



Thrust Collars

One method of restraining a pipeline is to provide a welded-on thrust collar or other dependable anchorage means on one or both sides of the point requiring restraint and to use concrete poured around the collar for support against undisturbed soil surrounding the pipe.

At a bend, the fitting and pipe ends would have to be of a restrained type, adequate to withstand total thrust involved. The required number of thrust collars would be dependent on the mag-

nitude of the thrust force to be restrained and the allowable load per collar.

Thrust collars are also used in lieu of water stops on fabricated wall pipe for installation in load-bearing walls to resist thrust caused by internal pressure.

The allowable load per standard collar for the various sizes of pipe is tabulated below.

Contact AMERICAN when greater loads are involved.

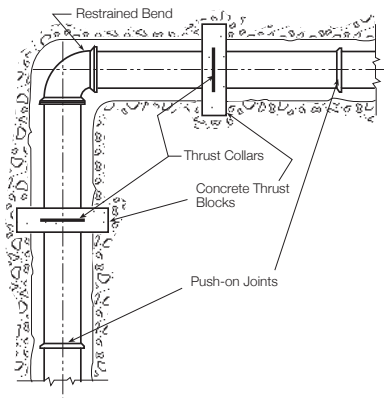


Table No. 9-11 **Thrust Collar Blocking Arrangement**

Pipe Size in.	Collar O.D.* in.	Collar Thickness* in.	Weight of Collar* lbs	Allowable Load Per Collar** lbs
4	6.80	.25	1	4,500
6	8.90	.25	2	9,300
8	11.05	.25	2	16,000
10	13.10	.25	3	24,000
12	15.20	.25	3	34,000
14	17.30	.25	5	46,000
16	19.40	.25	6	59,000
18	22.50	.38	15	75,000
20	24.60	.38	11	92,000
24	28.80	.38	13	130,000
30	36.00	.50	29	200,000
36	42.30	.50	35	290,000
42	50.75	.75	98	390,000
48	57.05	.75	111	510,000
54	66.06	1.00	231	650,000
60	70.11	1.00	246	745,000
64	74.17	1.00	261	847,000

*Dimensions and weights of thrust collars furnished by AMERICAN but manufactured by others may vary from those shown in Table 9-11.

**These values are based on dead-end thrust due to 250 psi internal pressure. For higher allowable loads or pressures, check AMERICAN.

Thrust collars may be specified on ductile iron pipe with minimum pressure classes.
Thrust collars will be fabricated from steel.