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ADVANCED CONTROL TECHNOLOGY

"Pembroke Valves Flanges + Fittings Ltd" manufacture high technology products for petroleum and process industry applications.

The company aims to be a leading partner to system builders and users of high pressure fittings, valves and components.

The product range includes standardized high pressure ratings up to 30000 PSI, made of stainless steel AISI316 or high graded alloys and special materials.

Quality Standards

High quality and safety standards are maintained through a Total Quality Management System. We are a Manufacture and Supplier of Instrumentation Valves and Fittings.

Our effectively implemented control systems through the organization ensure that only Quality products are delivered to all our customers.

We have a fully fledged in-house testing facility too.

INTRODUCTION

"Pembroke Valves Flanges + Fittings Ltd" offers over 450 products for the Oil & Gas, Petrochemicals, Power, Generation Pulp & Paper and other Industrial sectors.

Our manifold valves are available in 2, 3 & 5 valve construction and primary Isolation valves of Mono-Flange and Block and Bleed design.

Separately Mounted Manifolds: Manifolds are mounted away from the instruments and are usually connected by means of tubes/tube fittings, pipes/pipe fittings.

Materials Standards

The Valve Body can be supplied in different materials as out lined below. The Code No customer has to specify is given in the ordering sheet.

	Material	Bar Stock	Forging	UNS
4	316 St Steel	ASTMA-	ASTMA-	S31600
		276	182 F-316	
	316LStSteel	ASTMA-	ASTMA-	S31603
		276	182 F-316	
	Carbon Steel	ASTMA-	ASTMA-	
		108	105	
	Alloy-20	ASTMB-	ASTMB-	No8020
		473	462	
	No8020	ASTMB-	ASTMB-	R50400
		348	381	
	Hastelloy	ASTMB-	ASTMB-	N10276
		574	564	
	Brass	ASTMB-16	ASTMB-	
4		IS-319	283	
	Alloy-400	ASTMB-	ASTMB-	N04400
		164	564	
	Alloy-600	ASTMB-	ASTMB-	N06600
		166	564	
	Duplex St			S31803
	Steel			



Material of Construction-Valves Components

Valve Body	Stem / Trim Gland & Gland Washer	Retainer	Handle
316 St Steel	316 St Steel	304 St Steel	304 St Steel
316 St Steel	316 St Steel	304 St Steel	304 St Steel
Titanium	Titanium	304 St Steel	304 St Steel
Alloy-	Alloy-	304 St Steel	304 St Steel
400/600	400/600		
Hastelloy C	Hastelloy C	304 St Steel	304 St Steel
276	276		
Duplex St	Duplex St	304 St Steel	304 St Steel
Steel	Steel		
Brass	316 St Steel		
	CS Copper		
CS	316 St Steel		
	CS Copper	,	

Note: All CS components are Zinc plated. Any other combination –optional on request

Valves for Cryogenic Applications

"Pembroke Valves Flanges + Fittings Ltd" also offers valves for Cryogenic applications. The material standard for all valves are 316L Stainless Steel.

Thread Specifications

Thread Type	Ref.Specifications
NPT	ASME B1.20.1,SAE
	AS 71051
ISO/BSP(Parallel)	ISO 228 ,BS 2779,
	JIS B 0202
ISO/BSP(Tapered)	ISO 7, BS
	21, JIS B 0203
ISO/BSP(Gauge)Unified(SAE)	ISO 228, BS 2779
	ASME B1.1

A thread sealant or Teflon tape should always be used when assembling tapered threads.

All Pembroke Valves Flanges + Fittings Ltd" Manifold components are cleaned to remove machine oil grease, and loose particles.

Recommended operating Pressures SS-316/316L/CS/: 6,000 Psig (414 barg)

Monel/Titanium/ Optional Alloy-20, 400, 600 10,000 Psig (690 barg) Hastelloy-C/ Duplex

Test Pressures

'Pembroke Valves Flanges + Fittings Ltd' Manifolds are tested as per the following standards

As per MSS-SP-90

Test pressure at 25°C Room Temperature

Hydrostatic: Body 414Kg/cm2 Seat 150Kg/cm2

Pneumatic: Seat 40Kg/cm2

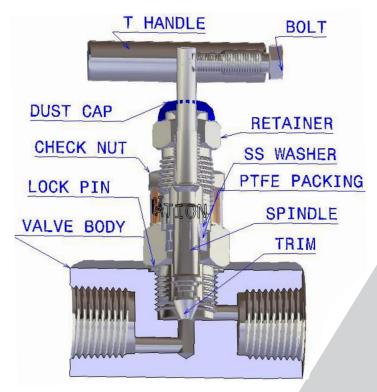
As per ANSI-B16.5 Test pressure at 25°C Room

Temperature

Hydrostatic: Body 630Kg/cm2 Pneumatic: Seat 7Kg/cm2

The above figures are for valves with 6,000 psig working pressure. For valves with 10,000 psig multiply the above figure 1.5 times. However pneumatic seat leakage test pressure is at the same values.





Needle Valve

Non-rotating Metal Stem Tip / Trim

A non rotating spindle tip/trim is typically used in high cycle

applications to extend the service life of the valve. Its purpose is to prevent the galling of the valve seat in contact with the non-rotating stem, which is driven straight into it without rotating.

- Tee bar easy manoeuvrability with minimum effort
- PTFE packing standard, optional Graphite
- Stainless steel construction as standard, optional: carbon steel LF2, Duplex, Super Duplex, Monel 400, Hastelloy C276, etc.
- Color coded functional identification
- · Externally adjustable gland
- · Variety of end connections
- Dust cap to prevent contaminations on the operating thread.

Features

"Pembroke Valves Flanges + Fittings Ltd" Forged Valve Manifolds, Bar stock

Needle Valves are specially designed Needle Valves for operation with most of the Fluids up to 6000 psig (414 barg) and on special request up to 30,000 psig (2068 barg) ratings. These valves are complete with PTFE gland packing or with Graphoil gland packing (For high temperature applications).

Placing the gland

packing below the stem thread ensures that the process does not get in contact with the Stem threads. Tightening of the upper gland body ensures perfect sealing of the gland packing and arrests leakage.

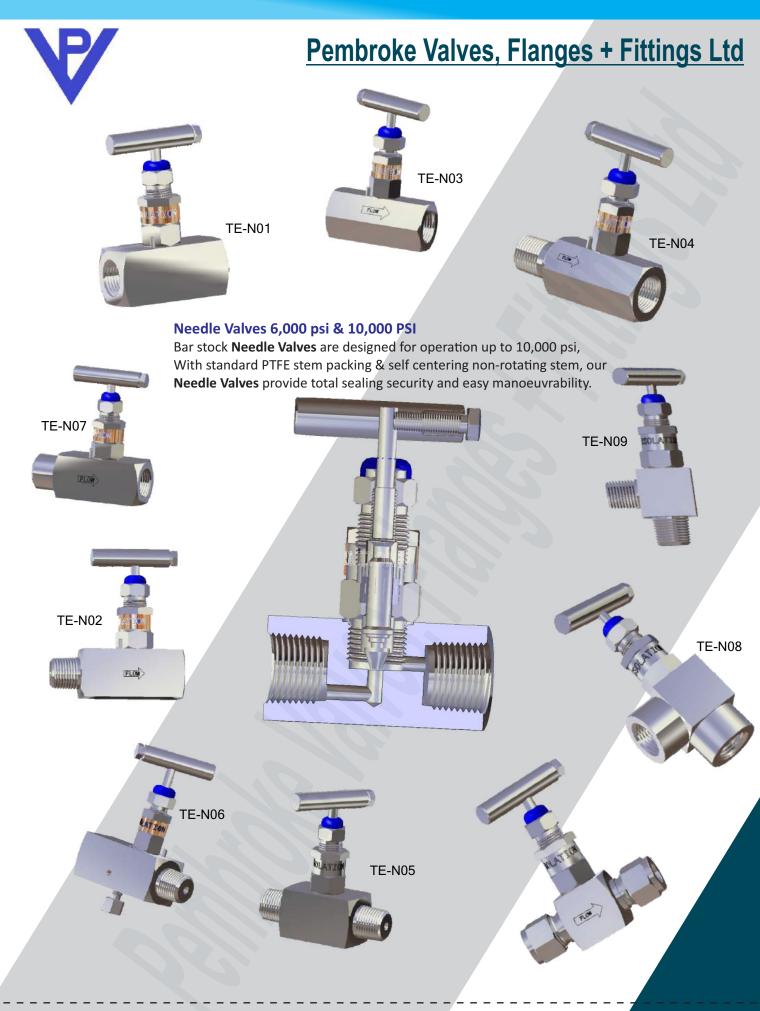
Specifications

- Standard seat diameter 5 mm
- CV: 0.4 Standard
- Maximum standard pressure up to 6,000 psig (414 barg)
- Optional Maximum pressures up to 30,000 psig (2068 barg)
- Temperature Rating 54°C to + 640°C (-65°FTo+1200°F)
- For Manifold sizes and combinations, refer to following pages











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TE-MP43

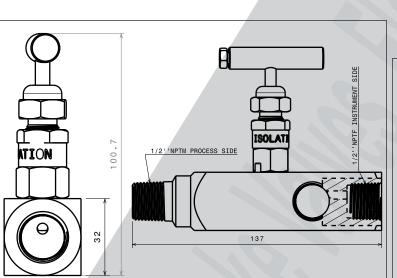
TE-MP44

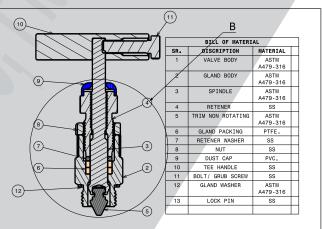
GAUGE MULTIPORT NEEDLE VALVE

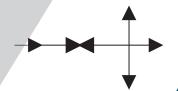
Strong and Durable, Instrument Grade Multi-Port Gauge Valve Pressures up to 6,000 PSI -, 10,000 PSI

"Pembroke Valves Flanges + Fittings Ltd" Multiport Hard Seat Needle Valves allow pressure to be bled off without disturbing the permanent piping installation. Their multiport design reduces the number of gauge and other instrument connections to permanent piping installations and decreases possible leak paths.

They have a blow-out proof stem that provides a secondary stem seal in the full open position. All stems are 316 stainless steel and all stem threads are rolled for strength and ease of operation.







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TE-BB23

BLOCK AND BLEED TWO VALVE

APPLICATION

Using The 2-Valve Manifold Block & Bleed

In normal operation the "isolate" valve is open while the "vent"

valve is closed. To remove the instrument, first close the "isolate"

valve, then open the "vent" valve to relieve pressure upstream of

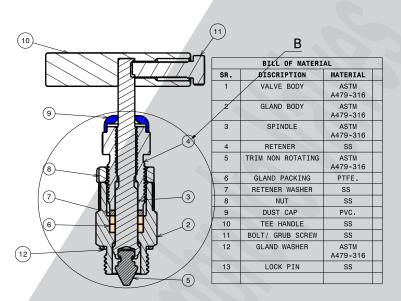
the "isolate" valve.

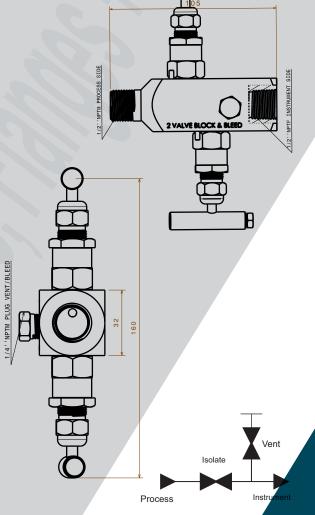
Calibration Options

By connecting a calibration gauge to the vent port, it is possible to

check the calibration of the instrument without removing it from the installation.

Also available in a range of other materials and options





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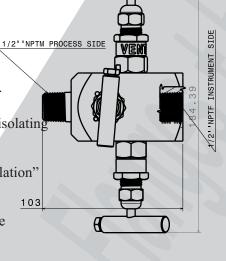
TE-DN21

NEEDLE VALVE 3 Double Block & Bleed,

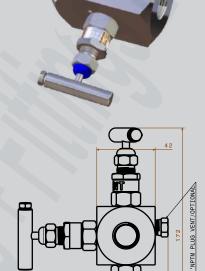
Our **DBB** gauge valves are primarily used for isolation, maintenance and calibration of pressure gauges, switches and pressure transmitters. The Double Block and Bleed design provides maximum safety by ensuring "Positive Energy Isolation". Available in a variety of different shapes, sizes and connection options.

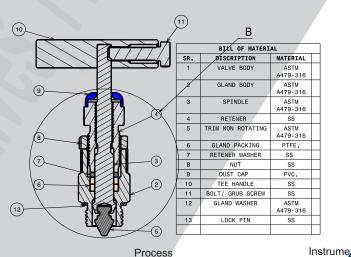
Features

- Superior valvehead technology
- Metal to metal seat for bubble tight shutoff
- Bonnet to body seal below bonnet threads isolating them from the process media
- DBB design ensuring "Positive Energy Isolation" of both process and instrument sides
- Reduces cost due to eliminating multi valve systems
- Simplifies Installation
- Reduced leak paths
- Large spacing between the taps reducing the possibility of pinching fingers
- Ergonomic angled tap design allowing the user to access all valveheads from one side of the manifold
- Equipped with a 1/4" NPT vent port between the two isolates
- Many connection options available. Possible connections are male thread, female thread, tube end, butt weld and socket weld
- Full Traceablilty back to source
- 100% Pressure tested
- 2 Times over-pressure safety margin



TE-DN20





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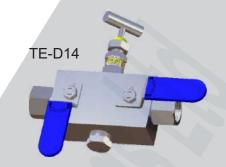


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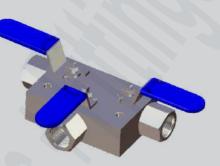


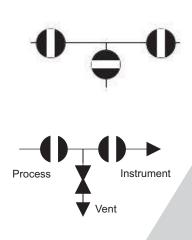


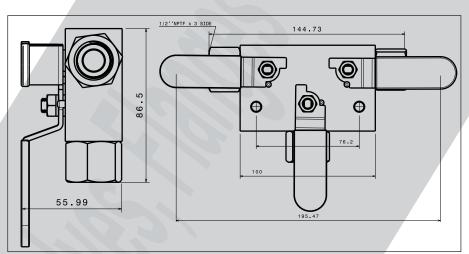
INSTRUMENT DOUBLE BLOCK & BLEED [DBB] VALVES

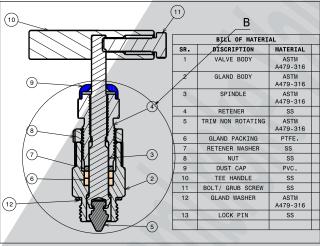


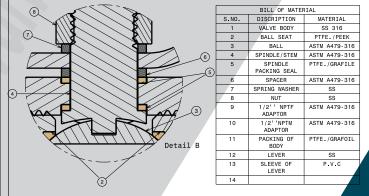
Instrument Double Block and Bleed (DBB) Valves for the Oil, Gas and Petrochemical industries. Our Instrument Double Block and Bleed (DBB) Valves feature either Needle or Ball Valves depending on our customers requirements, and are suitable up to 6,000 PSI. All of our Instrument Double Block and Bleed (DBB) Valves are machined from a bar stock body, and are as standard capable of withstanding temperatures up to 200C, however 240C is achievable on customer request.









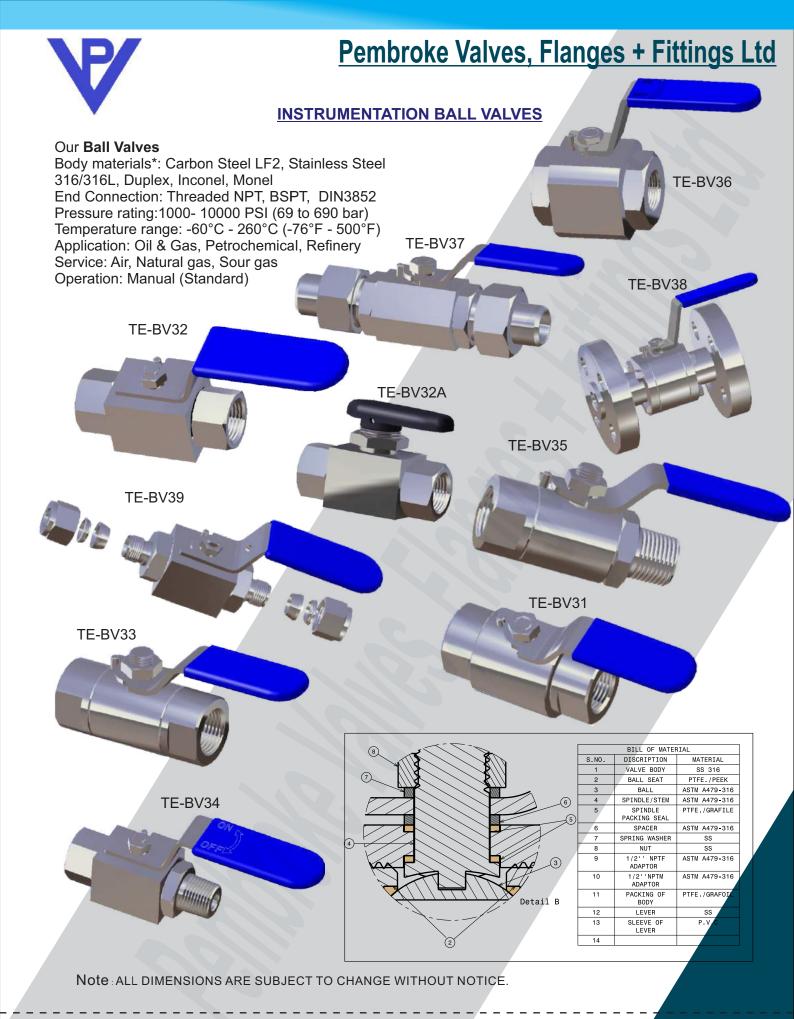


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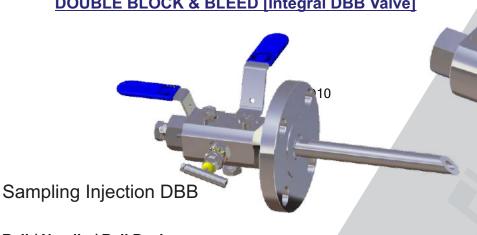




TE-D11

TE-D12

DOUBLE BLOCK & BLEED [Integral DBB Valve]





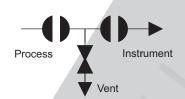
- One-Piece Forged Body
- Outlet Connection 1/2 NPT Female or Flange Connection acc. to Process Connection
- Vent Connection 1/2 NPT Female
- Fire Safe Tested Design acc. to ISO 10497 / API 607 With Graphite

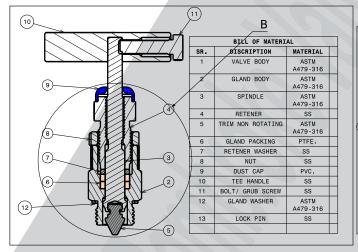
Seals only

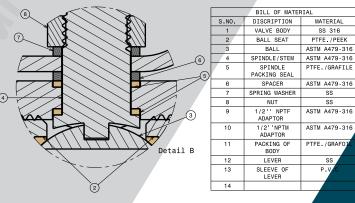
- Anti-Static Design
- Anti-Blowout Stems

Sour Gas Service:

Wetted parts according to material list are supplied as standard according to NACE MR0175/MR0103 and ISO 15156







TE-D13

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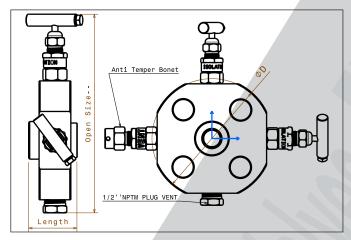


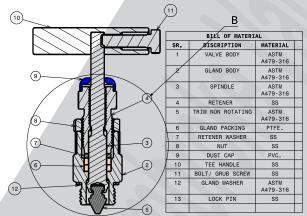
Double Block & Bleed Monoflange

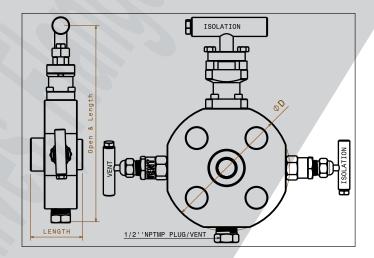
Monoflange for use at pressure sensing

points on process vessels and pipelines. The valve is mounted directly to the vessel or process pipe, and measurement instruments can be mounted directly to the valve outlet or mounted remotely using sensing lines. The Monoflange valve is available in flange ratings from CLASS 150 to CLASS 2500 in both a raised face design (RF) and a ring type joint design (RTJ), with outside screw and yoke bonnets (OS&Y) or standard packed bonnets. The following configurations are offered: single block, block and bleed, double block and bleed, and single block and bleed with a calibration port.









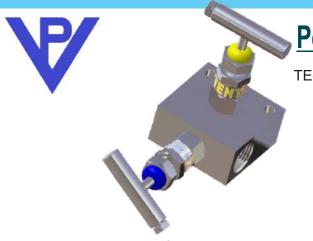
Instrument

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TE-MF22

TE-MF23

2 Way Manifold Valve

2 valve Manifold Pipe to Pipe Design For Separate Mounting.

Connecting System Impulse Lines & Transmitters, Having Simple Two valve

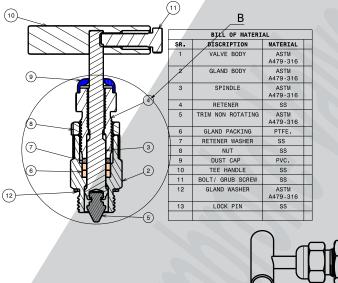
Configuration which Allows For Easy Block, Bleed and Calibration of a Static Pressure Transmitter or Gauge Features:

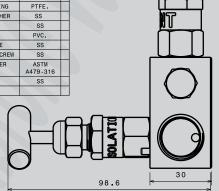
316SS Body Construction For Superior Corrosion Resistance.

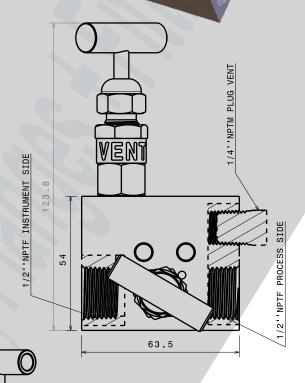
Non Rotating Trim Prevents Galling and Promotes Repetitive Shut-off Optional Grafoil Packing Material is Available For High Temperature Rating 1000'F @6000 PSI Testina:

Pneumatic Test:- Each Valve is Tested With Nitrogen at 100 PSI in Accordance With MSS-SP-61 For Seat & Packing Leakage.

Hydro Test:- Performed With Pure Water in Accordance With MSS-SP-61. Body Tested at 1.5 Times & Seat Leakage Tested at 1.1 Time of the Working Pressure.







Instrument **Proces**

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TE-MF24

3 VALVE MANIFOLD REMOTE MOUNT

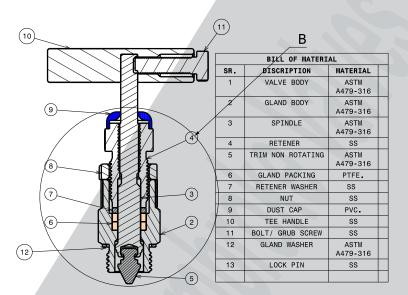
Differential pressure transmitters are used in level measurement and flow measurement. For ensuring the protection of pressure transmitter or for isolating the transmitter from the process loop, manifolds are used.

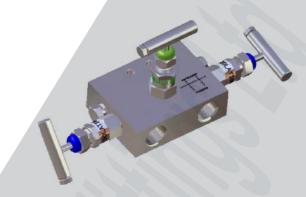
Three valve manifolds system used for differential pressure transmitter is shown here

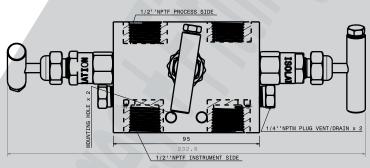
A three-valve manifold system consists of an equalising valve and two blocking valves. One blocking valve at the high-pressure side other at the low-pressure side.

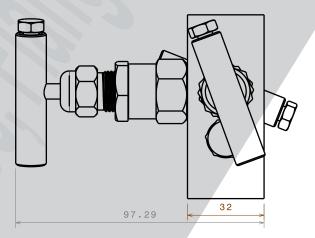
The two block valves are opened and the equalizing valve is closed during normal operation.

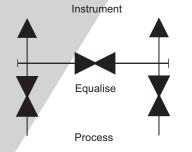
When the transmitter is removed from the system, the manifold must be operated such that the high pressure is never applied to the single side of the transmitter.











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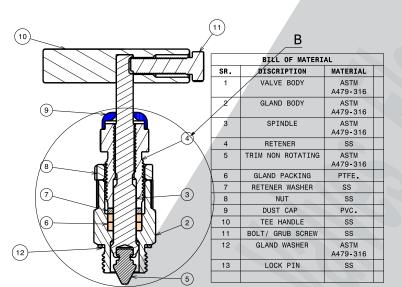


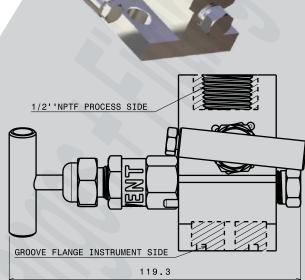
TE-MT25

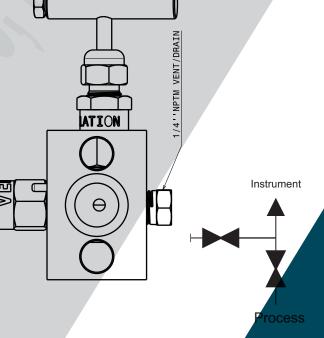
2 VALVE MANIFOLD T TYPE

T` type 2-Valve Manifold is a pipe to flange mounting manifold designed for connecting system impulse line & transmitters. The 2-Valve Manifold consists of two valve configuration which allows for easy isolation, calibration, block and bleed for gauges, pressure switches and static pressure transmitting instruments.

The **2-Valve Manifold** is rugged in construction to withstand high pressures and temperatures. The `T` type 2-Valve Manifold is capable of working under pressures as high as 6000 PSI at 200° F or 4000 PSI at 500 ° F.







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Remote Mount Coplanar (Angled Bonnet Pipe to Pipe) Five Valve Manifold 413 bar (6000 psi)

Using the 5-valve manifold

In normal operation the "isolate" valves are open while the "equalise" and "vent"

valves are closed. This provides a differential pressure reading to the pressure

gauge or transmitter.

To zero the instrument, first close both "vent" valves and the downstream "isolate"

valve. Then open the "equalise" valve and adjust the zero setting on the instrument.

To remove the instrument, first close both "isolate" valves, then open the "equalise"

valves to relieve pressure between the manifold and the instrument.

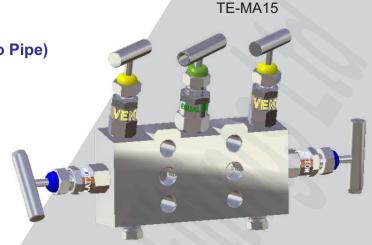
Calibration options

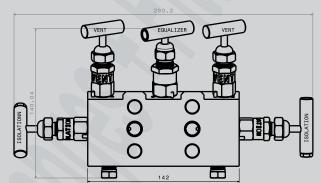
An option provided by 5-valve manifolds which is not available on 3-valve types is

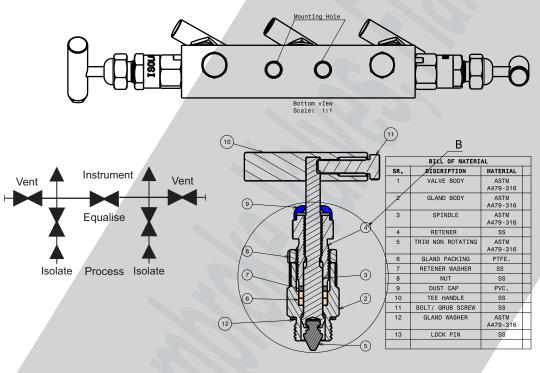
connecting the "vent" port to known pressure sources to check the calibration of

the instrument.

Also available in a range of other materials and options







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Remote Mount (Angled Bonnet Pipe to Pipe) Five Valve Manifold 413 bar (6000 psi)

Using The 5-Valve Manifold

In normal operation the "isolate" valves are open while the "equalise" and "vent" valves are closed. This provides a differential pressure reading to the pressure gauge or transmitter.

To zero the instrument, first close both "vent" valves and the downstream "isolate" valve. Then open the "equalise" valve and adjust the zero setting on the instrument.

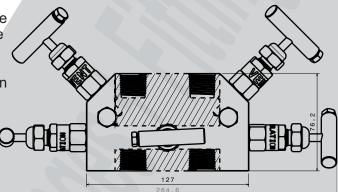
To remove the instrument, first close both "isolate" valves, then open the "equalise" valves to relieve pressure between the manifold and the instrument.

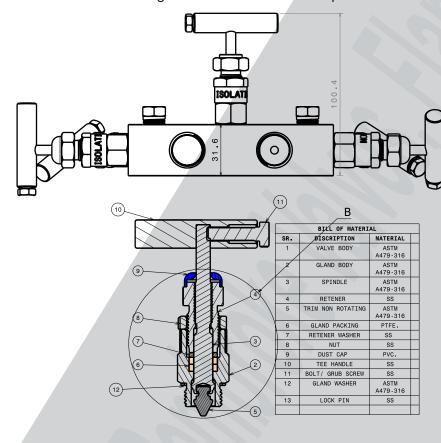
Calibration Options

An option provided by **5-valve manifolds** which is not available on 3-valve types is connecting the "vent" port to known pressure sources to check the calibration of the instrument.

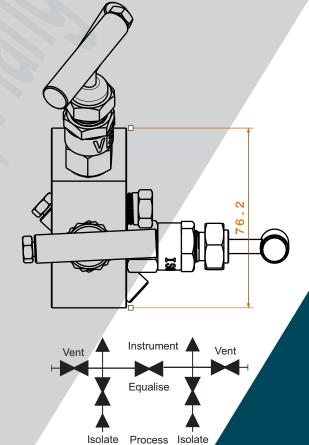
Also available in a range of other materials and options







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TE-MH16

5 way Manifold Valve H Type

Typical Applications:

- 1. Testing Panels
- 2. Differential pressure Transmitters
- 3. Gas Distribution Systems
- 4. Refineries and Petrochemical Industries

Features:

Two Isolation valves and Two Equalizing valve and One Vent valve Pressure rating up to 6000 psig at 370C

Temperature rating from -540C to 2320C with PTFE packing Screwed double bonnet assembly with metal to metal body to bonnet seal

Non Rotating Hardened metal Stem tip design to ensure positive sealing

Variety of MOC options SS 316, Monel 400 and Duplex Material Grafoil Stem Packing option is available to meet high temperature applications

Port sizes available from 1/4" Size to 3/4"

Stainless Steel Bar handle, Handle Options are available.

Locking pin to avoid accidental removal in service

Standard mounting holes provides flexibility for wall / bracket mounting installations

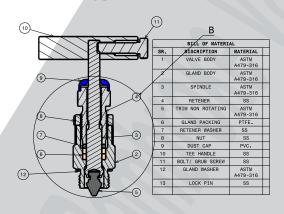
Optionally available with NACE MR-01-75 compliance Variety of end connections include Tube fitting end, Male/Female

NPT and ISO threads

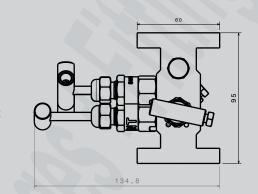
Dust and Thread caps provided for ingress dust protection

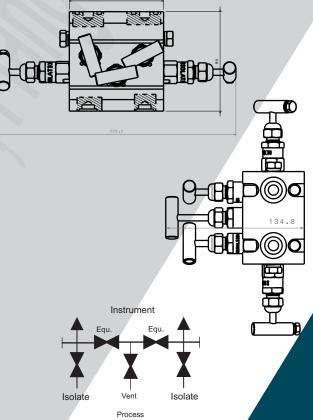
Testing:

Each Manifold Valve is factory tested with nitrogen gas at 1000psig (69 Bar) for leakage at seal & seat. Other optional tests like hydrostatic (1.5 times of the working pressure)



Note: ALL DIMENSIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.







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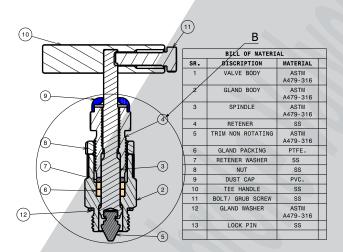
5 Valve Manifold Separatly Mount Type

Five Valve Manifold incorporate two process isolation valves, one equalizer valve and two drain/vent valves with separate connections in a compact manifold block. The designed for remote mounting away from the differential pressure instrument and joined by tube or pipe impulse lines. They have threaded connections of which the most popular are detailed below but also available to suit other sizes and standards.

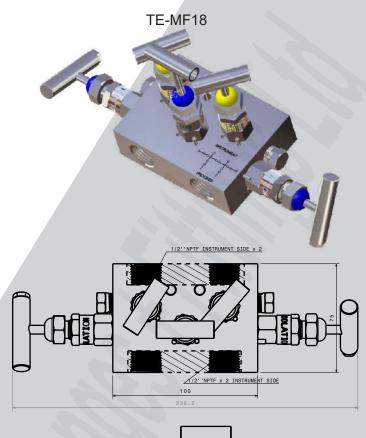
Dimensions shown are for the standard 54 mm or 2 1/8 inch instrument connection. Centre distance found in majority of instruments.

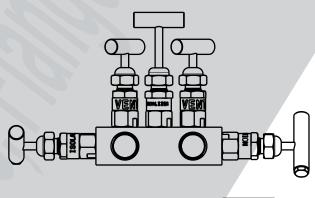
The manifold is also available for instruments with other centre distances for instrument connections (as 55 mm, 56 mm and 57 mm) but dimensions shown will vary.

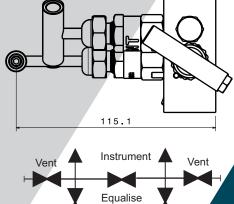
Please consult us for these dimensions.

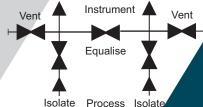


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TE-MT17

5 Valve Manifold Direct Mounting 'T' Type

DESCRIPTION: Five Valve Manifold 'T' type is designed for direct mounting on differential pressure Instruments. This manifold incorporate two process valves one, equalizer valve and two drains / vent valves in a compact block. The process connection is threaded for Connection by tube or pipe fittings. Dimensions shown are for the standard 54mm or 2 1/8 inch centres on request. Thread details shown are for standard popular sizes and available to Suit other thread Standards.

CONNECTION:

Process: 1/2"NPT(F) Instrument: Flanged Drain/vent: 1/4"NPT(F)

TEST PRESSURE:

@ 25°c' Room temperature

Hydrostatic: Body: 620kg/cm2g

Seat: 413kg/cm2

Pneumatic: Seat: 40kg/cm2

GLAND PACKING: PTFE: Standard

GRAPHOIL: Temperature above 180°c

MATERIAL:

A105, A182 Gr F 304 SS, A182 Gr F 316 SS

Monel, Hastalloy.

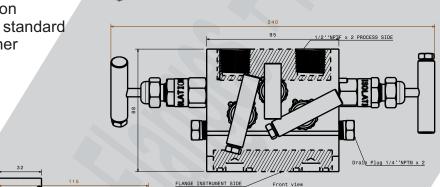
FINISH:

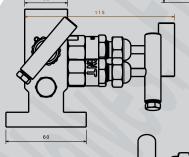
CS: Zinc plated and dichromate

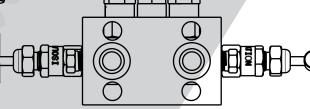
SS:Natural

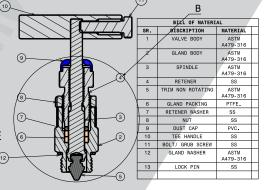
Note: ALL DIMENSIONS ARE SUBJECT TO CHANGE

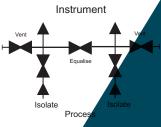
WITHOUT NOTICE.













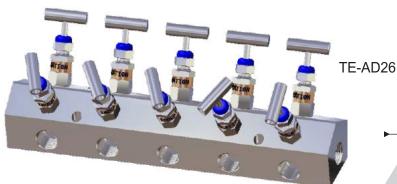
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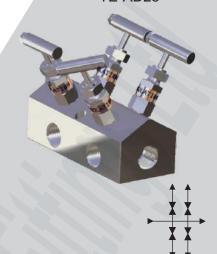


TE-AD28

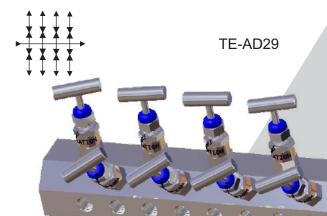
Bar Stock Air Distributor [MANIFOLD]







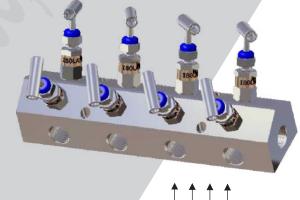
Number of Outlet Valves and Outlets Specify a number from 4 to 18. Example: 10 = 10 valves and outlets

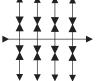


BILL OF MATERIAL DISCRIPTION MATERIAL ASTM A479-316 GLAND BODY ASTM A479-316 ASTM A479-316 SPINDLE RETENER TRIM NON ROTATING ASTM A479-316 GLAND PACKING PTFE. RETENER WASHER SS DUST CAP PVC. 10 TEE HANDLE SS BOLT/ GRUB SCREW SS GLAND WASHER ASTM

- Extruded stainless steel body rated for 6000 psig (413 bar) working pressure
- Compact, versatile manifold for gas and liquid applications
- Fewer potential leak points than conventional distribution manifolds
- Four to eighteen needle valves and outlet connections
- Mounting holes through the manifold to reduce stress on the piping system

TE-AD27





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LOCK PIN



(12)

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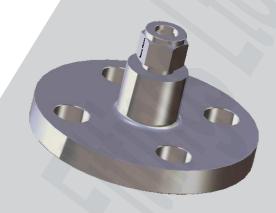
Kidney Flanges Flange Connector Oval Adapter

"Pembroke Valves Flanges + Fittings Ltd" flange connectors are for use at the primary isolation point of piping systems. Designed for ease of use, flange fittings easily connect process piping to instrumentation tubing. The flange adapter (kidney type) provides a direct connection of tube OD compression couplings for instrument transmitters. Quality engineered for instrumentation and process applications. Working pressure in accordance with piping code ANSI B31.1 and refinery piping code NASI B31.3.



Kidney flanges and various flange adapters threaded or with twin ferrule compression tube fitting / adapters / weld fittings / extenders / converters available in Stainless Steel, Monel 400, Duplex and other super alloys.

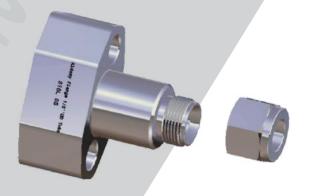
TE-FODT40



TE-KF41



TE-KFODT42



Note:This catalogue indicates the general specifications used for most of the process applications. Any other specification not appearing here also can be provided as per customer requirement.

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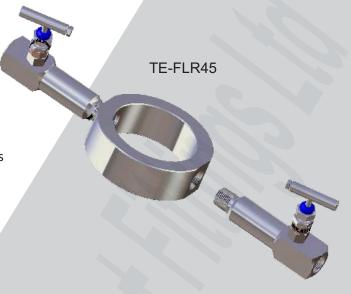




Flushing Rings Units

The "Pembroke Valves Flanges + Fittings Ltd" **Flushing ring** is a solution for the cleaning of flanged diaphragm seal. This enables consistent readings from sensing instruments, and serves to extend service life. An ideal solution for satisfying applications with challenging requirements.

Key Features: Two flushing ports Machined from bar stock Optional with pipe plugs

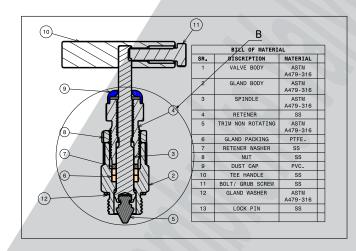






Specifications:

Standard according to ASME B16.5 or EN 1092-1 Size 1" to 4" or DN25 to DN100 Material stainless steel 316L, Duplex, Monel, Hastelloy C or Inconel Pressure Ratings: 2.500 lbs or PN400



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Condensate Posts & Fab. Air Distributors



TECHNICAL DATA

Function: **Condensate pot** or chambers are used in measurement of steam or other vapors which condensate to liquid state at ambient temperature

Process: The condensate is drained from the bottom valve connection and are suitable for use with our range of ball valves Material: The Condensate pots or chambers are available in a range of materials and have been designed accordance with ASME VIII Div





"Pembroke Valves Flanges + Fittings Ltd" **Condensate Pots** are specially designed to catch hold condensate and damage material, this preventing damage to the metering system and /or manifold. These are custom manufactured to suit client and project applications "Pembroke Valves Flanges + Fittings Ltd" **Condensate Pots** are available in a variety of material and finishes. Standard pipe sizes are 2" to 6" and a variety of connections fittings can be provided.

Material Type: Carbon Steel to A 10Gr. B SS 304 to Grade A 312 TP SS 316 to Grade A 312 TP SS 304L to Grade A 312 TP SS 316L to Grade A 312 TP A335 Cr P11 A335 Gr P22

API SL Gr B A333 Gr B A333 Gr 6

Also available with dual certification. Optional sour gas service material is also available confirming to NACE std MR-01-03

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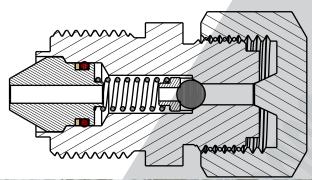
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Lubricating Grease Fittings 20.000 PSI

TE-GF48

High Pressure Grease Fittings featuring Blowdown, Lubricant (Sealant) Autoclave style threads for 20,000 psi Service





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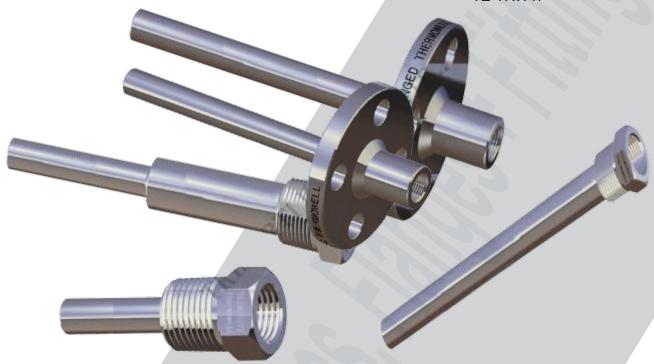
<u>sales@pvff.co.uk</u>



Thermowells and Thermocouple



TE-TRW47



Thermowells are used to provide an isolation between a temperature sensor and the environment, either liquid, gas or slurry. A **thermowell** allows the temperature sensor to be removed and replaced without compromising either the ambient region or the process.

Care must be taken in determining the material used for the **thermowell** as well as other factors. Thermo Sensors offers design assistance that includes pressure, temperature and or corrosion as well as vibration effects of the fluids. This vibration can cause well stem failure.

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Gauge Accessories





Pressure 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.



Overload protector/gauge saver: are used to protect pressure-sensing instruments against damage, loss of accuracy, and/or rupture in the event of excessive system pressure. The piston assembly works against an adjustable spring. The piston assembly contains a sealing mechanism to isolate system pressure from the instrument.

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Gauge Siphons

Suitable to mount gauges and pressure sensors on a steam system to protect from live steam.







The pig tails and coil siphons are used for measurement of pressure with vapour and are mounted between the instrument (pressure gauge, pressure switch, pressure transmitter) and the process. A part of the pipe remain always filled of condensation and this avoid the direct contact between the high temperature vapour and the instrument. Another use of these accessories is the heating dispersion, this avoid also to the instrument to work at dangerous temperature.

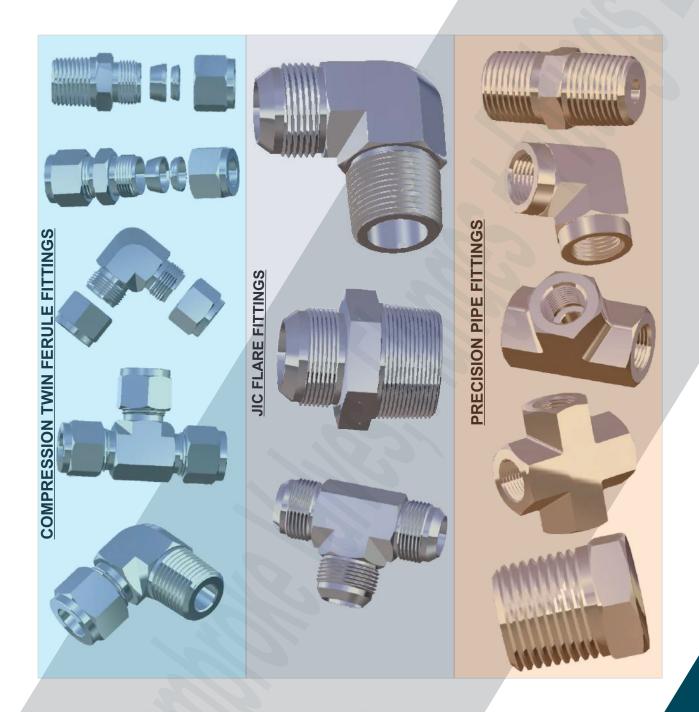
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COMPRESSION TUBE, PRECISION PIPE, AND JIC FLARE FITTINGS.



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