

## 1 Scope

This Recommended Practice defines nomenclature for tube fittings most commonly used in instrumentation. It is not intended as a substitute for manufacturers' catalog numbers, nor does it apply to special fittings. This Recommended Practice is intended to apply to mechanical flared and flareless tube fittings as commonly used in instrument tubing systems.

## 2 Purpose

The purpose of this Recommended Practice is to aid in the proper specification and application of instrument tube fittings by standardizing nomenclature. Proper use of this Recommended Practice should result in data that

- a) more accurately describes a particular fitting for all interested parties;
- b) permits better communications between manufacturer, vendor, purchaser, and ultimate user;
- c) provides standardized nomenclature to be used by drafting, billing, purchasing, and stores groups; and
- d) makes more clear the use of standardized symbols.

## 3 Definitions

### 3.1 bored through:

a fitting that has the “shoulder” or “tube stop” of the fitting removed.

### 3.2 branch:

the connection of a fitting tee that is in a 90° relation to the other two connections.

### 3.3 bulkhead:

a partition, panel, or bracket through which a fitting is installed.

#### 3.3.1 bulkhead fitting:

a fitting designed with a body, hex, extended threading, and a bulkhead locknut (jam nut) between ports that allows the fitting to be inserted through and secured to a bulkhead.

### 3.4 compression (fitting):

a fitting that achieves a seal without the necessity of flaring the end of the tubing.

### 3.5 ferrule:

a tube fitting component that provides the sealing and/or holding function of the flareless fitting on the tubing.

### 3.6 flared (fitting):

a fitting assembly consisting of a body, nut, and sleeve that is designed to seal by mechanically mating the cone or angular sealing surface area of the body with a similar angular (typically 37°) surface on the inner diameter of the tube end.

### 3.7 flareless (fitting):

a type of compression fitting assembly consisting of a body, nut, and ferrule(s) that is mechanically attached to the outside diameter of the tube, to hold and seal the tube and mating section of the fitting body.