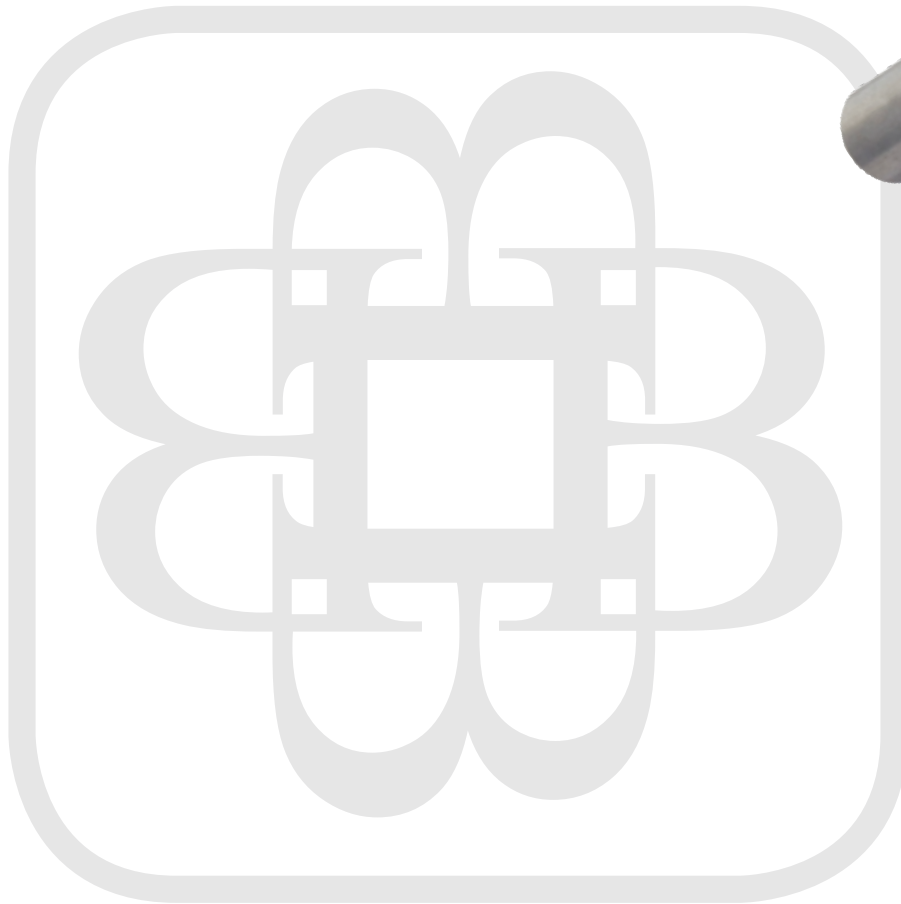


Made in Britain

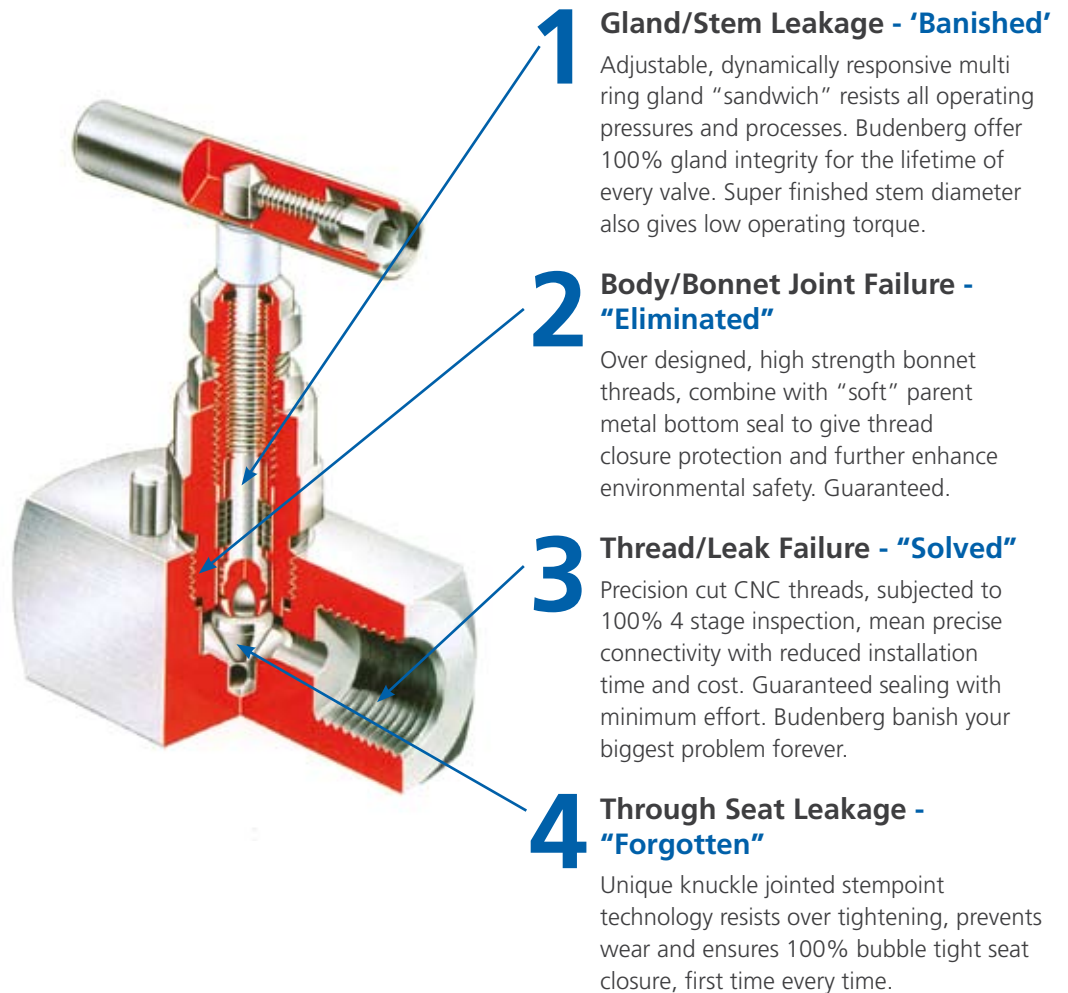


Valves and Manifolds | Double Block and Bleed Valves  
Monoflange Valve | Chart Recorders  
Calibration Equipment | Positioners  
Accessories

A global supplier of quality instrumentation/piping  
specification valves through product design and  
reliability for total customer satisfaction

 **Budenberg**

# Four essential reasons to specify Budenberg instrument valves



## 1 Gland/Stem Leakage - 'Banished'

Adjustable, dynamically responsive multi ring gland "sandwich" resists all operating pressures and processes. Budenberg offer 100% gland integrity for the lifetime of every valve. Super finished stem diameter also gives low operating torque.

## 2 Body/Bonnet Joint Failure - "Eliminated"

Over designed, high strength bonnet threads, combine with "soft" parent metal bottom seal to give thread closure protection and further enhance environmental safety. Guaranteed.

## 3 Thread/Leak Failure - "Solved"

Precision cut CNC threads, subjected to 100% 4 stage inspection, mean precise connectivity with reduced installation time and cost. Guaranteed sealing with minimum effort. Budenberg banish your biggest problem forever.

## 4 Through Seat Leakage - "Forgotten"

Unique knuckle jointed stempoint technology resists over tightening, prevents wear and ensures 100% bubble tight seat closure, first time every time.

## All The Features You Ever Wanted

- Fully engaged rolled bonnet threads provide protection from process media by a metal body / bonnet seal.
- Swaged self centering non rotating Duplex stem point ensures positive seat closure under all conditions.
- Rolled stem threads protected from process media by fully adjustable 'sandwich' packed gland.
- Fully back seating - bonnet with anti blowout stem.
- Totally encapsulated dust seal gives greater stem thread protection.
- Vibration proof handle with positive location and excess torque break feature.
- NACE MR-01-75 standard.
- Fully developed field mounting system for all products.
- All options available. Full range of materials, thread types and sizes.
- Conformance to ASME B31.1
- Pressure - Temperature ratings as listed in ASME/ANSI B 16.34 Class 2500.
- All Pressure wetted parts fully traceable and certified in accordance with EN10204 31B.
- Material of construction as listed in ASME/ANSI B 16.34.
- Guaranteed 4 times factors of safety at Class 2500.

Budenberg Worldwide Distribution and Support

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## Needle Valves and Manifolds

Budenberg valves and manifolds are designed to a high specification that incorporate a wealth of design features as standard:



### Needle Valves

- Male x Female or Female x Female variants
- Screwed connections from 1/4" to 1" NPT or BSP
- Male and female socket weld connections
- 316 Stainless Steel as standard but other materials are available

### Gauge Valves

- Gauge Vent Valve with 1/4" NPT vent port
- Gauge Multi port valves with three outlet connections
- Male x Female or Female x Female variants

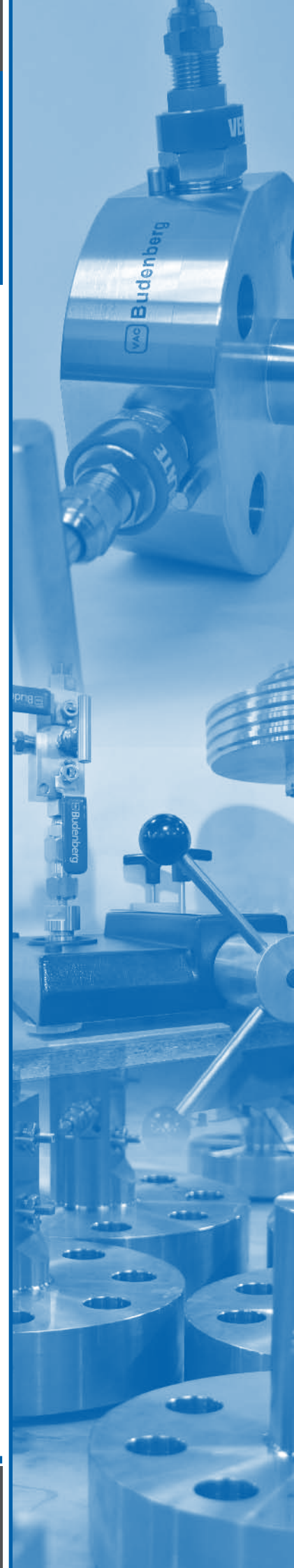


### 2 Valve Manifolds

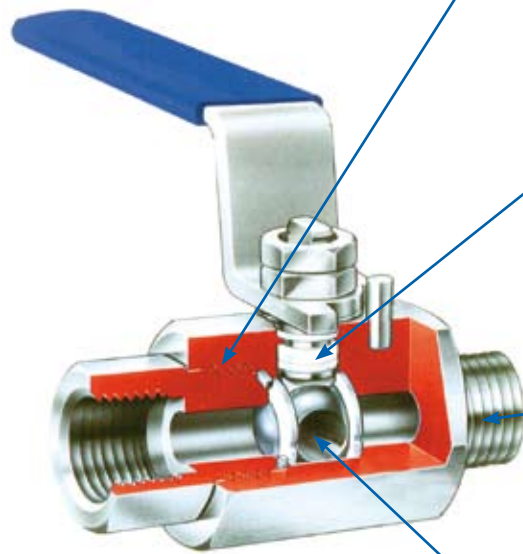
- Remote Mounting variants
- Direct coupling variants
- Surface / Panel mounting variants

### 3/5 Valve Manifolds

- Remote Mounting variants
- Direct coupling variants with a DIN 19213 connections for mounting of Transmitters
- Surface / Panel mounting options
- Kidney flange optional outlets



# Four essential reasons to specify Budenberg ball valves



## 1 Body/Adaptor Joint Failure - 'Eliminated'

2 piece not 3 piece design gives greater strength and integrity. Over designed high strength adaptor threads, combine with "soft" parent metal bottom seal to give closure thread protection and ensures environmental safety. Optional secured end further enhances the guarantee by eliminating risk of accidental disassembly.

## 2 Gland/Stem Leakage - "History"

Budenberg incorporate the same dynamic multi ring gland system as in the needle valve, which when combined with the anti blowout back seating stem, guarantees resistance to all operating processes and pressures.

## 3 Thread/Leak Failure - "Solved"

Budenberg banish this primary problem. Precision cut CNC threads, subjected to 100% 4 stage inspection, mean precise connectivity with reduced installation time and cost. Guaranteed sealing with minimum effort. Low cost of ownership.

## 4 Through Seat Leakage - "Forgotten"

Super finished ball, floating within dynamic self relieving seats, offers dynamic response to fluctuating process pressures and maintains 100% bubble tight seat closure in both directions. Low operating torques and high cycle life feature strongly in this unique Budenberg design.

## All The Features You Ever Wanted

- Fully engaged rolled body/adaptor threads provide protection from process media by a metal body/ bonnet seal.
- Super finished floating ball within dynamic, self-relieving PTFE seats.
- Inherent cavity relief.
- Fire safety design.
- Two-piece construction ensures no leak points prior to isolate.
- NACE MR-01-75 standard.
- All options available. Full range of materials, thread types and sizes.
- Conformance to ASME B31.1
- Pressure - Temperature ratings as listed in ASME/ANSI B 16.34 Class 2500.
- All Pressure wetted parts fully traceable and certified in accordance with EN10204 31B.
- Material of construction as listed in ASME/ANSI B 16.34.
- Guaranteed 4 times factors of safety at Class 2500.



## Ball Valves

Budenberg ball valves and manifolds carry their standard features and benefits throughout the range, from standard Isolation units to complex assemblies and bespoke customer designs.

### Ball Valves

All Ball valves incorporate the same design features as standard:

- 6,000 psi or 10,000 psi CWP
- Two piece design
- Fully back seating – in bonnet with anti-blowout stem
- Multi stage 'dynamic' stem packing in PTFE
- 'Built in' cavity relief
- True Metal to metal body seal
- Guaranteed 4x safety factor
- Compliant to NACE MR 01-75 (latest version)
- Pressure / Temperature ratings as listed in ASME/ANSI B16.34 Class 2500
- Fire safe versions available to BS EN ISO 10497 / BS 6755 Pt 2 are available
- Lever Operator
- Conformance to ASME B31.1

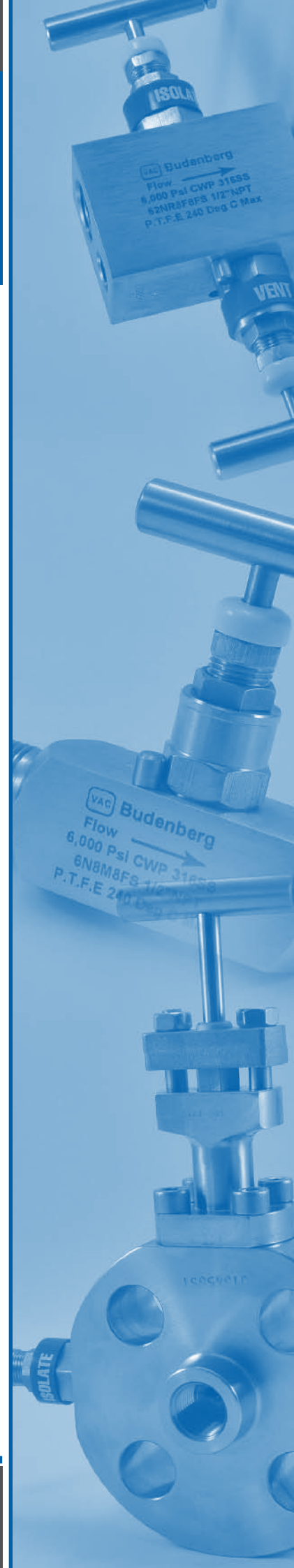


- Bore sizes of 10mm, 14mm or 20mm
- Male x Female or Female x Female variants
- Screwed connections from 1/4" to 1" NPT or BSP
- Male and female socket weld connections available
- 'L' port and 'T' port configurations are available
- 316 Stainless Steel as standard but other materials are available



### Additional Options

- PEEK Seats
- Handle Locking
- Panel mounting option
- Spanner Actuation



## Double Block & Bleed Valves

The Budenberg range of Double Block and Bleed Valves incorporate all the technical features of our Ball and Needle Valves into a single housing thereby reducing leakage paths and installation times. All units are designed to conform to the requirements of ASME VIII Div 1, ASME B16.34 and MSS SP-99. Budenberg can provide units from our standard range or design and manufacture units to meet the individual user or application requirements



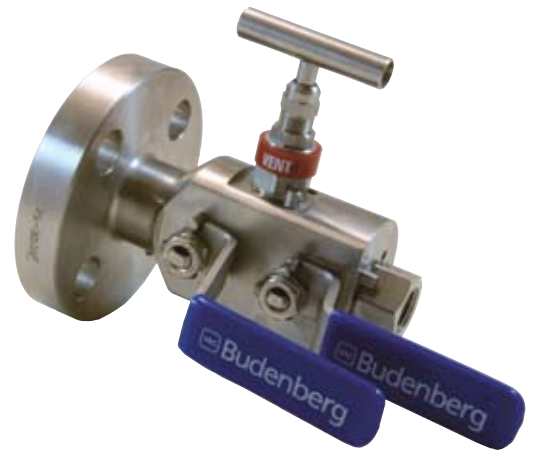
### Model 93 Barstock DBB Manifold



- Compact design
- Double Block and Bleed configuration
- Barstock Body incorporating all valve assemblies
- Ball-Ball-Ball, Ball-Needle-Ball, or all Needle
- Panel mounting options
- NACE as standard

### Model 98S One Piece Body DBB Valve (Screwed outlet)

- One piece forged body design incorporating all valves
- DBB, SBB and SB variants
- Ball-Ball-Ball, Ball-Needle-Ball, or all Needle configurations
- ANSI, API Flange or Hub end inlet, screwed outlet and vent
- Bore sizes of 10mm, 14mm or 20mm with built in Cavity relief
- Customised variants to specific user requirements
- NACE as standard



### Model 98F One Piece Body DBB Valve (Flanged outlet)

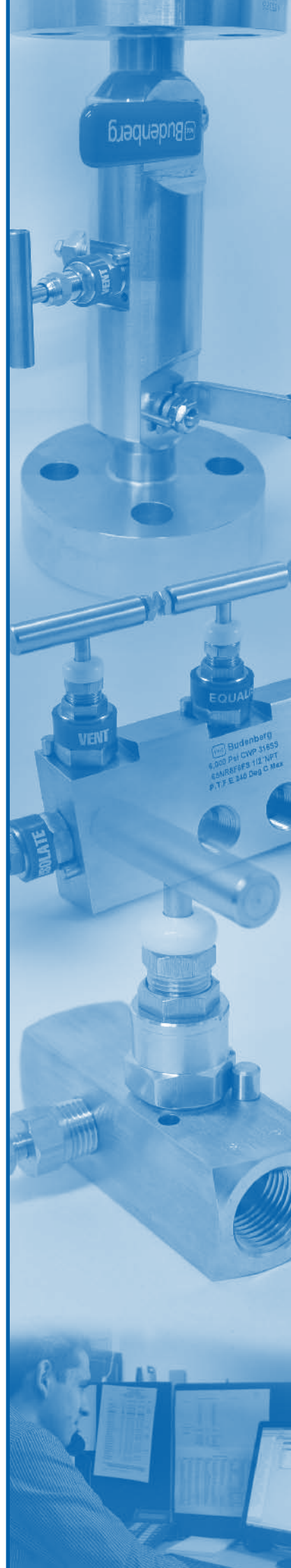
- One piece forged body design incorporating all valves
- DBB, SBB and SB variants
- Ball-Ball-Ball, Ball-Needle-Ball, or all Needle configurations
- ANSI, API Flange or Hub end inlet and outlet
- Screwed or flanged vent outlet
- Bore sizes of 10mm, 14mm or 20mm with built in Cavity relief
- Customised variants to specific user requirements
- NACE as standard





## Monoflange Valves

The Budenberg range of Monoflange Valves provide a very compact solution to instrumentation applications providing a 'close coupled' connection between the process and the instrumentation, therefore reducing leak joints and weight. We have a very comprehensive range of standard configurations that are available in short lead-times but we can also design and manufacture units to meet the individual user or application requirements.



### Model 6M – Monoflange with OS&Y Primary Isolation

- 6M – Single Block Isolation Valve
- 6MB – Single Block and Bleed Valve
- 6MBB – Double Block and Bleed Valve
- OS&Y – Needle – Needle construction
- ANSI or API Flange inlet
- Screwed, Flanged or Kidney Flange outlet options
- Full range of materials

### Model 6MN – Monoflange with all Heavy Duty Needle Valve construction

- 6MN – Single Block Isolation Valve
- 6MNB – Single Block and Bleed Valve
- 6MNBB – Double Block and Bleed Valve
- Needle – Needle – Needle construction
- ANSI or API Flange inlet
- Screwed, Flanged or Kidney Flange outlet options
- Full range of materials



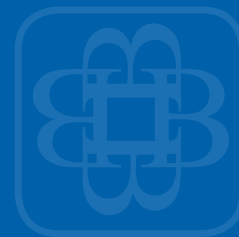
### API Monoflanges

- 10,000 psi and 15,000 psi operation
- Full pressure testing and certification to API 6C
- Materials of construction as listed in ASME B16.34
- Special Wellhead configurations



## Injection / Sampling DBB Valves

All the Budenberg ranges of DBB Valves and Monoflanges can be fitted with a quill that will facilitate the taking of samples or injection of fluids directly into the process stream even at full system pressure. The quill dimensions are application dependent and are designed to overcome any issues with Vortex Shedding that could occur.



## Injection / Sampling Valves

- All quills are designed as an integral part of the valve design
- Injection probes with a sealed end with an 1/8" diameter hole in the side wall but other configurations can be supplied
- Sampling probes with a 45 degree end profile
- Probe length, materials and wall thicknesses are as requested by the client
- Velocity collars can be incorporated into the design to overcome Vortex Shedding issues
- Integral Check Valves can be fitted into the inlet of Injection Valves.

The full range of Budenberg valves and manifolds support a wide range of options that can be fitted onto any valve in order to meet the individual project requirement.



## Options

- Anti -Tamper head assemblies
- Bolted Bonnet head assemblies
- Extended Head Assemblies for Cryogenic applications
- Choice of Blank, Vent or Captive Vent plugs
- Handle Locking
- Hand-wheel operator option
- Panel mounting and Manifold mounting brackets
- Dual screwed output
- Custom connections including Hub End and high pressure screwed connections
- Alternative seat materials
- Offshore painting to customer's specification



## Ancillaries

- Gauge Swivel Adaptors
- Instrument overload protection valves
- Check Valves
- Pressure Snubbers
- 'A' Frames





## Chart Recorders

Budenberg's range of Pressure and Temperature Chart Recorders primarily designed for Offshore applications such as pipeline pressure testing.

### Chart Recorders

- Pressure only versions in ranges from 0-1 bar to 0-7,000 bar (0-100,000 psi)
- Temperature version in ranges from 0 to 80 Deg C to 0-600 Deg C
- Dual channel versions in either pressure, temperature or pressure and temperature
- Accuracy is +/- 1% with an option for +/- 0.5%
- Chart rotation – 2, 4, 8, 12 or 24 hour, 7 day
- 240mm diameter charts
- Heavy Duty case in either 304 or 316 Stainless Steel
- Free standing or wall/panel mounting



Budenberg can supply a full range of primary pressure calibration systems as well as range of services including overhaul and re-certification.



### Calibration

- Hydraulic Dead Weight Testers in ranges up to 1-7,000 bar
- Pneumatic Dead Weight Testers in ranges up to -1 to 120 bar
- Hydraulic / Pneumatic / Electronic Comparators
- Repair, Overhaul and Re-certification of Dead Weight Testers to National and UKAS standards

Budenberg can supply a full range of Valve Positioners and Feedback units

### Positioners

- Pneumatic Positioners
- Electro-pneumatic Positioners – 4/20 mA
- Intrinsically safe Positioner ATEX/FM/CSA
- Explosion proof Positioner ATEX/CSA/FM
- Feedback Units mounted on the Positioner or stand alone
- Digital Valve Positioners



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# History Of Budenberg

## Here are some milestones in our history

No one can deny the tradition of quality and innovation that engineers associate with Budenberg. The rich history of our company helps to enforce the significant brand strength that makes us the first name that comes to mind when quality pressure & temperature instruments are needed.



Germany 1850: Arnold Budenberg laid down the foundations of the company when he took out, with Ernst Schaffer, a patent on a diaphragm gauge.

1852: Arnold Budenberg came to sell Pressure Gauges in England and set up operations in Manchester in 1854. (Schaffer & Budenberg then had 48 employees)

1856: Schaffer & Budenberg decided to carry stocks of Pressure Gauges in England located in Manchester.

1896: Schaffer & Budenberg moved to a new building in Whitworth Street, Manchester with 100 employees, where as well as selling German products they began manufacturing.

1914: Schaffer & Budenberg relocated to a new purpose built factory in Broadheath, Manchester. At the start of the First World War Schaffer & Budenberg were nationalised and remained so until, at a public auction following the War, the business was acquired by the Budenberg family; thus becoming Budenberg Gauge Co Ltd.

The company remained under Budenberg family ownership (culminating into a workforce of 7000 in 1944) until 1991 when Burnfield PLC acquired it.

In 1997 there was a management buy out of the Budenberg Gauge Pressure & Temperature divisions from Burnfield PLC.

Since the management buy-out in 1997 Budenberg moved to Irlam, Manchester and has continued to develop and cater for the global instrumentation market.



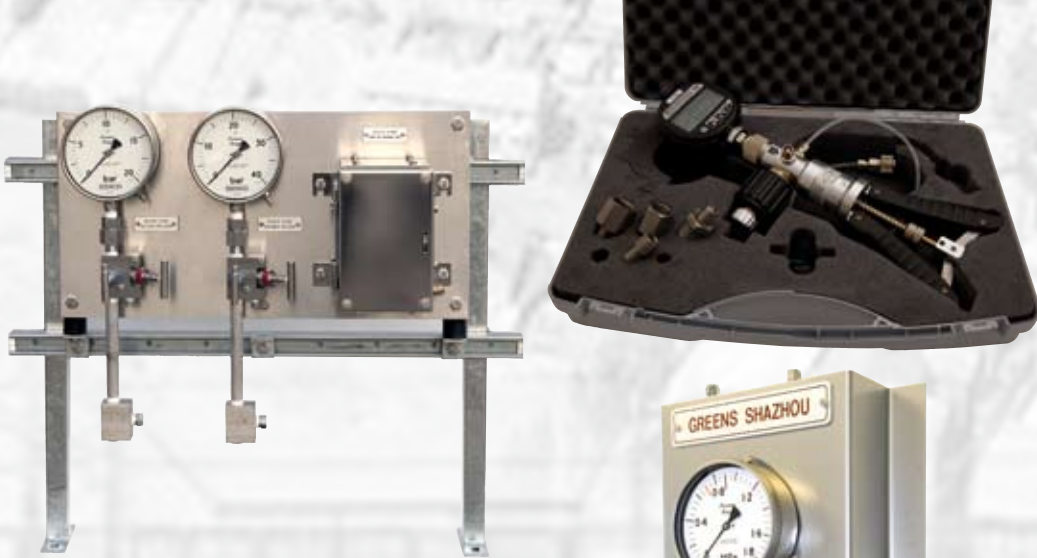
Budenberg is a customer focused organisation dedicated to providing total customer satisfaction.

For full details please view our website [www.budenberg.co.uk](http://www.budenberg.co.uk)



## Budenberg Technical Services

We offer repair and calibration services to our customers onsite or from our service centre in Irlam, Manchester. We also offer calibration kits and bespoke panels to our customer specifications.



Our panel configurations are produced to meet our customers specific designs. We produce and build complete panel sets to include a range of instruments & accessories. We also offer a design service if required.

## Budenberg Training Services

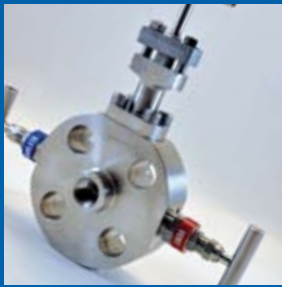
Budenberg Technical Services also provides individually tailored training courses for our customers covering, but not limited to the following areas: -

- Gauge Calibration Training / Certification to meet the requirements of ISO 9001 and EN 837-1
- Gauge Repairs/Maintenance (for approved distributors)
- Applications Training – Temperature and Pressure Instrumentation
- Applications Training – Instrumentation Valves and Double Block and Bleed Assemblies

All our courses are conducted by fully trained personnel to CIPD standards and certificates of attendance/competence will be issued (valid for one year) for all attendees.

Budenberg offers in-house training on our customers site for convenience (for course delegates numbers of five or more). Alternatively, open courses are run on Budenberg's premises for groups of delegates from a selection of companies.

For course dates and further details please contact our sales office.



# Budenberg

Budenberg Gauge Ltd are a sister company specialising in high quality instrumentation products to include pressure gauges and thermometers as well as an extensive range of transmitters and associated instrumentation products.

Contact **+44 (0) 161 777 7300** for further information

Distributor Details



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Website: [www.budenberg.co.uk](http://www.budenberg.co.uk)

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