

**CITY OF AKRON, OHIO  
DEPARTMENT OF PUBLIC SERVICE  
WARER SUPPLY BUREAU**

**SPECIFICATIONS FOR STRAIGHT AND TRANSITION COUPLINGS**

**QUALITY**

Couplings shall be best quality workmanship and materials.

**PRIMARY SPECIFICATIONS**

Straight and transition couplings shall be Macro HP as manufactured by Romac Industries, or approved equal. Center and end rings of the couplings shall be ductile iron meeting the latest revision of ASTM specification A536. Couplings shall be coated with fusion-bonded epoxy.

Gaskets shall be virgin SBR rubber meeting the specifications of the latest revision of AWWA specification C111 and ASTM D2000. Nuts and bolts shall be construction grade high strength, low alloy steel, with black finish and coarse rolled thread. Gasket sizes for straight couplings shall be as follows.

<u>Nominal Coupling Size</u>	<u>Range (inches) at each end</u>	<u>Center Ring Lengths</u>
4 inch	4.74 - 5.10	5", 12"
6 inch	6.86 - 7.20	5", 12"
8 inch	8.99 - 9.40	5", 12"
10 inch	10.89 - 11.40	6", 12"
12 inch	13.15 - 13.55	6", 12"
16 inch	17.05 - 17.40	7", 14"
20 inch	21.35 - 21.75	7", 14"

Size and range of the coupling and gasket shall be marked on the coupling and its package for easy identification.

**ALTERNATE SPECIFICATIONS**

As an alternate, vendor may also provide couplings meeting the following specifications. Vendor may bid either or both types of couplings.

Straight and transition couplings shall be Style 2000 couplings as manufactured by Total Piping Solutions. Center and end rings of the couplings shall be carbon steel with a fusion-bonded epoxy coating.

Gaskets shall be EPDM rubber made in two layers that allow the removal of the inner layer to expand the diameter range. Nuts and bolts shall be 304 stainless steel with anti-seize compound. Couplings shall be tightened by one bolt on each end ring. Coupling ranges shall be as follows.

<u>Nominal Coupling Size</u>	<u>Range (inches) at each end</u>
4 inch	4.25 - 5.11
6 inch	6.42 - 7.68
8 inch	8.54 - 9.84
10 inch	10.70 - 12.26
12 inch	12.40 - 13.66
16 inch	17.10 - 19.20
20 inch	21.35 - 21.75

INSTRUCTIONS TO BIDDERS

Bidder shall specify the make of the transition couplings they propose to furnish.