



# Stewart-Buchanan Gauges Ltd

AN EMPLOYEE-OWNED COMPANY





## About Us

**At Stewart-Buchanan Gauges, we are a company that likes to stay one step ahead. Our commitment to innovation has led to an enviable reputation as a manufacturer of market-leading, technically advanced products. This reputation has enabled us to grow in highly competitive markets across Europe and around the world.**

Founded in Glasgow in the 1870's, we have thrived over our long history because we put our customers at the heart of everything we do. As an employee-owned company, our workforce is dedicated to manufacturing products of the highest quality to meet or even exceed the needs of our customers.

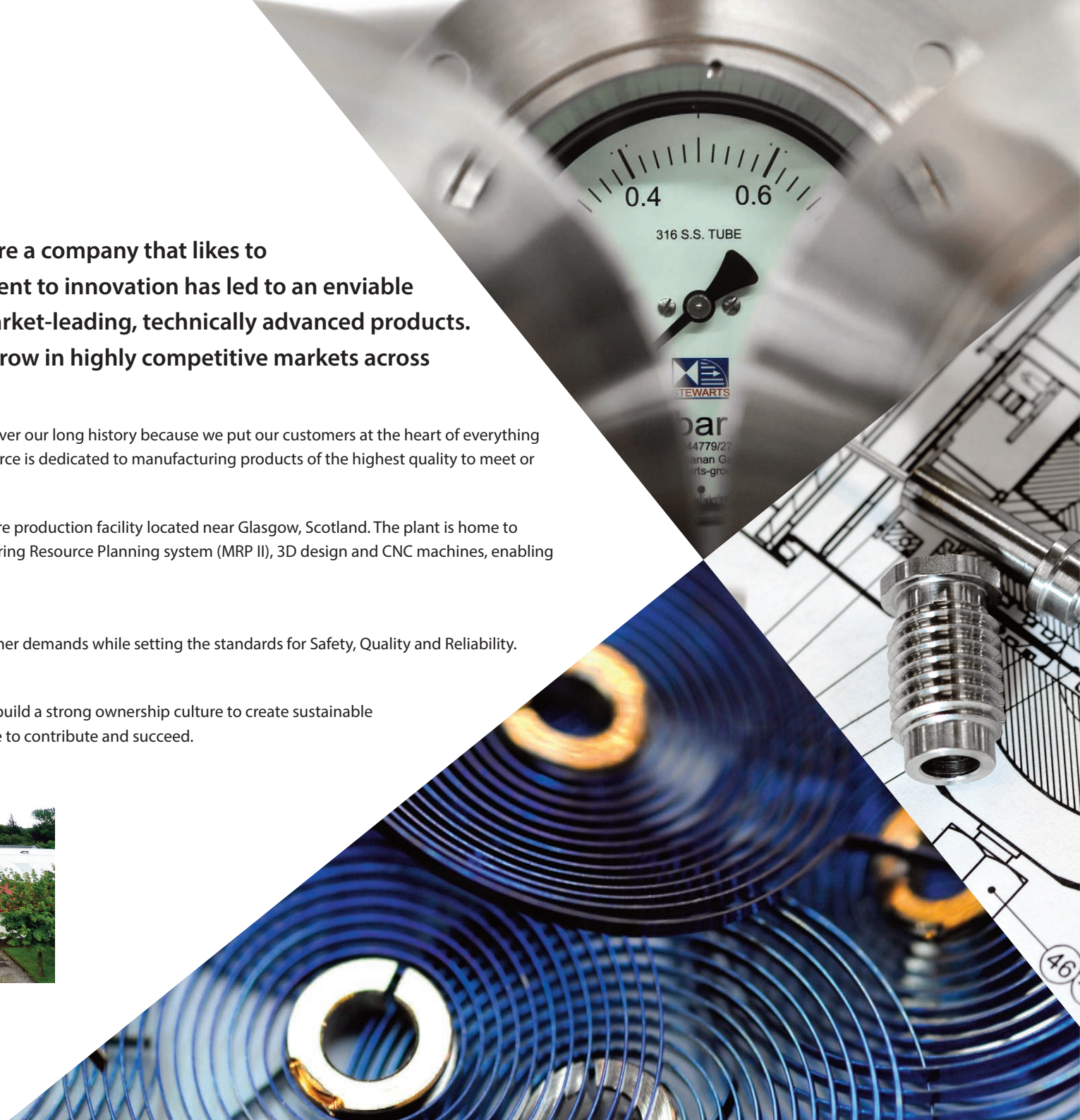
We employ over 120 people at our 4,000 square metre production facility located near Glasgow, Scotland. The plant is home to state-of-the-art machinery, including the Manufacturing Resource Planning system (MRP II), 3D design and CNC machines, enabling us to use the very latest manufacturing techniques.

### VISION STATEMENT

An employee owned company responding to customer demands while setting the standards for Safety, Quality and Reliability.

### MISSION STATEMENT

To recognize and exceed customer expectations. To build a strong ownership culture to create sustainable employment and the opportunity for each employee to contribute and succeed.



## ► PRESSURE GAUGES

Stewarts manufacture a vast range of analogue pressure gauges for absolute and differential pressure. For the optimal solution for the widest range of applications, there is a choice of measuring systems in Bourdon tube, diaphragm element and capsule element technologies.

For the various requirements in industrial and process instrumentation there are pressure elements in copper alloy, stainless steel or special materials available. Unless stated otherwise all Pressure Gauges are calibrated in accordance with EN837-1 to an Accuracy of Class-1.

**We have also developed a number of specialised gauges:**

**VIBRAGAUGE®** - to alleviate problems caused by Vibration;

**SNUBBAGAUGE®** - to alleviate problems caused by Shock and Surge;

**Nitelitegage®** - for use in Dark Areas (Luminescent Dial & Reflective Pointers).

We design and manufacture pressure gauges for customer's special requirements on request.

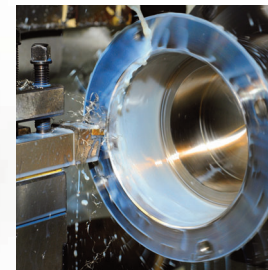




## ► SUBSEA PRESSURE GAUGES

Stewarts manufacture a range of Compensated and Non Compensated pressure gauges. We further compliment the SUBSEA range with various other types of instrumentation Chemical-Seals, Differential & Thermometers Gauges.

In catering for the needs of the subsea sector, Stewart-Buchanan are continuing to further develop products for full submersion use at various depths with increased options on standard specifications and customisable specials.



## ► THERMOMETER GAUGES

Stewarts manufacture a range of Bi Metal Rigid Stem Stainless Steel (with and without thermowells) & Inert Gas Distant Reading Stainless Steel thermometers in standard sizes of 63, 100 & 150mm.

Unless stated otherwise all thermometers are calibrated in accordance with EN 13190, up to 400 deg c Accuracy Class-1; above 400 deg c Accuracy Class-2.

We also manufacture Thermowells to customer requirements. Used to protect the temperature sensors installed in industrial processes.

We design and manufacture thermometers for customer's special requirements on request.



**98% of all components used in the manufacture of our products are designed, manufactured and assembled in-house.**  
**All of our products are also individually tested prior to dispatch.**

## ► SWIVADAPT® & SWIVEMAS®

Stewarts SWIVADAPT® and SWIVEMAS® help power stations, process plants and the oil and gas industry in reducing leak paths within pressurised systems, thereby reducing potential fugitive emissions in accordance with the EU's IPPC Directive 2008/1/EC.

Stewarts unique SWIVADAPT® joints have been developed for the close coupling of our full range of valves, pressure gauges and accessories, and is available in two versions - the Mark 1 and Mark 2.

The Mark-2 (or SWIVEMAS®) incorporates a secondary "backup" seal which further contributes to reducing potential fugitive emissions while providing further levels of safety should the primary sealing joint be compromised.

To accommodate the installation process and also enable the straightforward connection of peripheral equipment, both models give the added advantage of allowing orientation through a full 360°, as the joint is made without the need to rotate either of the cone faces.





## ► NEEDLE VALVES & MANIFOLDS

Stewarts offer a variety of precision engineered valves and 2, 3, and 5-valve Manifolds in Direct and Remote Mount styles with vent configurations to meet most flow, pressure and level measurement application requirements.

Stewarts 2-valve manifolds are designed for static pressure and liquid level applications; the 3 and 5 valve manifolds are well suited for use with most differential pressure transmitters and can accept both female and flange process impulse line connections.

Fire safe (optional)

On request, valves can be fire safe. Constructed compliant with BS 6755 Pt 2. / ISO 10497 (Max 6000 psi) API 6FA, API 607.



## ► BALL VALVES & MANIFOLDS

Stewarts offer a variety of precision engineered high quality ball valves & manifolds in 316 stainless steel as standard. Even the pressed handle on the valve is 316 stainless steel.

Offered in 6,000 and 10,000 PSI and from 9.5mm to 19mm diameter bore these valves are recommended for use in oil, gas and petrochemical applications where reliable long-term performance is essential.

Fire safe (optional)

On request, valves can be fire safe.

Constructed compliant with

BS 6755 Pt 2. /

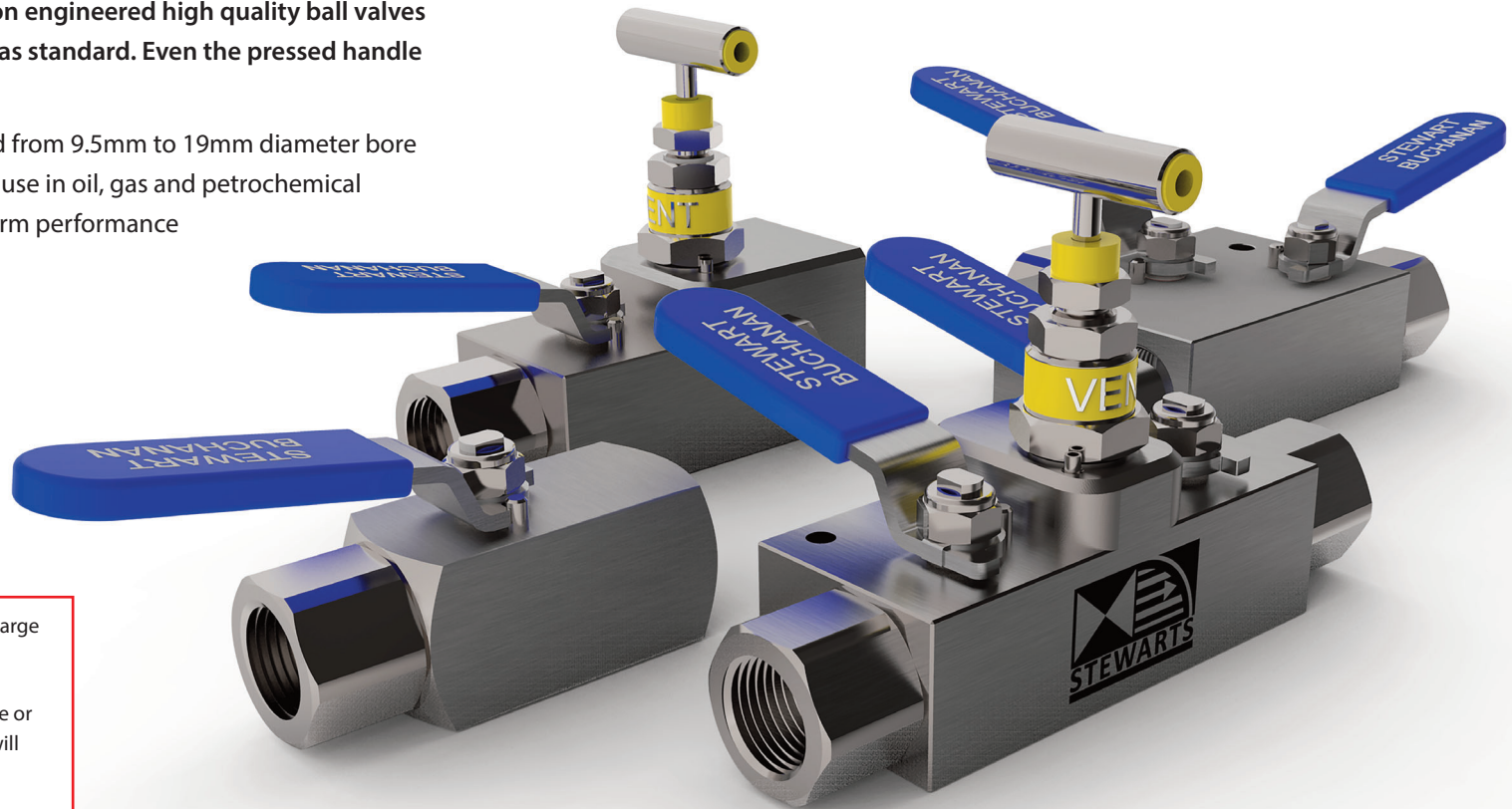
ISO 10497 (Max 6000 psi)

API 6FA, API 607.

**NOTE:** Stewarts work extensively with a large proportion of its clients in customising designs and configurations. We are well equipped to reproduce any "special" valve or manifold manufactured in the past. We will also work with any client in tailoring and producing a precision product with any number of valves; configured to meet the specific requirements of the system.

STEWARTS Valves & Manifolds have been designed to provide the safest possible connection and mounting of instruments.

All threaded connections are High Tolerance NPT. An extensive range of other materials are available on request.





## ► BLOCK & BLEED + DOUBLE BLOCK & BLEED FLANGED MANIFOLDS

Stewarts range of flanged manifolds have been developed to reduce installation time and set up costs by reducing the space and number of components required for a multi-valve configuration - while also lowering the number of potential leak paths in the system.

Machined from a single piece of 'grain flow controlled' forging, the resulting final assembled part incorporates the valve heads and outlet connections.

The manifolds with integral flange are designed as such to be installed directly onto your process equipment or into your piping system where ASME/ANSI integral flanges are present or are included as standard fittings.

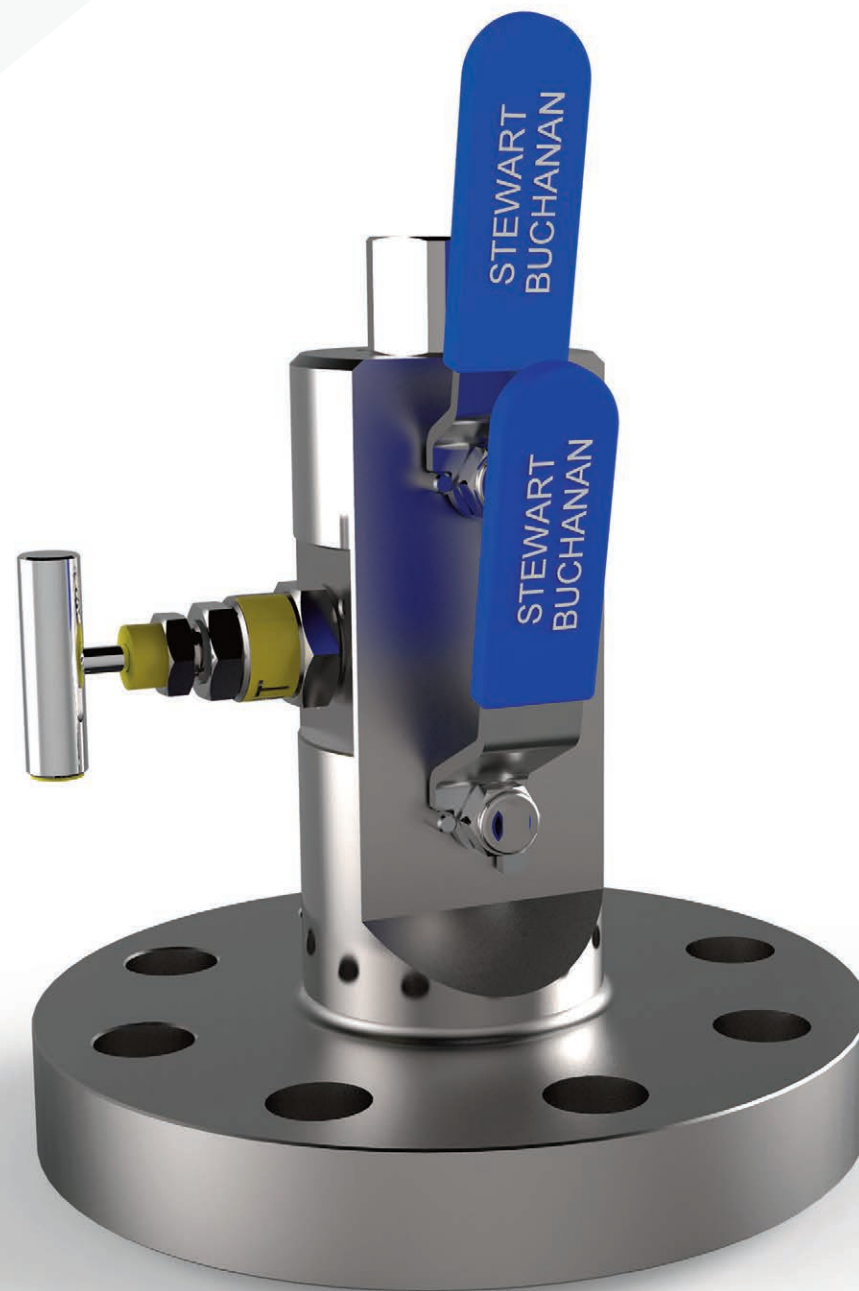
Our Flanged Manifolds can be configured with various valve types, and number of valves to suit the application. Configurations include Single and Double Block Bleed, Ball/Needle/Ball, Needle/Rising Plug, Vent valves or Bleed plugs and also Auxiliary equipment pipe connections.

A block/bleed configuration may be used where it is necessary to stop fluid/gas flow downstream from the manifold, when this part of the system is bled in order to carry out maintenance, repair or replacement work.

Our comprehensive range of Flanged Manifolds are designed for ease of installation foremost in mind, with no need to re-work piping within older systems when replacing or retro-fitting.

Fire safe (optional)

On request, valves can be fire safe. Constructed compliant with BS 6755 Pt 2. / ISO 10497 (Max 6000 psi) API 6FA, API 607.



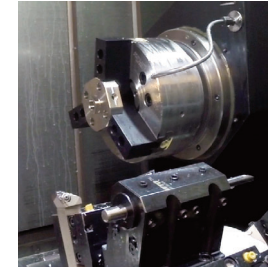
## ► MONOFLANGES

The Stewarts range of monoflange valves are specially designed to be installed directly onto your process equipment. The monoflange can be used for the direct attachment of pressure instrumentation where there is an ASME/ANSI integral flange present. They can also be “sandwiched” between sets of equipment to satisfy various design requirements of the system.

When used in place of flange adapters and separate valves, the “single piece” integral design of our range of Monoflange Valves reduces the number of potential leak paths, while also making your system much more compact.

Further advantages will be achieved in significant weight and component cost savings when compared to other conventional installation solutions.

Monoflanges can be configured as either single block and bleed or as double block and bleed, with a plugged vent port for the bleed.





## ▶ PANEL & INSTRUMENT ASSEMBLIES/ENCLOSURES

We have the facilities and expertise to design and manufacture control panels of the type shown opposite.

Our range is extensive and includes all type of instrumentation with corresponding pipe-work, valves, manifolds and electric wiring. A wide variety of enclosures and sun-shades are also available.

All are manufactured and tested under our strict quality control procedures approved under ISO 9001:2008 and have been used by major oil companies and pump manufacturers on important offshore projects.

We would welcome the opportunity to submit a quotation for your requirements.



## QUALITY STANDARDS

- ISO 9001
- P.E.R 1999 (S2001)
- P.E.D 97/23/EC
- MOD/DEF STAN - 66-2/4

**Note:** Our pressure & temperature gauges are manufactured to meet the CE marking requirements of P.E.R 1999 and P.E.D (S2001) 97/23/EC together with ISO 9001 approval.

### Materials

- 316L Stainless Steel (UNS S31600 / S31603)
  - MONEL® 400 (UNS N04400)
- HASTELLOY® C-276® (UNS N10276)
  - INCONEL® 625 (UNS N06625)
  - INCOLOY® 825 (UNS N08825)
  - TITANIUM Gr.2 (UNS R50400)
    - DUPLEX (UNS S31803)
  - SUPER DUPLEX (UNS S32760)
- HASTELLOY® C-22 (UNS N06022)
- SUPER AUSTENITIC ST.ST 6%Mo (UNS S31254)

**Note:** Other materials available on request. Optional features & extras are available.

**QUALITY ASSURANCE** - Stewart-Buchanan Gauges are totally committed to quality throughout our company. With our Quality Assurance and Quality Control procedures, all our products are designed, manufactured and delivered in accordance with customer requirements.

**RESEARCH & DEVELOPMENT** - Research is an important part of our company strategy and we pride ourselves in our ability to provide our customers with modern and effective design solutions. With customer requirements changing frequently, we and our customers strongly benefit from our expertise. As a result, we design and manufacture for customers special requirements, develop new products and make product improvements.



# Stewart-Buchanan Gauges Ltd

**AN EMPLOYEE-OWNED COMPANY**

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**PLEASE VISIT OUR WEBSITE AT:**

**[www.stewarts-group.com](http://www.stewarts-group.com)**

## We Design & Manufacture:

- Pressure Gauges
- Temperature Gauges
- High Pressure Needle & Ball Valves
- Needle Valve & Ball Valve Manifolds
- Monoflanges & OS&Y Monoflanges
- Double Block & Bleed Valves
- Injection Valves
- Sampling Valves
- Distribution Manifolds & Instrumentation
- Panel & Instrument Assemblies/Enclosures

## Main Markets:

- Oil and Petrochemical
- Gas and Compressed Air
- Power Generation
- Original Equipment Manufacturers (OEM)
- Food and Beverage
- Hydraulic
- Heating and Ventilation
- Test and Inspection
- Manufacturing Process

