Connecting Flange Joint Between Tapping Sleeves and Tapping Valves

Standard Practice
Developed and Approved by the
Manufacturers Standardization Society of the
Valve and Fittings Industry, Inc.

127 Park Street, NE
Vienna, Virginia 22180
Phone: (703) 281-6613
Fax: (703) 281-6671
e-mail: info@mss-hq.com

MSS

www.mss-hq.com

This MSS Standard Practice was developed under the consensus of the MSS Technical Committee 112 and the MSS Coordinating Committee. The content of this Standard Practice is the result of the efforts of competent and concerned volunteers to provide an effective, clear, and non-exclusive specification that will benefit the industry as a whole. This MSS Standard Practice is intended as a basis for common practice by the manufacturer, the user, and the general public. The existence of an MSS Standard Practice does not in itself preclude the manufacture, sale, or use of products not conforming to the Standard Practice. Mandatory conformance is established only by reference in a code, specification, sales contract, or public law, as applicable.

Substantive changes in this 2004 addition are "flagged" by parallel bars as shown on the margins of this paragraph. The specific detail of the change may be determined by comparing the material flagged with that in the previous edition.

U.S. customary units in this SP are the standard; the metric units are for reference only.

Unless otherwise specifically noted in this MSS SP, any standard referred to herein is identified by the date of issue that was applicable to the referenced standard(s) at the date of issue of this MSS SP. (See Annex A.)

Originally Approved June, 1960

TABLE OF CONTENTS

CONNECTING FLANGE JOINT BETWEEN TAPPING SLEEVES AND TAPPING VALVES

0. PURPOSE

0.1 The purpose of this Standard Practice is to prevent interface and interference problems between tapping sleeves and tapping valves through the use of a positioning recess and mating raised face of the connecting flanges between tapping sleeves and tapping valves. The recess and raised face serve to

1. SCOPE

1.1 This Standard Practice establishes flange and gasket dimensions which define the inerface between tapping sleeves and tapping valves.

1.2 This Standard Practice establishes dimensions for these special connecting flanges and gaskets of nominal sizes from NPS 2 through NPS 60 (DN 50 through DN 1500) for water and sewerage systems.

1.3 This Standard Practice establishes pressure-temperature ratings for the connecting flanges.

2. DEFINITIONS

2.1 ***Joint*** The "interface" or connecting point between sleeves and tapping valves will be abbreviated as "joint" in this SP.

2.2 ***Main*** A pipe used in a water or sewerage system for distribution of water or collection of sewage.

2.3 ***Manufacturer*** The party producing products in accordance with this Standard Practice.

2.4 ***NPS*** Nominal Pipe Size.

2.5 ***Purchaser*** The party entering into a contract or agreement to purchase products manufactured in accordance with this Standard Practice.

a drilling machine) used to cut a hole into an existing pressurized or non-pressurized main through the use of a tapping sleeve and tapping valve used for mounting and positioning the tapping machine with respect to the main. The tapping machine is equipped with a cutter, which extends through the waterway of the tapping valve and branch of the sleeve, to cut the hole into the water main and remove the cut-out piece (coupon) upon retraction of the cutter. The tapping valve can then be closed to seal the branch connection while the tapping machine is removed from the valve.

2.7 ***Tapping Sleeve*** A split fitting which can be assembled onto an existing main to make a branch or "tee" connection to the main, with a tapping valve and tapping machine.

2.8 ***Tapping Valve*** A special gate valve designed with end connections to provide proper alignment and positioning of a tapping sleeve, valve and tapping machine for the tapping operation.

2.9 Other definitions may be found in MSS SP-96.

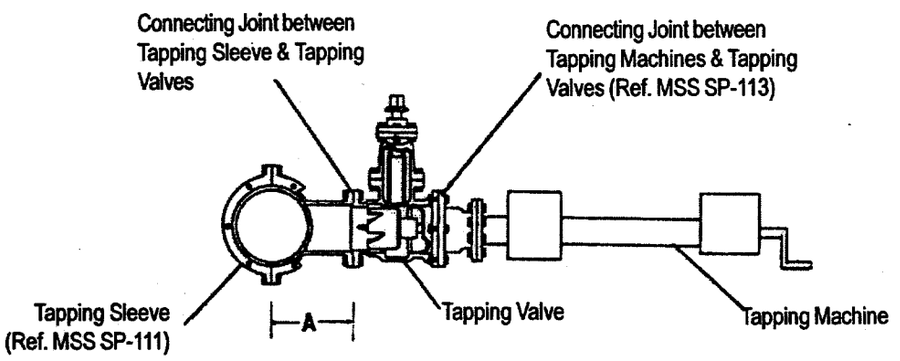

Figure 1 Tapping Components