



IVAMA[®]spk

Quarterly Newsletter of IVAMA Association

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INSIDE THIS ISSUE

- Message from the Director
- Members' Perspective on the Current Middle East Situation
- IVAMA Workshop during Valve World Expo India
- How Circular Thinking Is Reshaping India's Valve Industry
- Industry News



MESSAGE FROM THE DIRECTOR

Dear IVAMA Members and Industry Colleagues,

As we begin a new financial year, I extend my warm greetings and best wishes to every member of the Indian Valve and Actuator Manufacturers' Association. The start of this year provides an important opportunity to reflect on our journey, recognize our collective strength, and reaffirm our shared vision for the industry.

The valve and actuator sector continues to play a crucial role in India's infrastructure development, energy transition, water management, and industrial growth. Increased investments, a growing focus on energy efficiency, and the shift toward smarter and more sustainable systems are opening new avenues for innovation and expansion across our ecosystem.

At the same time, the past year has been marked by unprecedented global developments. Geopolitical uncertainties, trade and tariff changes, freight and logistics bottlenecks, rising supply chain costs, fluctuations in global energy markets, and regional conflicts have created an environment of unpredictability unlike anything we have experienced before. In many ways, we have moved far beyond the post-pandemic phase into a world where rapid change occurs over hours and days rather than months.

In this context, it is important to acknowledge the resilience of the valve and actuator industry. Despite these challenges, our industry has stood firm, adapted swiftly, and continued to move forward. This collective effort deserves recognition and appreciation.

IVAMA has remained steadfast in its commitment to supporting its members and strengthening the industry ecosystem. Over the past year, we have achieved significant milestones, including the addition of 15 new members, taking our total membership beyond 120.



PRANAY GARG

Director, IVAMA &
Managing Director, Advance Valves

We conducted five basic skill development programs and one advanced program to enhance technical capabilities and address skill gaps. Additionally, ten webinars were organized on relevant industry topics, along with active participation in major industry events across the country.

Our flagship events further reinforced industry collaboration. The IVAMA Conference held in Pune in September 2025 and the CEO Meet in Indore in January 2026 provided valuable platforms for dialogue, knowledge sharing, and leadership engagement.

These achievements underscore the power of collaboration and validate IVAMA's foundational purpose—to represent the industry as a unified force from India to the world. I am confident that with unity, innovation, and a forward-looking mindset, the IVAMA community will continue to scale new heights in the year ahead.

Warm regards
Pranay



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The revenues of various Middle East countries like UAE, Saudi Arabia, Qatar, Bahrain and Oman have been hit due to the closure of the Strait of Hormuz, and their oil infrastructure has undergone considerable damage during the ongoing war.

Their first priority, upon return to peace, would be to repair the damaged oil installations so that their revenue stabilises. This will result in deferment of pre-announced infrastructural investment plans as well as delays in new investments in oil refining and petrochemicals.

The valve and flow control products market in the Middle East region will be greatly affected over the next few years. Companies banking on this region for growth will have to recalibrate their plans.

Rising oil and gas prices and increasing uncertainty regarding steady availability will also affect production cost and output, especially in metal production and foundry. To mitigate this, companies will have to opt for alternate energy sources or face production disruptions. If this continues, the flow control industry may face supply chain disruptions leading to delays and revenue shortfalls.

The industry will have to remain alert and agile, with a strong focus on cash flow and operational costs, to avoid liquidity pressures and margin reduction over the next 2–3 years.

”

PRATIK PATEL

Chairman & Managing Director
Jash Engineering Ltd.

MEMBERS' PERSPECTIVE ON THE CURRENT MIDDLE EAST SITUATION



INDUSTRY VOICES

There have been demand from raw material producers, namely foundries and forge shops, for price increases. Other vendors so far haven't actually demanded a price rise. There have been murmurs of price rise but nothing in writing so far, except from raw material sources.

Availability of LPG has affected certain welding-related work and associated deliveries. At the plant level, we use natural gas (for coating oven & genset) and diesel (for genset), which has been steady so far.

Transportation impact hasn't been seen yet. However, most importantly, shipments to the Middle East or other destinations which trans-ship via Dubai are stuck, and direct lines are hard to find.

Overall, it is definitely a negative scenario.

BHOWMICK SHAH

Managing Director, Magwen Valves

We are currently facing severe volatility in input costs, with foundry products up by ~8-10%, consumables by 30-50%, and special alloys by nearly 50% over the last month, driven by multiple unpredictable cost factors.

Gas shortages have disrupted core processes such as heat treatment and hot rolled material availability, while indirect impacts like LPG scarcity are causing migrant labour shortages at foundries. These issues have resulted in delays to several Middle East export shipments, directly impacting turnover. A sharp rise in logistics costs is outweighing LD recoveries and exerting significant pressure on margins, making penalties increasingly unavoidable this year.

Working capital has also been stretched due to delayed supplies and uneven cash flows.

To mitigate risks, we are selectively passing on partial cost increases for new projects, closely monitoring inventory of repeatable parts, and remaining cautious on annual increments.

Looking ahead, export inquiries have begun to soften, and any government concessions, policy support, or recognition of force majeure conditions would greatly help the industry navigate the next few months.

P R RAJESH

Director, Schuf

MEMBERS' PERSPECTIVE ON THE CURRENT MIDDLE EAST SITUATION



INDUSTRY VOICES

The ongoing global volatility continues to reshape the operating environment for MSMEs in the flow-control sector. Sharp upward fluctuations in raw-material costs, particularly steel, alloys, and critical inputs, have intensified cost burdens, while supply-chain unpredictability continues to stretch delivery timelines across casting, forging, and machining ecosystems.

A parallel challenge is the widening gap between rising input costs and delayed customer acceptance of price revisions. In several cases, force-majeure conditions are not being acknowledged, placing disproportionate strain on manufacturers and compressing already-tight working-capital cycles.

Exports, traditionally a stabilising pillar, are also feeling the impact. Shipments are getting delayed at ports, held up in transit, or not cleared on time by overseas customers. This results in avoidable inventory pile-ups at our end, tying up cash flows and adding to operational uncertainty.

VINAYAK LOKUR

Managing Director, Expert Valves

INDIA APPROVES \$3B+ HYDROPOWER INVESTMENTS IN ARUNACHAL PRADESH

The Cabinet Committee on Economic Affairs, chaired by the Prime Minister Shri Narendra Modi has approved investment of Rs.26,069.50 crore for construction of Kamala Hydro Electric Project (HEP) in Kamle, Kra Daadi & Kurung Kumey Districts of Arunachal Pradesh. The estimated completion period for the project is 96 months.

The project with an installed capacity of 1720 MW (8 x 210 MW & 1 x 40 MW) is expected to generate 6870 MU of energy. The power generated from the Project will strengthen power supply position in the state of Arunachal Pradesh, support in peak demand management, contribute to national grid balancing and will provide flood moderation benefit in the Brahmaputra valley. In addition to Kamala HEP, other hydropower projects—Subansiri Lower (2000 MW), Dibang Multipurpose (2880 MW) is under construction, and Etalin (3097 MW) is planned for development by NHPC Limited in Arunachal Pradesh.



11-12 June 2026

Hall 3, Bombay Exhibition Center
Mumbai, India

www.valveworldindia.com

Agentic AI Enabled Digital Twins of Mission Critical Systems

- Indicate real time data
- Provide proactive, self-acting intelligence
- Improve efficiency
- Predicate failures
- Reduce downtime

Hosted by:
IVAMA



WORKSHOP ROOM 6

11 June 2026 | 4:00 pm

Workshop attendees will receive
a Certificate of Attendance.

WORKSHOP

Country
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Knowledge
Partner



Platinum
Partner



Gold
Partners



Silver
Partners



Organised By



Seats are limited, so we encourage you to pre-register to secure your place:

<https://valve.iddllp.com/registration/>

OUR ZED GOLD SUCCESS STORY

A Journey of Transformation at Expert Valve & Equipment Pvt. Ltd.

When we first stepped into the world of ZED – Zero Defect, Zero Effect, we were not chasing a certificate. We were chasing a mindset. A way of working. A culture that would make us future-ready, globally competitive, and internally proud of the systems we built.

At Expert, we always believed that Excellence is not an act but a habit. Yet, like many MSMEs, we also knew that habits need structure, discipline, and a framework to thrive. ZED became that framework.

We began with Bronze Certification a year ago, it felt like learning to walk again... revisiting fundamentals, questioning assumptions, and building discipline. The next milestone of Silver Certification pushed us deeper into systems thinking. And Gold...Gold Certification transformed us!

The Turning Point: When ZED Became a Culture

The first visible shift was in workplace discipline. Earlier, 5S was practised, but not consistently measured. With ZED, every corner of the plant began to speak the same visual language. Scores improved dramatically, and more importantly, people began taking ownership. What was once “management’s initiative” became “our way of working.”

Productivity followed. With better scheduling, flow improvements, and Kaizen culture, our throughput increased by over 24%, OTIF improved by over 6% and the value of output in ₹ rose by over 70%. These numbers reflect a more synchronised, more confident organisation in the making.

Kaizens became a symbol of this cultural shift.



VINAYAK LOKUR

Vice Chairman, IVAMA
MD, Expert Valves & Equipment

From a modest number earlier, we saw a six-fold increase in monthly improvements. People who once hesitated to suggest changes were now proudly presenting ideas, implementing them, and celebrating wins.

Reliability improved too. Our MTBF rose by nearly 50%, thanks to TPM and Jishu Hozen. Machines were no longer just assets; they became partners in performance.

Quality strengthened. Our Cost of Poor Quality has been reduced by half, reflecting fewer defects, fewer reworks, and more first-time-right outcomes.

Energy efficiency became a new frontier. By revisiting (optimising) solar panel installation and improving energy practices, we reduced specific energy consumption by over 40%. Sustainability was no longer a buzzword; it became measurable.

Safety and ergonomics saw some of the most gratifying transformations. Operators who once struggled with strain or punishing postures now worked with ease and comfort. A simple guard, a redesigned jig, a relocated workstation... each change made work safer and more humane.

Inspection processes became smarter. By eliminating manual vernier checks for certain components, inspection time was reduced by over 60%, and consistency improved dramatically.

Maintenance matured. MTTR dropped by over 90% after upgrading electrical systems and standardising accessories. Breakdowns no longer disrupted our rhythm.

Across departments > machine shop, assembly, welding, quality, maintenance, and administration, the story was the same:

Better systems > Better flow > Better outcomes!!!

The Real Victory: A Mindset Shift
ZED brought us tangible benefits, yes. But the intangible ones were even more powerful:

- A culture of ownership
 - Pride in workplace discipline
 - Cross-functional collaboration
 - Structured problem-solving
 - A belief that “we can improve anything”
- “ZED is not a mere certification, but a transformation journey. It reflects our mindset to empower teams, strengthen systems, and deliver world-class solutions with zero compromise.”
This mindset is now part of our DNA.

Top 10 Learnings & Gains from Our ZED Journey

1. Workplace discipline improves performance: 5S scores improved by over 70%, proving that order drives efficiency.
2. Small improvements create big momentum: Kaizens increased by over 500%, showing how culture shifts when people feel empowered.
3. Delivery performance strengthens with systems: OTIF improved by over 6%, reflecting better planning and inventory control.

4. Reliability grows with preventive care: MTBF increased by nearly 50%, validating TPM practices.

5. Smart layout changes unlock hidden productivity: Material movement time reduced by over 80% after layout optimisation.

6. Ergonomics boosts both morale and output: Pressing cycle time is reduced by 40%, and manpower requirement is halved.

7. Inspection becomes faster when simplified: Inspection time reduced by over 60% with fixture-based checking.

8. Energy efficiency directly improves profitability: Specific energy consumption reduced by over 40%, and solar generation increased by more than 50%.

9. Quality improves when processes stabilise: COPQ reduced by around 50%, strengthening customer confidence.

10. ZED is a mindset, not a milestone: The biggest gain was cultural: ownership, transparency, and continuous improvement became everyday habits.

An appeal to Fellow Manufacturers

The valve industry is global. Customers benchmark us against the best in the world. ZED gives MSMEs a structured, practical, and impactful way to rise to that benchmark.

I strongly encourage/urge every manufacturer to begin this journey, start with Bronze, move to Silver, and aim for Gold. And equally important, encourage your supply chain partners to do the same. A strong supply chain is the backbone of a promising industry.

ZED is not an audit. It is a transformation.!!!

Vinayak Lokur

WORKSHOP SCHEDULE



International Valve Trade
Fair & Conference

11-12 June 2026

Hall 3, Bombay Exhibition Center
Mumbai, India

**THURSDAY, 11TH
JUNE 2026**

Digital Control Valves and Smart Solutions for NRW: For Managing a Pipeline or Involved in Planning New Water Systems

- Hands-on Insights - Learn how Digital Control valves stabilize pressure and slash NRW
- Real Stories - Hear case studies where utilities saved time, energy, and costs
- Live Demo - See how easy it is to monitor, adjust, and optimize valves digitally
- Long-term solutions that actually work on recurring leakages
- Perfect for water infrastructure professionals, engineers, and water management planners!

Hosted by: **Hawle India**



Workshop Room 7

2:15 pm

Registration is now open to participate in the technical workshops at Valve World India. These free workshops offer attendees the opportunity to learn from industry specialists, explore new technologies, and gain practical knowledge across the valve and flow control ecosystem.

| Certificate's are issued to all attendee's

| Complimentary Tea/Coffee for all visitors

Agentic AI Enabled Digital Twins of Mission Critical Systems

- Indicate real time data
- Provide proactive, self-acting intelligence
- Improve efficiency
- Predict failures
- Reduce downtime

Hosted by: **IVAMA**



Workshop Room 6

4:00 pm

Corrosion Protection of Valves and Actuators

- Why valves and actuators start leaking after some time
- Cause of corrosion of valves
- Several coating systems which give longer durability and extreme corrosion resistance from toxic gases, vapours
- Paint application methods and surface preparation before painting

Hosted by:
**Khanna Paint Test
Laboratory**



Workshop Room 1

10:15 am

Optimizing the Foundry-Valve Partnership: From Casting Design to Supplier Qualification

- Bridging the communication gap between foundries and valve manufacturers
- Fundamentals of valve casting design and metallurgy
- Casting acceptance and approval process - inspection, requalification, and documentation
- Supplier qualification and audit requirements - what end should look for

Hosted by:
**The Institute of
Indian Foundrymen**



Workshop Room 3

10:15 am

Evolving Valve Standards: Interpretation, Compliance, and Practical Impact on Design & Manufacturing

- Recent updates and changes in international valve standards
- Correct interpretation of technical clauses and compliance requirements
- Impact of evolving standards on valve design, materials, testing, and documentation
- Manufacturing challenges and best practices to meet updated specifications
- Balancing compliance, performance, and commercial viability

Hosted by: **L&T Valves**



Workshop Room 5

2:15 pm

Spray-Type Desuperheater Performance for Modern Power & Process Plants

- Fundamentals of spray-type desuperheaters
- Key design principles
- Sizing methodology
- Essential installation requirements

Hosted by:
Instrumentation Limited



Workshop Room 2

11:30 am

Creating Safer Plants & Processes: Integrating Mechanical & Digital Interlocks to Enhance Process, Facility & Human Safety

- Explain Mechanical Interlocking
- Integration of more Digital & Electromechanical Interlocking to PILOT IoT
- LOPA, adding independent layers of Safety
- Finding the suitable application to enhance your Safety
- Product Demonstrations (Digital Key Management / PSV / Keyless Interlocking / PILOT Oversight)

Hosted by:
Alcatraz Interlocks



Workshop Room 4

11:30 am

www.valveworldindia.com

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Platinum
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Gold
Partners



Silver
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Valve World India 2026 will host a dedicated series of technical workshops aimed at delivering practical insights and the latest industry knowledge to participants.

These sessions will bring together industry experts to discuss emerging valve and actuator technologies and share valuable operational guidance that professionals can implement in their day-to-day work.

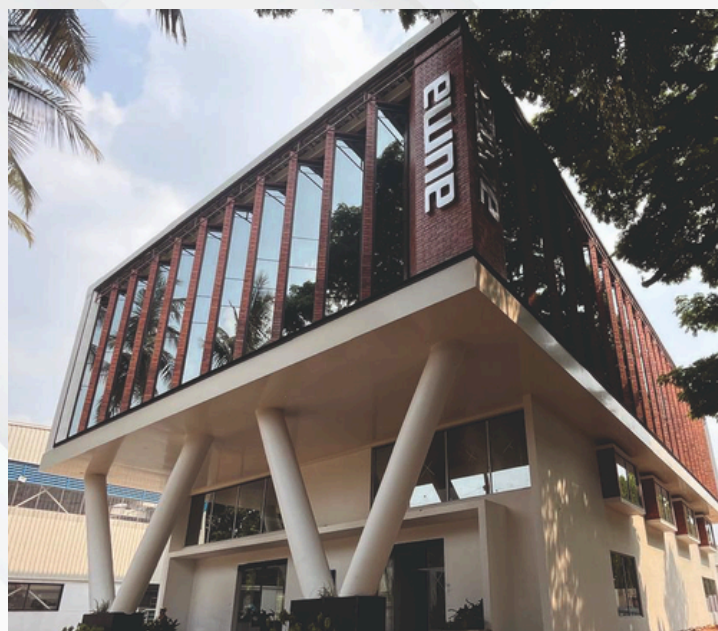
Seats are limited, so we encourage you to pre-register to secure your place:
<https://valve.iddllp.com/registration/>

BUILDING FUTURE-READY CAPABILITIES AT AUMA INDIA

AUMA India continues to advance its growth journey through focused investments in infrastructure, technology, and people. A significant milestone in this journey was achieved on 17 March 2026 with the inauguration of the Global Capability Centre (GCC) and commissioning of the 5th Manufacturing Facility, marking another important step in strengthening operational capabilities and supporting global business requirements.



The Global Capability Centre and the 5th Manufacturing Facility were inaugurated by Dr. Joerg Hoffmann, CEO – AUMA Riester; Mr. Caspar Hoffmann, Director – Advisory Board, AUMA Riester; and Mr. Arvind K. Goel, Managing Director – AUMA India, in the presence of senior leadership and team members.



Designed to accommodate more than 100 professionals, the GCC offers modern workspaces along with dedicated training facilities that promote collaboration, innovation, and continuous learning. By bringing together key functions such as Research & Development (R&D), Engineering, Quality Management, IFS, Supply Chain Management, and Order Processing, the centre enhances cross-functional collaboration and strengthens operational efficiency across global teams.

In parallel, AUMA India continues to expand the width and depth of its manufacturing capabilities. Some of the recent investments include the establishment of complete manufacturing of motor in-house, in-house electronics PCB manufacturing, horizontal machining center for machining of size 1.2m components, etc. Further investments are currently underway to enhance capacity and technological capabilities.

These developments collectively reflect AUMA India's strong commitment to continuous improvement, innovation, and operational excellence. By consistently strengthening its infrastructure and capabilities, AUMA India is well-positioned to support global operations, sustain long-term growth, and deliver enhanced value to customers and stakeholders.

BEYOND PRODUCTS: HOW CIRCULAR THINKING IS RESHAPING INDIA'S VALVE INDUSTRY

The Indian valve and actuator industry entering an important phase of transition. Fluctuations in raw-material prices, increasing customer focus on lifecycle costs rather than upfront pricing, and growing expectations around environmental and ESG performance are gradually influencing how manufacturing businesses are evaluated. Insights from recent academic and industry literature suggest that manufacturers who explore alternatives to a traditional linear “make-sell-discard” approach and begin adopting more circular ways of operating often experience improvements not only in environmental outcomes but also in long-term competitiveness. For the valve and actuator sector, this conversation may be especially relevant, given that products are typically material-intensive, designed for long service lives, and used in asset-heavy industries such as power generation, oil and gas, water, chemicals, steel, cement, and infrastructure.

Circular economy is sometimes narrowly interpreted as recycling, but recent research presents a broader and more practical perspective. It is increasingly described as a system aimed at extending the productive life of resources by keeping products, components, and materials in use for longer periods through thoughtful design, reuse, refurbishment, remanufacturing, and recovery. Seen from this viewpoint, circular thinking can be understood as an effort to design, manufacture, and service valves and actuators in ways that help retain value over time rather than allowing it to be lost prematurely. This interpretation aligns well with several long-standing practices in the valve industry, many of which have traditionally



MAHANTESH PATIL

Country Director
Rotork Controls

been driven by considerations such as reliability, serviceability, and total cost of ownership rather than formal sustainability frameworks.

Design decisions are often recognised as one of the most influential factors affecting lifecycle performance. A significant proportion of a product's cost and environmental impact is shaped at the design stage, and the Indian valve industry already demonstrates many practices that reflect this understanding. The use of replaceable trims, seats, and sealing systems allows valves to be refurbished multiple times during shutdowns instead of being replaced outright. Valve bodies are commonly designed to remain in service across several generations of internal components, and modular actuator architectures can allow electronics, drives, or control elements to be upgraded independently of the mechanical structure. Designing products to operate reliably under demanding Indian conditions such as high cycling rates, corrosive or abrasive media, and long maintenance intervals can, in practice, support extended service life and improved value retention. In this sense, designing for robustness and maintainability may also contribute meaningfully to circular value creation.

Manufacturing practices and management systems may offer another pathway to strengthening circular outcomes over time. Valve manufacturing involves energy- and material-intensive processes, including foundry operations, machining, heat treatment, coating, and pressure testing. Companies that choose to track parameters such as energy consumption per valve, scrap and rework levels, machining yields, and chemical usage often gain greater visibility into operational efficiency. When such indicators are reviewed alongside quality, safety, and delivery metrics, they can support more informed decision-making and continuous improvement.

From this perspective, environmental and resource-focused management systems may be viewed less as compliance requirements and more as tools that encourage discipline, consistency, and cost awareness within manufacturing operations. Investment recovery and aftermarket activity also appear to represent a significant opportunity for the Indian valve and actuator industry. India has a large installed base of valves and actuators across industrial plants and infrastructure assets that are expected to operate for decades. In many situations, the main valve body remains structurally sound, while internals, sealing elements, or actuation systems require repair, refurbishment, or upgrading. Practices such as valve overhaul, re-certification, and actuator retrofits can allow equipment to remain productive at a cost significantly lower than full replacement. For manufacturers, such services may offer the potential for more stable revenue streams, closer engagement with customers, and reduced exposure to fluctuations in raw-material prices. These characteristics suggest that the aftermarket may be one of the clearest areas where circular economy principles and commercial objectives naturally align.



Supply-chain structures may further support the adoption of circular practices. Research often indicates that circular economy initiatives tend to be more effective when material, information, and service flows across the supply chain are well connected.

The Indian valve industry already benefits from dense networks of foundries, machining partners, coating specialists, and service providers, along with a skilled maintenance workforce located close to customer sites. Practices such as returning scrap to foundries, segregating recovered materials, and collaborating with service providers during plant outages resemble what academic literature describes as industrial symbiosis. While these practices may have originally emerged for economic or logistical reasons, they can also be viewed as foundational elements of a more intentional circular approach.

Experience also suggests that progress becomes easier to sustain when it is measurable. Circular initiatives can be more effectively communicated and supported when outcomes are visible. Rather than relying on complex frameworks, valve manufacturers may find it practical to monitor indicators such as scrap per valve produced, energy consumed per unit,

first-time-right assembly performance, the proportion of refurbished versus replaced valves, average operating life before overhaul, and the value recovered from returned equipment. These measures can help connect environmental and resource considerations with operational performance and financial outcomes in ways that are meaningful for business leaders.

Practical challenges do remain. Customers often show a preference for new equipment over refurbished solutions, common standards for remanufactured valves are not always well defined, and procurement decisions frequently prioritise upfront price rather than lifecycle value. Addressing these issues may require collective effort rather than isolated company action. In this context, industry bodies such as IVAMA can play an important role by encouraging the sharing of best practices, facilitating dialogue on common refurbishment and lifecycle standards, promoting lifecycle-based procurement thinking among large customers, and supporting engagement with regulators and public-sector organisations. Over time, such collaborative initiatives could help create a more consistent and enabling environment for circular economy practices within the Indian valve and actuator industry.

Overall, both research findings and industry experience appear to suggest that circular economy concepts are particularly well suited to sectors characterised by durable, serviceable, and high-value products. The valve and actuator industry fits this description well.

Many Indian manufacturers already apply aspects of circular thinking through long-life design, repair, refurbishment, and service-oriented business models.

Looking ahead, the opportunity may lie less in radical change and more in deliberately strengthening, measuring, and scaling these existing practices.

Circular value creation, when approached in this manner, does not necessarily imply a trade-off between profitability and sustainability. For the Indian valve and actuator industry, it may instead offer a pathway to managing material and energy risks more effectively, deepening customer relationships, and preparing businesses for evolving market expectations. Adopted gradually and pragmatically, circular thinking can be seen not as an externally imposed obligation, but as a practical lens for sustained and responsible growth.

Sources and Further Reading

Subarmanim, T., & Chin, T. A. (2022). Circular economy practices and environmental performance for manufacturing firms: A systematic literature review. *International Journal of Academic Research in Business and Social Sciences*, 12(7), 12–38. <https://doi.org/10.6007/IJARBSS/v12-i7/14049>

Arruda, E. H., Melatto, R. A. P. B., Levy, W., & Conti, D. M. (2021). Circular economy: A brief literature review (2015–2020). *Sustainable Operations and Computers*, 2, 79–86. <https://doi.org/10.1016/j.susoc.2021.05.001>

SIMULATIONHUB EXPANDS ITS GLOBAL FOOTPRINT IN VALVE DESIGN SIMULATION

The past financial year (2025–26) marked a significant milestone for simulationHub, as Autonomous Valve CFD (AVC) expanded its adoption across global valve manufacturing markets.

With an established presence in India and the United States, AVC has already been supporting engineers in reducing reliance on traditional flow loop testing and complex CFD workflows. By enabling faster, cloud-based simulations with minimal expertise, the platform has helped design teams generate reliable performance data in significantly shorter timeframes.

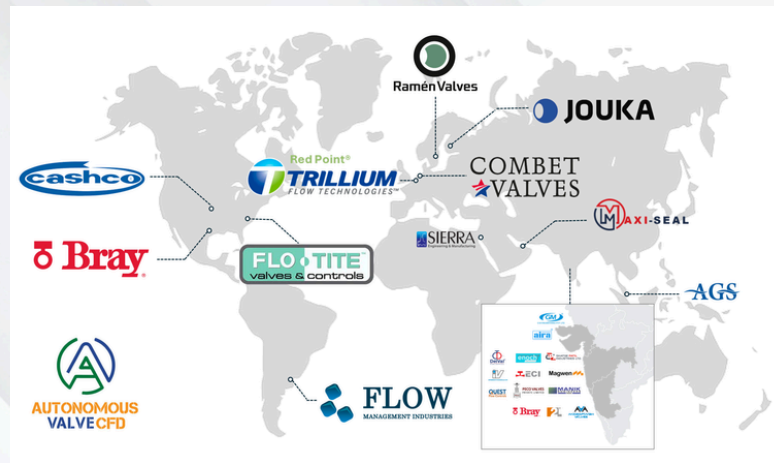
A Year of Global Expansion

Building on this foundation, the focus this year was to extend these capabilities globally.

AVC witnessed new adoption across:

- North America (continued expansion)
 - Europe (Netherlands, Sweden, Finland)
 - Middle East & Africa (UAE, Egypt)
 - South America (Argentina)
- alongside sustained growth in India.

This expansion reflects a broader industry shift, where simulation is no longer limited to specialized teams but is increasingly being used directly by design engineers to iterate faster and make informed decisions earlier in the design cycle.



Enabling Faster, Smarter Design Decisions

The adoption of AVC across diverse markets is driven by a common need: reducing time and cost associated with traditional validation methods, while gaining deeper insight into valve performance.

By automating CFD workflows and leveraging cloud infrastructure, AVC enables engineers to:

- Rapid evaluation of multiple design variations
- Early-stage performance validation without physical prototypes
- Improved understanding of flow behavior, cavitation, and torque
- Faster time-to-market for new valve designs

This is particularly impactful for large or complex valves, where physical testing is often constrained.

Looking Ahead

The increasing global adoption of AVC highlights a clear transition within the industry, towards simulation-led, data-driven design.

simulationHub continues to work closely with valve manufacturers worldwide to make advanced simulation accessible and practical for everyday engineering workflows.



Warm welcome to **THE NEW MEMBER**



Equinox Alloys Cast LLP
Rajkot

INDIA APPROVES MAJOR FUNDING BOOST FOR RAJASTHAN REFINERY

India has approved a major funding increase for the Rajasthan refinery project, marking a significant step forward in strengthening the country's energy and petrochemical capabilities.

The decision was cleared by the Cabinet Committee on Economic Affairs, chaired by Prime Minister Narendra Modi, with the project's revised cost rising from ₹43,129 crore to ₹79,459 crore. As part of the update, Hindustan Petroleum Corporation Limited (HPCL) will contribute an additional ₹8,962 crore in equity, bringing its total investment to ₹19,600 crore.

Advanced Refining Capabilities

The Rajasthan refinery project, operated by HPCL Rajasthan Refinery Limited (HRRL), is being developed as a highly complex facility with a petrochemical intensity of over 26%. Once operational, it will produce 1 million metric tonnes per annum (MMTPA) of petrol and 4 MMTPA of diesel, along with a wide range of petrochemical products.

INDIA ADVANCES COAL-TO- CHEMICALS PROJECT IN ODISHA

In a major boost to India's coal gasification ambitions, Bharat Coal Gasification and Chemicals Ltd (BCGCL) and Mahanadi Coalfields Ltd, a subsidiary of Coal India Limited, have signed a land leasing agreement for a proposed coal-to-ammonium nitrate project in Odisha.

The project will involve the development of a 2,000 tonnes per day (TPD) ammonium nitrate facility, marking a significant milestone as one of India's first large-scale coal gasification initiatives powered by indigenous technology from Bharat Heavy Electricals Limited (BHEL).

Spread across approximately 350 acres of land under MCL's control, the project reflects India's strategic push toward self-reliance in energy and chemical production, reducing dependence on imported technologies while advancing domestic innovation.

IMPORTANT UPCOMING EVENTS



May 19–21, 2026
Bergamo, Italy



June 03–04, 2026
Calgary, Canada



June 11–12, 2026
Mumbai, India

About **IVAMA**spk

"IVAMAspk" is a quarterly newsletter published by the IVAMA Association, delivering valuable insights into forthcoming projects, businesses, individuals, innovations in product development, IVAMA's ongoing activities, events, and various other relevant industry specific topics.

IVAMA Association encourages its members to contribute news about their companies, appointments to senior positions, and product advancements to help ensure the success of IVAMAspk.

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