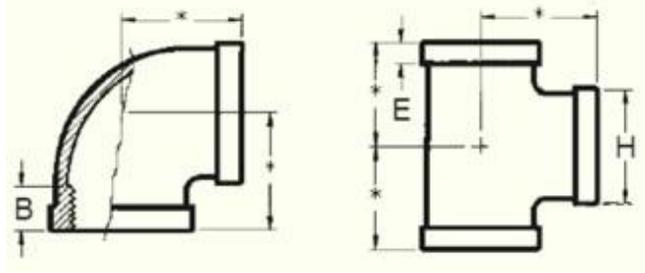
Pressure-Temperature Rating (ANSI B16.3 & B16.14)

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.

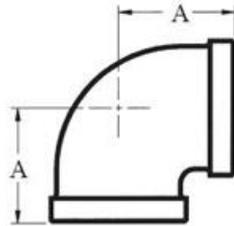


Pipe Size	H Band O.D.	E Band Width	B Thread Length (min)
in	in	in	in
mm	mm	mm	mm
½	1.02	0.25	0.43
15	26	6	11
¾	1.46	0.27	0.5
20	37	7	13
1	1.77	0.3	0.58
25	45	8	15
1¼	2.15	0.34	0.67
32	55	9	17
1½	2.43	0.37	0.7
40	62	9	18
2	2.96	0.42	0.75
50	75	11	19
2½	3.59	0.48	0.92
65	91	12	23



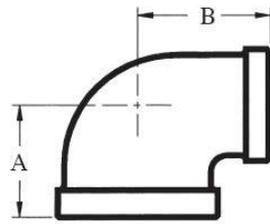
Installers who have not used DI threaded fittings before should be instructed that the fittings are stronger than the pipe in most cases. In general DI threaded fittings require about a one-half turn less than cast iron fittings. Refer to the installation instructions for further detail.

MODEL 811 90° ELBOW



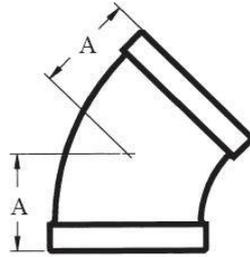
Model 811 90° Elbow				
Size	Pipe O.D.	A	Weight	Box Qty
in	in	in	lbs	Pcs
mm	mm	mm	kg	
½	0.840	1.12	0.25	240
15	21.3	28	0.1	
¾	1.050	1.31	0.35	120
20	26.7	33	0.2	
1	1.315	1.50	0.57	70
25	33.4	38	0.3	
1¼	1.660	1.75	0.97	40
32	42.2	44	0.4	
1½	1.900	1.94	1.17	30
40	48.3	49	0.5	
2	2.375	2.25	1.83	20
50	60.3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

MODEL 812 90° REDUCING ELBOW



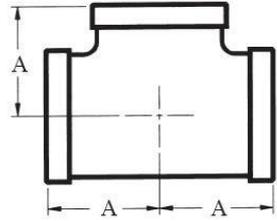
Model 812 90° Reducing Elbow						
Size	Pipe O.D.	A	B	Weight	Box Qty	
in	in	in	in	lbs	Pcs	
mm	mm	mm	mm	kg		
¾ x ½	1.050 x 0.840	1.20	1.22	0.35	160	
20 x 15	26.7 x 21.3	30	31	0.2		
1 x ½	1.315 x 0.840	1.26	1.36	0.46	110	
25 x 15	33.4 x 21.3	32	35	0.2		
1 x ¾	1.315 x 1.050	1.18	1.45	0.57	90	
25 x 20	33.4 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 45° ELBOW



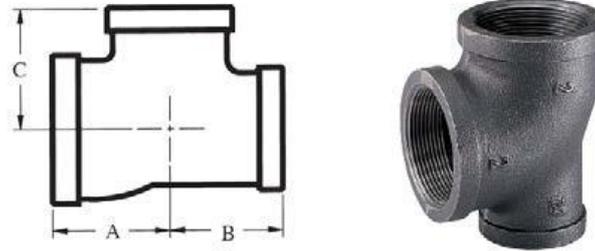
Model 813 45° Elbow				
Size	Pipe O.D.	A	Weight	Box Qty
in	in	in	lbs	Pcs
mm	mm	mm	kg	
½	0.840	0.88	0.22	250
15	21.3	22	0.1	
¾	1.050	0.98	0.33	150
20	26.7	25	0.1	
1	1.315	1.12	0.55	90
25	33.4	28	0.2	
1¼	1.660	1.29	0.84	50
32	42.2	33	0.4	
1½	1.900	1.43	0.92	35
40	48.3	36	0.4	
2	2.375	1.68	1.63	18
50	60.3	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 Qty
in	in	in	lbs	Pcs
mm	mm	mm	kg	
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



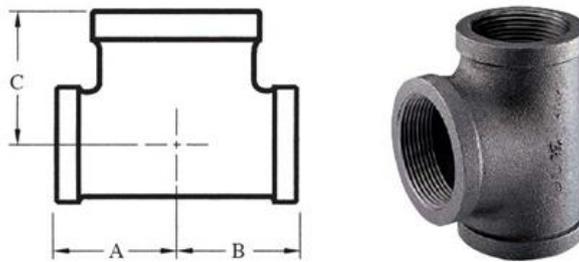
Model 815 Reducing Tee							
Size	A	B	C	Weight	Box Qty		
in	in	in	in	lbs		Pcs	
mm	mm	mm	mm	kg			
3/4	3/4	1/2	1.20	1.20	1.22	0.46	95
20	20	15	30	30	31	0.2	
	1/2	1	1.50	1.36	1.50	0.71	55
	15	25	38	35	38	0.3	
		1/2	1.26	1.20	1.36	0.59	80
		15	32	30	35	0.3	
	3/4	3/4	1.37	1.31	1.45	0.66	65
1	20	20	35	33	37	0.3	
25		1	1.50	1.45	1.50	0.77	55
		25	38	37	38	0.3	
		1/2	1.26	1.26	1.36	0.64	65
	1	15	32	32	35	0.3	
	25	3/4	1.37	1.37	1.45	0.75	60
		20	35	35	37	0.3	
		1/2	1.34	1.26	1.53	0.79	50
		15	34	32	39	0.4	
		3/4	1.45	1.37	1.62	0.88	50
	1	20	37	35	41	0.4	
	25	1	1.58	1.50	1.67	1.01	45
		25	40	38	42	0.2	
1 1/4		1 1/4	1.75	1.67	1.75	1.25	40
32		32	44	42	44	0.6	
		1/2	1.34	1.34	1.53	0.84	45
		15	34	34	39	0.4	
	1 1/4	3/4	1.45	1.45	1.62	0.99	45
	32	20	37	37	41	0.4	
		1	1.58	1.58	1.67	1.12	40
		25	40	40	42	0.5	
		1/2	1.44	1.31	1.69	0.92	40
1 1/2	1	15	37	33	43	0.4	
40	25	3/4	1.50	1.37	1.75	1.01	40
		20	38	35	44	0.5	

Model 815 Reducing Tee							
Size		A	B	C	Weight	Box Qty	
in		in	in	in	lbs	Pcs	
mm		mm	mm	mm	kg		
1/2 40	1	1.65	1.50	1.80	1.19	30	
	25	42	38	46	0.5		
	1/4	1.82	1.67	1.88	1.54	30	
	25	32	46	42	48	0.7	
	1/2	1.94	1.80	1.94	1.54	30	
	40	49	46	49	0.7		
	1/2	1.41	1.34	1.66	1.08	40	
	15	36	34	42	0.5		
	1/4	3/4	1.52	1.45	1.75	1.14	40
	32	20	39	37	44	0.5	
	1	1.65	1.58	1.80	1.39	30	
	25	42	40	46	0.6		
1 50	1/2	1.41	1.41	1.66	1.10	35	
	15	36	36	42	0.5		
	3/4	1.52	1.52	1.75	1.17	35	
	1/2	20	39	39	44	0.5	
	40	1	1.65	1.65	1.80	1.36	30
	25	42	42	46	0.6		
	1/4	1.82	1.82	1.88	1.56	30	
	32	46	46	48	0.7		
	1	2	2.25	2.02	2.25	2.13	15
	25	50	57	51	57	1.0	
	1/4	2	2.25	2.10	2.25	2.22	15
	32	50	57	53	57	1.0	
1 1/2 50	1/2	1.49	1.41	1.88	1.52	30	
	15	38	36	48	0.7		
	3/4	1.60	1.52	1.97	1.47	25	
	20	41	39	50	0.7		
	1/2	1	1.73	1.65	2.02	1.63	20
	40	25	44	42	51	0.7	
	1/2	2.02	1.94	2.16	2.09	20	
	40	40	51	49	55	0.9	
	2	2.25	2.16	2.25	2.33	15	
	50	50	57	55	57	1.1	
	1/2	1.49	1.49	1.88	1.56	20	
	15	38	38	48	0.7		
2 50	3/4	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			

Model 815 Reducing Tee

Size		A	B	C	Weight	Box Qty
in		in	in	in	lbs	Pcs
mm		mm	mm	mm	kg	
	1½	1.90	1.90	2.10	2.09	20
2	2	32	48	53	0.9	
50	50	1½	2.02	2.16	2.24	15
	40	51	51	55	1.0	
2½	2	¾	1.74	1.60	2.35	15
65	50	20	44	41	59	1.1

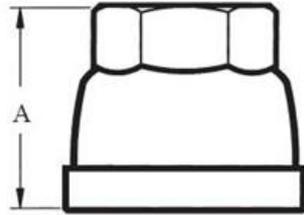
MODEL 815 BULLHEAD TEE



Model 815 Bullhead Tee

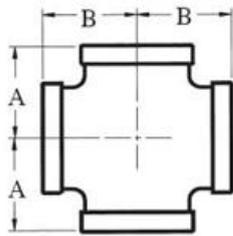
Size		A	B	C	Weight	Box Qty	
in		in	in	in	lbs	Pcs	
mm		mm	mm	mm	kg		
¾	¾	1	1.45	1.37	0.66	65	
20	20	25	37	35	0.3		
	1½	1.67	1.67	1.58	0.97	45	
1	1	32	42	40	0.4		
25	25	1½	1.81	1.65	1.15	35	
	40	46	46	42	0.5		
	1	1½	1.88	1.81	1.43	30	
	25	40	48	46	0.6		
1¼		1½	1.88	1.88	1.52	30	
32	1¼	40	48	46	0.7		
	32	2	2.10	2.10	1.80	24	
	50	53	53	48	0.8		
	1¼	2	2.16	2.10	2.02	1.94	20
1½	32	50	55	53	0.9		
40	1½	2	2.16	2.16	2.02	2.00	20
	40	50	55	51	0.9		
2	2	2½	2.60	2.60	2.39	3.61	10
50	50	65	66	66	61	1.6	

MODEL 816 REDUCING COUPLING

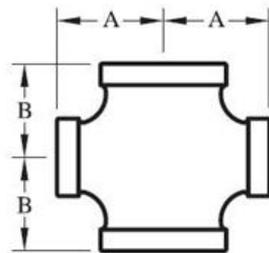


Model 816 Reducing Coupling						
Size	Pipe O.D.	A	Wrench Size	Weight	Box Qty	
in	in	in	in	lbs	Pcs	
mm	mm	mm	mm	kg		
¾ x ½	1.050 x 0.840	1.63	1¼	0.37	150	
20 x 15	26.7 x 21.3	41	32	0.2		
1 x ½	1.315 x 0.840	1.69	1¼	0.37	140	
25 x 15	33.4 x 21.3	43	32	0.2		
1 x ¾	1.315 x 1.050	1.37	1½	0.48	120	
25 x 20	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

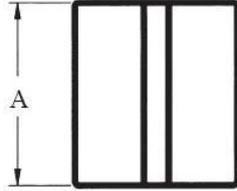
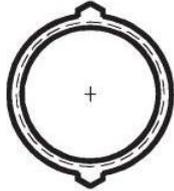


Model 817 Cross						
Size	Pipe O.D.	A	B	Weight	Box Qty	
in	in	in	in	lbs	Pcs	
mm	mm	mm	mm	kg		
½	0.840	1.12	1.12	0.48	90	
15	21.3	28	28	0.2		
¾	1.050	1.31	1.31	0.77	60	
20	26.7	33	33	0.3		
1	1.315	1.50	1.50	0.95	45	
25	33.4	38	38	0.4		
1¼	1.660	1.75	1.75	1.43	25	
32	42.2	44	44	0.6		
1½	1.900	1.94	1.94	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		



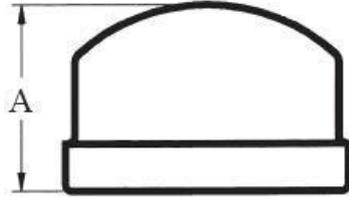
Model 817 Reducing Cross					
Size	A	B	Weight	Box Qty	
in	in	in	lbs	Pcs	
mm	mm	mm	kg		
1¼ x 1¼ x 1 x 1	1.67	1.58	1.25	30	
32 x 32 x 25 x 25	42	40	0.6		
1½ x 1½ x 1 x 1	1.80	1.65	1.47	24	
40 x 40 x 25 x 25	46	42	0.7		
2 x 2 x 1 x 1	2.02	1.73	1.94	16	
50 x 50 x 25 x 25	51	44	0.9		

MODEL 818 STRAIGHT COUPLING



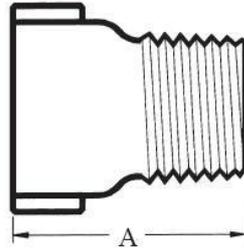
Model 818 Straight Coupling						
Size	Pipe O.D.	A	Wrench Size	Weight	Box Qty	
in	in	in	in	lbs	Pcs	
mm	mm	mm	mm	kg		
½	0.840	1.38	1⅛	0.18	360	
15	21.3	35	29	0.1	200	
¾	1.050	1.61	1⅜	0.26	110	
20	26.7	41	35	0.2	75	
1	1.315	1.77	1⅞	0.42	60	
25	33.4	45	43	0.2	30	
1¼	1.660	2.00	2	0.57	18	
32	42.2	51	51	0.3		
1½	1.900	2.20	2¼	0.77		
40	48.3	56	57	0.3		
2	2.375	2.60	2¾	1.17		
50	60.3	66	70	0.5		
2½	2.875	3.00	3⅜	2.11		
65	73.0	76	86	1.0		

MODEL 820 CAP



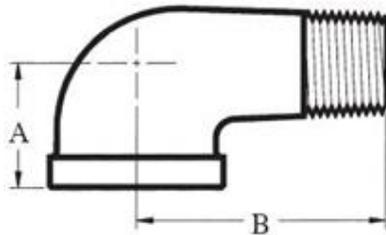
Model 820 Cap				
Size	Pipe O.D.	A	Weight	Box Qty
in	in	in	lbs	Pcs
mm	mm	mm	kg	
½	0.840	0.89	0.14	500
15	21.3	23	0.1	
¾	1.050	1.00	0.20	300
20	26.7	25	0.1	
1	1.315	1.18	0.33	180
25	33.4	30	0.1	
1¼	1.660	1.32	0.46	110
32	42.2	34	0.2	
1½	1.900	1.38	0.57	80
40	48.3	35	0.3	
2	2.375	1.48	0.88	45
50	60.3	38	0.4	
2½	2.875	1.77	1.54	25
65	73.0	45	0.7	

MODEL 825 EXTENSION PIECE



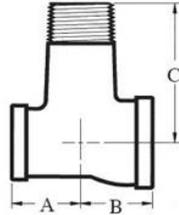
Model 825 Extension Piece					
Size	Pipe O.D.	A	Weight	Box Qty	
in	in	in	lbs	Pcs	
mm	mm	mm	kg		
½ x 1½L	0.840 x 1.900	1.50	0.18	300	
15 x 40L	21.3 x 48.3	38	0.1		
½ x 2L	1.900 x 2.375	2.00	0.22	250	
15 x 50L	21.3 x 60.3	51	0.1		
¾ x 1½L	1.050 x 1.900	1.50	0.22	250	
20 x 40L	26.7 x 48.3	38	0.1		
¾ x 2L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

MODEL 831 LONG STREET ELBOW 90°



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

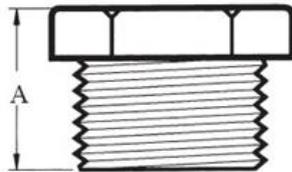
MODEL 832 LONG STREET TEE



Model 832 Long Street Tee

Size	A	B	C	Weight	Box Qty
in	in	in	in	lbs	Pcs
mm	mm	mm	mm	kg	
1 x 1/2 x 1M	1.50	1.40	3.00	0.91	50
25 x 15 x 25M	38	36	76	0.4	
1 x 1 x 1M	1.50	1.50	3.00	1.03	45
25 x 25 x 25M	38	38	76	0.5	

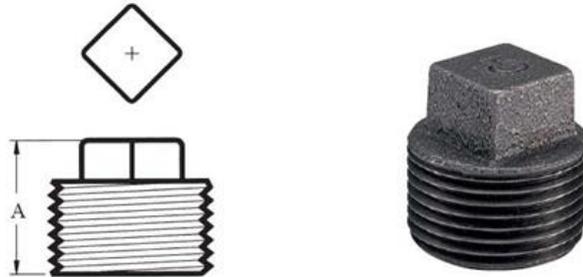
MODEL 827 HEX BUSHING



Model 827 Hex Bushing

Size	Pipe O.D.	A	Weight	Box Qty
in	in	in	lbs	Pcs
mm	mm	mm	kg	
1 x 1/2	1.315 x 0.840	1.06	0.20	280
25 x 15	33.4 x 21.3	27	0.1	
1 x 3/4	1.315 x 1.050	1.06	0.18	280
25 x 20	33.4 x 26.7	27	0.1	
1 1/4 x 1	1.660 x 1.315	1.18	0.29	150
32 x 25	42.2 x 33.4	30	0.1	
1 1/2 x 1	1.900 x 1.315	1.26	0.53	100
40 x 25	48.3 x 21.3	32	0.2	
1 1/2 x 1 1/4	1.900 x 1.660	1.26	0.37	100
40 x 32	48.3 x 42.2	32	0.2	
2 x 1	2.375 x 1.315	1.34	0.75	80
50 x 25	60.3 x 33.4	34	0.3	
2 x 1 1/4	2.375 x 1.660	1.34	0.75	80
50 x 32	60.3 x 42.2	34	0.3	
2 x 1 1/2	2.375 x 1.900	1.34	0.64	80
50 x 40	60.3 x 48.3	34	0.3	

MODEL 819 PLUG



Model 819 Plug				
Size	Pipe O.D.	A	Weight	Box Qty
in	in	in	lbs	Pcs
mm	mm	mm	kg	
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 note

- 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.