



INNOVATE. TEST. DELIVER

www.thomasandbrian.com

WHO ARE WE

We are one of the few organizations, who customers turn to when they are looking for solutions in *Material Conformity, Plant Productivity, Performance Enhancements of Products and Systems, Corrosion Resistance and Product Indigenization* with a clear emphasis on cost effectiveness and safety.

Our product range and knowledge are not limited to our standard line of products, but we also specialize in providing Critical Application based Solutions to our customers. Material Conformity

Plant Productivity

Corrosion Resistance

Product Indigenization





CORE CONCEPTS

VALUES

Accountability

We take ownership of outcomes, good or bad in any circumstance.

Commitment to customers

Our prime focus is to fulfill the customer's needs and surpass their expectations.

Consistency

We will always ensure consistency in product performance and quality first time every time.

Respect

We respect our customers, suppliers and colleagues equally in any circumstance.

Integrity

We are and will always strive towards being fair, honest and humble with all our stakeholders internal and external.

VISION

To be a globally respected Indian company for products and solutions for critical applications in the Energy, Instrumentation, Fire Fighting and Defense industry.

MISSION

To be focused on providing customers with world-class fluid control solutions, using advanced materials, fluid compatibility knowledge and three decades of experience in precision machining.







OUR STORY

1985 Thomas Quadros established Marialex Industries



1986 Grew machining capability form manual to semi automatic machines

1987 Thomas & Brian®

Thomas Quadros incorporated Thomas & Brian Mfg. Co. INSTRUMENTATION PIPING SYSTEMS & COMPONENTS

Powerlok Fittings and Nanflo Instrumentation Valves are born 1992 serving the Energy, Chemical and Nuclear Industries of India

Thomas Quadros indegenized forging in 1999 India for Nanflo Valves & Powerlok Fittings for the energy sector



Manufacturing facility moved 2002 to current location of 25000 sq.ft. workspace







2003 Thomas and Brian® purchased its first ever CNC Lathe Machine of LMW (Lakshmi Machine Works)



2007 Thomas and Brian® established its own in house forge shop



Product range was now catering to Analytical Instrumentation, Defence (Navy) Industry, HPLC and HPGC, Industrial, Medical, Calibration and Corrosive gases

Thomas and Brian® has supported more than a dozen Indian Brands with its technology and product designs by this time and its products are sold in more than 45 countries



2016 Developed a new rage of Automatic Fire Suppression Valves & Fittings for the Fire Industry







2017 COREZ® Surface Modifications was developed for corrosion resistance applications



2018 Added *Mazak Variaxis 500* (5 axis) and *HAAS VMC* machines to its range to handle complex geometries

2020 Consolidated all *Instrumentation Valves & Fittings* under *Powerlok*TM - *Valves and Fittings*









Fittings

Powerlok™ Tube & Pipe Fittings

Low cost and High performing fittings for all applications Radial junction for smooth flow paths in Elbows
Operating Pressure Range Up to 11000 psig
Tube Size (OD) from 1/16" to 2" (2 to 50 mm)
Fittings Configurations in Straight, Elbow, Cross, Tee
Materials of Construction Stainless Steel, Brass and
Nickel Alloys



Series:

Powerlok™ Twin-Ferrule, Threaded and Weld end connections





Instrumentation Valve Manifolds

Rugged One-Piece Forged Body Construction Metal to Metal Bonnet to Body Seal Maximum pressure 10000 psig Maximum temperature up to 640°C Flange Ends as per IEC 61518 Type A & B



Series:

Two Valve Manifolds for Liquid Level and Static Pressure Applications
Three and Five Valve Manifolds for Differential Pressure Applications

Guage Root Valves

Rugged One-Piece Stainless Steel Body Construction Metal to Metal Bonnet to Body Seal Maximum temperature up to 640°C Non-Rotating Ball or V-Tip and Plug Tip (Soft Seat) Stem designs NACE complaint variant on request









Ball Valves

Ball Valves for a variety of applications right from general service to fuel service

Pressure rating up to 20000 psig

Anti blow-out gland as standard in most variants

No packing adjustment required up to 30000 cycles

Variety of Seats for high pressure and high cycle applications

Lowest operating torque in pressurized conditions

Sour Gas Service Compliant as per NACE MR-01-75



Series:

Direct and Panel Mount (Instrumentation Series)
Trunnion Mount Series (Alternate Fuel Service)
Top Entry Series (Process Flow Control)
Medium Pressure up to 15000 psig

Needle Valves

Trust Powerlok™ Needle Valves for positive shut-off, regulation and high flow applications.

Pressures up to 30000 psig

Soft and Metal seat options

Through Bore options for high flow applications

Screwed and Integral bonnet designs

Sour Gas Service Compliant as per

NACE MR-01-75

Series:

Integral Bonnet (IB Series)
Screwed Bonnet (SB Series)
Union Bonnet (UB Series for Severe Service)
HP Series (High Pressure fo up to 30000 psig)





Check Valves

Powerlok™ Check Valves in fixed cracking pressures for accurate control of system back pressure

Elastomer Seat for positive shut-off Metal seat for hydraulic applications Cracking pressure range from 1 to 25 psig Size range from 1/8" to 2" (2 to 50 mm)



Series:

Soft Seat (O Ring Seal)

Safety Relief Valves

Soft Seat (Elastomer and Polymer) as standard Metal Seat for high temperature and hydraulic applications Reseal achieved within 5% of relief pressure Variety of spring kits for over pressure protection up to 6000 psig

Series:

Proportional Relief Series Direct Acting Series High Pressure Series (up to 15000 psig)







DBB (Double Block & Bleed) and Monoflange

Powerlok[™] range of Double Block & Bleed valves for a variety of closed coupled applications for vent/drain, chemical injection, sampling, isolation and severe service.

Primary Isolation and pressure measurement
Reduce leak points with enhanced safety
Variety of construction options available Single forged body
Two and Three piece bolted design
Process Monoflange Valves in Two Block and One Bleed
configurations Fire safe as per API 6FA and API 607
Pressures from Class 150 to 2500 in accordance
to ASME B16.5



Series:

Single Piece Forged Three Piece Bolted Two Piece Forged

Reduced fugitive emission valves

Flush Bottom Valves

Powerlok™ range of Flush bottom valves for high pressure autoclave and pressure vessel applications.

Negative fluid hold-up design
Unique Rising Piston design
Pressure rating 6000 psig
Single piece forged body construction
PEEK seals as standard for up to 320°C
Graphite seals for applications up to 600°C
BSP end connections with recommended metal sealing







Over Pressure Protector

Over Pressure Protectors

Spring Loaded Design to protect Pressure Gauges Wide variety of Set Pressure Ranges Minimum Pressures as low as 6 psig Standard size range of ¼" and 1/2" Operating Pressures up to 10000 psig Pressure





Filters

Space Saving Filters
Stainless Steel Construction as Standard
All sintered elements as replaceable for quick maintenance
Pressures up to 6000 psig
Particulate filter range from 0.5 to 90 microns
Stainless Steel as standard, Special alloys on request



IF Series (Inline)
ITF Series (Tee Type)







Pressure Regulators

Pressure Regulator

Powerlok[™] wide range of Pressure Regulators for all possible applications for safe operation of fluid systems.

Compact Design

Piston and Diaphragm Sensed Options Available

Optional features include self-venting and capture vent

Pressure Control Ranges:

to 10 psig through 0 to 500 psig (Diaphragm Sensed)

0 to 3600 psig (Piston Sensed)

Valve Seats PEEK, PCTFE, PTFE (As per pressure & Nature of

Fluid Media)

Metal Seat options for high pressure hydraulic applications



Forward Pressure Series (Pilot Regulators)

Back Pressure Series

High Pressure Hydraulic Series

High Sensitivity Series

High Flow Series

Automatic Fire Suppression Range

Automatic Fire Suppression Range

Powerlok[™] range of Valves and accessories for Automatic Fire Suppression Systems. Achieve performance of global standards with products using designed to achieve quick suppression using clean agents like FM-200[™], NOVEC[®] and CO2.

Integral Designs with reduced leak points
Variety of modular connections for flexible system designs
Working Pressures up to 1500 psig

Series:

IDLP (Indirect Release Low Pressure)
IDHP (Indirect High Pressure)
DLP (Direct Low Pressure)
HPC (High Pressure CO2. Series)











Thomas & Brian® brings you the most comprehensive solutions in Corrosion resistance and Chemical Compatibility through COREZ® Surface Modifications Solution.

COREZ® treatments are advanced Fluoro-Polymer treatments done on various Metal Equipments prone to Heavy corrosion and Chemical Attack. These coatings can be used in for performance enhancement like Lubricity or Enhance Non-Stick properties against corrosive & reactive chemicals.

Fuloro-Polymer Treatment Solutions



ETFE

ECTFE

PVDF

PFA

PEEK





CASE STUDIES

Super-Crtical Fluid Extraction using CO₂

Product used: Ball Valve

Industry: Chemical and Pharmaceutical.

High Operation Process Application

Product used: Actuated Needle Valve

Industry: Process Automation

High Operation Cycle Application

Product used : Actuated Ball Valve Industry : Packaging and Automation

Crude Line Application

Product used::Full Bore Ball Valve

Industry: Oil and Gas

Xylene Application at 30°C

Product used : Flanged Polymer Ball Valve Industry : Chemical and Pharmaceutical

High Viscous Fluid

Product used: Through Bore Needle Valve

Industry: Chemical Process



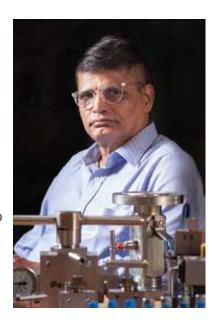




OUR LEADERSHIP

E. T. Quadros Founding Chairman and Managing Director

Thomas & Brian® was founded in early 1987 by Mr. E T Quadros with an initial loan of \$350 with a clear vision of "giving the Best products available to the Indian end-users". His only mission was to provide the end-users with the best performing product which till date is part of our core concepts and the company's culture.





Brian Quadros

Director - Sales & Marketing



Meera Quadros

Director - Admin & Human Resource



Amol Kaveskar
Chief Technical Officer







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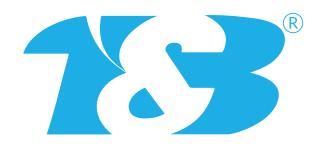
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