



* RODDING OF JOINTS IS NOT ALLOWED ON PIPE SECTIONS OF EIGHT (8) FEET OR LONGER.

TABLE 1

Pipe Size	Test Pressure	Minimum number of Tie Rods
10" and less	150 200	2 2
12"	150 200	2 4

- NOTES:
- 1) LOWERING OF THIS TYPE MAY BE RESTRAINED BY MEANS OF THRUST BLOCKING OR BY RODDING OF THE JOINTS OR BY APPROVED MECHANICAL JOINT RESTRAINTS.
 - 2) FOR SIZING INFORMATION OF THRUST BLOCKS REFER TO THRUST BLOCK DETAILS.
 - 3) WHEN RESTRAINING PIPE BY MEANS OF RODDING JOINTS, 3/4" TIE RODS, NUTS, AND WASHERS WILL BE USED AND ARE TO BE MADE OF "COR-TEN" STEEL GRADE #2 AS PER A.S.T.M. A242.

- 4) FOR FURTHER INFORMATION ON RODDING OF JOINTS REFER TO TABLE 1.
- 5) ALL METALLIC PIPE, FITTINGS, AND APPURTENANCES WILL BE WRAPPED IN POLYETHYLENE.
- 6) REQUIREMENTS FOR LARGER THAN 12" DIAMETER PIPE WILL BE DETERMINED ON A CASE BY CASE BASIS.
- 7) IF CONTINUOUS LINE PRESSURE IS GREATER THAN 100 PSI, A COMBINATION OF RODDING/RESTRAINING GLANDS AND THRUST BLOCKS WILL BE REQUIRED.

12" OR SMALLER WATERLINE LOWERING DETAIL FOR UTILITY CROSSINGS

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