



**AMERICAN Grooved and Shouldered Joints**  
**AMERICAN Grooved Joint**  
**AWWA C606**

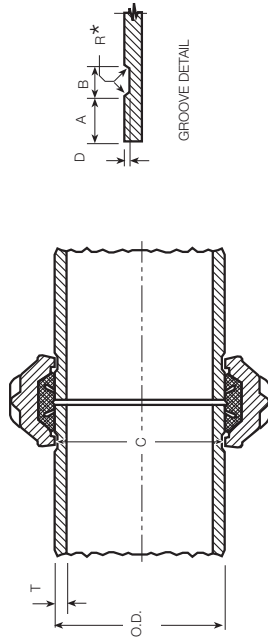


Table No. 2-12

Size in.	Dimensions in Inches										Weight in Pounds	
	O.D.	T** Nominal Wall Thickness	Coupling Max. Working Pressure† psi	A		B	C	D Groove Depth		Min. Length Grooved End- Grooved Pipe in.	Per Foot (Without Coupling)	Per Maximum†† Length
				Flexible Joint	Rigid Joint			Min.	Max.			
4	4.80	.32	500	.750	.840	.375	4.563	.096	.151	3½	13.8	241
6	6.90	.34	400	.750	.840	.375	6.656	.100	.154	3½	21.4	430
8	9.05	.36	400	.875	.950	.500	8.781	.104	.177	4	30.1	600
10	11.10	.38	350	.938	1.015	.500	10.813	.114	.186	4	39.2	785
12	13.20	.40	350	.938	1.015	.500	12.906	.117	.192	4	49.2	985
14	15.30	.42	250	.938	1.015	.625	14.969	.126	.206	4½	60.1	1200
16	17.40	.43	250	1.188	1.340	.625	17.063	.128	.208	5	70.1	1410
18	19.50	.47	250	1.188	1.340	.625	19.125	.148	.228	5	86.0	1720
20	21.60	.51	150	1.188	1.340	.625	21.219	.150	.230	5	103.4	2070
24	25.80	.56	150	1.188	1.340	.625	25.406	.157	.237	5	135.9	2720
30††	32.00	.63	150	1.375	1.625	.750	31.550	.195	---	6	190.0	3710
36††	38.30	.73	150	1.375	1.625	.750	37.850	.195	---	6	263.7	5140

\*\*R\* for sizes 4" and 6" is .120"; for 8"-12" is .145"; for 14" and 16" is .165"; for 18"-24" is .185"; and for 30" and 36" is .215".

††Minimum nominal wall thickness of centrifugally cast ductile iron pipe furnished with Grooved Joint. Thicknesses above correspond to Special Thickness Class 53 for 4"-16" diameter, and Special Thickness Classes 54 and 55 for diameters 18" and 20", respectively, and Special Thickness Class 56 for diameters 24"-36".

†Pressure ratings established by coupling manufacturer.

††Maximum length for 4" size is 17'6", for 6"-24" sizes is 20'0", and for 30"-36" sizes is 19'6". Shorter lengths than the maximum lengths can, of course, be furnished.

†††30" and 36" sizes are not included in AWWA C606.

For tolerances see AWWA C606.

Standard fittings are available with Grooved Joints and are normally available only with rigid grooving. Couplings for Grooved Joints may be furnished by AMERICAN but are not of our design or manufacture. Check AMERICAN for details and recommendations.



**AMERICAN Shouldered Joint\***  
AWWA C606

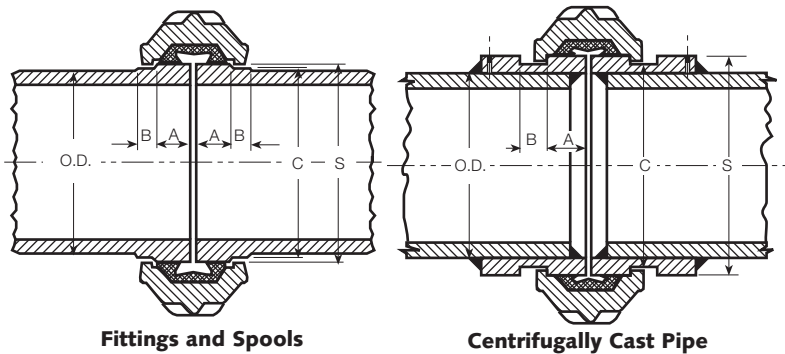


Table No. 2-13

Size in.	Dimensions in Inches					Coupling Max. Working Pressure**
	O.D.	A	B Min.	C Max.	S	
18	19.50	1.188	.750	20.469	20.937	175
20	21.60	1.188	.750	22.344	22.875	175
24	25.80	1.188	.750	26.594	27.125	175
30	32.00	1.750	1.000	33.000	33.750	175
36	38.30	1.750	1.000	39.438	40.188	175
42	44.50	1.750	1.250	45.813	46.625	175
48	50.80	1.750	1.250	52.188	53.125	175
54	57.56	1.750	1.500	58.625	59.688	175
60	61.61	1.750	1.500	63.625	64.688	90
60	61.61	1.750	1.500	65.063	66.188	175
64†	65.67	1.750	1.500	69.625	70.750	90

\*AMERICAN Shouldered Joints are furnished on fittings and on statically cast pipe as shown left above. On centrifugally cast pipe the Shouldered Joint is furnished with welded steel end ring fabricated as shown right above. Consult AMERICAN regarding specific requirements.

Wall thickness will vary according to service requirements and with method of casting—centrifugal or static. Shouldered Joints with other dimensions can be furnished under certain circumstances. Check AMERICAN for details. Couplings for Shouldered Joints are not designed or manufactured by AMERICAN, but may be furnished on request. Check AMERICAN for recommendations.

\*\*Pressure rating established by coupling manufacturer.

†66" couplings are used with 64" pipe.

Welded rings can be furnished on minimum pressure classes of ductile iron pipe. Maximum laying length is 19'6" and minimum laying length is 1'6" for all sizes.

Check AMERICAN if smaller sizes of shouldered end pipes are desired.