Company Profile



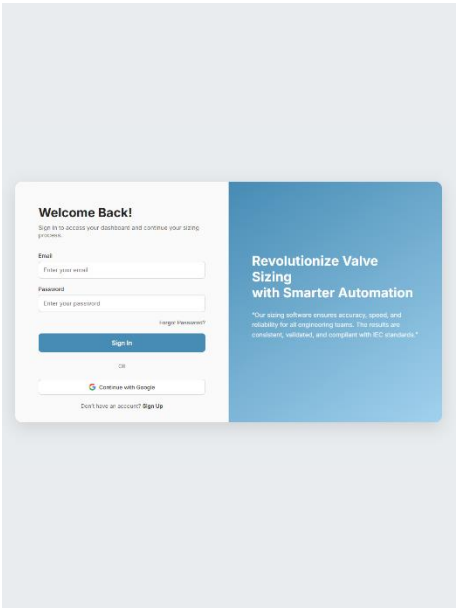
Design, Manufacture, Supply and Servicing of
Bespoke & Severe Service Control valves

Contents











01_Overview

- About us
- Founder's Profile
- Team Chart
- Growth Enablers
- FCC's Differentiation

02_Products

- Globe Control Valve
- Butterfly Control Valve
- MSD Actuator
- Piston Actuator

03_Manufacturing

- Manufacturing Process
- Capacities
- Inward Inspection
- Assembly & Testing
- Special Tests
- Painting
- Packing & Shipment

04_Tools

- ERP Software
- Sizing Software
- Engg & Design Software

05_Credentials

- Certifications
- Customers list

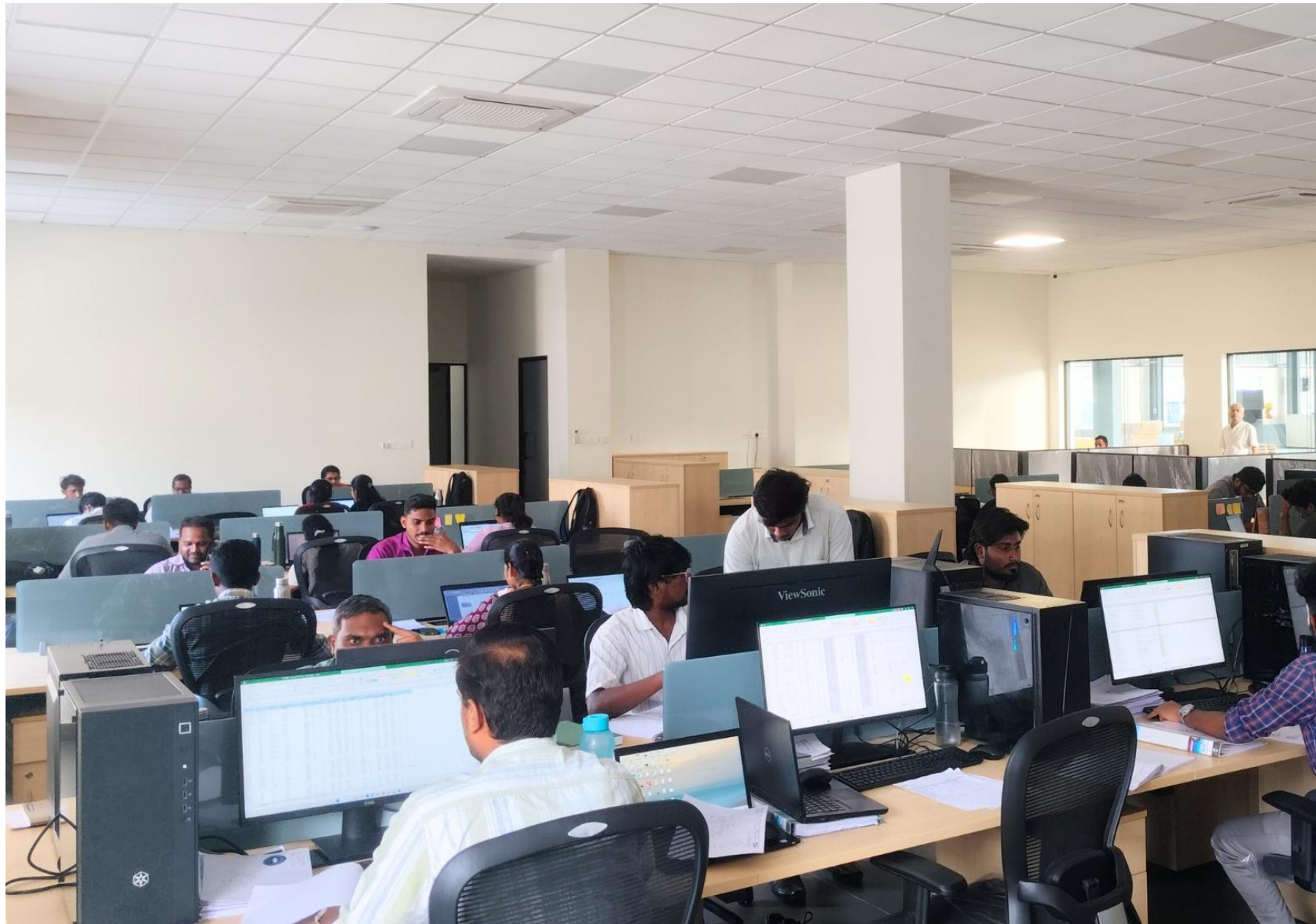
About Us

Flow Control Commune, Chennai, India is an Integrated Control Valve Facility, with Marketing, Design, R&D, Manufacturing, all under one roof!

Professional & Passionate Team with Customer focus & rich experience in providing successful design solutions to global customers in Oil & Gas, LNG, Air Separation, Refinery, Fertilizer, Chemicals, Power and Water Industry.

Core competence is designing and manufacturing of Standard, Bespoke & Severe Service Control valves.

Trust & Care for all stakeholders is central to our business!



Founder's Profile



G. Kalaiselvan
1992 - BE Mechanical
From NIT Trichy, India

Started up FCC by January 2022.
A fast-growing control valve company with Customer focus and Passionate people, at its core. Emphasis is on a good foundation with excellent people, good infrastructure, R&D, Robust processes, Win-win partnerships and ethical conduct.

Past Experience

Phase-1 (Technical Expertise)

Application Engineering Solutions for Several Major Projects

Phase-2 (Establishing & Growing business)

- Starting up of the business and factory
- Hiring the right mix of people & coaching people
- Devising & Implementing innovative & Disruptive marketing strategies

Phase-3 (Establishing Longevity)

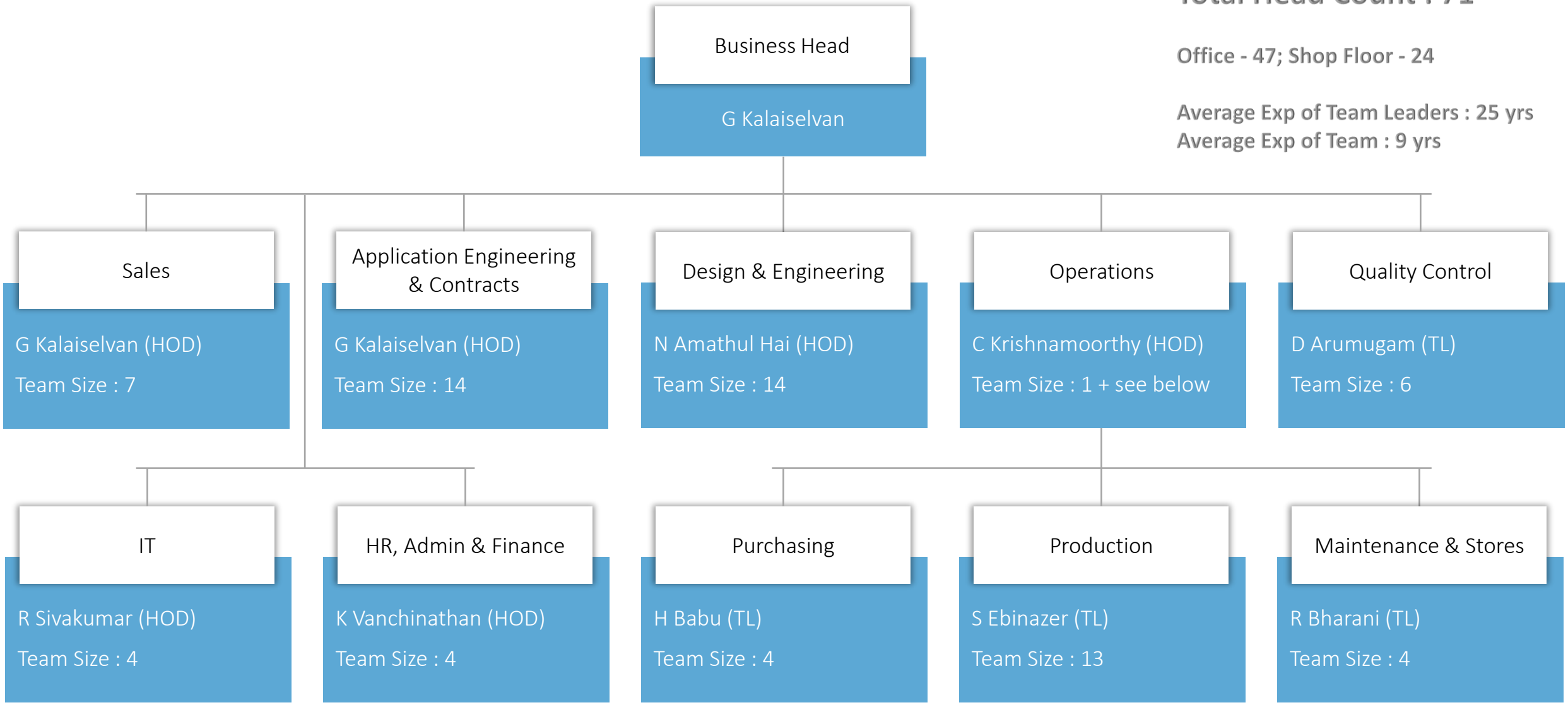
- Successfully designed & launched 4 products including API 6A adjustable chokes
- Established robust systems and processes
- Built exceptional IT infrastructure

Team Chart

Total Head Count : 71

Office - 47; Shop Floor - 24

Average Exp of Team Leaders : 25 yrs
Average Exp of Team : 9 yrs



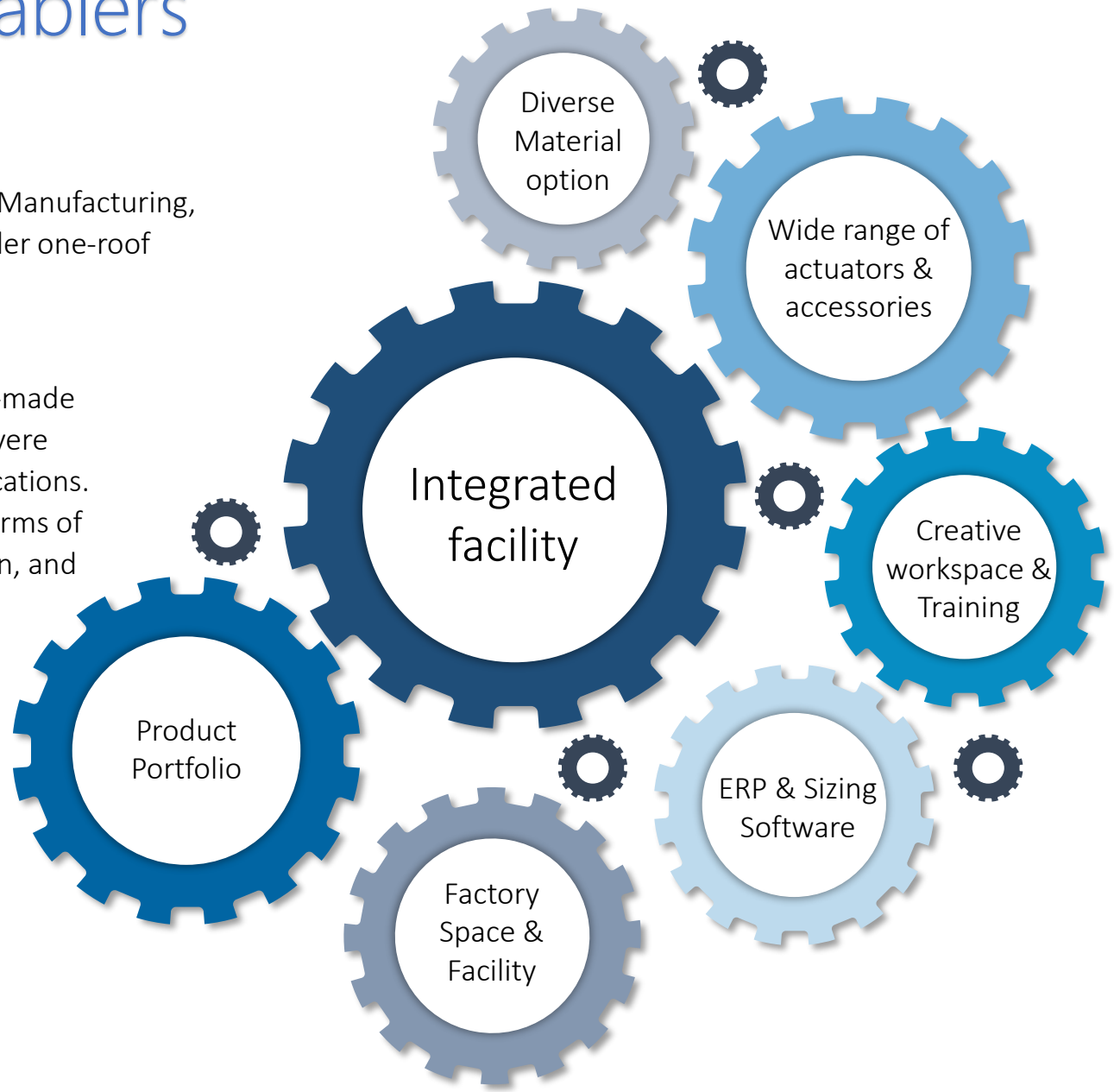
Growth Enablers

1. Integrated Facility

Engineering, Design, R&D, Manufacturing, Assembly & Testing, all under one-roof

2. Product Portfolio

Capable of delivering tailor-made solutions for a variety of severe service & challenging applications. Wide range of offering in terms of Size, Rating, MOC, Actuation, and Accessories



3. Facilities & Capabilities

40,000 sqft factory
(100,000 sqft plot area)
Efficient Material handling, Varied Testing facilities, Competent & Certified personnel, Scalability to handle project of any size

4. ERP & Sizing Software

ERP integrates the company's core business processes into one system. In-house engineered software optimizes valve sizing and selection processes

5. People Development

A purpose-built workspace combining professional training to foster creativity drives both individual and team growth

FCC’s Differentiation

Products

- Bespoke & Severe service valves
- Large size, High-pressure valves, Cryogenic valves
- Pneumatic, Electrical & E/H actuation
- Special Material requirements
- Meeting Special testing, & Project documentation requirements

Organization, its People

- Customer First Policy
- Focused on Design and R&D
- Efficient in handling changes
- 60% Engineers & 40% Technicians

Processes

- Stage gate process flow with suitable controls
- Identification of Project risks & Mitigation
- Exceptional IT infrastructure



ASU & LNG Focus

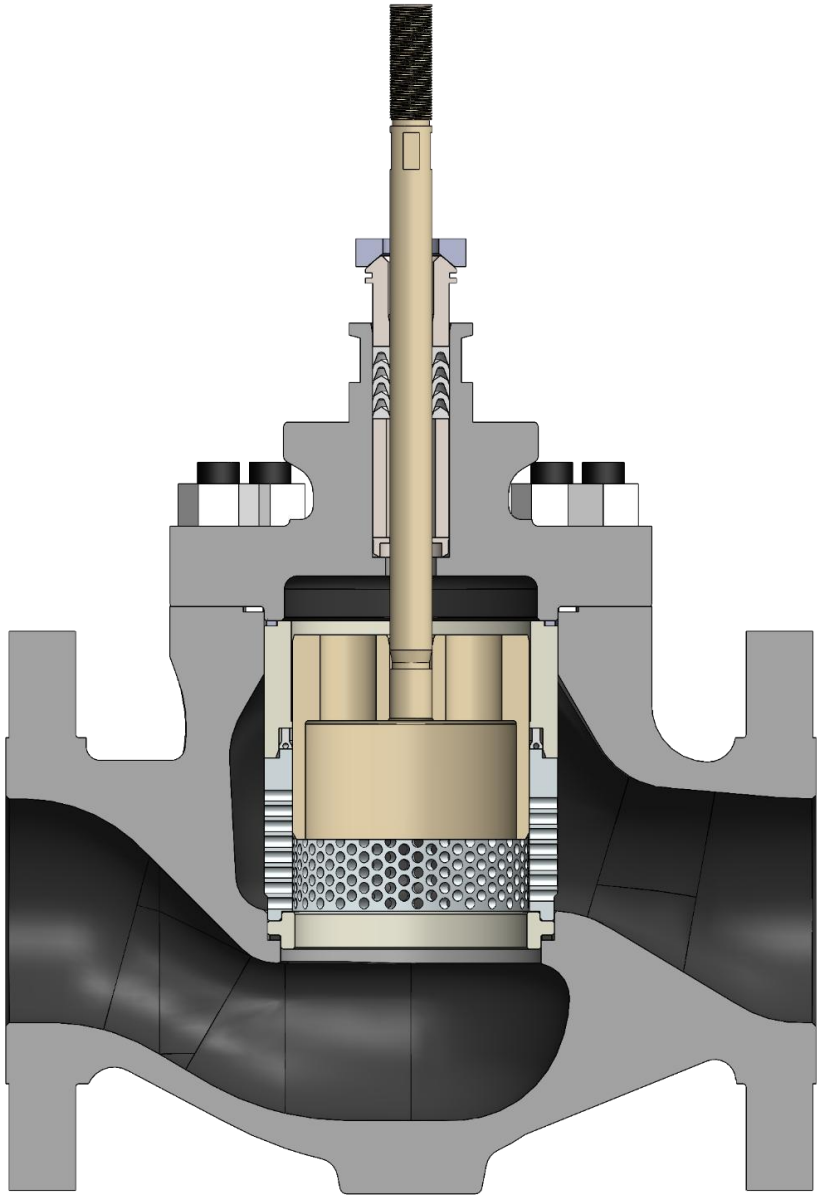
- Cryogenic Yard Valves
- Cold-Box Valves (Top Entry design)
- Monel, Aluminum, HTB1 valves
- BAM certified soft parts
- Optional Seal boot
- Bellow Seal Valves
- Warm service Globe control valves

- Clean Room (ISO Class 7)
- Cryogenic testing
- Special Tools for Top Entry valves
- Joule Thomson Valves
- Large size Air Intake valves



Product Range | Globe Control valves

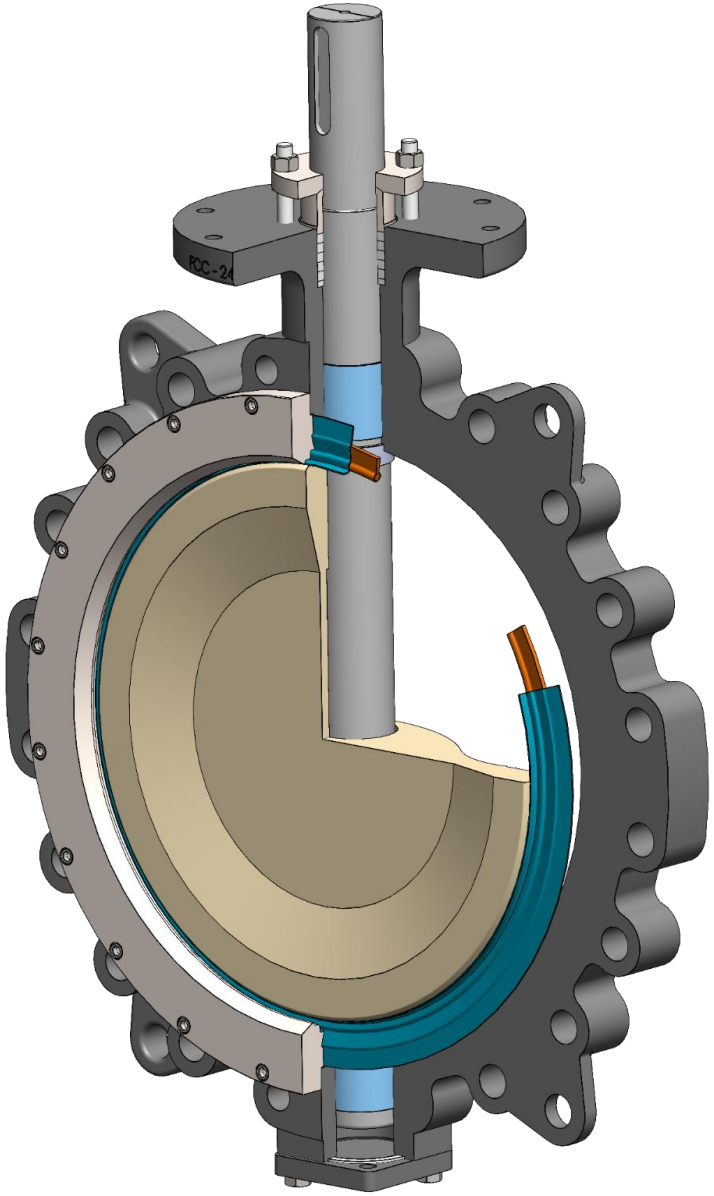
- Designed for 30 years service with variety of Bonnet, Trim types & Material options
- Clamped seat design, for ease of assembly, replacement of parts and for ensuring perfect alignment and concentricity of trim parts
- Rugged guiding is achieved through cage or post guidance rather than stem-guided construction, effectively preventing stem scoring and reducing the risk of packing leakage.
- Contoured, MHC, Multi-step Trims & Stack Trims, Anti-Cavitation and Low dB Trim, available
- Longer Travel for better controllability
- Actuators are mounted by clamping arrangement to avoid ceasing in harsh corrosive / offshore environments
- Fewer parts for better ruggedness and assembly Integrity
- Full B16.34 rating is valid for NACE service also
- Lifting provisions are also available



Size (in)	Series 10	Series 11	
	150-600	900,1500	2500
1	X	X	X
1.5	X	X	X
2	X	X	X
3	X	X	X
4	X	X	X
6	X	X	X
8	X	X	
10	X	X	
12	X	X	
14	X		
16	X		
18	X		
20	X		
24	X		

Product Range | Butterfly Control Valves

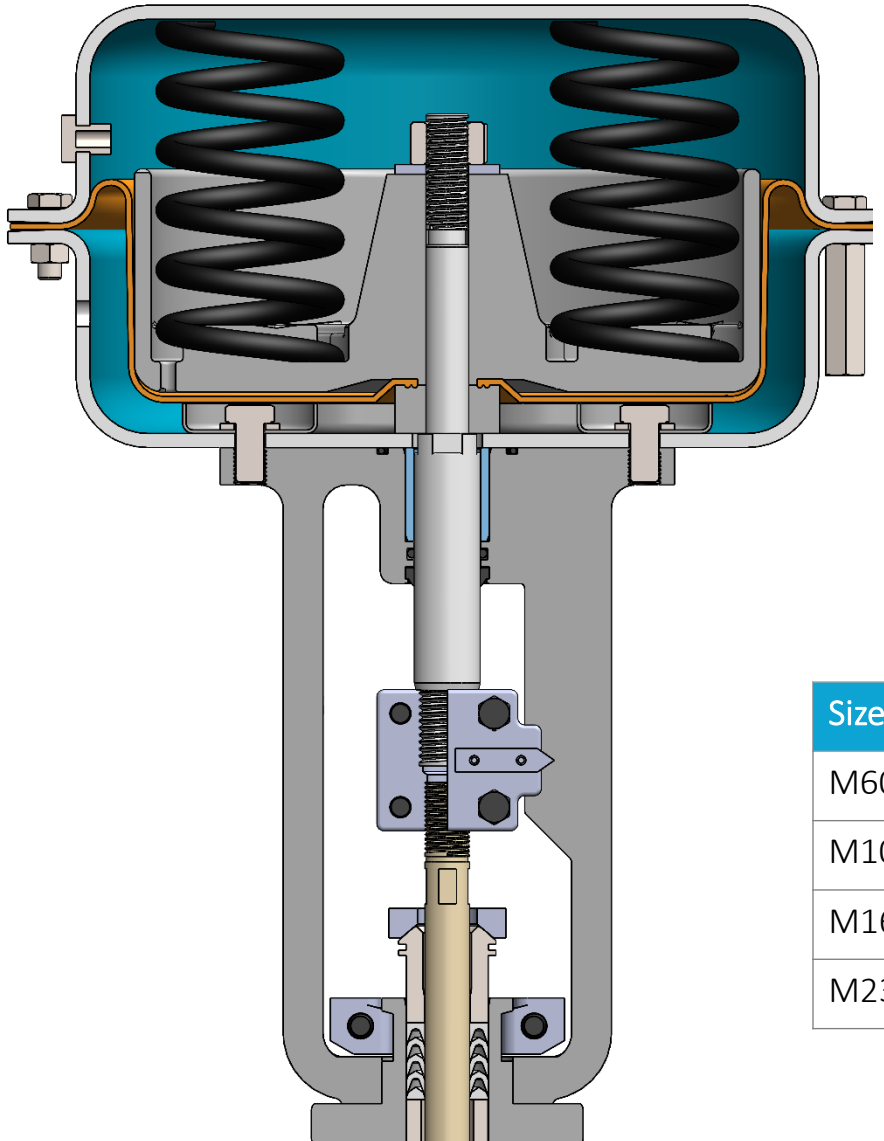
- Double & Triple offset butterfly valves, designed for 30 years service with variety of Bonnet, Trim & Material options
- Available in Wafer, Lugged & double flange constructions
- Through shaft design for sturdy operation and efficient transfer of torque
- Frictionless seating leading to increased seal-life
- Field replaceable seats enabling quick and easy maintenance
- Hydrodynamic design of the disc results in high flow coefficient
- Anti-Blowout shaft
- Fire safe design as per API 607
- Anti-cavitation trim design provides solution to high-pressure drop and high-noise applications
- Bi-directional shutoff with resilient seat design
- Shaft MOC to offer high MAST capability
- Larger sizes are available on request



Size (in)	Series 20		Series 21	
	150	300,600	150	300,600
3	X	X	X	X
4	X	X	X	X
6	X	X	X	X
8	X	X	X	X
10	X	X	X	X
12	X	X	X	X
14	X	X	X	X
16	X	X	X	X
18	X	X	X	X
20	X	X	X	X
24	X	X	X	X
30	X	X	X	X
36	X	X	X	X

Multi-spring Diaphragm Actuator

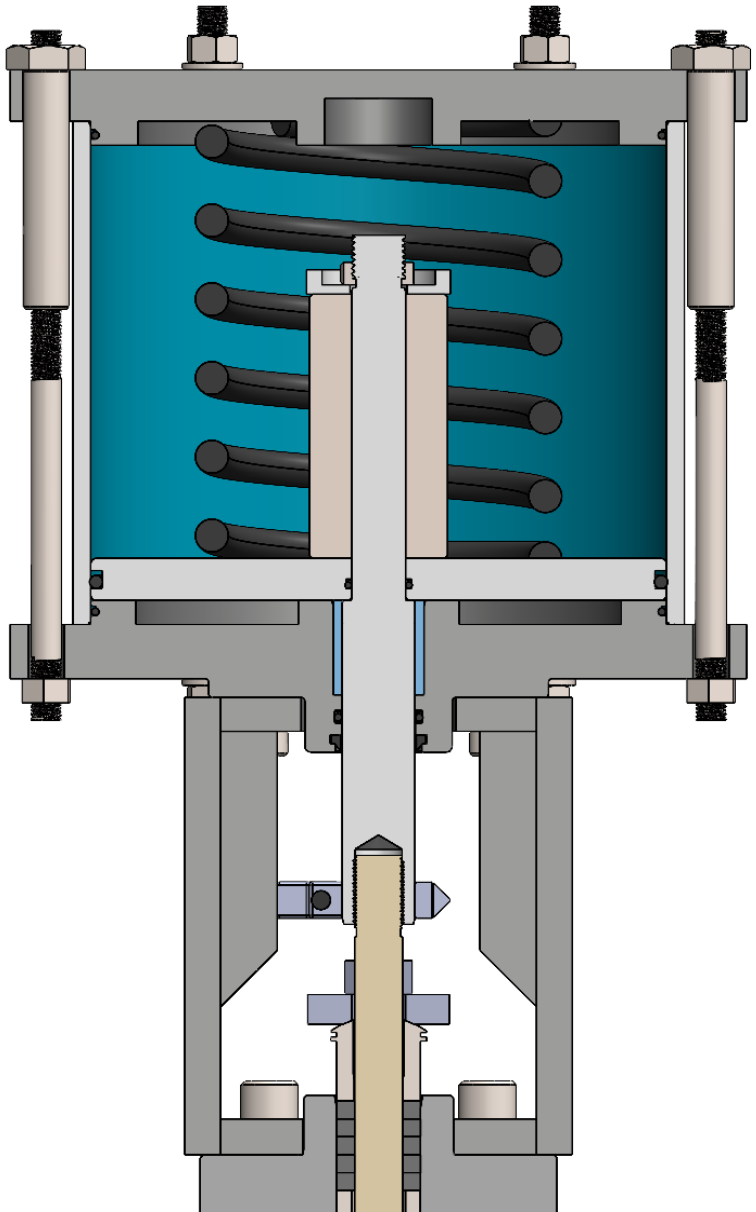
- Compact design
- Positive air fail action
- Field reversible
- Ease of maintenance
- Broad range of thrust accomplished with fewer spring part numbers, enhancing simplicity and reliability.
- Design pressure 7 bar and operating pressure 4.1 bar
- Side mounted manual override for easy access
- Material options available for low temperature ambient condition
- Limit open and limit close options
- Standard mounting and coupling arrangement for ease of assembly & standardization



Size	Travel options
M60	0.75”
M100	0.75”, 1.125”, 1.5”
M160	0.75”, 1.125”, 1.5”, 2”, 2.5”
M230	0.75”, 1.125”, 1.5”, 2”, 2.5”, 3”,4”

Piston Actuator

- High Thrust capability
- Multiple travel options including Longer travel
- Positive air fail action
- High degree of stem positioning accuracy
- High stability providing inherent stiffness over full stroke
- Field reversible
- Ease of maintenance
- Standard mounting and coupling arrangement for ease of assembly & standardisation
- Top mounted and side mounted manual override
- Limit open and limit close options
- Introducing canister design for enhanced safety



Size	Travel Options
P30ST	0.75”
P50ST	0.75”, 1.125”, 1.5”
P110ST	0.75”, 1.125”, 1.5”, 2”, 2.5”
P110LT-6	3”, 4”, 5”, 6”
P110LT-12	8”, 9”, 12”
P220LT-6	3”, 4”, 5”, 6”
P220LT-12	8”, 9”, 12”
P110SL	3”, 4”, 5”, 6”, 8”, 9”, 12”
P220SL	3”, 4”, 5”, 6”, 8”, 9”, 12”

Manufacturing Process



Contract Review 1

- Contract Review
- Order Entry
- Order Management
- ITP



Planning 2

- Planning
- Scheduling



Engineering & Design 3

- BOM & GAD
- Purchasing, Manuf. & Testing information
- Final Review



Purchasing 4

- Purchasing
- Inward Inspection
- Stores
- Kit Issue



Assembly & Testing 5

- Assembly
- FAT
- Painting



Final Inspection & Product Release 6

- Compilation of Certification Pack
- Co-ordination with TPI
- Final Inspection & Product Release

Additional Activities for NPD

- Identification of design & dev. activities & stages
- Resources requirements
- Task assignment
- Review, Verification & Validation req.
- List of documents req.

- Design Calculation & PDG
- Modelling
- Verification
- Drawing Release

- Sample development (includes Tooling dev.)
- Special process dev.

- Validation tests
- Test set-up development

Review

Capacities

1. Quote Preparation 100,000 valves
2. Contract Management 2000 valves
3. Engineering 2000 valves
4. NPD 100 valves
5. Supply Chain Not a limitation
6. Production 2000* valves
7. Quality Control 2000* valves

Current load, 600-1200 valves
Phase-2 Capacity, 5000 valves



Inward Inspection

All controlled documents required for component inspection like latest drawings, technical specifications and standards are available as soft copy in inspection area.

Typically, Inward inspection involves,

- Dimensional verification
- Review of Material Test Certificates
- Material Verification - PMI
- MT/PT for all pressure parts
- Review of RT films

Components are inspected and accepted based on PTS, Drawings and Standards



Inward Inspection | NDE

NDT qualified personnel – 7 (ASNT SNT TC 1A)
Leak test certified personnel - 1

- Magnetic Particle Testing (MT) is performed for Carbon steel Body-Bonnets
- Liquid Penetrant Tested (PT) is performed for Non Ferro-Magnetic Body-Bonnets and Trim Parts
- Radiography Testing (RT) is performed on all sample castings and casting with pressure class rating 900# & above.
- Ultrasonic Testing (UT) is employed for flaw detection, quality evaluation of forgings and also used for thickness measurement.



Assembly & Testing

- Adequately Equipped to meet with Assembly & Testing requirements as per IEC 60534-4, ISA 75.19.01, ANSI B16.34, API 598 for hydro test, seat leak tests etc.
- Sufficient factory space of 40000 sq ft and a roof height of 10 meters
- FE test, Cryogenic tests etc. can be performed as per applicable standards and customer specifications.
- ISO class-7 Clean room assembly
- Fully geared with material handling (up to 7.5 Tons) equipment, storage racks and retrieval processes assisted by Bar code / RFID.



Special Testing

- FE Test (ISO 15848-1,2)
- Fire safe test (API 607)
- Cryogenic test (ISO 28921-1,2 and BS 6364
- Dynamic Response Testing
- Endurance Testing
  Piston and Spring & diaphragm actuators are tested for 100,000 Full stroke cycles (open-close)
- Flow capacity testing (ISA 75.02) by Independent NABL accredited Flow Test Labs, FCRI / Nagman.





Painting

FCC offers both onshore & offshore painting systems. The painting process is controlled through established procedures to ensure consistent, high-quality outputs.

Quality verification includes

- Visual inspection
- Color verification
- WFT & DFT measurements
- Replica tape method for surface profile
- Salt contamination (Bresle) test
- Dust level tape test
- Adhesion test

Inspection by NACE Level II coating Inspector



Packing & Shipment

Prior to packing, each valve undergoes a final quality inspection to verify end protection, coating/painting quality, and nameplate or tag details.

The condition of the packing box, valve support, and moisture protection is verified for every shipment.

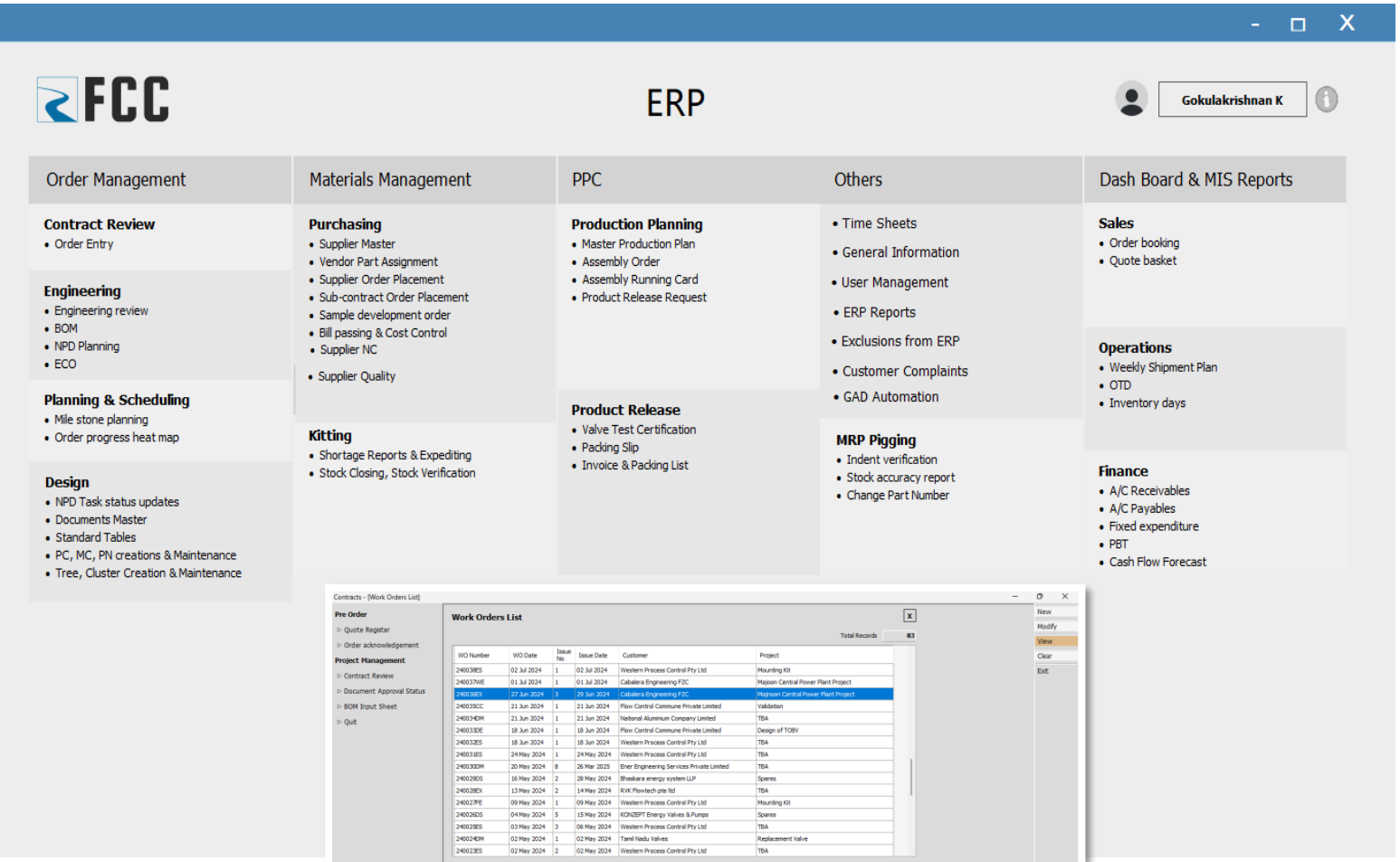
Fumigation is carried out as required by the customer, in accordance with ISPM No.15:2009 standards.

ISPM 12 standard is complied with for wood treatment.

Marking in line with ISO780 : 2015 and customer specified requirements.



IT Infrastructure | ERP Software



1 **Order Management**

Contract Review, Engineering, Planning & Scheduling, Design

2 **Materials Management**

Indent Generation, Purchasing, Kitting

3 **Production & Planning Control**

Shortage report, Production Planning, Product Release

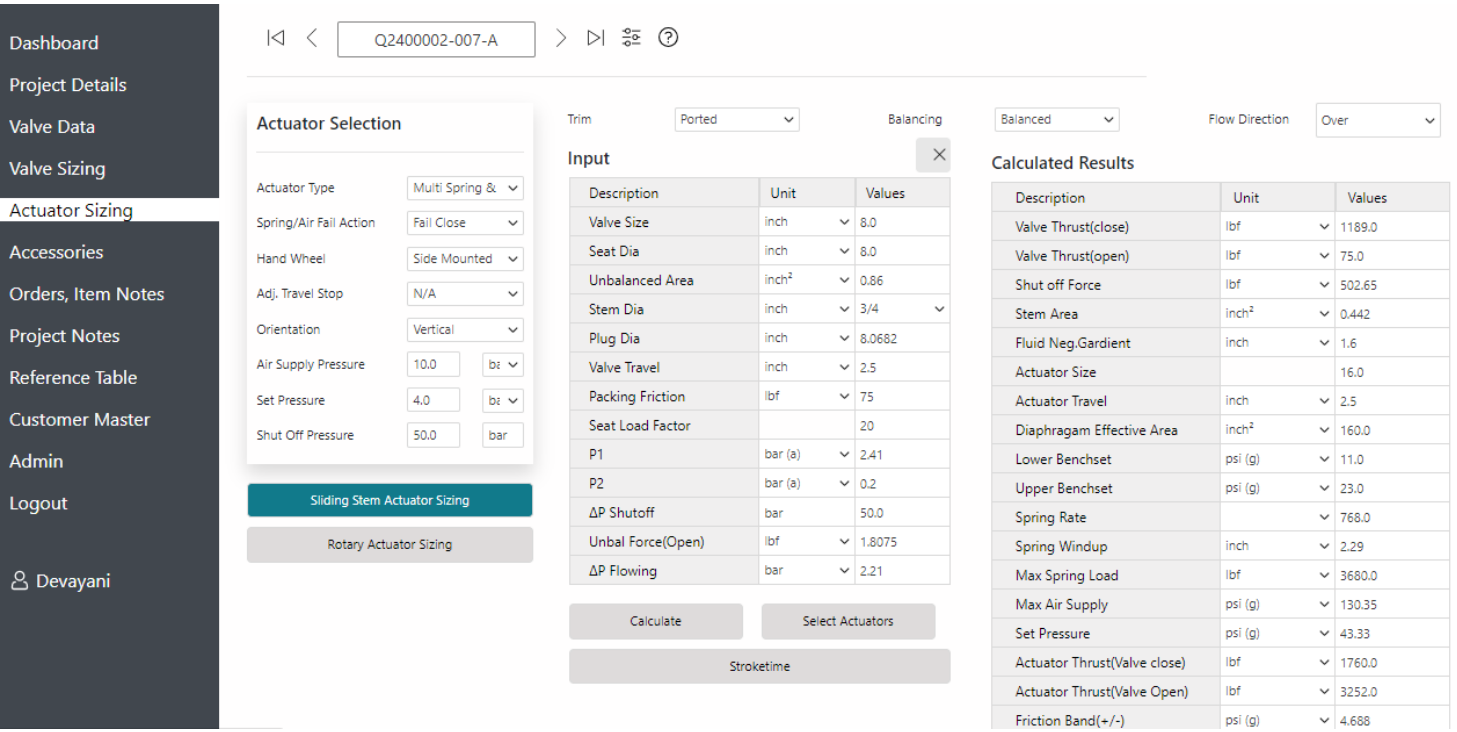
4 **Others**

Timesheet, GAD Automation, MRP Pigging…

5 **Dashboard & MIS reports**

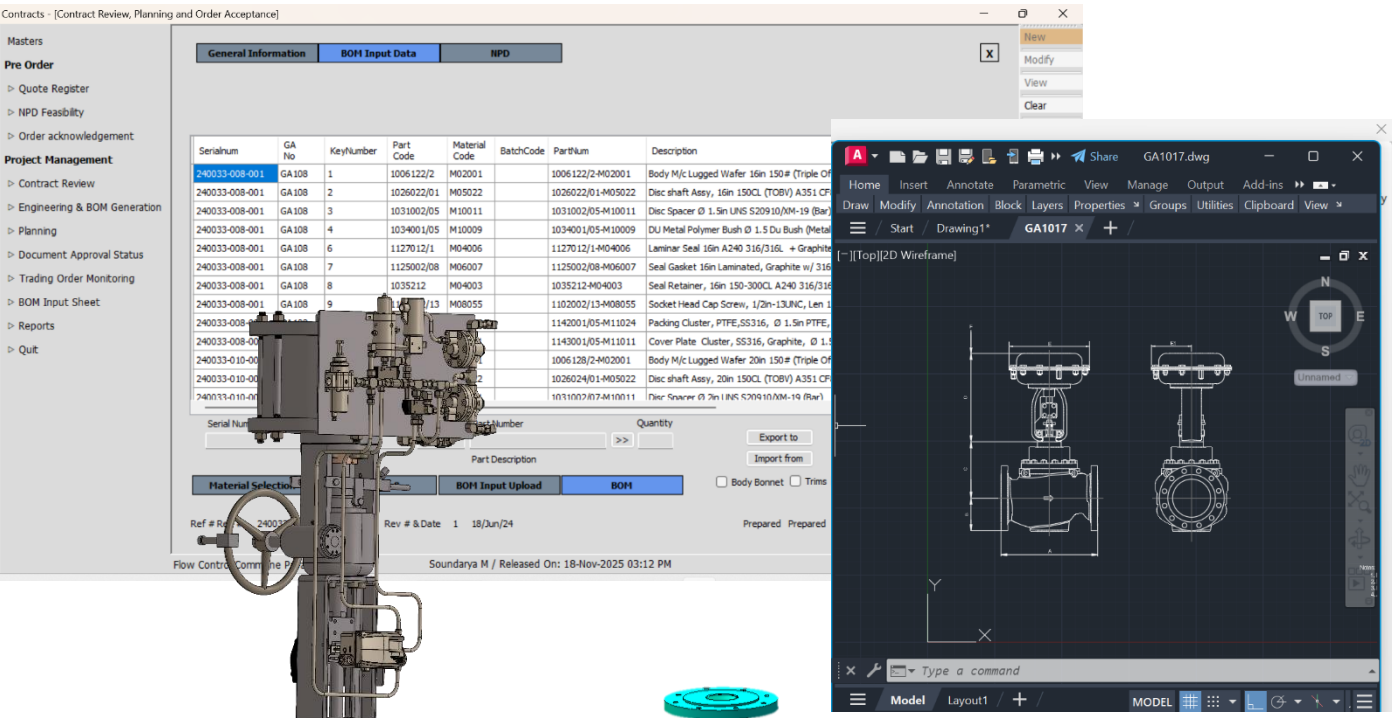
Sales, Operations, Finance

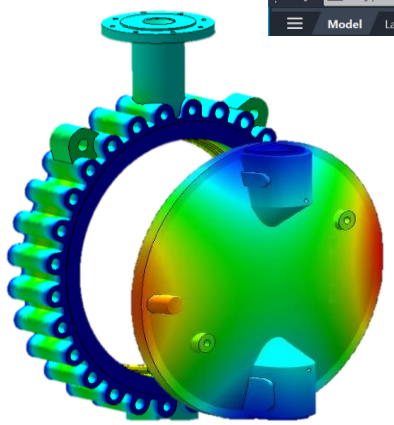
IT Infrastructure | Sizing Software



1. Quote & Order Management
2. Valve Sizing & Selection
3. Actuator Sizing & Selection
4. Accessories Specification
5. Warnings & Recommendation
6. Reference data tables
7. Reports

IT Infrastructure | Engg & Design Software





1. Design: SolidWorks, Ansys Fluent & AutoCAD
2. Engg: BOM & GAD Automation Software
3. Quick, Error-free BOMs & GADs
4. Interfaced with Sizing Software
5. Supports Unlimited engineering capacity
6. Standard library of Parts & Drawings
7. Provision to address specials
8. Instant reports on various formats

Certification

ISO OSHAS EMS PED IBR CUTR



TÜVINDIA

Certificate

Management system as per

ISO 9001:2015

The Certification Body TUV INDIA PVT. LTD. hereby confirms as a result of the audit, assessment and certification decision according to ISO/IEC 17021-1:2015, that the organiza

FLOW CONTROL COMMUNE PRIVATE LIMITED
K 22, 23, SIPCOT Industrial Park, Irungattukottai,
Sriperumbudur, Kancheepuram,
Chennai – 602 117,
Tamil Nadu,
India

operates a management system in accordance with the requirements of ISO 9001 : 2015 an will be assessed for conformity within the 3 year term of validity of the certificate.

Scope

Design, Manufacture, Supply and Servicing of Control Valves, Ac

Certificate Registration No. IND 100 23394289 Valid from 10.08.2023
Audit Report No. CHE/AUD/25-26/2215 Valid until 09.08.2026
Initial certification 10.08.2023

Mumbai, 23.06.2025

Certification Body at TUV INDIA PVT. LTD.

To verify the validity of this certificate, please visit https://www.iafcertsearch.org

TUV INDIA PVT. LTD.
801, Raheja Plaza 1, L.B.S Marg,
Ghatkopar (W) Mumbai – 400 086,
India
www.tuv-nord.com/in

TÜV®

ISO 9001:2015

TÜVINDIA

Certificate

Management system as per

ISO 45001:2018

COMMUNE PRIVATE LIMITED
ustrial Park,
erumbudur,
117,

and Servicing of Control Valves, Actuators ar

40 126 24394289 Valid from 23.10.2024
5-26/7201 Valid until 22.10.2027
Initial certification 23.10.2024

Certification Body at TUV INDIA PVT. LTD.

rtificate, please visit https://www.iafcertsearch.org

ISO 45001:2018

TÜVINDIA

Certificate

Management system as per

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FLOW CONTROL COMMUNE PRIVATE LIMITED
K22, K23, SIPCOT Industrial Park,
Irungattukottai, Sriperumbudur,
Kanchipuram – 602 117,
Tamil Nadu,
India

operates a management system in accordance with the requirements of ISO 14001 : 2015 and will be assessed for conformity within the 3 year term of validity of the certificate.

Scope

Design, Manufacture and Servicing of Control Valves, Actuators and Accessories.

Certificate Registration No. IND 104 24394289 Valid from 23.10.2024
Audit Report No. CHE/AUD/25-26/7201 Valid until 22.10.2027
Initial certification 23.10.2024

Visit our database to verify the validity of this certificate.

Mumbai, 14.01.2026

Certification Body at TUV INDIA PVT. LTD.

To verify the validity of this certificate, please visit https://www.iafcertsearch.org

TUV INDIA PVT. LTD.
801, Raheja Plaza 1, L.B.S Marg,
Ghatkopar (W) Mumbai – 400 086,
India
www.tuv-nord.com/in

TÜV®

TÜVNORDGROUP

ISO 14001:2015

TÜVINDIA

FCC

TÜVNORD

Certificate

Conformity based on full quality assurance - module H - according to directive 2014/68/EU

Certificate No.: 0045/202/9070/Z/00504/23/D/001(00)

Name and address of manufacturer: FLOW CONTROL COMMUNE PRIVATE LIMITED, No:9, Multi Industrial Estate, Gerugambakkam, Chennai, Tamil Nadu - 600 122, INDIA

We hereby certify that the manufacturer has established a **quality system** for the manufacturing of pressure equipment according to directive 2014/68/EU. The manufacturer is entitled to mark the pressure equipment produced within the range of the quality system with the following mark:

CE 0045

Test specification: EN 12516 – 1 & 2, ASME B16.34 (designed)

Audit report No.: 0045/202/9070/P/00504/23/D/001(00)

Range of products: Design, Development and Manufacturing of Control Globe Valves & Control Butterfly Valves
(Technical delimitation: see Table 1 "Types of Valves")

Place of manufacture: FLOW CONTROL COMMUNE PRIVATE LIMITED, No:9, Multi Industrial Estate, Gerugambakkam, Chennai, Tamil Nadu - 600 122, INDIA

This certificate is valid until: November 2026

Table 1: "Types of Valves"

Type of Valve	Size ASME / DN	Rating ASME / PN
Globe Valves (Control)	1" to 24" / DN 25 to DN 600	150# to 600#
Butterfly Valves (Control)	3" to 36" / DN 80 to DN 900	150# to 600#

Contact
T +49 (0) 40 8557 - 2035
E PED-Certification@tuev.nord.de

notified body 0045 TÜVNORD TÜV NORD Systems

Notified Body for pressure equipment

TÜVNORD Digitally signed by Hillermann Udo
Date: 2023.12.06 16:53:48 +01'00'

TÜV NORD Systems GmbH & Co. KG, Große Bahnstraße 31, 22525 Hamburg

Attachment:

To verify the validity of the digital signature the installation of the TÜV NORD GROUP root certificate is required.

TÜVNORDGROUP

PUBLIC WORKS DEPARTMENT
DIRECTORATE OF BOILERS

FROM

Thiru S.Ganesan, M.Tech.,
DIRECTOR OF BOILERS,
First Floor (South Wing),
P.W.D. Office Compound,
Chepauk, CHENNAI – 600 005.

TO

M/s. Flow Control Commune Pvt. Ltd.,
K22 & K23,
SIPCOT Industrial Park,
Irungattukottai, Sriperumbudur T.k.,
Kancheepuram – 602 117.

Letter No. BL4 / 478 / 2026, Dated 02.02.2026.

Sir,

egistration – Design & Manufacture of Globe
Valves - under Indian Boiler Regulations,
- Reg.

tter No. FCC:25-26:001, Dt.19.01.2026.

eference to letter cited & based on the brie
you and further to the inspection of your
Tamil Nadu, Chennai on 22.01.2026, your
gn & Manufacture of following types of Va
oiler Regulations, 1950 are detailed below.

Valves :
s 1" to 24" and pressure class upto 600 (Low
es 1" to 12" and pressure class upto 2500 (hi
trol Valves :
s 3" to 36" and pressure class upto 600 (Higl
es 3" to 36" and pressure class upto 600 (Tri

m registration order now issued is valid for
2.2026.

firm registration fees paid by you
7, Dated 29.01.2026 sum of Rs.2000/- (Rs.

ЕВРАЗИЙСКИЙ ЭКОНОМИЧЕСКИЙ СОЮЗ

ЕАС

СЕРТИФИКАТ СООТВЕТСТВИЯ

№ ЕАЭС RU C-IN.АЖ58.В.05870/24

Серия RU № 0532404

ОРГАН ПО СЕРТИФИКАЦИИ Орган по сертификации Общества с ограниченной ответственностью «ПРОММАШ ТЕСТ Инжиниринг». Место нахождения (адрес юридического лица): 119501, Россия, город Москва, внутригородская территория города муниципального округа Очаково-Матвеевское, улица Верная, дом 2, этаж II, помещение № 1, комната №4. Адрес места осуществления деятельности: 142111, Россия, Московская область, город Подольск, улица Окружная, дом 2В, комнаты 1,5. Уникальный номер записи об аккредитации в реестре аккредитованных лиц: RA.RU.10АЖ58. Дата решения об аккредитации: 23.11.2017 года. Номер телефона: +7(495) 011-03-36. Адрес электронной почты: info@promts.org.

ЗАЯВИТЕЛЬ ОБЩЕСТВО С ОГРАНИЧЕННОЙ ОТВЕТСТВЕННОСТЬЮ "МЕТРАН КОНТРОЛС"
Место нахождения (адрес юридического лица) и адрес места осуществления деятельности: 454139, Россия, Челябинская область, Челябинский городской округ, город Челябинск, внутригородской район Центральный, проспект Новоградский, дом 15, кабинет 2/501
Основной государственный регистрационный номер 1027400562609
Телефон: 8(351)2379715 Адрес электронной почты: mks@metran-control.ru

ИЗГОТОВИТЕЛЬ Flow Control Commune Private Limited
Место нахождения (адрес юридического лица): House, D-17, Shanthinilayam Westwoods, 3/440, Kundrathur Main Road, Madanandapuram Porur, Chennai - 600125, Tamil Nadu
Адрес места осуществления деятельности по изготовлению продукции: House, No. 9, Multi Industrial Estate, Gerugambakkam, Chennai - 600 122, Tamil Nadu
Филиалы согласно приложению - бланк № 1046281

ПРОДУКЦИЯ Арматура промышленная трубопроводная согласно приложению - бланк № 1046280.
Маркировка взрывозащиты согласно приложению (бланки №№ 1046282, 1046283). Продукция изготовлена в соответствии с Директивой 2014/34/ЕС и технической документацией изготовителя для работы во взрывоопасных средах.
Серийный выпуск

КОД ТН ВЭД ЕАЭС 8481 80 599 0, 8481 80 731 0, 8481 80 732 0, 8481 80 739 9, 8481 80 790 0, 8481 80 850 8, 8481 80 850 1, 8481 80 850 2

СООТВЕТСТВУЕТ ТРЕБОВАНИЯМ
Технического регламента Таможенного союза "О безопасности оборудования для работы во взрывоопасных средах" (ТР ТС 012/2011)

СЕРТИФИКАТ СООТВЕТСТВИЯ ВЫДАН НА ОСНОВАНИИ Протоколов испытаний №№ 9923ИЛПМВ, 9924ИЛПМВ от 20.06.2024 года, выданных Испытательным центром Общества с ограниченной ответственностью «ПРОММАШ ТЕСТ» (уникальный номер записи об аккредитации в реестре аккредитованных лиц RA.RU.21BC05); Акта анализа состояния производства №24/03-0003-7 от 19.03.2024, выданного Органом по сертификации Общества с ограниченной ответственностью "ПРОММАШ ТЕСТ Инжиниринг" (уникальный номер записи об аккредитации в реестре аккредитованных лиц RA.RU.10АЖ58); эксперт, подписавший акт анализа состояния производства - Ярмоченко Андрей Евгеньевич
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ДОПОЛНИТЕЛЬНАЯ ИНФОРМАЦИЯ Срок хранения - срок хранения не более 1 года и стандартный упаковки и не 5 лет при использовании специальной упаковки и консервации. Срок службы – не более 25 лет при условии необходимых правил эксплуатации. Условия принятия в соответствии с ГОСТ 15150-69-5 (ОЗ4). Действие сертификата распространяется на изделия выпускаемую продукцию, соответствующую с датой изготовления отобранных образцов (проб) продукции, прошедших испытания (испытания) и измерения: с 01.2024 года. Договор уполномоченного лица № FCC-REP-2024-01 от 25.02.2024 года. Стандарты, обеспечивающие соблюдение требований Технического регламента Таможенного союза ТР ТС 012/2011 "О безопасности оборудования для работы во взрывоопасных средах" согласно приложениям к бланкам №№ 1046282, 1046283.

СРОК ДЕЙСТВИЯ С 21.08.2024 ПО 21.08.2029
ВКЛЮЧИТЕЛЬНО

Руководитель (уполномоченное лицо) органа по сертификации — Кашкина Алевтина Равильевна

М.П.

Эксперт (эксперт-аудитор) (эксперты (эксперты-аудиторы)) — Ивлиев Артем Вячеславович

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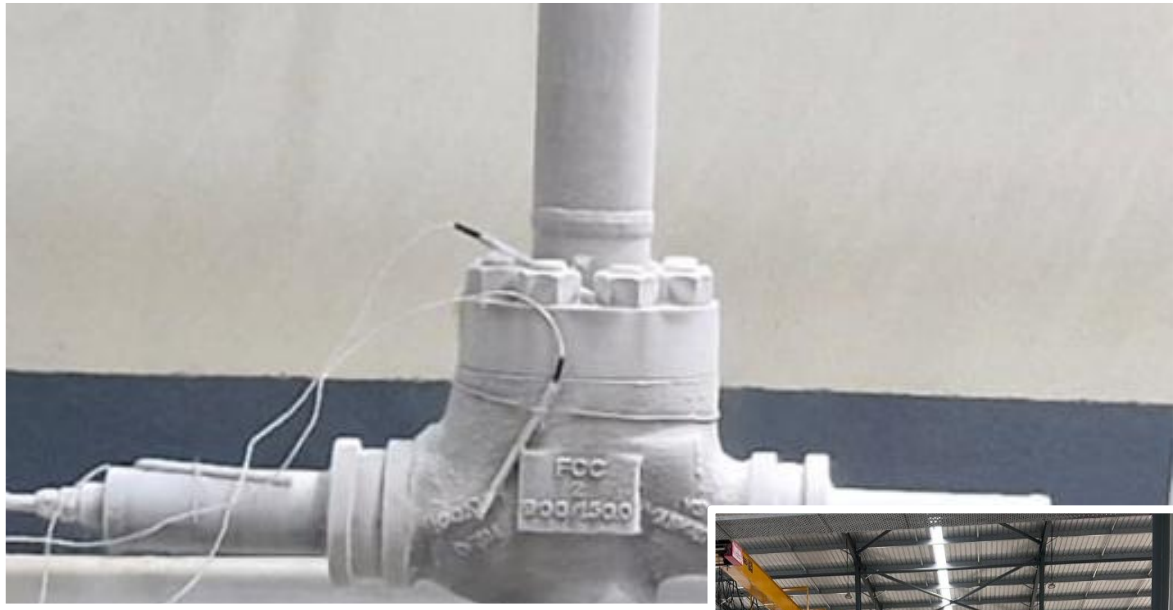


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