

# Power to Control

Complete Range of  
Instrumentation Fittings &  
Valves



**PANAM ENGINEERS LTD.**

An ISO/TS 29001 Company

# The Company, Certifications & Approvals,



## The Company

**PANAM ENGINEERS LTD**, is an API ISO/TS 29001 Company & was established in 1998, with complete focus on exports in the field of Instrumentation Tube/Pipe Fittings and Valves, such as Needle Valves, Ball Valves, Check Valves, 2, 3, 5 Way Valve Manifolds, Gauge Root Valves, Relief Valves, Double Block & Bleed Valves, Industrial Valves also Pressure, Temperature & Diaphragm Gauges, Pressure Transmitters, Pressure Regulators, Thermowells & Accessories, Condensate Pot, Air Header etc.

**PANAM** Stands for Professionalism, Automation, Network, Authenticity and Motivation, Qualities that have made us one of the leading Manufacturers of Instrumentation Products.

**PANAM**'s strategy has been similar to the global economy which throws unpredictable variables every day, churning out success, in an area of prime concern. The dynamic ones have seized the moment and are getting solace from distant lands in their endeavor.

What makes customers stay or stray ? The quest for more concrete answers to this classic consumer behaviour, has spewed forth several models and

concepts which attempt to complement the standard satisfaction criteria. While every organization recognizes the need to acquire new customers, very few succeed in retaining their existing customer base.

**PANAM** gives importance to existing customers whilst developing new ones. "Customer Satisfaction" is the key to profitability. Satisfied customers are loyal customers who stand by us and Keep adding to our bottom line



## Growth

Every new idea is rooted in the original scheme of things and individually too is as firmly rooted as original, This has led to a well balanced growth.

**PANAM**'s in house facilities for every aspect of manufacturing fueled this growth and today **PANAM** has 2 Manufacturing units and a administrative office. **PANAM** has seen a growth of over 30% to 40 % each following year ever since its inception.

**PANAM** has extended its foot prints to Gujarat State and are coming up with huge plant having ten fold manufacturing facilities compared to existing.



# Growth, Online Support and Accessibility



## Online Support

[www.panamengineers.com](http://www.panamengineers.com) offers a complete and through insight into **PANAM's** product range, charting every product and possible development avenues as required by a customer and as per the standard range.

Spanning 300 Web pages, complete with data and specification of products along with drawings to help customer cut communication time and quicken the delivery process. The Web pages are constantly updated with the latest research and development of product information. We share this information with customers, so that we can grow together and make the process of growth transparent.

## Accessibility & Traceability

Quick response to enquires • Timely delivery schedules • Worldwide distribution set-up International quality • Raw materials procured are tested for quality and in-house laboratory tests determine the physical, chemical & heat endurance properties • Material test certificates are dispatched with each consignment individually making it easier for the customer to evaluate the quality • Each and every product is traceable as the heat, serial number and panam hologram stamped on it.

## Quality System Certificates

- API ISO 9001:2000 Company
- API ISO/TS 29001 Company
- API Specification Q-1
- API 6A Monogram
- API 6D Monogram
- API 600 Monogram
- API 602 Monogram
- Canadian Regd. No. (CRN) by Alberta Boiler Safety Asso (ABSA)

## Type Test Approvals

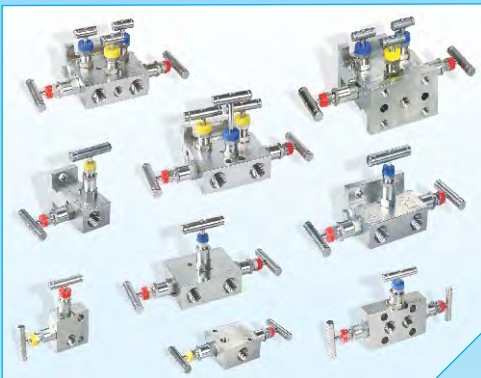
- Test Report as per ASTM F1387 - 99 by DNV
- Interchangeability Test Certificate by TUV
- BS 4368 Part IV Type Test for Compression Tube Fitting by PDIL & GIL
- MSS SP 99 Type Test for Instrument Valves & Manifolds by GIL
- Helium Leak Test Approved by TUV
- CE Marking for Tube Fittings & Instrumentation Valves
- Pressure Leak Test Report 1/4" Fittings @ 24000 psi. by Germanischer Lloyd

## Clients / Approvals

- ALSTOM
- BHEL
- CARIN INDIA
- DRDO
- EIL
- ESSAR
- FICHER
- GAIL INDIA
- GE GROUP
- GUJARAT GAS
- HPCL
- IOCL
- IIT
- ISRO
- L&T
- LEIGHTON
- WELSPUN
- MAZAGON DOCK
- MGL
- MECON/CNG
- NIGC
- NTPC
- ONGC
- PDIL
- RELIANCE
- SABIC
- SYRIAN GAS
- WIKA
- and many more



# Products



## 2, 3 & 5 Valve Manifolds

- ❑ Manifolds are available in SS 316, CS, Monel & Hastelloy materials.
- ❑ Various configuration:- Pipe to Pipe, Pipe to Flange, Flange to Flange, Remote Mount and Direct Mount.
- ❑ Non-Rotating vee tip provides repetitive & leak tight shutt-off.
- ❑ Maximum working pressure upto 10,000 psig (689 bar).
- ❑ PTFE Standard gland packing, Alternative graphoil packing for high temperature. Max. temperature upto 538°C (1000°F).
- ❑ Packing below threads to prevent lubricant washout.
- ❑ Externally adjustable gland.
- ❑ Low operating torque.
- ❑ 100% factory tested.
- ❑ All valves are NACE certified.
- ❑ Heat code traceability.



## Gauge Root Valves

- ❑ Gauge Root Valves are available in SS 316, CS, Monel & Hastelloy materials.
- ❑ Non-Rotating vee tip provides repetitive & leak tight shutt-off.
- ❑ Maximum working pressure upto 10,000 psig (689 bar).
- ❑ PTFE Standard gland packing, Alternative graphoil packing for high temperature. Max. temperature upto 538°C (1000°F).
- ❑ Packing below threads to prevent lubricant washout.
- ❑ Externally adjustable gland.
- ❑ Low operating torque.
- ❑ 100% factory tested.
- ❑ All valves are NACE certified.
- ❑ Heat code traceability.

# Products



## Needle Valves

- ❑ Needle Valves are available in IB, HB, HP, SB & Mini Series.
- ❑ Available in SS 316, Brass, CS, Monel & Hastelloy materials in forged & bar stock construction.
- ❑ Variety of end connections - Male & Female NPT, BSPP, BSPT, ISO tapered pipe ends & PANAM tube fittings.
- ❑ Maximum working pressure upto 20,000 psig. (1379 bar).
- ❑ PTFE standard gland packing, Alternate graphoil packing for high temperature. Max. temp. upto 538°C (1000°F).
- ❑ Non-rotating vee tip provides repetitive & leak tight shutt-off.
- ❑ Packing below threads to prevent lubricant washout.
- ❑ 100% factory tested.
- ❑ All valves are NACE certified.
- ❑ Heat code traceability.



## Ball Valves

- ❑ Ball Valves are available in 2, 3 & 5 way.
- ❑ Available in SS 316, CS, Monel & Hastelloy materials.
- ❑ Variety of end connections - Male & Female NPT, BSPP, BSPT, ISO tapered pipe ends & PANAM tube fittings.
- ❑ Maximum working pressure upto 10,000 psig. (689 bar).
- ❑ PTFE / PEEK / KEL-F seat available.
- ❑ Full or reduced bore for excellent flow.
- ❑ Three piece design for easy installation and maintenance.
- ❑ Anti blow out internally loaded stem for safety.
- ❑ Low operating torque.
- ❑ Panel mountable.
- ❑ 100% factory tested.
- ❑ All valves are NACE certified.
- ❑ Heat code traceability.



# Products



## Check Valves

- ❑ Check Valves are available in Stainless Steel and Brass materials.
- ❑ Variety of end connections - Male & Female NPT, BSPP, BSPT, ISO tapered pipe ends & PANAM tube fittings.
- ❑ Maximum working pressure upto 6,000 psig. (414 bar).
- ❑ Cracking pressure 1/3, 1, 5, 10, 25, 50, 75 & 100 psig.
- ❑ 100% factory tested.
- ❑ All valves are NACE certified.
- ❑ Heat code traceability.



## Relief Valves

- ❑ Relief Valves are available in Stainless Steel material.
- ❑ Variety of end connections-Male & Female NPT, BSPP, BSPT, ISO tapered pipe ends.
- ❑ Maximum working pressure upto 6,000 psig. (414 bar).
- ❑ Size ranging from 1/4" to 1/2" or 6mm OD to 12mm OD.
- ❑ Cracking pressure adjustable externally.
- ❑ Lock wire feature secures a given pressure setting.
- ❑ 100% factory tested.
- ❑ All valves are NACE certified.
- ❑ Heat code traceability.

# Products



## Tube Fittings

- ❑ Tube Fittings are available in SS 316, CS, Monel & Hastalloys materials.
- ❑ Variety of end connections - Male & Female NPT, BSPP, BSPT, ISO tapered pipe ends.
- ❑ Maximum working pressure upto 10,000 psig. (689 bar).
- ❑ Leak tight connections, withstanding high pressure.
- ❑ Low torque.
- ❑ NACE certification available upon request.
- ❑ Heat code traceability.



## Pipe Fittings

- ❑ Pipe Fittings are available in SS 316, CS, Monel & Hastalloys materials.
- ❑ Variety of end connections - Male & Female NPT, BSPP, BSPT, ISO tapered pipe ends, Tube / Pipe socket weld.
- ❑ Maximum working pressure upto 20,000 psig. (1379 bar).
- ❑ Size ranging from 1/8" to 2".
- ❑ NACE certification available upon request.
- ❑ Heat code traceability.

# Products



## Thermowells

- ❑ Thermowells are available in SS 316, CS, Brass, Titanium Monel & Hastelloys materials.
- ❑ Various range - Threaded, Flanged, Socket weld, Tapered & Straight.
- ❑ Instrument connection - 1/2" NPT / NPSM.
- ❑ Insertion length (U) upto 28".
- ❑ One piece construction.
- ❑ Cap & Chain available upon request.
- ❑ Other thread sizes available upon request.
- ❑ NACE certification available upon request.
- ❑ Heat code traceability.



## Pressure, Temperature & Diaphragm Gauges

- ❑ Gauges are available in SS 316 & SS 304 materials.
- ❑ Variety of mounting connections available - bottom, surface, back, panel & every angle.
- ❑ Dial size ranging from 50mm to 250mm.
- ❑ According to IS 3624 and EN standard.
- ❑ 100% factory tested.
- ❑ Case filling optional - glycerine or silicon oil.
- ❑ Heat code traceability.



# Products



## Pressure Transmitters

- ❑ Pressure Transmitter are available with optional flush mount.
- ❑ Available with capacitance or silicon sensor with diaphragm.
- ❑ Maximum range turndown 100:1.
- ❑ Available from -1 bar to 400 bar.
- ❑ Non-Intrusive magnetic controls.
- ❑ Back light LCD display for dark environment.
- ❑ Separate electronics and connection compartments.
- ❑ Housing can be rotated through 360°
- ❑ ATEX Certification.
- ❑ CE Marking.
- ❑ HART Protocol.



## Pressure Regulators

- ❑ Pressure Regulator are available in SS 316 or Brass materials.
- ❑ Available with a variety of porting and material options.
- ❑ Piston sensed design is safe and reliable.
- ❑ Maximum working pressure upto 10,000 psig. (689 bar).
- ❑ Adjustable stop limits maximum outlet pressure.
- ❑ Venting model available upon request.
- ❑ Low operating torque.
- ❑ 100% factory tested.
- ❑ All regulators are NACE certified.
- ❑ Heat code traceability.

# Products



## Double Block & Bleed Valves

- ❑ Double Block & Bleed valves are available in SS 316, CS, Monel & Hastelloy materials.
- ❑ Variety of end connections - Flange to Flange, Flange to NPT, NPT to NPT & Mono Flange.
- ❑ Maximum working pressure upto 10,000 psig (689 bar).
- ❑ Ball seats material - PTFE (Virgin or filled), PVDF, Nylon or PEEK, Bubble tight shutoff.
- ❑ Design to comply with requirements of ANSI / ASME 16:34.
- ❑ API monogram.
- ❑ Fire safe as per API 6FA.
- ❑ Low operating torque.
- ❑ 100% factory tested.
- ❑ All valves are NACE certified.
- ❑ Heat code traceability.



## Condensate Pots

- ❑ Condensate Pots are available in SS 316, CS, Monel & Hastelloy materials.
- ❑ Small thin design & light weight design allows you to combine with other valves in series for safe shutoff.
- ❑ End connections NPT, SW as per ANSI B2.1 & B 16.11
- ❑ Wall thickness schedule 40, 80 & 160. 1/2" Female NPT connections standard.
- ❑ Maximum working pressure upto 10,000 psig (689 bar).
- ❑ Size ranging from 1/2" to 2" - Class 150 to 2500
- ❑ 100% factory tested.
- ❑ Complies with ANSI
- ❑ Heat code traceability.

# Products



## Air Header

- ❑ Air Header are available in SS 316, SS 304 & CS, materials.
- ❑ Variety of end connections - Threaded, Flanged, Socket weld, Tapered & Straight.
- ❑ Instrument connection upto 2" NPT/NPSM
- ❑ All NPT thread will be as per ANSI B 2.1 & socket weld will be as per ANSI B 16.11
- ❑ 100% Radiography of pipe joints.
- ❑ Fabrication as per ASME SEC VIII DIV 1 ED
- ❑ NACE certification available upon request.
- ❑ Heat code traceability.



## Industrial Valves

- ❑ Gate Valves, Globe Valves, Check Valves & Ball Valves.
- ❑ Available in forged & cast steel materials.
- ❑ 1/4" to 2" screwed connections, 2" to 24" flanged connections.
- ❑ Pressure upto 2500 class.
- ❑ API Monogram.
- ❑ 100% factory tested.
- ❑ NACE certification available upon request.
- ❑ Heat code traceability.





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