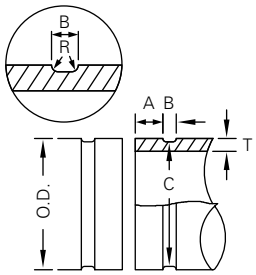
AWWA Ductile Iron Series

Shurjoint *offers a variety of grooved mechanical couplings and fittings for AWWA ductile iron pipe in sizes 3" to 24". The* ***Shurjoint*** *coupling features a two-piece housing and GapSeal gasket for a leak-tight seal. Ductile iron pipe shall be cut-grooved to AWWA C606 Table 2 and Table 3 - Radius Cut Groove Specifications.*

Rubber gaskets are specially compounded to seal on ductile iron surfaces and are available in three grades to meet your service requirement needs. *See page 179 for details.*

Radius Cut Grooving Dimensions – Ductile Iron Pipe



Gasket Seating Surface (A):
The same coupling can be used either as a rigid joint or a flexible joint depending on the groove. Gasket seat "A Rigid" is for rigid joints and Gasket seat "A Flex." for flexible joints.
The gasket seating surface shall be free from deep scores, marks, or ridges that could prevent a positive seal.

Groove Diameter (C):
The "C" diameters are average values. The groove must be of uniform depth around the entire pipe circumference.

Radius (R):
The groove must be cut with a radius 'R' at the corners of the groove to reduce stress concentration.

Minimum Wall Thickness (T):
"T" is the minimum allowable wall thickness that may be cut-grooved; tolerances are to conform to ANSI/AWWA C151/A21.51.

AWWA Ductile Iron Pipe

Nominal Size	Pipe O.D.			Gasket Seat A		Groove Width B	Groove Dia. C		Radius	Min. Allowed Wall
	Basic	Tolerance +	Tolerance -	Rigid +0/-0.02 +0/-0.51	Flex. +0.016/-0.047 +0.41/-1.19	+0.031/-0.016 +0.79/-0.41	Basic	Tol. +0 +0	R	Thickness T
in	in	in	in	in	in	in	in	in	in	in
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
3	3.96	+0.045	-0.045	0.840	0.750	0.375	3.723	-0.020	0.120	0.31
80	100.6	+1.14	-1.14	21.34	19.05	9.53	94.56	-0.51	3.05	7.9
4	4.80	+0.045	-0.045	0.840	0.750	0.375	4.563	-0.020	0.120	0.32
100	121.9	+1.14	-1.14	21.34	19.05	9.53	115.90	-0.51	3.05	8.1
6	6.90	+0.060	-0.060	0.840	0.750	0.375	6.656	-0.020	0.120	0.34
150	175.3	+1.52	-1.52	21.34	19.05	9.53	169.06	-0.51	3.05	8.6
8	9.05	+0.060	-0.060	0.840	0.875	0.500	8.781	-0.025	0.145	0.36
200	229.9	+1.52	-1.52	21.34	22.83	12.70	223.04	-0.64	3.68	9.1
10	11.10	+0.060	-0.060	1.015	0.938	0.500	10.813	-0.025	0.145	0.38
250	281.9	+1.52	-1.52	25.78	23.83	12.70	274.65	-0.64	3.68	9.7
12	13.20	+0.060	-0.060	1.015	0.938	0.500	12.906	-0.030	0.145	0.40
300	335.3	+1.52	-1.52	25.78	23.83	12.70	327.81	-0.76	3.68	10.2
14	15.30	+0.050	-0.080	1.015	0.938	0.625	14.969	-0.030	0.165	0.42
350	388.6	+1.27	-2.03	25.78	23.83	15.88	380.21	-0.76	4.19	10.7
16	17.40	+0.050	-0.080	1.340	1.188	0.625	17.063	-0.030	0.165	0.43
400	442.0	+1.27	-2.03	34.04	30.18	15.88	433.40	-0.76	4.19	10.9
18	19.50	+0.050	-0.080	1.340	1.188	0.625	19.125	-0.030	0.185	0.44
450	495.3	+1.27	-2.03	34.04	30.18	15.88	485.78	-0.76	4.70	11.2
20	21.60	+0.050	-0.080	1.340	1.188	0.625	21.219	-0.030	0.185	0.45
500	548.6	+1.27	-2.03	34.04	30.18	15.88	538.96	-0.76	4.70	11.4
24	25.80	+0.050	-0.080	1.340	1.188	0.625	25.046	-0.030	0.185	0.47
600	655.3	+1.27	-2.03	34.04	30.18	15.88	645.31	-0.76	4.70	11.9