



**CITY OF AUSTIN  
STANDARD PRODUCTS LIST**

for

**COMPACT DUCTILE IRON FITTINGS AND FITTING WEIGHT SCHEDULE**

**USING DEPARTMENT:** Austin Water      **PREPARED BY:** Bill Flynn, P.E.      **ISSUED:** 10/01/87  
**REVISED BY:** Jeff A. Kyle, P.E.      **REVISED:** 07/01/19

**DESCRIPTION:** Compact Ductile Iron Fittings complying with AWWA C153.

1. All fittings shall have markings cast on the body as required by AWWA C153.
2. All fittings shall be asphalt or zinc/asphalt coated, and cement-mortar lined with either an asphaltic seal coat complying with AWWA C104 or fusion-bonded epoxy coated and lined (inside and outside) complying with AWWA C116. Fusion-bonded epoxy must be red and shall comply with the requirements of ANSI/NSF 61. (See SPL WW-27A for Joint Restraint Devices, SPL WW-27C for Ductile Iron Fittings complying with AWWA C110, or SPL WW-27F for Restrained Joint Ductile Iron Pipe and Fittings.)
3. Wastewater fittings shall be lined with approved corrosion resistant material (see SPL WW-534). The lining to be used shall be shown on product submittal, with type, brand, and lot number marked on each fitting. No more than one type or brand of lining shall be used for any project. These fittings are not to be used for gravity flow wastewater applications except when in the opinion of the Engineer the strength of DI makes its use appropriate; it may be used only if specifically shown on approved engineering drawings.

LISTING DATE	MANUFACTURER	PRODUCT IDENTIFICATION/COMMENT	APPROVAL
01/02/98	U.S. PIPE & FOUNDRY CO. P.O. Box 10406 Birmingham, AL 35202	All series	W. Flynn
10/01/97	A-1 FOUNDRY (China)/ SIGMA CORPORATION P.O. Box 300 Rt. 537 Goldman Road Cream Ridge, NJ 08514	All Fittings	W. Flynn
01/02/98	TYLER UNION/DIVISION OF McWANE P.O. Box 309 Anniston, AL 36202	All Series	W. Flynn
04/01/97	SOMEPI (SMP/BRAZIL)/STAR PIPE PRODUCTS 4018 Westhollow Pkwy. Houston, TX 77082	All Fittings Includes Series 100 MJ x MJ Adaptor (bolt-through MJ restraint)	W. Flynn
07/01/96	INFACCT CORP. 1283 Gateway Drive Gallatin, TN 37066	Foster MJ x MJ Adaptor (bolt- through MJ restraint) (Use accessory paks recommended by manufacturer)	W. Flynn
04/01/09	ASSURED FLOW SALES, INC. P.O. Box 49633 Sarasota, FL 34230	Gradelok® Offset Fitting	R. Lamb
04/01/10	SHANXI YUANSHEG (China) ACCUCAST 415 S. 21 <sup>st</sup> Ave. Waco, TX 76706	4" to 12" Logo on Casting 	R. Lamb



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04/01/13	GAOMI ZHONGYIDE (China) ACCUCAST	4" to 12" MJ x MJ Accu Adaptor (bolt-through MJ restraint)	R. Lamb
01/01/12	US PIPE/METALFIT (Mexico) METALFIT 5583 Snowflake Way Parker, CO 80134	All Fittings	R. Lamb
10/01/12	XIAN XIAN EAST FOUNDRY CO., LTD. (China) SERAMPORE (SIP) INDUSTRIES 2900 Patio Drive Houston, TX 77017	All Fittings	R. Lamb

**NOTES:**

1. Materials shall meet applicable specification requirements. Acceptable sizes for potable and reclaimed waterline fittings are 4", 6", 8", 12", 16", 24", 30" and multiples of 6" in larger sizes. 14", 18" and 20" are acceptable for repairs only. Sizes for wastewater force mains shall be determined based on specific project requirements.
2. Submittal shall include results of independent laboratory testing showing that the seal coating on fittings meets test requirements of Section 5.2 of AWWA Standard C104, and is in compliance with Section 4.12 of that Standard.
3. Fitting manufacturers shall certify that the lining will withstand, without damage, high pressure jet washing that is used to flush lines prior to CCTV inspection and as required for normal maintenance purposes.
4. For fittings larger than 24" diameter, the manufacturer must provide one of the following with project submittal:
  - a) Evidence of current ISO registration;
  - b) Evidence of current Austin Water-approved quality control program;
  - or c) Evidence of current Austin Water-approved independent, third party firm that will test and inspect fittings produced for the City of Austin in accordance with Standard Specification Item 510.
5. Zinc coating for DI fittings will be considered on a case by case basis and only as approved by Austin Water. When used, fittings shall be identified as "Zinc Coated" (or similar), and zinc coating shall be applied as a base layer under an asphaltic seal coat that complies with AWWA C104. The use of polywrap is required with zinc coated fittings.
6. 5-5/8 degree bends are allowed when the product submittal includes documentation showing that the bends are manufactured in compliance with AWWA C153.

**LATEST REVISIONS:**

1. Revised format of DESCRIPTION.
2. Removed *5-5/8 degree bends are acceptable* from Tyler Union fittings.
3. Added Note 6 to allow 5-5/8 degree bends that are manufactured in compliance with AWWA C153.
4. Added 5-5/8 degree bends to weight schedule.



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**DESCRIPTION:**

Fitting weights for payment purposes: The listed weights shall govern for payment purposes irrespective of approved fittings used. The listed weights are based on AWWA C153 (compact ductile iron fittings) and manufacturer-tabulated weights for fittings meeting AWWA C153. Bolts, gaskets and glands are subsidiary to the City weights.

TEES AND CROSSES			
SIZE (IN.)		WEIGHT (LB.)	
RUN	BRANCH	TEE	CROSS
4	4	32	40
6	4	46	65
	6	56	75
8	4	60	85
	6	72	100
	8	86	105
12	4	94	115
	6	110	135
	8	125	175
	12	160	210
16	6	228	250
	8	248	270
	12	280	335
	16	322	385
20	6	315	350
	8	345	380
	12	395	415
	16	465	550
	20	535	600
24	6	415	650
	8	445	575
	12	500	625
	16	580	675
	20	660	925
	24	720	950
30	8	739	650
	12	830	800
	16	959	900
	20	995	1220
	24	1,060	1500
	30	1,323	1,775
36	8	1,420	
	12	1,430	
	16	1,440	
	24	1,498	1,865
	30	1,555	2,580
	36	1,900	2,735

TEES AND CROSSES			
SIZE (IN.)		WEIGHT (LB.)	
RUN	BRANCH	TEE	CROSS
42	12	2,200	
	16	2,220	
	24	2,270	2,350
	30	2,425	2,920
	36	3,000	3,675
	42	3,175	4,090
48	12	2,800	
	16	2,820	
	24	2,870	3,200
	30	3,050	3,785
	36	3,900	5,045
	42	4,100	5,465
	48	4,250	6,220

REDUCERS	
SIZE (IN.)	WEIGHT (LB.)
6 x 4	24
8 x 4	32
8 x 6	36
12 x 4	58
12 x 6	60
12 x 8	60
16 x 6	124
16 x 8	124
16 x 12	124
20 x 12	205
20 x 16	200
24 x 12	305
24 x 16	320
24 x 20	300
30 x 16	633
30 x 20	628
30 x 24	478
36 x 20	975
36 x 24	770
36 x 30	650
42 x 24	1,356
42 x 30	1,083
42 x 36	1,114
48 x 30	1,779
48 x 36	1,641
48 x 42	1,426

BENDS					
	1/4 90°	1/8 45°	1/16 22 1/2°	1/32 11 1/4°	1/64 5 5/8°
SIZE (IN.)	WEIGHT (LB.)				
4	27	23	18	16	18
6	39	32	32	30	29
8	57	46	46	42	45
12	108	86	84	74	82
16		202	178	158	157
20		305	310	245	374
24		405	412	315	487
30		780	665	600	600
36		1,135	960	820	820
42		1,610	1,350	1,180	1,180
48		2,090	1,760	1,475	1,475

	CAPS	PLUGS
SIZE (IN.)	WEIGHT (LB.)	
4	9	10
6	15	16
8	22	26
12	42	46
16	92	95
20	125	135
24	166	175
30	345	355
36	628	688
42	900	1,200
48	1,075	1,550

SLEEVES	
SIZE (IN.)	WEIGHT (LB.)
4	17
6	28
8	38
12	56
16	130
20	195
24	255
30	500
36	725
42	875
48	1,400