



Ductile Iron Push-On Fittings

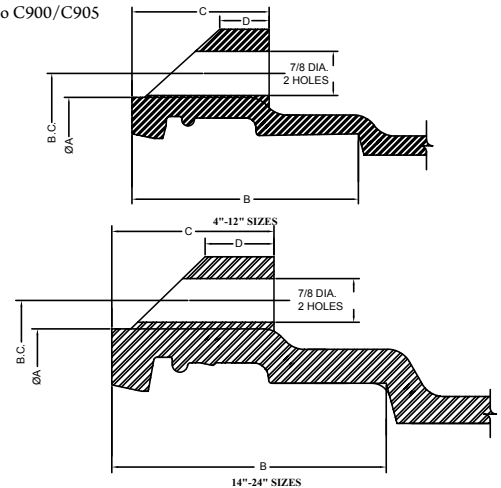
ANSI/AWWA C153/A21.53

GENERAL SPECIFICATIONS

MATERIAL:	Ductile iron per ASTM A536
PRESSURE:	350 PSI rating for 4" - 24" sizes. Pressure rating applies to fittings only and does not apply to restraining lugs or external restrainers
TESTING:	In accordance with ANSI/AWWA C153/A21.53 and UL requirements
LAYING LENGTH:	In accordance with ANSI/AWWA C153/A21.53 (fittings not listed in ANSI/AWWA have dimensions per Star design as noted in the catalog)
WEIGHTS:	Are in pounds, unless noted otherwise and do not include accessories, cement lining and coating
FLANGES:	Flanged ends on fittings match ANSI/AWW C115/A21.15 and ANSI B16.1 class 125 flanges
CEMENT LINING:	In accordance with ANSI/AWWA C104/A21.4 -- sizes 4" - 24" double thickness
COATING:	Asphaltic seal coat inside and out in accordance with ANSI/AWWA C104/A21.4 and referenced in ANSI/AWWA C153/A21.53
GASKETS:	Dual hardness SBR in accordance with ANSI/AWWA C111/A21.11
APPROVALS:	4" - 12" Underwriters Laboratories Listed. Please consult factory for detail listing and approvals. 4" and greater are UL/NSF-61
DIMENSIONS:	All dimensions are in inches unless noted otherwise.
INSTALLATION:	Per ANSI/AWWA C600 and C111 using DIP conforming to C150/C151 and PVC pipe conforming to C900/C905



SUBMITTAL INFORMATION

PROJECT NAME:**ENGINEER:****CONTRACTOR:****SPEC. SECTION:**

PUSH-ON JOINT DIMENSIONS

NOM. SIZE	ØA	B.C.	B	C	D
4	6.38	7.50	4.02	2.17	1.12
6	8.52	9.56	4.02	2.17	1.12
8	10.80	11.82	4.49	2.72	1.12
10	12.91	14.00	4.49	2.91	1.12
12	15.05	16.25	5.00	2.99	1.12
14	17.89	18.75	5.50	3.12	1.25
16	20.05	21.00	5.50	3.25	1.25
18	22.35	23.25	5.50	3.25	1.25
20	24.47	25.50	5.50	3.25	1.25
24	28.79	30.00	6.00	3.25	1.25

Please note: All fittings are standard with two (2) restraining lugs. Bends 45° & 90° in sizes 4" - 12" are also available with four (4) restraining lugs.

SIZE RANGE (Please specify):

Size Range _____

LINING OPTIONS (Please check one):

Standard: Cement-lined and asphalt seal coat per ANSI/AWWA C104/A21.4 and UL/NSF-61
Optional: FBE (Fusion Bonded Epoxy) per ANSI/AWWA C116/A21.15 and UL/NSF-61 - ID & OD Only
Optional: P401 (Protecto 401) Ceramic Epoxy - sewer applications only. Not NSF-61
Optional: Other (specify) _____

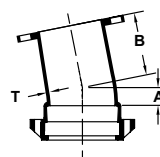
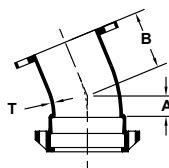
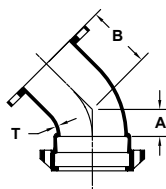
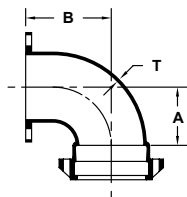
COATING OPTIONS (Please check one):

Standard: Asphaltic seal coat per ANSI/AWWA C104/A21.4
Optional: FBE (Fusion Bonded Epoxy) per ANSI/AWWA C116/A21.15 and UL/NSF-61 - ID & OD Only
Optional: Other (specify) _____

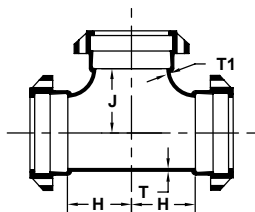


Compact Push-On Fittings

ANSI/AWWA C153/A21.53



PO x FE BENDS		90° PO x FE BENDS (1/4)			45° PO x FE BENDS (1/8)			22 1/2° PO x FE BENDS (1/6)			11 1/4° PO x FE BENDS (1/32)		
NOM. SIZE	T	A	B	WT (LBS.)	A	B	WT (LBS.)	A	B	WT (LBS.)	A	B	WT (LBS.)
4	0.34	4.50	6.50	33	2.00	4.00	21	1.50	4.00	25	1.25	4.00	24
6	0.36	5.50	8.00	47	3.00	5.00	42	2.00	5.00	44	1.50	5.00	30
8	0.38	6.50	9.00	76	3.50	5.50	60	2.50	5.50	64	1.75	5.50	61
10	0.40	7.50	11.00	130	4.50	6.50	93	3.00	6.50	90	2.00	6.50	80
12	0.42	8.75	12.00	158	5.50	7.50	122	3.50	7.50	112	2.25	7.50	94
14	0.47	11.50	14.00	231	5.00	7.50	162	3.75	7.50	174	2.50	7.50	170
16	0.50	12.50	15.00	350	5.50	8.00	275	3.75	8.00	228	2.50	8.00	228
24	0.61	17.00	22.00	---	---	---	---	---	---	---	---	---	---



PO x PO TEES					
NOM. SIZE	T	T1	H	J	WT (LBS.)
4 x 4	0.34	0.34	4.00	4.00	40
6 x 4	0.36	0.34	4.00	5.00	50
6 x 6	0.36	0.36	5.00	5.00	59
8 x 4	0.38	0.34	4.00	6.50	75
8 x 6	0.38	0.36	5.00	6.50	88
8 x 8	0.38	0.38	6.50	6.50	99
10 x 4	0.40	0.34	4.00	7.50	95
10 x 6	0.40	0.36	5.00	7.50	103
10 x 8	0.40	0.38	6.50	7.50	122
10 x 10	0.40	0.40	7.50	7.50	134
12 x 4	0.42	0.34	4.00	8.75	122
12 x 6	0.42	0.36	5.00	8.75	126
12 x 8	0.42	0.38	6.50	8.75	148
12 x 10	0.42	0.40	7.50	8.75	161
12 x 12	0.42	0.42	8.75	8.75	192
14 x 6	0.47	0.36	6.50	10.50	176
14 x 10	0.47	0.40	8.50	10.50	195
14 x 12	0.47	0.42	9.50	10.50	196
14 x 14	0.47	0.47	10.50	10.50	209

(Con't)➡

PO x PO TEES (Con't)					
NOM. SIZE	T	T1	H	J	WT (LBS.)
16 x 6	0.50	0.36	6.50	11.50	221
16 x 8	0.50	0.38	7.50	11.50	257
16 x 10	0.50	0.40	8.50	11.50	232
16 x 12	0.50	0.42	9.50	11.50	288
16 x 14	0.50	0.47	10.50	11.50	349
16 x 16	0.50	0.50	12.50	12.50	460
18 x 6	0.54	0.36	6.50	12.50	320
18 x 8	0.54	0.38	7.50	12.50	325
18 x 10	0.54	0.40	8.50	12.50	344
18 x 12	0.54	0.42	9.50	12.50	385
18 x 14	0.54	0.47	10.50	12.50	352
18 x 16	0.54	0.50	11.50	12.50	362
18 x 18	0.54	0.54	14.00	14.00	550
20 x 6	0.57	0.36	6.50	14.00	355
20 x 10	0.57	0.40	9.00	14.00	369
20 x 12	0.57	0.42	10.00	14.00	457
20 x 14	0.57	0.47	11.00	14.00	484
20 x 16	0.57	0.50	12.00	14.00	610
20 x 18	0.57	0.54	13.00	14.00	639
20 x 20	0.57	0.57	15.00	15.00	644
24 x 6	0.61	0.36	7.00	16.00	450
24 x 8	0.61	0.38	8.00	16.00	492
24 x 10	0.61	0.40	9.00	16.00	520
24 x 12	0.61	0.42	10.00	16.00	541
24 x 14	0.61	0.47	11.00	16.00	715
24 x 16	0.61	0.50	12.00	16.00	755
24 x 18	0.61	0.54	13.00	16.00	708
24 x 20	0.61	0.57	14.00	16.00	845
24 x 24	0.61	0.61	17.00	17.00	884