

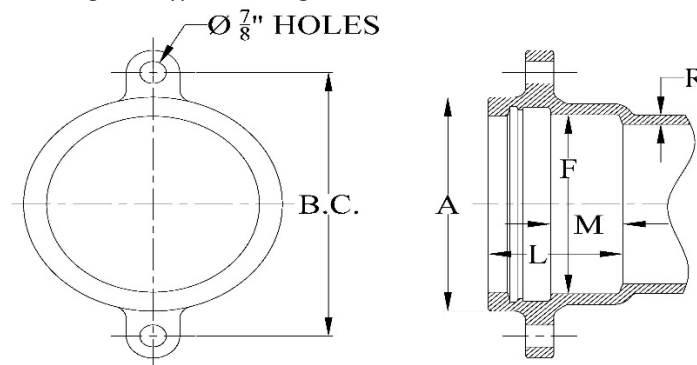
☐ DOMESTIC

☐ NON-DOMESTIC

SUBMITTAL: C153 UNION-TITE PRODUCT

(Current revisions for the noted Standards apply)

- SIZES:** 4" - 24"
- STANDARDS:** ANSI/AWWA C153/A21.53, NFPA13/24, 4"-12" UL listed & approved (File - Tyler Union)
- MATERIAL:** Cast of ASTM A536 qualified ductile iron. Date code is cast on and required for traceability.
- PRESSURE RATING:** Union-Tite/Push-on Joints 4" – 24" rated at 350 psi. *Flanged fittings rated at 250 psi.
*Note: With rubber annular ring flange gasket, 4" – 24" Flanged fittings can be rated at 350 psi.
Note: Wyes over 12" are not pressure rated. Contact Tyler Union for rating in your application.
- DEFLECTION:** Joint deflection 5° max for 4"– 12" and 3° max for 14"– 24". Reduces by 50% at nominal pipe & fitting diameters
- NSF-61 & NSF372:** Meets all requirements including Annex G, Tyler Union's Underwriters Laboratory listing MH16439.
- ASPHALT COATING:** Per ANSI/AWWA C104/A21.4 and ANSI/AWWA C153/A21.53.
- CEMENT LINING:** Per ANSI/AWWA C104/A21.4, with double cement lining available upon request.
- EPOXY COATING:** Fusion bonded epoxy per ANSI/AWWA C116/A21.16. Additional coatings available upon request.
- BARE FITTINGS:** Available upon request.
- FASTENERS:** High strength low alloy weathering steel per ANSI/AWWA C111/A21.11 and ASTM A242
- RESTRAINING LUGS:** *Lugs provided on 16" and smaller fittings. Lug pattern accommodates most grip type restraints.
*NOTE: With sufficient lead time to adapt tooling, restraining lugs are available on 18"-24" fittings.
- INSTALLATION:** Install per AWWA C600/C651 using pipe conforming to ANSI/AWWA C151/A21.51 or AWWA C900/905. Designed for use with TYTON® and McWane Sure Stop® gaskets. Contact Tyler Union regarding the installation or use of other gasket types and/or gasket manufacturers.



NOMINAL JOINT DIMENSIONS IN INCHES

Size Inches	Pipe Diameter	A Dia.	F Dia.	B.C. Dia.	L Dim.	M Dim.	R Dim.
4	4.80	6.38	5.04	7.88	4.16	2.25	0.35
6	6.90	8.52	7.14	10.50	4.29	2.25	0.37
8	9.05	10.90	9.32	12.88	4.78	2.25	0.39
10	11.10	12.91	11.37	14.69	4.98	2.25	0.41
12	13.20	15.12	13.47	17.19	4.98	2.25	0.43
14	15.30	18.12	15.64	19.00	5.40	2.25	0.51
16	17.40	20.32	17.74	21.40	5.40	2.25	0.52
18	19.50	22.52	19.83		5.40	2.25	0.59
20	21.60	24.29	21.94		5.40	2.25	0.60
24	25.80	29.14	26.14		5.65	2.50	0.62

Tyler Union Waterworks Contact Information

Anniston: (800) 226-7601

Corona: (866) 527-8471

Tyler: (800) 527-8478

C153 DUCTILE IRON COMPACT FITTINGS

SAMPLE SPECIFICATIONS

(Current ANSI/AWWA revisions apply)

Push-On joint ductile iron fittings size 4" through 24" shall be produced in accordance with all applicable terms and provisions of ANSI/AWWA C153/A21.53. Fittings are cement lined and seal coated in accordance with ANSI/AWWA C104/A21.4. Joints shall be in accordance with manufacturer's design with bell sockets designed to receive pressure pipe O.D.s as specified in ANSI/AWWA C151/A21.51 and AWWA C900 TABLE 2. The working pressure rating shall be 350 PSI, except for wyes and flanged-branch fittings. NOTE: Fittings are cement lined and seal coated in accordance with ANSI/AWWA C104/A21.4, also available bare or epoxy coated. Double cement lined available. Coated and/or lined fittings meet NSF-61, NSF-372 and Annex G.

Thicknesses and dimensions of bell sockets and gaskets shall be in accordance with the manufacturer's design. Gaskets shall be furnished by the manufacturer. Working pressures apply to fittings only and do not apply to restraining lugs or external restraining devices. Installation of fittings shall be per AWWA C600 and AWWA C651, current revision.

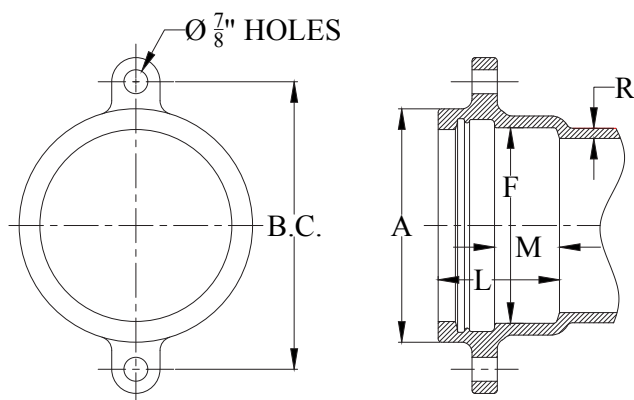
NOTE: Standard restraining lugs are provided on sizes 4" through 16" ONLY. Restraining lugs are available on 18" through 24" fittings, provided sufficient time is available to make tooling adaptations.

EXCEPTIONS: Union-Tite fittings with flanged branches are rated for water pressure of 250 psi but can be rated for 350 psi with the use of an annular ring or comparable gasket. Wye fittings over 12" are not pressure rated. Call Tyler Union for information.

ADVANTAGES AND FEATURES NOTE:

- Push-on gasket joint uses TYTON® or McWane 350 Sure Stop® gaskets.
- For use with Ductile Iron Pipe, C-900/905 PVC pipe and 4" through 12" pressure-rated IPS diameter PVC pipe (with transition gasket).
- Deep stab joint design accommodates common spigot end taper on plastic pipes.
- Slip joint installation eliminates T-bolts and nuts (MJ glands not needed).

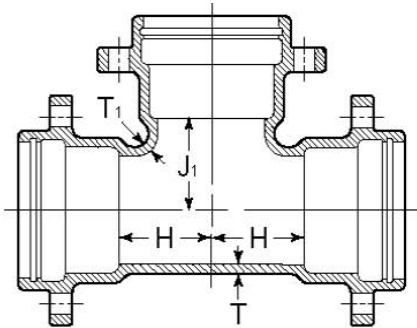
NOTE: TYTON is a registered trademark of U.S. Pipe and Foundry Company.



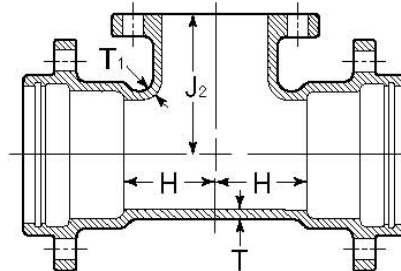
ANSI/AWWA C153 Push-On Joint Fittings

Nominal Joint Dimensions in Inches						
Size	F	A	B.C.	L	M	R
4	5.04	6.38	7.88	4.16	2.25	0.35
6	7.14	8.52	10.50	4.29	2.25	0.37
8	9.32	10.90	12.88	4.78	2.25	0.39
10	11.37	12.91	14.69	4.98	2.25	0.41
12	13.47	15.12	17.19	4.98	2.25	0.43
14	15.64	18.12	19.00	5.40	2.25	0.51
16	17.74	20.32	21.40	5.40	2.25	0.52
18	19.83	22.52	—	5.40	2.25	0.59
20	21.94	24.29	—	5.40	2.25	0.60
24	26.14	29.14	—	5.65	2.50	0.62

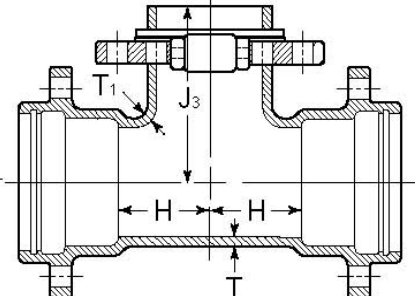
C153 DUCTILE IRON COMPACT FITTINGS



UTxUT Tee



UTxFE Tee



UTxSwivel Tee

TEES										
Size	T	T1	H	J1	J2	J3	Weight			
							UT x UT	UT x Flange	UT x PE	Crosses
6x4	0.00	0.00	5.00	6.00	8.00	—	68	56	—	—
8x4	0.00	0.00	5.00	7.00	9.00	—	73	89	—	—
8x6	0.00	0.00	6.00	7.00	9.00	11.00	96	101	100	88
8	0.00	0.00	7.00	7.00	9.00	11.00	116	117	110	—
10x4	0.00	0.00	6.00	9.00	11.00	—	102	115	—	117
10x6	0.00	0.00	7.00	9.00	11.00	13.00	113	128	130	156
10x8	0.00	0.00	8.00	9.00	11.00	13.00	145	145	156	116
10	0.00	0.00	9.00	9.00	11.00	—	155	158	—	—
12x4	0.00	0.00	6.00	10.00	12.00	—	119	138	—	—
12x6	0.00	0.00	7.00	10.00	12.00	14.00	141	148	162	—
12x8	0.00	0.00	8.00	10.00	12.00	14.00	177	170	158	—
12x10	0.00	0.00	9.00	10.00	12.00	—	160	162	—	240
12	0.00	0.00	10.00	10.00	12.00	—	217	183	—	—
14x6	1.00	0.00	7.00	11.00	13.00	14.00	176	212	202	241
14x10	1.00	0.00	9.00	11.00	13.00	—	195	246	—	189
14x12	1.00	0.00	10.00	11.00	13.00	—	196	296	—	204
14	1.00	1.00	11.00	11.00	14.00	—	209	321	—	222
16x6	1.00	0.00	7.00	12.00	14.00	15.00	266	160	229	239
16x8	1.00	0.00	8.00	12.00	14.00	15.00	292	270	292	270
16x10	1.00	0.00	9.00	12.00	14.00	—	232	330	—	234
16x12	1.00	0.00	10.00	12.00	14.00	—	239	321	—	323
16x14	1.00	1.00	11.00	12.00	15.00	—	349	342	—	268
16	1.00	1.00	12.00	12.00	15.00	—	261	355	—	274
18x6	1.00	0.00	7.00	13.00	15.00	16.00	348	301	348	322
18x8	1.00	0.00	8.00	13.00	15.00	16.00	325	319	324	317
18x10	1.00	0.00	9.00	13.00	15.00	—	344	337	—	—
18x14	1.00	1.00	11.00	13.00	16.00	—	342	393	—	—
18x16	1.00	1.00	12.00	13.00	16.00	—	362	420	—	—
20x6	1.00	0.00	7.00	14.00	16.00	18.00	355	341	400	—
20x10	1.00	0.00	9.00	14.00	16.00	—	369	420	—	—
20x14	1.00	1.00	11.00	14.00	18.00	—	484	474	—	—
20x16	1.00	1.00	12.00	14.00	18.00	—	610	498	—	—
20x18	1.00	1.00	13.00	14.00	18.00	—	539	—	—	—
24x6	1.00	0.00	7.00	16.00	18.00	20.00	385	512	525	—
24x10	1.00	0.00	9.00	16.00	18.00	—	478	468	—	—
24x12	1.00	0.00	10.00	16.00	18.00	—	663	503	—	—
24x14	1.00	1.00	11.00	16.00	20.00	—	542	531	—	—
24x16	1.00	1.00	12.00	16.00	20.00	—	566	555	—	—
24x18	1.00	1.00	13.00	16.00	—	—	593	—	—	—
24x20	1.00	1.00	15.00	17.00	—	—	628	—	—	—
24	1.00	1.00	17.00	17.00	—	—	884	—	—	—