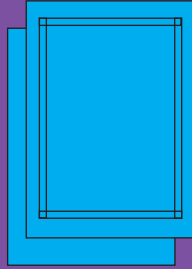


important

'Getting connected to our customers through Infaumation window'

*in***faumation**...

Auma India Quarterly Newsletter (July ~ Sept, 2012)



inside

auma
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*Auma India Pvt. Ltd., 39-B, II Phase, Peenya Industrial Area, Bangalore - 560 058
Ph: 080 2839 4365 / 3041 2222 E-mail: info@auma.co.in*

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Solutions for a world in motion

Mr. Arvind K Goel elected as Chairman, Valves & Actuators Division of CII



We are pleased to inform that our Managing Director, Mr. Arvind K Goel has been elected as Chairman of Valves & Actuators Division of CII in the AGM held on 27th June, 2012. In this capacity, he would represent Indian Valves & Actuators Industry in various forums and take up the issues pertaining to this industry with external agencies.

Our Managing Director Mr. Arvind K Goel gave a special address in the Valve Technology Conference organized by Coimbatore chapter of CII. He spoke about the need as well as the advantages of using high-end technologies and processes in the manufacture of products by the Valves and Actuators industry.

Auma India selected for Terminal Automation projects

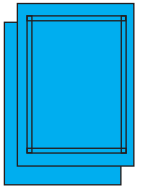
Auma India is proud to inform that it has been awarded the prestigious order for the supply of 226 actuators with field bus control for the automation of 4 petrochemical terminals of HPCL namely Loni (Pune), Budge Budge (West Bengal), Paradeep (Orissa), and Rewari (Delhi) terminals. These actuators would be mounted on Double Block & Bleed Valves being used in the terminal automation to meet stringent safety standards and requirements. With this order, Auma India's presence in terminal automation arena continues to grow strongly with successful supply to the projects in the past such as HPCL (Vizag), IOCL (Paradeep and Panipet), BPCL - Rajbandh, Cherlapally, Vizag and many others.

Auma India Actuators for high pressure gate valves operation for Lanco Power Plant

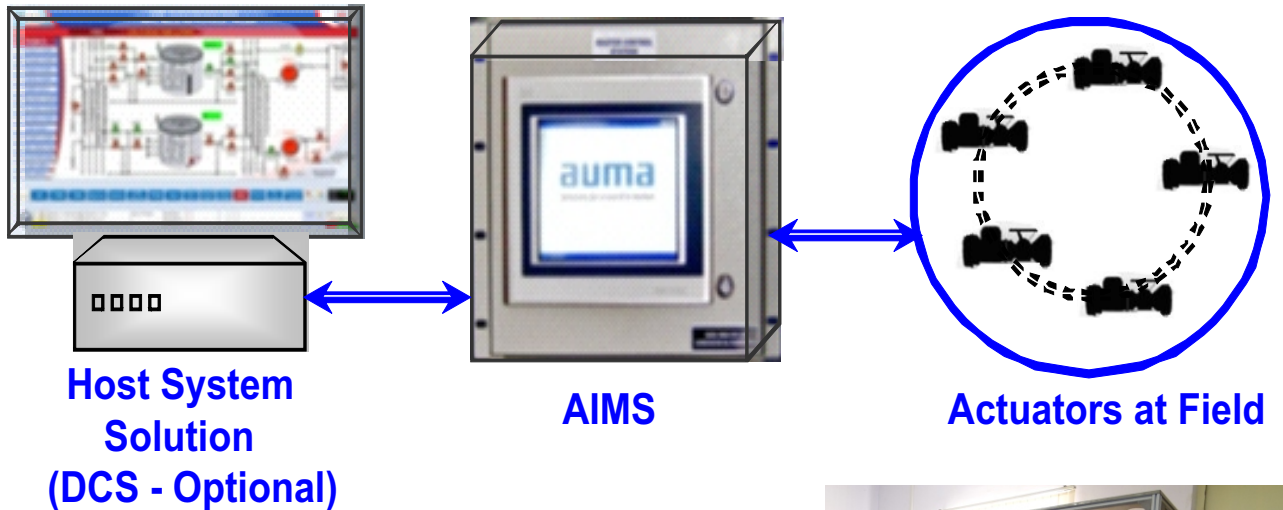
Auma India has executed a prestigious order of supplying actuators & gearboxes for the operation of high-pressure gate valves for a 2 x 660 MW coal based power project near Pathadi in Chattisgarh, implemented by Lanco Power Ltd.

Electrical Actuators with integral starters for 3 × 660 MW Koradi expansion project

Auma India has executed the order for MAHAGENCO by supplying Electric Actuators with Integral Starters for the super-critical unit of 3 x 660 MW Koradi TPS Expansion Project comprising of units 8, 9 & 10.



Auma India sets up Field Bus Test Facility at its Electronics Lab



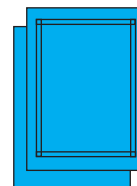
Auma India has built an in-house test facility for testing up to 48 actuators connected to Auma India Master Station (AIMS). This set-up helps in the evaluation of different topologies to simulate installation at site as well as checking for any special requirement of the end customer. AIMS has a dual nature, acting as an interface enabling the integration of AUMA actuators into various host system solutions (DCS) and acting as a standalone master independently. This set up also helps in giving hands-on training to our customers during the customer service training programme.



**New
Actuator
Test
Rig**

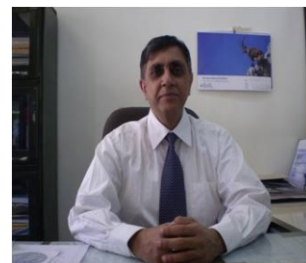


A new Test Rig from Auma Germany, which is highly accurate and contains advanced measuring facility has been installed in Final Testing Quality Line. This facilitates in the evaluation of comprehensive actuation system parameters and validate the performance of entire range of Auma India Actuators. Test Equipment Design Department of Auma Germany had been involved in designing, manufacturing, assembling of these test equipment in Müllheim works. Final Testing Quality personnel have been trained on test rig operations and configuration by Mr. Martin Prinzbach, Head of Test Equipment Design. This test rig has the facility of automatic data access and storage of test parameters of different commission numbers. This is the sixth computerized actuator test rig commissioned at Auma India.



Selection criteria for Worm Gearboxes for part-turn valve operation

Worm Gearboxes are commonly used to provide mechanical advantage for operation of part-turn valves like Ball Valves, Butterfly Valves etc. Some of these gearboxes are operated through actuators, while majority are operated through hand-wheels. Such valves with gearboxes can be found in large quantities in most process industries such as refineries, metal production, cement, power generation, water and waste water treatment, chemical industries etc. In our interactions with the end-users over a long period of time, one frequent complaint has been the failure of gearboxes. Even in one of the largest industry as well as largest user of valves in the country, well known for stringent standards and inspection processes, this was one of the major problems reported to us and our opinion sought to address the issue of failure of gearboxes.



M N Balachandra
Vice-President - Marketing
Contact - Ph: +91-080 - 28370781
E-mail: BalachandraMN@auma.co.in

While the value of gearboxes in a project might be small, it could lead to large losses on this count. In this article, I would like to share some useful tips for the selection of worm gearboxes for long term trouble free operation. Since most of process industries have long life, it is important to consider performance over the design life as well as changes, which might be required during the life of the project.

A study of most Indian specifications recently conducted by us indicated that while there were detailed specifications for design, manufacture and testing of valves and actuators, there was no such requirement for gearboxes. In the absence of specifications, there are chances that gearboxes are selected only on valve torque values & many important parameters such as endurance, end stop rigidity are ignored. While there might not be many problems in the warranty period, problems start surfacing soon after.

Our study shows that in most cases, following criteria are specified by the consultants/ end-users for the selection of Gearboxes:

1. Required operating valve torque with the factor of safety
2. Valve shaft acceptance requirement details
3. Mounting flange dimensions (Occasionally mentioned)
4. Application, whether Manual / Electric operation

These details are not adequate for proper sizing and selection of a Worm Gearbox for intended use.

Other important parameters, which should ideally be specified in addition to the above are:

1. Intended life cycle of the Gearbox under rated load
2. Enclosure standard required by the Gearbox IP67/68 etc
3. The standards to which the Gearboxes should conform e.g. EN 15714, EN 1074, AWWA C-504 etc.
4. Version of the Gearbox required
5. Suitability for all position mounting
6. Possibility of changing from manual operation to electric in future

Many end-users in various forums have also raised the issue why specifications/standards for the gearboxes are not mentioned as a part of the project specifications in the documents. This gives rise to all kinds of Gearboxes being supplied and there is a large room for interpretation. Due to this lacuna, there are reported failures of Gearboxes during the usage in the initial periods at various sites. Many Gearbox manufacturers' in the field escape the above by providing insufficient data or mentioning few facts in such fine print in the catalogue, which may go unnoticed. An optimum selection has to be made by the designer having complete data at his hand based on the operational requirement of Valves, the specified requirements in accordance with relevant EN / AWWA standards and understanding of torque profile characteristics of the Valve in a cycle open-close-open. Proof of design verification test along with the conduction of end-stop rigidity tests is a must as per all international standards to ensure, that quality Gearboxes are used in the industrial projects.

Customer Training Programmes



Onsite Training - Practical Demo of Auma India Actuators - Adani Power, Mundra

Auma Group has supplied over 1000 Actuators to Adani Power Limited, India's largest single location thermal power producer with a capacity of 4620 MW at Mundra. A technical training programme on Electrical Actuators was conducted on 24th and 25th of May 2012 by Auma India Service team consisting of Mr. Krishnamurthy Umesh, Vice-President - Service accompanied by service engineers. Training consisted of a technical theory session followed by live demonstration of the actuator at Adani Power Training and Research Institute. This onsite training programme helped the participants to gain product knowledge for smooth operation and site maintenance of Auma India Actuators.



In-house Customer Training Programme conducted at Auma India, Bangalore

In-house Customer Training Programme was organised by Auma India, Bangalore during 12th ~ 14th of July, 2012, which was attended by representatives from M/S Surat Municipal Corporation, Thermax Limited, IVPL Nashik, Weir BDK Valves, Bellary Thermal Power Supply, IOCL Panipat, Harshco Metals Ltd, GEA BGR Energy System, Jayaswal NECO Industries Ltd. The training session covered both theoretical as well as the practical aspects of Auma India and Auma Germany Installations.



Upcoming Customer Training Programmes

TRAINING START DATE	TRAINING END DATE
9-10-2012	11-10-2012
08-01-2013	10-01-2013

Corporate Social Responsibility (CSR) Activity

Auma India join hands with ISKCON in facilitating Akshaya Patra service

Auma India as a part of corporate Social Responsibility activity has provided a food distribution van to ISKCON for 'Akshaya Patra' service, which provides mid-day meals for the schools in and around Bangalore serving needy school children. This is the fourth van provided by Auma India as a part of CSR activity towards the local community.



For feedback & extra copies, mail us at nandakumar.c@auma.co.in

Editorial Team:

Design & Theme by Nanda C Kumar

News Bulletin Contributors - M N Balachandra
Umesh Krishnamurthy
Vinayak Deshpande
KM Chandrashekar
MS Veeresh
S SriRanjani

Auma India Private Limited

Head Office and Works

39 B, II Phase, Peenya Industrial Area, Bangalore 560 058
Ph: 080 - 3041 2222/ 2839 4365 Fax: 080 - 2839 2809
E-mail: info@auma.co.in Website: www.auma.co.in

Branch Offices

Noida:
#1310, Tower A,
Corenthum Complex, Sector 62,
Noida - 201 301, Ph: 0120-3060522.
E-mail: Veeresh5@auma.co.in

Pune:
712, 713, Building No.1,
'Siddharth Towers', Kothrud,
Pune - 411 038, Ph: 020-2541 0465.
E-mail: NCPatil@aumaindia.com

Kolkatta:
Flat No.G-2, Ashok Park Apartment,
#268, N.S.C.Bose Road,
Kolkatta - 700 040, Ph: 09883029170.
E-mail: arnab@auma.co.in

Chennai:
9, MTH Road, Andal Avenue,
Thirumullaivoyal,
Chennai - 600 062, Ph: 09884119795.
E-mail: vramanan@aumaindia.com