

## INSTRUMENTATION TUBE FITTINGS



### Introduction:-

For high pressure as well as vacuum and other critical applications, the plant designers have no other alternative but to use a most reliable, safe and leakproof pipe connection.

**AK Industries** proven design of its products in the fields of Hydraulics, Pneumatics and Instrumentation assures you of maximum reliability and years of trouble free service under adverse conditions and rigorous operating environment.

**AK Industries** design and manufacture the finest fittings. These fittings are compatible in dimensions to most of the reputed international makes, so designed that interchangeability is possible. The A.K.I double ring connection is a high safety device operating by compression. It avoids threading, soldering, swaging or crimping the tube & permits repaired, easy and reliable connections where dismantlable tubes require perfect tightness, both under pressure and high vacuum levels as well as under severe temperature and vibration conditions.

### Features:-

- Easy assembly and provides leakproof torque free seal at tubing connections.
- Complete interchangeability in the field.
- Vibration and pressure pulses resistant.
- Special thread cuts and nuts silver plating ensures no galling.
- Low assembly torque, no torque transmitted to tubing.
- Higher rated fittings upto 10000 psi optional.

### Construction:-

Constructed out of barstock material in stainless Steel as per ASTM A276 TP 304 And TP 316 construction in other alloys, carbon steel and brass optional .The Fittings are designed for tube sizes: 1/16" to 1" & 4 MM to 25 MM, outside diameter, stud sizes are 1/8" to 1"Npt, API, ISO, Parallel and ISO Taper.

### Application:-

Fittings the most ideal for eliminating costly and hazardous leaks in Instrumentation, Onshore and Offshore, Chemical, Petrochemical, Nuclear and Process Tubing.

Suitable for use in corrosive atmosphere, high temperature, ultra clean and vacuum applications.

## INSTRUMENTATION PIPE FITTINGS



### Introduction:-

**AK Industries** Instrument Pipe Fittings are machined from bar stock and forgings. The Fitting's are design as per highest quality and standard to be used for process control and instrumentation connections between pipe size and tube size.

### Features:-

- Available as per ANSIB 310.1 Power Piping Code, ANSI 31.3 Chemical and Petroleum Refinery Piping Code.
- Size ranges from 1/8" To 2" NPT Tapered pipe Thread, ISO Parallel Threads.
- All Male Threads are rolled for extra strength.
- Protective and caps prevent damage to exposed threads.

### Construction:-

SS-316, SS-304, Forgings-ASTMA, 182, and Bar Stock-ASTMA-479

## FLARELESS BITE TYPE FITTINGS.



### Introduction:-

**A.K.Industries** Offers complete range of hydraulic bite type fittings with latest design progressive ferrule for total leak-Proof Performance. Application : Pneumatic and Hydraulic application in machine tools, process industries and instrumentation.

### Features:-

- Material : Steel IS 226 Phosphate, Brass, SS304, 316.
- Size Range : 4mm OD to 50 MM OD and in Inches 1/8" OD to 2" OD and 2" NB Sizes.
- Pressures : Up to 10000 PSI.

### Construction:-

Pneumatic and Hydraulic application in machine tools, process industries and instrumentation.

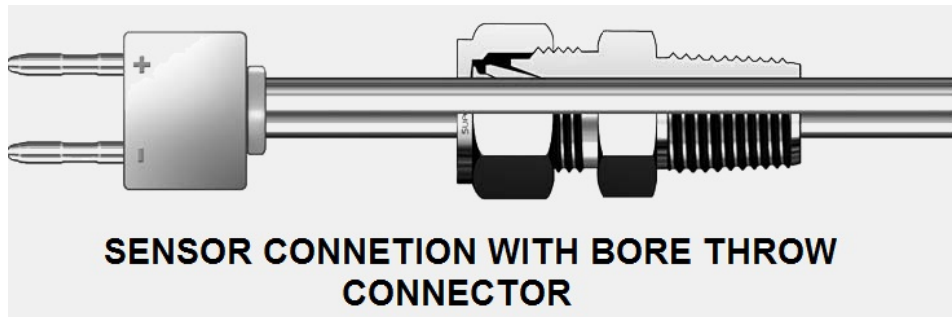
## **BORE THROW FITTINGS**



AKI - BORE THROW FITTINGS  
SIZE 1/16" TO 1"



Bore throw connector with  
thermowell



**SENSOR CONNETION WITH BORE THROW  
CONNECTOR**

### **Introduction:-**

AKI IS SPECIALIZED IN MANUFACTURING BORE THROE FITTINGS FOR TEMPERATURE SENSOR HOLDING.WITH MONTHLY PRODUCTION CAPACITY OF 30,000 TO 40,000 NOS AKI HAS COMPLETE SEVERAL BIG ORDERS FOR BORE THROW FITTINGS AROUND THE WORLD . WITH PRECISION DRILLING MACHINE AND TECHNOLOGY AKI IS SUCCESSFUL IN MANUFACTURING 1/16" BORE THROE FITTINGS ALSO WITH GREAT ACCURACY AND QUALITY CONTROL. ALL FITTINGS ARE WITH NUT AND FERRULES

### **Size:-**

1/16" TUBE CONNECTION TO 1" TUBE CONNECTION

THREADING – NPT, BSP, BSPT, METRIC ETC.

THREADING CAN BE CHANGED AS PER CUSTOMERS REQUIREMENT

### **Customized:-**

AS PER VERIOUS NEW TRENDS AND REQUIREMENT, WE MANUFACTURE BORE THROW FITTINGS AS PER CUSTOMER REQUIREMENT ALSO.

### **Example:-**

1/16" X 3/4"NPT BORE THROW FITTINGS (WITH FINE 1 MM DRILL)