

AN ISO 9001:2008 CERTIFIED COMPANY



Quality that inspire  
Customer Satisfaction



**Mcneil**  
Instruments Inc.

[www.mcneilinstruments.com](http://www.mcneilinstruments.com)



# COMPANY PROFILE



Mcneil Instruments Inc. was found by a group of experienced specialists having 37 years of expertise in product development, designing, production, management and quality control. As professional and specialist we are engaged in manufacturing and exporting of Instrumentations Fitting, Manifold Valves, Condensate POT, Air Header, Pipe Clamps, Syphon, Copper Tube Coil, QRC, Snubber, Pipe Fittings. as per standard specification or as per client drawing.

We have made our presence felt worldwide having operating network across the Globe. We has been serving the many industry in **Piping, Petroleum & Refinery, Oil & Gas, Oilfield, Chemical, Power Plant ,Cement, Pharmaceuticals, Turbines, Shipbuilding, Navals, Aerospace** for Current, New and Upcoming Projects in domestic and global market.

## Quality Policy

A system comprises the way of Quality Control to be followed during each process of Instrumentations Fitting, Manifold Valves, Condensate POT, Air Header, Pipe Clamps, Syphon, Copper Tube Coil, QRC, Snubber, Pipe Fittings so that an audit mechanism is introduced during manufacturing itself to produce a product meeting the requirements of desired codes & specifications. **Each of our products are 100% Factory tested.**

Our highly knowledgeable and experienced technical & sales team works together to make sure you get the right product, the first time, every time and fast as per requirements

Please give us opportunities to serve you best with excellent quality of material by sending your all valuable enquiries. We shall appreciated your quick response to establish and mutually beneficial business Relationship with your esteemed organization.







## Instrumentation Tube Fittings

Mcneil Instruments Inc Double Ferrule Compression Tube Fittings have been carefully designed and manufactured to close tolerances to provide leak-free performance in Instrumentation, process tubing etc. Mcneil Instruments Inc Double Ferrule Tube Fittings are approved to type ECE R110, ISO 1500, ASTM F1387-99 (2005), BS4368 part 4:1984, and Helium Leak Test. These Certificates confirms that Mcneil Instruments Inc Double Ferrule meets the International specifications requirements for high quality products ensuring maximum reliability, consistency, safety and high performance.

### FEATURES

- Available in SS316, SS304, Brass
- Heat Code Traceable to certified material test reports

- Low torque assembly
- Internally silver plated nuts
- Positive leak-free seal
- Peak of back ferrules are case hardened
- Variety of end connections
- Available Fractional Size :1/8" to 1 1/2" Tube OD

**Metric Size :** 3mm to 38mm Tube OD

- Stainless Steel Front Ferrule size above 25mm at 1" ODT O are PFA coated, Silver plated for application above 232 C, add "HT" to the basic part number for high temperature

### OPERATING PARAMETERS

Pressure Rating : upto 10000 psig (Depending on size)

Temperature Rating : upto 426 C

## Manifold Valve

### 2 – Way Manifold Valves

2 valve manifolds are designed for direct mounting. Having simple two valves configuration for easy block or isolate, bleed or vent valve calibration of a static pressure transmitter or gauge supplied with premium quality of raw materials as per standards like BIS, ASTM etc. Designed for static pressure, liquid level applications and remote or separate mounting, 2 valve manifolds are available with NPT, BSPT, socket weld end connections.

**Material of Construction:** SS316, SS304, CS, Hastelloy, Monel etc

### 3 – Way Manifold Valves

3 – Way Manifold Valves 3 valve manifolds is for 2 isolate & 1 equalizer valve for equalizing the high pressure & low pressure lines.

3 Valve Manifold are Designed for remote or separate mounting connecting impulse lines or transmitters or flow records to impulse line tubing & are supplied with standards like BIS, BS and more. These valves find their application in various industries like chemical, petrochemical, oil & Gas and many more.

**Material of Construction:** SS316, SS304, CS, Hastelloy, Monel etc.

### 5 – Way Manifold Valves

5 valve manifolds consists of 2 isolate, 2 drain & 1 equalizer valves. 5 valve manifolds are designed for remote or separate mounting. Connecting from process side 1/2" NPT(F) and Instrument side 1/2" NPT(F) Connecting system impulse lines and transmitters, having simple five valves configuration which allows for easy two block or Isolate, two, one Bleed or Vent valve calibration of a static pressure transmitter or gauge Screwed bonnet design.

Spindle tip-Non rotating tip shut off type - soft seated. Dust cap protects stem threads from externals contamination. Leak tight seal with low operating torque. Stem threads cold rolled to achieve maximum strength & high accuracy. Packing below the stem threads, prevents stem lubrication washout & isolate threads from system fluids. The stem is anti blow out a major safety feature. S.S. Lock pin adjacent to the hexagon bonnet prevents any unscrewing of the head unit. Each Valve is 100% tested at required pressure to ensure leak tightness at Seat, Shell & Gland.



## Condensate Pot

Condensate POT / Seal POT is a section of pipe (4inch in diameter) installed horizontally at the orifice flange union to provide a large -area surge surface for movement of the impulse line fluid with instrument element position change. It is used to reduce measurement error for hydrostatic head difference in the impulse lines.

Material	Shell	Cap	Pipe Schedule	Test Pressure
Carbon Steel	A-106	A-105	Sch.40	80 Kg / Cm2
			Sch.80	125 Kg / Cm2
			Sch.160	125 Kg / Cm2
Stainless Steel	SS304	SS304	Sch.40	90 Kg / Cm2
			Sch.80	150 Kg / Cm2
			Sch.160	NA
Stainless Steel	SS316	Ss316	Sch.40	90 Kg / Cm2
			Sch.80	150 Kg / Cm2
			Sch.160	NA
Alloy Steel	A-335	A-182	Sch.40	NA
	A-12	F-12	Sch.80	125 Kg / Cm2
			Sch.160	210 Kg / Cm2
Alloy Steel	A-335	A-182	Sch.40	NA
	A-12	A-12	Sch.80	125 Kg / Cm2
			Sch.160	210 Kg / Cm2

## Air Header

Mcneil Headers are fabricated as per customer requirement using high pressure Ball Valves / Needle Valves in Seamless Pipes or in Bar Stock, the Air Headers are used for Instrumentation or for Pneumatic applications.

These Headers can also be used for lower Pressure Applications. They are available upto 2 \* 12 outlets with equal spacing and are priced competitively.

M.O.C : SS316, SS304 & Carbon Steel





## Pipe Clamps

### Item Code : PCL

Standard Series or light series pipe clamps are normally used for general purpose. These pipe clamps are price effective and used widely for general application.

#### These pipe clamps are supplied as:

- Individual Pipe Clamp with welding plate,
- Individual Pipe Clamp without welding plates
- Multilayer construction
- Rail nuts construction

#### Material and Design of Clamp Body:

- Polypropylene: Colour Green.
- Polyamide: Colour Black
- Thermoplastic Elastomer: Colour Black
- Aluminum: Colour Natural.

Alternative materials and colours in addition to the above stated standard is available upon request.

#### Features

- Designed as per DIN-3015 part-1
- Standard Pipe - Tube clamps available in Plastic Polypropylene and Polyimide , Aluminum clamp bodies with Steel / S.S. plates & bolts
- W.P. range up to 1500 PSI (100 BAR) for application in Steel / stainless steel piping system

#### Materials and surface finishing of metal parts

- Carbon Steel Trivalent or Yellow zinc plated (Standard Trivalent plated)
- Carbon Steel Phosphated
- Stainless Steel – SS 304 or SS 303
- Stainless Steel – SS 316

## Syphon

Mcneil Syphons can be used to protect instruments from higher temperature & direct contact of live medium with instruments. These are manufactured in carbon Steel, Stainless Steel & Alloy Steel with butt weld or Threaded Ports.

M.O.C : SS304, SS316, Carbon Steel and P22

End Connection : Male / Female Threaded, Butt Weld & Socket Weld

Rating : Up to 400 Kg



## Copper Tube Coil

Since our inception, we are instrumental in manufacturing and supplying premium quality Copper Tube Coil that is used in the design of air conditioning & refrigeration appliances. Offered tube coil is manufactured using high quality copper. We offer this tube coil with PVC coating in thickness of 0.5 mm – 1.5 mm in diverse colors, can withstand up to 110° Celsius. This tube coil is known for its high strength and durability.

### Product Description:

The recent years have seen a very steady rise in the growth of copper tube consumption in the air-conditioning and refrigeration systems due to the inherent properties of copper and its abilities to meet the needs of the ACR Industry. Pancake Copper Coils, that we offer, are typically used in the installation of air conditioning and refrigerating systems. Pancake Copper Coils are also used in the manufacturing of air conditioning & refrigeration appliances by the Original Equipment Manufacturers (OEM). We provide these coils in bright annealed form with a mirror finish. Our Pancake Copper Coils are provided in two forms: either one layer coils or two layers coils.

## QRC

### Quick Release Couplings :

Quick couplings are devices which permit easy, immediate connections and separation of fluid and pneumatic lines. When installed in a system quick couplings saves time by eliminating the necessity to close valves, bleed the system, recharge with fluid and purge entrapped air whenever an accessory is being replaced.

**Material of Constructions:** 1) Carbon Steel 2) Stainless Steel 3) Brass.

Selection of QRC - Functions or Need, Pressure Requirement, Type of coupling, Pipe and Thread size, Flow Characteristics Material, Seal, End Connections

The Pancake Copper Coils enable easy & economical packaging and transportation of the copper tubes.

The atmospheric controlled environment furnace is also specially designed and equipped to maintain the Pancake Copper Coils' shape as it is annealed, reducing any coil distortion.

We also provide Pancake Copper Coils with PVC coating. The PVC coating can withstand high temperatures (up to 110° Celsius), whilst at the same time remains elastic and bendable in temperatures below zero (up to -60 ° Celsius). PVC coating is provided in thickness of 0.5 mm – 1.5 mm in various colors. We can also provide the PVC coated coils duly printed with the texts and images as required by the customers.

### Specifications:

**Outer Diameter :** 4.76 MM to 19.05 MM

**Wall Thickness :** 0.50 MM to 1.62 MM

**Unit Length :** As per order (STD. Length of 15.25 M)

**Temper :** O (Soft Annealed)

### Types Of Coupling :

Three general types of quick couplings commonly recognized are:

1. One way check valve coupling
2. Two way check valve coupling
3. Straight through coupling.
4. Tube Couplings





## Snubber

The adjustable pressure gauge snubber draw a unique taper. pin / Orifice design for high range of damping. The damping can be adjusted the fluid and the pulsation.

**Test Pressure :-** 25 deg Room temperature.

**Pneumatic :-** Body - 420 kg / cm<sup>2</sup>

**Gland Seal :-** Buna "N", VITON, PTFE

**Material :-** A105, A276 SS304, A276 Ss316 Monel

**Finish :-** CS zinc plated and dichromated

**SS -** Natural

## Pipe Fittings

We are engaged in manufacturing and exporting wide range of Butt Weld Fitting that is available in varied types & grades sourced from reliable vendors, these fittings are highly acknowledged for their high tensile strength, durability and accurate alloy composition. These find application in several industries such oil & gas, automobile, acid & chemical, pharmaceutical and cement industries. We are known for our butt weld fittings.

**Stainless Steel** : ASTM A403, WP304,304L,304H,316, 316L,317,317L,321,310,347,904L

**Carbon Steel** : ASTM A234 WPB,A420 WPL3,A420 WPL6, MSS-SP-75 WPHY 42/46/52

**Alloy Steel** : ASTM A234WP1,WP5,WP9,WP11,WP22

**Size** : 1/4" NB TO 24" NB (seamless)  
4" NB TO 72" NB (welded)

**Wall Thickness** : Sch. 5s To Sch. XXS

### TYPE OF BUTTWELD FITTINGS

- TEE (EQUAL /UNEQUAL)
- REDUCING TEE
- SHORT STUB BEND
- RETURN BENDS
- CAP
- ELBOW (1D/1.5D/3D/5D)
- LONG STUB BEND
- REDUCER (CONCENTRIC/ECCENTRIC)
- MITER BENDS

**Duplex & Super Duplex:** UNS S31803, UNS S32750, UNS S32760

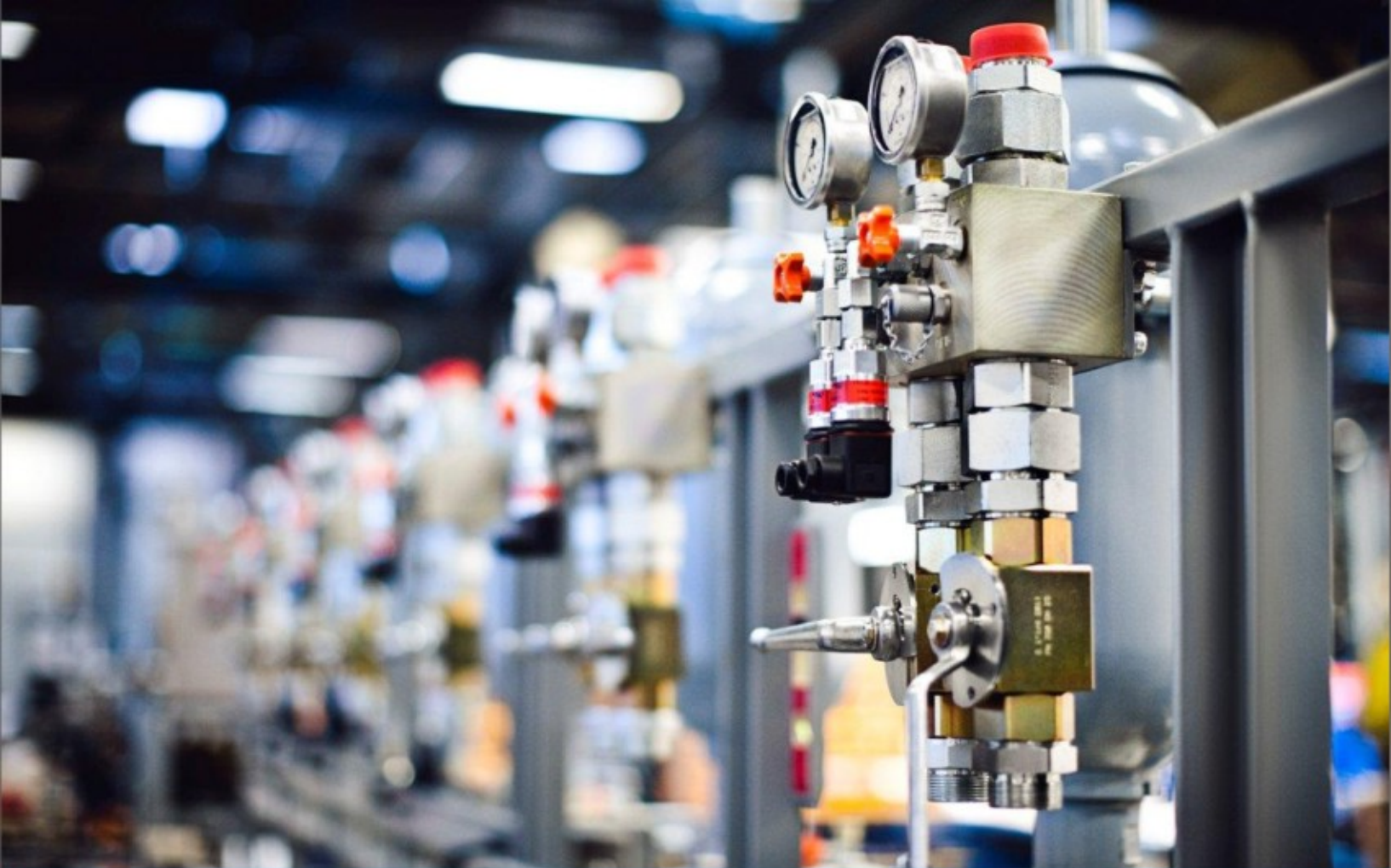
**Hastelloy Alloy** : ASTM B366 Hastelloy B2, Hastelloy C276 Hastelloy C22

**Incoloy Alloys** : ASTM B366 Alloy 20, Alloy 800H/800HT, Alloy 825, Alloy A286

**Inconel Alloys** : ASTM B366 Alloy 600, Alloy 601, Alloy 625, Alloy 718, Alloy 725,

**Monel Alloys** : ASTM B366 Monel 400, Monel K500.

**Copper Brass** : CuNi 90 : 10 & 70 : 30



**Corporate ( Registered Office)**

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