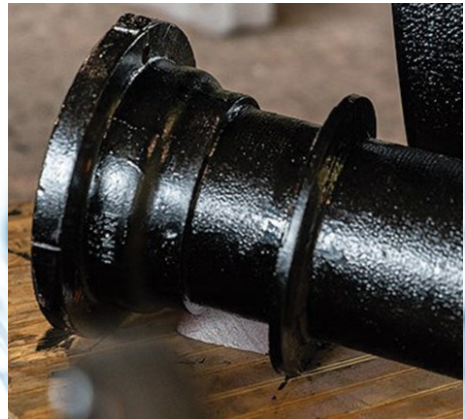


FABRICATED WALL PIPE & THRUST COLLARS



PIPE

FABRICATION

RESTRAINED JOINTS

FITTINGS

GASKETS

COATINGS & LININGS

US PIPE
FABRICATION
A QUIKRETE® COMPANY

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With 10 locations, U.S. Pipe Fabrication is the largest North American fabricator of Ductile Iron Pipe. We offer the widest array of sizes and configurations available in the industry, and we are the leading supplier of specialty lined and coated products. With inventory available to quickly meet emergency demand, we offer sizes 3" – 64" with cement, Protecto 401, or glass linings (other options available upon request). Exterior coatings include standard asphaltic (bituminous), TNEMEC primers and epoxies, as well as other specialty coatings as requested by engineers and/or end users.



OVERVIEW

WALL PIPE & THRUST COLLARS

U.S. Pipe Fabrication can meet all of your wall pipe configurations needs. Currently no ANSI/ AWWA standards exist for wall pipe. Fabricated wall pipe use steel components in combination with the following:

Cast or Thread-On MJ bells (can be tapped for studs),
Flanges (can be tapped for studs), and
Welded-on Wall or Thrust Collars.

All collars are attached by continuous welding. The standard wall collar is welded on one side and not designed for thrust loading. Wall collars can be supplied welded on both sides at an additional charge. Thrust collars are welded on both sides and rated as listed in the brochure. If a higher thrust collar rating is needed contact your local sales representative for special pricing.

ANSI/AWWA STANDARDS

ANSI/AWWA C151/A21.5, Ductile-Iron Pipe, Centrifugally Cast for Water.

Ductile Iron TYTON JOINT Pipe is centrifugally cast in metal molds in accordance with ANSI/AWWA C151/A21.5.

The asphaltic outside coating is in accordance with ANSI/AWWA C151/A21.51. Asphaltic coating is NSF-61 approved.

As specified in ANSI/AWWA C151/A21.51, pipe weights have been calculated using standard barrel weights and weights of bells being produced.

ANSI/AWWA C104/A21.4, Cement-Mortar Lining For Ductile-Iron Pipe and Fittings For Water. The cement-mortar lining and inside coating are in accordance with ANSI/AWWA C104/A21.4 Asphaltic coating is NSF-61 approved. Special linings and/or coatings can be furnished for specific conditions.

ANSI/AWWA C111/A21.11, Rubber-Gasket Joints for Ductile-Iron Pressure Pipe and Fittings. TYTON[®] Gaskets are furnished in accordance with ANSI/AWWA C111/A21.11.

ANSI/AWWA C115/A21.15, Flanged Ductile-Iron Pipe with Ductile-Iron or Gray-Iron Threaded Flanges. Threaded flanged pipe conform to the requirements of ANSI/AWWA C115/A21.15. Thicknesses and Dimensions Conforming to ANSI B16.1.

ASTM A746-03 "Standard specification for Ductile Iron Gravity Sewer Pipe."

ASTM A716-08 "Standard Specification for Ductile Iron Culvert Pipe."

ASTM A536 "Standard Specification for Ductile Iron Castings."

SPECIFICATIONS

MINIMUM LENGTHS

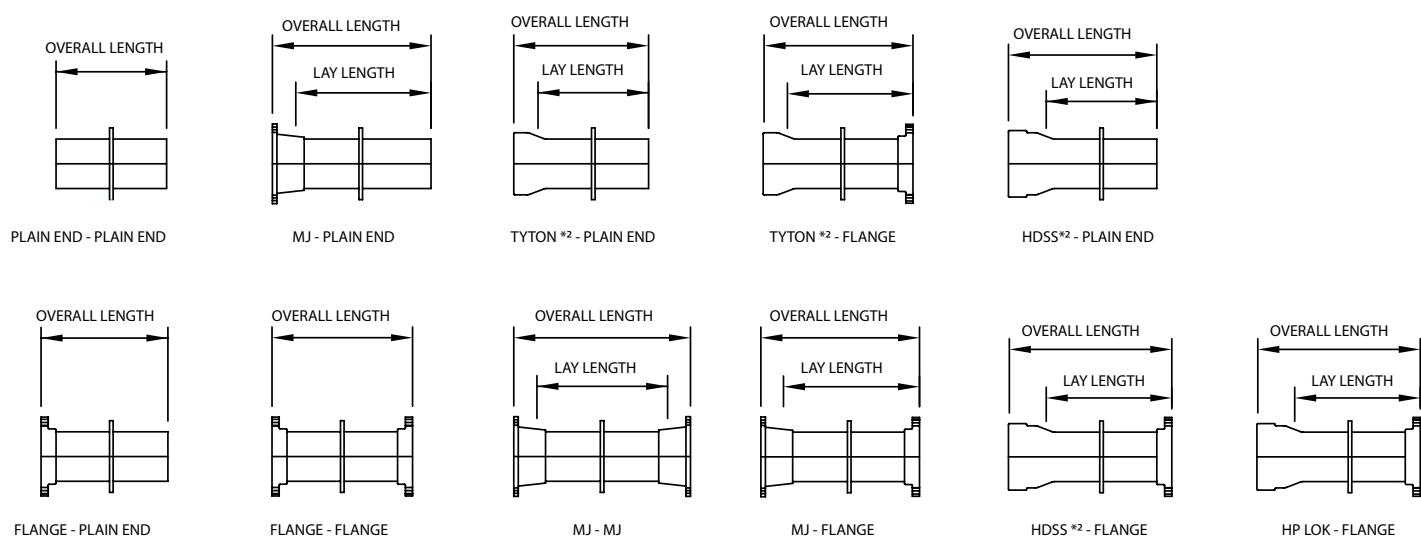


Table 1. Minimum Lengths

Size In.	PExPE	MJ-PEN		TYTON-PE		TYTON®-FLG		HDSS®-PE		FLG-PEN	FLG-FLG	MJ-MJ		MJ-FLG		HDSS®-FLG		HP LOK®-FLG	
		O.L.	L.L.	O.L.	L.L.	O.L.	L.L.	O.L.	L.L.	O.L.	O.L.	O.L.	L.L.	O.L.	L.L.	O.L.	L.L.	O.L.	L.L.
3	6.00	8.75	6.25	9.40	6.25	11.00	7.75	X	X	6.25	8.00	13.00	10.50	10.50	8.00	X	X	X	X
4	6.00	8.75	6.25	9.40	6.25	11.00	7.75	11.00	6.25	6.25	8.00	13.00	10.50	10.50	8.00	12.75	7.75	X	X
6	6.00	8.75	6.25	9.63	6.25	11.37	8.00	11.50	6.25	6.50	8.50	13.37	11.00	11.00	8.50	13.25	8.00	X	X
8	6.00	8.75	6.25	9.94	6.25	12.00	8.25	10.00	6.25	6.75	9.00	14.00	11.50	11.50	9.00	14.00	8.25	X	X
10	6.00	8.75	6.25	10.00	6.25	12.25	8.50	12.25	6.25	7.00	9.37	14.25	11.75	11.75	9.25	14.50	8.50	X	X
12	6.00	8.75	6.25	10.00	6.25	12.25	8.50	12.75	6.37	7.00	9.75	14.75	12.25	12.25	9.75	14.75	8.50	X	X
14	6.00	9.75	6.25	11.25	6.25	14.75	9.75	14.75	7.00	7.25	9.75	17.50	14.00	13.75	10.25	17.50	9.75	X	X
16	6.00	9.75	6.25	11.25	6.25	14.75	9.75	15.00	7.00	7.25	9.75	18.00	14.50	14.00	10.37	17.75	9.75	X	X
18	6.00	9.75	6.25	11.25	6.25	14.75	9.75	15.25	7.00	7.25	10.00	18.50	15.00	14.25	10.75	18.00	9.75	X	X
20	6.00	9.75	6.25	11.75	6.25	15.50	10.00	15.50	7.00	7.37	10.25	19.00	15.50	14.75	11.25	18.50	10.00	X	X
24	6.00	9.75	6.25	12.20	6.25	16.00	10.00	16.00	7.00	7.75	10.75	19.50	16.00	15.25	11.75	19.25	10.25	X	X
30	6.00	10.50	6.50	13.05	6.50	18.00	11.50	17.25	7.00	8.75	12.50	23.00	19.00	17.75	13.75	22.00	11.75	X	X
36	6.00	10.50	6.50	13.50	6.50	19.25	12.25	18.00	7.00	9.25	13.75	24.25	20.25	19.00	15.00	23.25	12.25	X	X
42	6.00	10.75	6.75	14.65	6.75	20.75	12.75	18.75	8.00	9.75	14.75	25.25	21.25	20.00	16.00	23.50	12.75	X	X
48	6.00	11.00	7.00	15.60	7.00	21.75	13.00	19.00	8.00	10.25	15.25	25.50	21.50	20.37	16.37	24.25	13.25	X	X
54	6.00	X	X	18.40	9.00	27.50	18.00	21.25	10.00	14.75	18.00	X	X	X	X	28.25	17.00	X	X
60	6.00	X	X	19.10	9.00	31.00	21.00	X	X	15.00	18.00	X	X	X	X	X	X	31.00	21.00
64	6.00	X	X	19.65	9.00	32.00	21.25	X	X	15.50	18.00	X	X	X	X	X	X	31.37	21.25

*2- Please contact U.S. Pipe Customer Service when a Wall Collar is requested to be located on a pipe bell.

*Lengths shown are subject to manufacturing tolerances. If exact lengths are critical, please contact U.S. Pipe Special Projects Department.

*In order to achieve the minimum lengths shown in the table, the collar may not be located in the center.

*Flanges and MJ Bells should normally be specified as "tapped for studs" for minimum pieces in order to be able to assemble the joints.

*If shorter lengths are required, please contact U.S. Pipe Customer Service.

*When ordering wall pipe with PE's, specify type of PE, ie. PEMJ, PETJ, PEHP, OR PEHD. The length specified must take into consideration the extra space required outside the wall to enable the joint to be assembled. Please contact your U.S. Pipe Sales

SPECIFICATIONS

WALL COLLAR SPECIFICATIONS

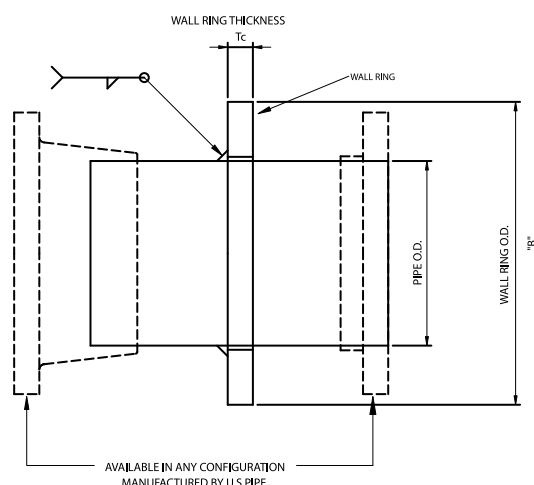


Table 2. Wall Collar Specifications

Pipe Diameter	Pipe Outside Diameter (in) (D)	Wall Ring Outside Diameter (in) (B)	ASTM-A36 Steel Wall Collar Thickness (in) (Tc)	Minimum Pipe Class Required**
3	3.96	6.75	0.38	TC 53
4	4.80	8.75	0.38	TC 53
6	6.90	10.81	0.38	TC 53
8	9.05	12.88	0.38	TC 53
10	11.10	15.75	0.38	TC 53
12	13.20	17.19	0.38	TC 52
14	15.30	19.25	0.38	TC 52
16	17.40	21.38	0.38	TC 51
18	19.50	23.38	0.38	TC 51
20	21.60	25.50	0.38	PC 350
24	25.80	31.63	0.38	PC 250
30	32.00	38.00	0.38	PC 200
36	38.30	44.19	0.38	PC 150
42	44.50	50.50	0.50	PC 150
48	50.80	57.25	0.50	PC 150
54	57.56	64.25	0.50	PC 150
60	61.61	69.75	0.50	PC 150
64	65.67	73.75	0.50	PC 150

* Standard Wall Collars are welded one side. Wall Collars can be ordered welded two sides at additional cost.

** Minimum Special Thickness Class 53 pipe required if threaded components are incorporated in the fabricated product.

*** 3 - 8" Wall Collars (welded both sides) are rated at 250psi WP. 10-64" Wall Collars are not intended for Thrust Restraint applications.

SPECIFICATIONS

THRUST COLLAR SPECIFICATIONS

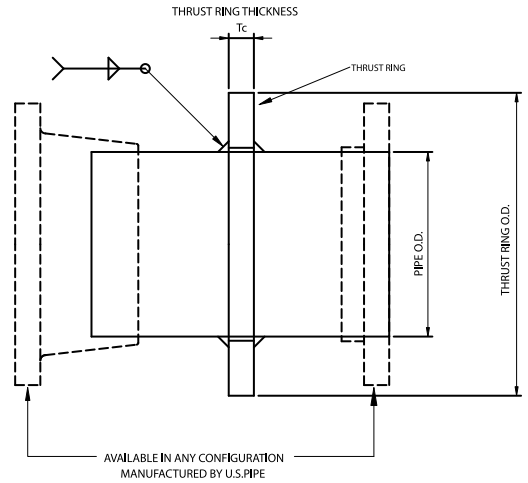


Table 3. Thrust Collar Specifications

Pipe Diameter	Working Pressure (psi) (P) *	Pipe Outside Diameter (in) (D)	Thrust Ring Outside Diameter (in) (B)	ASTM-A36 Steel Wall Collar Thickness (in) (Tc)	Minimum Pipe Class Required**
3	250	3.96	6.75	0.38	TC 53
4	250	4.80	8.75	0.38	TC 53
6	250	6.90	10.81	0.38	TC 53
8	250	9.05	12.88	0.38	TC 52
10	250	11.10	15.75	0.50	TC 52
12	250	13.20	17.19	0.50	TC 51
14	250	15.30	19.25	0.50	TC 51
16	250	17.40	21.38	0.50	PC 350
18	250	19.50	23.38	0.50	PC 350
20	250	21.60	25.50	0.50	PC 350
24	250	25.80	31.63	0.75	PC 350
30	250	32.00	38.00	0.75	TC 53
36	250	38.30	44.19	1.00	PC 350
42	250	44.50	50.50	1.00	PC 350
48	250	50.80	57.25	1.00	PC 350
54	250	57.56	64.25	1.25	PC 350
60	250	61.61	69.75	1.25	PC 350
64	250	65.67	73.75	1.25	PC 350

* Thrust Collars shown are rated for 250 psi internal pressure. For higher pressure or thrust loads, contact U.S. Pipe.

** Minimum Special Thickness Class 53 pipe required if threaded components are incorporated in the fabricated product.

NOTES

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U.S. Pipe, TYTON®, TYTON JOINT®, HDSS®, TR FLEX® Pipe, HP LOK™, USIFLEX®, TR FLEX®, MJ FIELD LOK®, FIELD LOK 350®, FIELD LOK®, TR FLEX GRIPPER®, TR TELE FLEX®, TRIM TYTE®, XTRA FLEX®, PROTECTO 401™, FLANGE-TYTE™, their respective logos, as well as corporate and product identity used herein, are trademarks owned by U.S. Pipe or its affiliated companies and may not be used without permission. All other trademarks are the property of their respective owners.

Our products are manufactured in conformance with national standards so that our customers may be assured of getting the performance and longevity they expect. Use of accessories or other appurtenances that do not comply with recognized standards may jeopardize the performance and longevity of the project.



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