

ROMAC INDUSTRIES, INC.

AWWA MANUAL M11 HARNES RESTRANT

SUBMITTAL INFORMATION

USE	Joint harnesses specified per AWWAM11, Chapter 13, designed to restrain flexible couplings (style 500 and style 400) on steel pipelines. These harness assemblies are field welded in place.
MATERIALS	
Restraint Rings	This weldment is manufactured from ASTM A 36 Steel with a minimum yield stress of 36,000 psi. Two rings are required, on each side of the coupling.
Tie Rods	High tensile alloy steel per ASTM A 193 grade B7. Type 304 or 316 stainless steel available on request and requires twice as many rods.
Coating	Bare, unless otherwise specified.
PRESSURE	The standard design pressures of 50, 100, 150, 200, and 250 psi are specified in the AWWA M11 manual. These pressures specify the tie rod quantities and diameter. Other pressures can be accommodated.
RING TOLERANCE	The Harness weldment inner diameter (ID) is manufactured with a 3/16 inch (on diameter) clearance between the specified pipe OD up through 24 inch and ¼ inch larger than 24 inch
SIZES	6 inch – 96 inch for steel pipe. Other sizes available on request.