

OUR WIDE RANGE OF

Tiger[®]



Sure Connections for Safety Lines

- ❖ BALL VALVES
- ❖ NEEDLE VALVES
- ❖ MANIFOLD VALVES
- ❖ TUBE FITTINGS
- ❖ PIPE FITTINGS

Swastik
Engineering Works



Company Brief

Swastik Engineering Works are maintaining high quality products with the brand name of **Tiger**[®] manufacturing various types of instrumentation hardware fittings. With more than three decades experience, we believe in continuously improving our products and services. So that customers requirements for safety and performance are satisfied under the brand name of **Tiger**[®].

The reputation we enjoy for the excellence of design, material and workmanship of our product is the result of hard labour and careful study of the exact requirement of the various industries in the class of goods in which we are working. **Tiger**[®] Valves & Fittings are designed to withstand high-pressure service and are capable to satisfy various stringent tests like Pressure impulse, Vibration test, Vacuum test, Temperature cycle test, make & Remake test etc. as per BS 4368 Part IV at our in house testing facilities. The above tests have been periodically witnessed by various inspection agencies / consultants like, EIL, DNV, LRIS, BVQI, ONGC, BARC, BHEL, TOYO to name few.

In today modern world, applications are wide and that include Nuclear Power Plants, Refineries, Petrochemicals, Fertilizers, Thermal Power stations and may more and to meet their specific requirements, we are always trying to improve quality of the products with quality consciousness. We shall, at all time welcome a suggestion from any customer present or prospective, who could help us in bringing our products to their fullest satisfaction to give **Tiger**[®] valves the stamp of guarantee. **Tiger**[®] Fittings and Valves are available in variety of construction material ranging from SS (low carbon also), C.S. Monel, and Brass material are tested at reputed Government approved laboratories confirming to ASTM, ANSI, IS etc. standards.



CONDENSATE POT

Description

Tiger Brand CPOTS are specially designed to catch hold condensate and foreign material. Thus, preventing damage to the metering systems and manifolds. These are custom manufactured as per Client's and Project applications. CPOTS are available in a variety of materials and finishes. Standard pipe sizes are 2" to 4" and a variety of fittings and connections can be provided.

Features

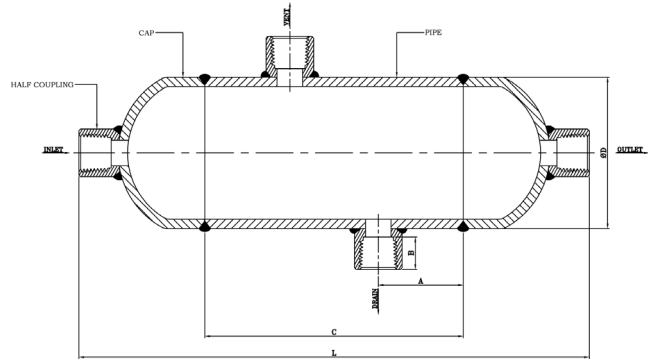
- Condensate Pots are used in the measurement of steam and other vapors which condensate to liquid state at ambient temperature.
- Condensate Pots are available in a range of materials and are designed in accordance to ASME SEC VIII Div I.
- Welding as per ASME SEC IX.
- Various types of Coating used to avoid corrosion.
- Pipe Length up to 10 inch, more length is available on request.
- Hydraulic Test Pressure: up to 150 Kg/Cm².
- Pneumatic Test Pressure: up to 40 Kg/Cm².
- IBR Form III C will be available on request.
- NDT (Non Destructive Test) available on request.
- Standards Followed: ASME B36.10/36.19/B16.9/B16.11.
- Marking and Identification as per MSS-SP-25.

CONDENSATE POT



Condensate Pot, Threaded

Product Drawing



It is used in measurement of steam and other vapors. (Special requirements available on request)

Product Dimension Table

INCH						
Part No.	Size	A	B	E	J	H
CP3NB	3"	50	19	150	88.9	300.0
CP4NB	4"	50.0	19.0	150.0	114.3	300.0

DIMENSIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE

AIR HEADER

Description

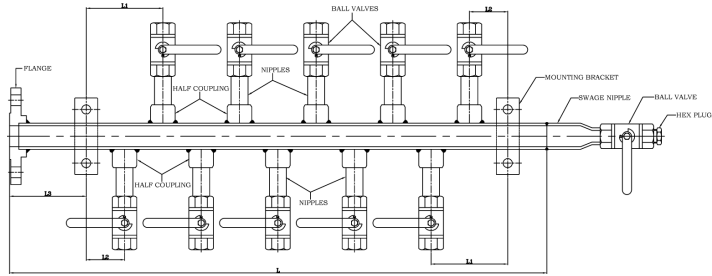
Tiger Brand Air Headers are specially designed for delivering air or utility to multiple take off points. These are custom manufactured as per client's requirement for material, number of outlets and valve configurations. The **Tiger** Air Header can be provided with mounting bracket.

Features

- Available in a variety of end connections.
- Various types of valves provided as per your requirement.
- Bolting devices will be provided by us.
- Various types of Coating used to avoid corrosion.
- Designed as per ASME SEC VIII Div I.
- Fabrication and Welding as per ASME SEC IX.
- Hydraulic Test Pressure: up to 40 Kg/Cm².
- Pneumatic Test Pressure: up to 100 Kg/Cm².
- Weld Joints are Argon welded by qualified welders.
- WPS for approval are done as per Client's request.
- NDT (Non Destructive Test) available on request.
- Standards Followed: ASME B36.10/36.19/B16.9/B16.11.
- Marking and Identification as per MSS-SP-25.

Air Header

Product Drawing



It is used for delivering multiple take offs. (Special requirements available on request)

Product Dimension Table

INCH					
Part No.	Size	L	L1	L2	L3
10WAH	1"	700.0	100.0	50.0	100.0

DIMENSIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE

ASME (AMERICAN SOCIETY OF MECHANICAL ENGINEERS)

- ASME B31.1: Power Piping.
- ASME B31.3: Process Piping.
- ASME B1.1: Unified Inch Screw Threads.
- ASME B1.20.1: Pipe Threads, General Purpose (Inch).
- ASME B16.5: Piping Flanges and Flanged Fittings.
- ASME B16.9: Factory Made Wrought Steel Butt Welding Fittings.
- ASME B16.10: Face to Face and End to End dimensions of Valves.
- ASME B16.11: Forged Fittings, Socket Welding and Threaded.
- ASME B16.20: Metallic Gasket for Pipe Flanges-Ring Type Joint, Spiral Wound and Jacketed.
- ASME B16.21: Non Metallic Gaskets for Pipe Flanges.
- ASME B16.25: Butt Welding Ends.
- ASME B16.34: Valves-Flanged, Threaded and Welding End.
- ASME B18.2.1: Square and Hex. Bolts and Screws. (Inch Series)
- ASME B18.2.2: Square and Hex. Nuts. (Inch Series)
- ASME B36.10: Welded and Seamless Wrought Steel Pipe.
- ASME B36.19: Stainless Steel Pipe.
- ASME B46.1: Surface Texture. (Surface Roughness, Waviness and Lay)

AMERICAN BOILER AND PRESSURE VESSEL CODE

- ASME Section VIII: Rules for Construction of Pressure Vessels.
- ASME Section IX: Qualification Standard for Welding and Brazing Procedures, Welders, Brazers and Welding and Brazing Operators.

API (AMERICAN PETROLEUM INSTITUTE)

- API 5L: Specification for Line Pipe.
- API 598: Valve Inspection and Testing.
- API 600: Steel Gate Valves-Flanged and Butt Welding Ends and Bolted Bonnets.
- API 602: Steel Gate, Globe and Check Valves for Size NPS 4 (DN100) and Smaller for Petroleum and Natural Gas Industries.
- API 608: Metal Ball Valves-Flanged, Threaded and Welding End.

BS (BRITISH STANDARD)

- BS 1873: Steel Globe and Globe Stop and Check Valves (Flanged and Butt Welding Ends) for Petroleum, Petrochemical and Allied Industries
- BS EN ISO 17292: Metal Ball Valves for Petroleum, Petrochemical and Allied Industries.
- BS EN ISO 12266-1: Industrial Valves – Testing of Valves.
- BS EN ISO 12266-2: Industrial Valves – Testing of Valves.
- BS 3799: Specification for Steel Pipe Fittings, Screwed and Socket Welding for Petroleum Industry.
- BS 4368: Metallic Tube Connectors for Fluid Power and General Use. Specification for Type Test Requirements.

MSS (MANUFACTURER STANDARDIZATION SOCIETY)

- MSS-SP-25: Standard Marking System for Valves, Fittings, Flanges and Unions.
- MSS-SP-44: Steel Pipeline Flanges.
- MSS-SP-53: Quality Standard for Steel Castings and Forgings for Valves, Flanges, Fittings and other Piping Components – Magnetic Particle Examination Method. (MPI)
- MSS-SP-54: Quality Standard for Steel Castings and Forgings for Valves, Flanges, Fittings and other Piping Components – Radiographic Examination Method. (RT)
- MSS-SP-61: Pressure Testing of Valves.
- MSS-SP-93: Quality Standard for Steel Castings and Forgings for Valves, Flanges, Fittings and other Piping Components – Liquid Penetrant Examination Method. (LPT)
- MSS-SP-94: Quality Standard for Steel Castings and Forgings for Valves, Flanges, Fittings and other Piping Components – Ultrasonic Examination Method. (UT)
- MSS-SP-99: Instrument Valves.
- MSS-SP-137: Quality Standard for Positive Material Identification of Metal Valves, Flanges, Fittings and other Piping Components. (PMI)

OTHER

- ASTM: American Society for Testing and Materials.
- ISO: International Organization for Standardization.
- NACE: National Association of Corrosion Engineers.

WE, FOLLOW MANY MORE STANDARDS DEPENDING ON THE CLIENT'S/PROJECT'S REQUIREMENT.



Swastik

Engineering Works

Mistry Industrial Estate, I.B. Patel Road,
Goregaon (East), Mumbai - 400 063 (INDIA)
Tel.: 022-26859963, 26853017 • Fax : 022-26853016
Email : tigerswastik@gmail.com
Website : www.tigerswastik.com