



# ROBAR INDUSTRIES LTD.

## SUBMITTAL INFORMATION

### AWWA M-11 HARNESS RESTRAINT

#### USE

To restrain flexible couplings being installed on steel pipelines. The harnesses are supplied in half ring to allow for easy field welding.

#### MATERIALS

Restraint Rings

Two rings are required. One for each steel pipe on either side of the coupling. Rings are carbon steel per ASTM A193.

Tie Rods

Carbon Steel per ASTM A193 Gr B7. Stainless Steel rods available upon request. Twice as many rods are required.

Coating

Supplied bare unless otherwise requested.

#### PRESSURE

Per AWWA M11 manual, working pressures of 50 - 250 PSI are available. These pressures determine the quantity of tie rods and diameter of tie rods

#### SIZES AVAILABLE

14" - 96" for steel pipe. Larger sizes available on request.

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