Position Title: Product Engineer
Reports to: Engineering Manager
Locations: Long Beach, California

No. of Subordinates: None

Scope
Responsible for product design and development of Wedgeplug Plug (Plug Valve) Wedgetorque actuator products, Pressure Seal gate, globe & Check (GGC) valves and new product development of similar valves for specific niche applications in the power generation and hydrocarbon processing industries.

The Wedgeplug / Pressure Seal product engineer is responsible for all product development and design reviews including Engineering Change Notices (ECN’s) review and approval for the Pacific brand Wedgeplug and Pressure Seal valve product lines and Aloyco HF acid corrosion resistant steel valves. This includes responsible for creating, maintaining records & related files including creation, review and approval of all technical documents including manufacturing drawings, internal technical specifications, valve specifications and performance data and responsibility for approval of third party, brand label valve approval.

PRINCIPLE RESPONSIBILITIES:

- Establish a strong focus on internal and external customer service
- Provide technical support via direct communication to sales, marketing and customers.
- Provide all necessary internal and external technical support for the complete range of Wedgeplug and Pressure Seal GGC valves and Wedgeplug actuators.
- Provide technical support and assist in resolution of manufacturing problems as required.
- Provide product training to sales and customers
- Collaborate with peers to determine department goals and objectives and maintain all necessary Key Performance Indicators (KPI’s) applicable to the Pacific product lines including input for annual budget planning.
- Review and approve all product documentation
- Working knowledge of carbon and alloy steels used in high temperature applications up to 1000 degrees F.
- Possess a detailed knowledge of an MRP system
- Comprehensive knowledge of BOM structure and change control processes.
- Demonstrate strong attention to detail
- Pursue and support cost reduction activities to achieve established company goals.
- Ensure proper upkeep and maintenance of revision controlled technical documents as required by ISO 9001.
- Be accountable for the development, coordination, and maintenance of the company’s engineering controlled documents as they relate to the designated product lines.
- Work with other product engineers, Business Line Managers, Product Sales Managers and department managers to ensure technical documentation needs are planned and met
- Review and approve Engineering Change Orders (ECO) applicable to product line responsibilities
- Demonstrated proficiency in MS Word, MS Excel, MS Access, MathCAD, 3-D CAD software such as Solidworks.
- Good interpersonal and training skills
- Ability to work independently, resolve technical and manufacturing issues without detailed direction, and work as part of a team
- Ability to work within strict deadlines
- Capability to accurately and efficiently work on multiple projects.
- Possess excellent organizational, communication, proofreading, editing and technical writing skills
- Ability to proactively identify and resolve engineering and manufacturing related issues and have a through understanding of machine shop and foundry practice.
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- Provide guidance and participation in the creation of an engineering test facility.  
- Conduct or provide detailed input for engineering testing of product including written test plans, DFMEA and final engineering reports.  
- Possess an understanding of static linear FEA to determine compliance to published design codes and other applicable design standards.  
- Ability to occasional travel on an ‘as required’ basis.

Requirements and Qualifications:  
- BS in mechanical engineering  
- Minimum of 10 years experience in an industrial valve or valve related engineered product engineering department  
- Proficient and have a through understanding of AutoCAD and Solid Works  
- Possess a through knowledge of ISO 9001 quality management standards  
- Industrial pump experience  
- Electric and pneumatic Valve actuator knowledge  
- Working knowledge of Computational Fluid Dynamics (CFD)

Understanding of required technical specifications:  
- API 600, API 602, API 598, API 603  
- PED 97/23 EG  
  ASME B16.34, ASME B16.25, ASME B16.10, ASME B16.5,  
  ISO 5211  
  MSS SP-

ADDITIONAL COMMENTS: This position is being added as part of an effort to restructure the technical/ commercial activities related to the new Business teams. The effort is to address gaps identified in our strategic planning process related to global product ownership and competitive positioning. This position currently has some of its functionality within the PSM position. However, Crane Energy is looking for a more global (and expanded) application in the traditional Product Management function. Accordingly, the candidate must be able to create the necessary work processes and work templates. Further, the candidate will also be required to demonstrate a capability of working within a matrix organization on a global level, and develop the appropriate winning strategy for the assigned product.

Interactions:  
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Organization Structure:  
- Will report to the Engineering Manager

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