

AUMA India products make a breakthrough in Food Processing Industry

AUMA India has supplied weather - proof actuator with integral starter to operate 5-port chute in the Grain Storage and Seed Preparation Plant at Thanjavur, Tamil Nadu. This is the first time AUMA India is supplying for this kind of application where regulating duty actuator is combined with gearbox for 72° angle of rotation to operate each port.

The modular construction of the actuator allows control unit to be separated from the actuator and mounted separately on wall, which offers following benefits to the customer at site:

- Easy accessibility to the actuator controls for the operation in difficult to reach positions
- Protects actuator electronics from adverse environmental conditions
- Prevents exposure of actuator controls against high temperature



AUMA India actuator and gearbox in use with 5-port valve

AUMA India actuators at Torekadanahalli (T K Halli) Pumping station, Bangalore



AUMA India actuators - an integral part of the 500 MLD Water Treatment Plant at Torekadanahalli, Bangalore. The actuators are used to automate sluice gates for all time plant availability.

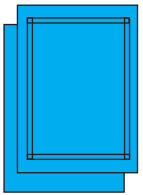
AUMA India actuators at Torekadanahalli pumping station

AUMA India to supply actuators for 3 x 67.5 MW Thermal Power Plant, Kalinganagar

AUMA India has bagged the order of weather - proof actuators with integral controls for 3 x 67.5 MW gas based thermal power plant, Kalinganagar. These actuators will be controlled remotely at three different locations in the plant for all time plant availability.

Industrial Energy Limited, a subsidiary of Tata Power is setting up this power plant at Kalinganagar, Odisha. Tata Consulting Engineers Limited are the consultant for this power project.





AUMA India to provide weather - proof actuators for Bandel Thermal Power Plant, West Bengal

AUMA India has bagged the order of weather - proof actuators with integral controls for the automation of various valves and dampers at Bandel Thermal Power Station Unit 5 (1 x 210 MW). West Bengal Power Development Corporation Limited has signed contract with M/s Doosan Heavy Industries & Construction Company, Korea to take up the Renovation and Modernisation work at this plant.

AUMA India's scope of work under this Energy Efficiency Renovation & Modernisation project consists of site study, supplying and commissioning of suitable weather - proof electric actuators.



Bandel Thermal Power Plant, West Bengal

AUMA India supplies weather - proof actuators for special application

AUMA India has supplied special weather - proof actuators for operating large Slip rings in the Slip ring Induction Motors. These actuators are supplied through WEG India, a subsidiary of global solution provider for electric motors.

After successful commissioning of the first order, AUMA India has received the repeat order for the same. This adds to the range of applications for AUMA India Products.

AUMA India exports worm gearboxes to Turkey

AUMA India has supplied worm gearboxes (614 nos.) to a Turkish valve manufacturer Dogus Vana Ve Dokum Sanayi Ticaret Ltd Sti.

The product supply includes different range of Worm gearboxes such as GS 63 / GS 80.2 / GS 100.2 / GS 160 / GS 200.

Order & Cleanliness and World-class Production System Audit in AUMA India

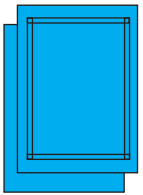
To achieve total organization, cleanliness and standardization in the workplace, AUMA India has taken steps to implement Lean manufacturing system in the company.

A Group Improvement team from AUMA Germany visits AUMA India on regular basis to conduct Order & Cleanliness and World-class Production System audit and provides inputs on best practices in lean that are already implemented and tested in the parent company, AUMA Germany.

Implementation of these practices would enhance the quality of job performance, shorten the time required to process individual tasks and make the company more presentable to our customers in terms of quality of product and best manufacturing practices. In this year's audit, AUMA India has received the rating indicating good progress towards 5s implementation.



Workshop on Order & Cleanliness and World-class Production System



Functional Safety – SIL

- Mr. M N Balachandra, Vice-President, Marketing

In last article, we learnt about functional safety, SIL and applicable standards of SIL. Continuing in the same line, in this article we will go into more details about SIL.

The standards IEC 61508 / 61511 define a recognized method of risk evaluation for safety related system used in the process industry.

The HAZOP team (hazard & operability studies) of the plant makes a safety instrumented assessment i.e., identification of potential hazards for persons and environment of all the processes where safety functions are involved in the plant.

Each of the potentially dangerous process is examined to determine the resulting hazard and consequence due to failure. Risk assessment defines the extent and occurrence probability of the risk and whether process must be protected by a safety function highlighting desired SIL level the safety function must achieve.

Then depending on the required SIL, the components for implementing the safety function will be selected. The devices used in the safety loop are tested for classification in compliance with safety integrity levels.

On the basis of safety figures of implemented devices, verification is made for each safety function whether the demanded SIL is achieved and if not additional actions will have to be taken.

Functional safety is achieved if safety functions work reliably in case of failure. In the valve sector, the following safety functions are of crucial importance.

- SAFE OPENING
- SAFE CLOSING
- SAFE STAND STILL / STOP
- SAFE END POSITION FEEDBACK

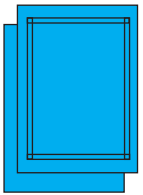
Since the valve and Actuators form part of a safety instrumented system while assessing demand at SIL for a safety function, the safety figures of all individual devices form the safety instrumented system must be considered.

The very important safety figures considered are Average probability of dangerous failure on demand PFD_{avg} , Failure rates λ , Safe failure fraction SFF, Hardware fault tolerance, Device type A or B, Mean time between failures MTBF, Interval for proof tests etc.

Target PFD_{avg} Measures for Low Demand Type

Safety Integrity Level	Allowed PFD_{avg} measure (low demand)	Theoretically allowed failures for a safety function on demand
SIL 1	= 10^{-2} to $< 10^{-1}$	One allowed dangerous failure in 10 years
SIL 2	= 10^{-3} to $< 10^{-2}$	One allowed dangerous failure in 100 years
SIL 3	= 10^{-4} to $< 10^{-3}$	One allowed dangerous failure in 1000 years
SIL 4	= 10^{-5} to $< 10^{-4}$	One allowed dangerous failure in 10000 years

Functional Safety @ AUMA!!! - continued in next issue



Customer Training Programme

A 3-day customer training programme was organised by AUMA India in its premises during 23rd - 25th Apr 2013, which was attended by delegates from M/s VAG Valves - Hyderabad, M/s NTPC - Barh, M/s Seniorita Marketing - Durgapur, M/s HPCL - Visakhapatnam, M/s BHEL - Trichy, M/s BLA Power Pvt Ltd - Narasinghpur, M/s JSW - Toranagallu.



Customers @ Practical Training Session

Next Training Programme : 24-10-2013 to 26-10-2013

AUMA India presented Scholarships to Meritorious Kids of its Employees

Every year, AUMA India recognizes the meritorious children of AUMA employees by presenting them Scholarships under the merit-based scholarship programme under Employee Welfare Programme.



Ms. Soujanya G S.
D/o Mr. Ganapathi Sindhe
(Secured 92.32 % in S.S.L.C Exams)



Mr. Abhijeet Sabnis
S/o Late Raghavendra G Sabnis
(Secured 92.64 % in S.S.L.C Exams)



Mr. Vignesh G
S/o Mrs. Vani S
(Secured 94 % in S.S.L.C Exams)

AUMA India donates 5th food distribution van to ISKCON

In continuation with its effort to help young children in India, AUMA India has donated 5th food distribution van to Akshaya Patra Foundation of ISKCON. AUMA India associated with this foundation in the year 2008 which provides food for education to children in India.



Food Distribution Van donated by AUMA India

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