

# Instrumentation Hardware



**TubeFit ENGINEERS**

Unit # 2 & 3, Swamini Industrial Estate II,  
Opp Varun Industries, Waliv, Vasai (East),  
Dist. Thane - 401 208, INDIA

Tel: +91-250-2453813 / 2453814 / 6453429

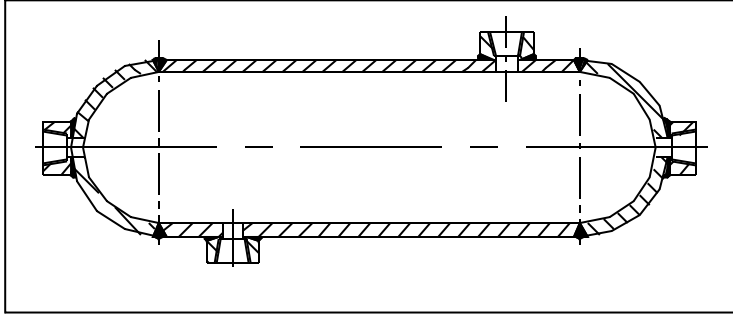
Fax: +91-250-2453651

Email : sales@tubefiteng.com

Website: <http://www.tubefiteng.com>



## CONDENSATE POT - (Model-CP)



### - CONDENSATE POT

Condensate is steam that has been condensed back into water. Condensate should not be confused with demineralized, de-ionized, make up, or softened water. When the condensate enters the boiler feed pump additional chemicals are added and the product is now called boiler feed water.

### FEATURES

- Use as liquid or condensate traps, seal pots, vapor chambers and knockout pots.
- All connectors are furnished with plastic plugs.
- Chambers are made from seamless carbon steel pipe and weld caps. All pipe connections are 3000# half-couplings mounted on 90 Degree angle. Extra connections can be furnished upon customer request.
- Heat code traceability
- All welding as per ASME SEC. IX
- All buttweld joints will be 100% radiographed and fillet weld will be D.P. tested.
- All material will have mother test certificates.
- All condensate pot will be hot dip galvanized.
- All threads will be protected with dead plugs / plastic caps.
- Piping code compliance ASME B31.1 and PED category I, Module - A.

### - TECHNICAL SPECIFICATIONS

- Size : pipe size 2",3",4" and larger size upon request.
- Length : Pipe length 8",10",12" and larger length upon request.
- Working pressure : 6000 Psig (413 Bar)
- Material of construction : SS 316, SS 304, C.S.,  
ASTM A 106 Gr B
- Optional Sour Gas service valves are available confirming to NACE Std. MR - 01 - 75
- Pipe Schedule : 40, 80, 160, XX seamless pipe.
- Chamber as per ISA RP3
- NPT as per ANSI B2.1 taper pipe thread 1/2" furnished.
- Socketweld as per ANSI B16.11
- Buttweld as per ANSI B16.9
- All chamber are 100% Factory tested prior to shipment.

### - APPLICATION

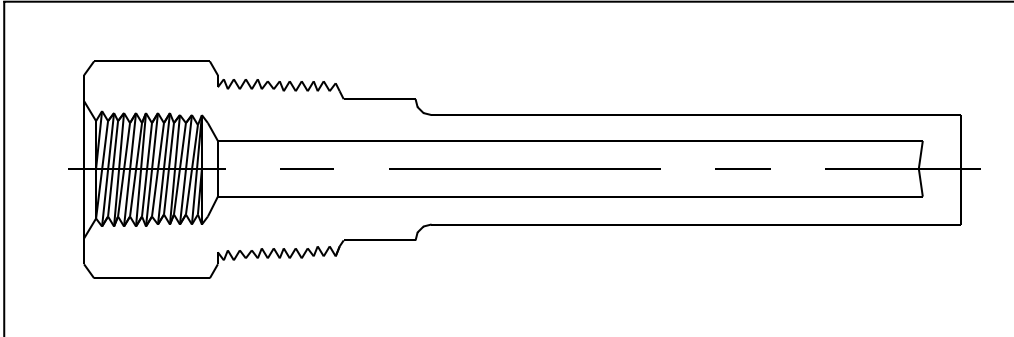
- Refineries, liquid petroleum gas processing plant, petro-chemical plants, systems difficult to shut off due to solid contents dust, rust, dirt etc.

### - TESTING

- Hydrostatic shell test is performed at 1.5 times the working pressure.



## THERMOWELL - (Model - TH)



### - THERMOWELL

Thermowell is a stainless steel unit, used in conjunction with the Stationary Sensor, Stationary Striker Sensor, or Exhaust Gas Temperature Sensor. Thermowell unit houses the fuse-metal end of the device, adapting it to be used where the temperature of oil, water, gas or other elements is to be monitored. Typical applications are fuel gas headers, oil sumps, water systems and natural gas headers.

### FEATURES

#### - TECHNICAL SPECIFICATIONS

Types of Thermowell	connection	Element	Sensor length
Threaded type	Pipe thread 1/2", 3/4", 1" NPT	1/4", 3/8"	4", 6", 9", 12", 15", 18", 24"
Flanged type	Flange size 1-1/2" & smaller	1/4", 3/8"	4", 6", 9", 12", 15", 18", 24"
Sanitary weld-in type	Out side dia 1-3/8", 1-1/2"	1/4", 3/8"	4", 6", 9", 12", 15", 18", 24"
Socketweld type	Pipe Size 3/4", 1"	1/4", 3/8"	4", 6", 9", 12", 15", 18", 24"
weld-in type	Pipe Size 3/4", 1"	1/4", 3/8"	4", 6", 9", 12", 15", 18", 24"

- Working pressure : 3000 Psig (200 Bar)
- Material of construction : SS 316, SS 304, Brass

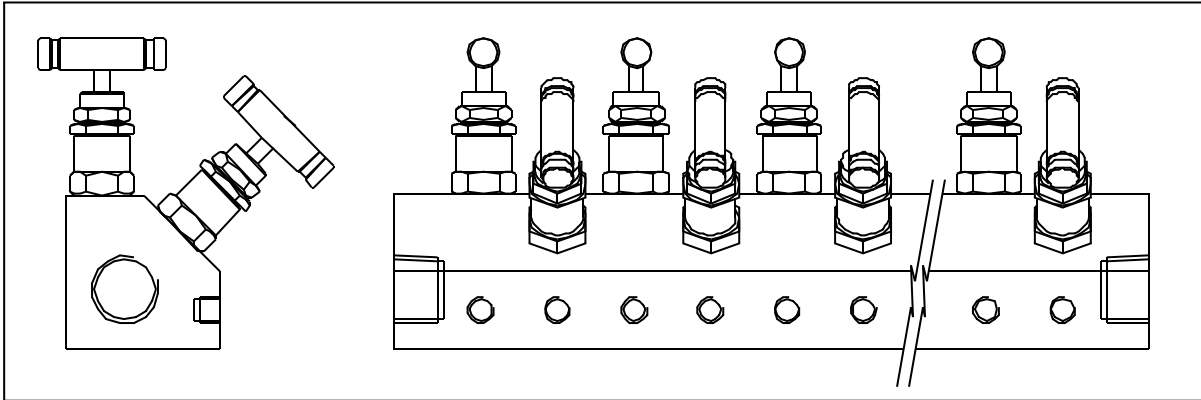
#### - APPLICATION

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## AIR HEADER DISTRIBUTOR

### Bar Stock Air Header Distributor-(Model-BSAH)



**BONNET DETAIL**

S.NO.	DESCRIPTION	QTY.	MATERIAL
1	BODY	1	SS 316
2	BONNET	1	SS 316
3	BONNET PUSHER	1	SS 316
4	STEM	1	SS 316
5	WASHER	1	SS 316
6	PACKING	1	PTFE
7	BONNET SEAL	1	PTFE
8	CHECK NUT	1	SS 316
9	DUST CAP	1	LDPE
10	GRUB SCREW	1	CS
11	HANDLE	1	SS 304

## FEATURES

### - BAR STOCK AIR HEADER DISTRIBUTOR

- Bar stock air header distributor. Connecting Inlet 1/2"NPT(F) & Out let 1/2"NPT(F), Drain or Vent 1/4" NPT(F), 1/8"NPT(F) , Nos. of valves upto 20
- Heat code traceability
- Approximate weight : 0.00 Kg (0.00 Lbs.).

- Material of construction : SS 316, SS 304, C.S.
- Optional Sour Gas service valves are available confirming to NACE Std. MR - 01 - 75
- Stem packing : PTFE, Grafoil.
- Orifice : Dia. 4.7
- All manifolds are 100% Factory tested prior to shipment.

### - BONNET ASSEMBLY

- Screwed bonnet design.
- Bonnet-back seated blow out proof.
- Spindle - Ground and thread rolled.
- Spindle tip-Non rotating tip shut off type -stellite, Regulating-stellite .
- Bonnet pusher - silver plated for anti galling freezing for increased stem cycle life.
- Dust cap protects stem threads from externals contamination.
- Leak tight seal with low operating torque.

### - APPLICATION

- Refineries, liquid petroleum gas processing plant, petro-chemical plants, systems difficult to shur off due to solid contents dust, rust, dirt etc.

### - TESTING

- Pneumatic Seat test is performed at 1/4 of working pressure.
- Hydrostatic shell test is performed at 1.5 times the working pressure.

### - TECHNICAL SPECIFICATIONS

- Size : 1/2" Inlet x 1/2" Outlet,  
3/4" Inlet x 3/4" Outlet
- End connection : NPT,BSPT,Socket weld.
- Working Pressure : 6000 Psi (413 Bar)
- Temperature Rating : PTFE 450 Deg. F (232 Deg.C)  
Grafoil 700 Deg. F (371 Deg. C)

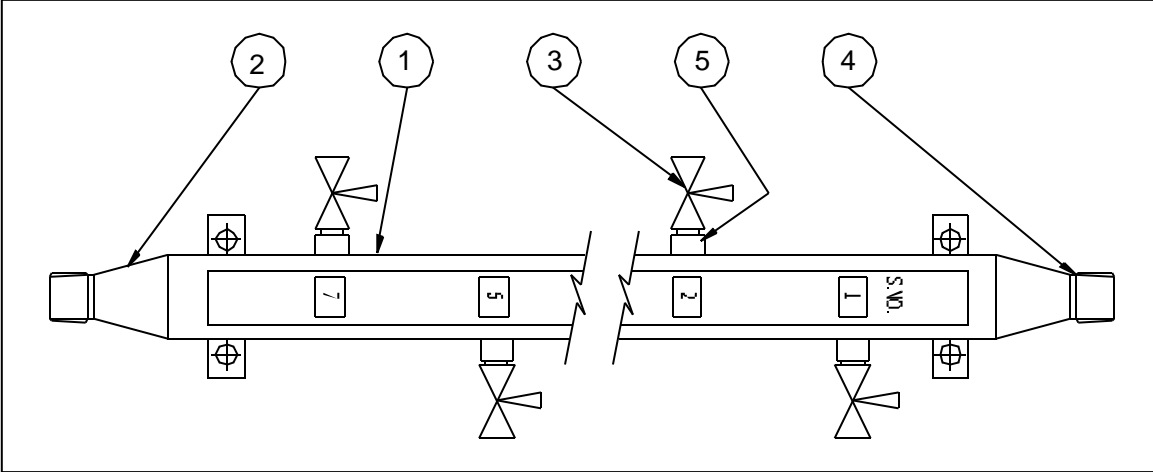
### - LUBRICATION

- Dye molly sulphide



## AIR HEADER DISTRIBUTOR

### Pipe Air Header Distributor-(Model-PFAH)



S.NO.	DESCRIPTION	QTY.	MATERIAL
1	PIPE	1	SS 316
2	REDUCER	2	SS 316
3	NEEDLE VALVE	As req.	SS 316
4	NIPPLE	2	SS 316
5	NIPPLE	As req.	SS 316

### **FEATURES**

#### **- PIPE AIR HEADER DISTRIBUTOR**

- Pipe air header distributor. Connects pipe to pipe or flange to flange Drain / Vent connection & 1/4" NPT, 1/2"NPT on either side of pipe.
- Heat code traceability
- Approximate weight : 0.00 Kg (0.00 Lbs.).

- Material of construction : SS 316, SS 304, C.S.
- Optional Sour Gas service valves are available confirming to NACE Std. MR - 01 - 75
- Stem packing : PTFE, Grafoil.
- Orifice : Dia. 4.7
- All valves are 100% Factory tested prior to shipment.

#### **- BONNET ASSEMBLY**

- Screwed bonnet design.
- Bonnet-back seated blow out proof.
- Spindle - Ground and thread rolled.
- Spindle tip-Non rotating tip shut off type -stellited, Regulating-stellited.
- Bonnet pusher - silver plated for anti galling freezing for increased stem cycle life.
- Dust cap protects stem threads from -externals contamination.
- Leak tight seal with low operating torque.

#### **- APPLICATION**

- Refineries, liquid petroleum gas processing plant, petro-chemical plants, systems difficult to shur off due to solid contents dust, rust, dirt etc.

#### **- TESTING**

- Pneumatic Seat test is performed at 1/4 of working pressure.
- Hydrostatic shell test is performed at 1.5 times the working pressure.

#### **- LUBRICATION**

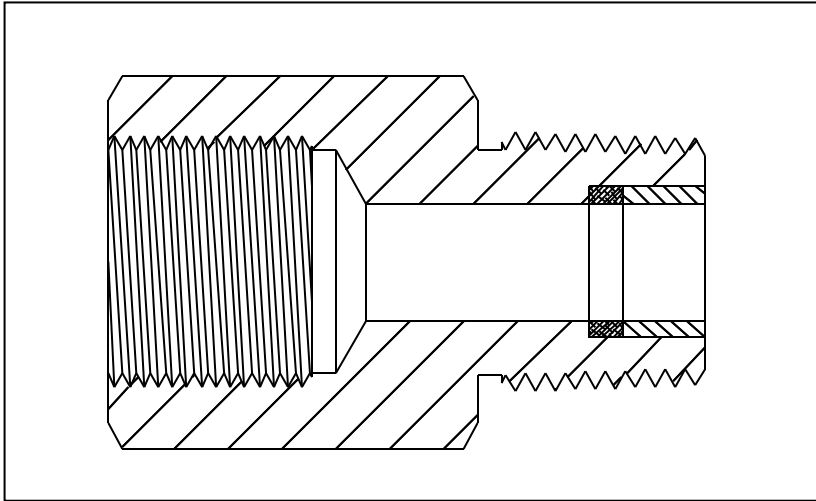
- Dye molly sulphide

#### **- TECHNICAL SPECIFICATIONS**

- Size : 1/2", 3/4", 1" NPT AND FLANGE.
- End connection : NPT,BSPT,Socket weld.
- Working Pressure : 6000 Psi (413 Bar)
- Temperature Rating : PTFE 450 Deg. F (232 Deg.C)  
Grafoil 700 Deg. F (371 Deg. C)



## GAUGE SNUBBER-(Model-GS)



### **FEATURES**

#### **-GAUGE SNUBBER**

- Gauge Snubber fittings protects pressure gauges and instruments from system pressure surges and shock. Pressure damping (snubbing) is accomplished through the use of a porous sintered SS 316 element.

When snubber is installed up stream from a pressure instruments , the response rate of the instrument is reduced and generally varies with the initial pressure drop across the porous metal element, and allows the instrument to smoothly come to line pressure.

- Heat code traceability

#### **- TECHNICAL SPECIFICATIONS**

- Size : 1/4"F x 1/4"M
- 1/2"F x 1/2"M
- 1/4"F x 1/8"M
- 1/2"F x 1/4"M
- 1/2"F x 3/8"M

- End Connection : NPT, BSP, BSPT,

or as per customer requirement.

- Working pressure : 5000 Psi (344Bar)
- Temperature Rating :BRASS 400 Deg F (204 Deg C)  
SS 316 1000 Deg F (538 Deg C)
- Material of construction : SS 316, SS 304, Brass, Monel
- Optional Sour Gas service valves are available confirming to NACE Std. MR - 01 - 75
- All Snubbers are 100% Factory tested prior to shipment.

#### **- APPLICATION**

- Refineries, liquid patroleum gas processing plant, petro-chemical plants, systems difficult to shur off due to solid contents dust, rust, dirt etc.

#### **- TESTING**

- Pneumatic Seat test is performed at 1/4 of working pressure.
- Hydrostatic shell test is performed at 1.5 times the working pressure.