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Stress Analysis On Gate Valve

Gate valves have been

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widely used in the piping system and have attracted a lot of attention from researchers. In this paper, a wedge-type double disk parallel gate valve is chosen to be analyzed. The Reynolds number varying from 200 to 500,000, and the valve opening degree varying from 20% to 100%, and the groove depth varying from 2.3 mm to 9 mm are

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chosen to investigate
their effects on the ...

Flow Characteristics and Stress Analysis of a Parallel ...

Gate valves are so named because the part that either stops or allows flow of fluid through the valve acts somewhat like the opening or closing of a gate and is called, appropriately, the gate. The...

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Gate valves are often designed for cases where the motive fluid is supposed to possess high temperature. These High temperature fluids impact the structural strength of the valves, due to excessive stress generation and concentration in restrictive regions.

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Gate Valve Body Assembly, Structural Analysis of the Gate

...

Gate valves are used when a straight-line flow of fluid and minimum restriction is desired. Gate valves are so named because the part that either stops or allows flow of fluid through the valve acts somewhat like the opening or closing of a gate and

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steam gate valve during start up and shut down phase based on thermal stress analysis. Punitharani, Murugan, Shivagami [3] has studied the effect of establishment of temperature distribution, distortion and residual stress field developed during plasma arc hard facing

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over low alloy steel
gate valve

Structural Analysis of Gate Valve Body Using F.E.A.

Gate valves play an important role in today's generation. You can see valves from household to some big industries. The function of valves is to control the flow, pressure, velocity and direction of liquids.

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Design & Analysis of Gate valve DN900

#150

finite element analysis (FEA) method to evaluate the residual stresses in a gate valve, and they found that there were large tensile and compressive residual stresses on the circular bead of the gate valve. Gate valves can be classified into the wedge gate valve, the parallel gate valve, the

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double disk

**1, Jun-ye Li 1,* and
Zhi-xin Gao 1,2 -
MDPI**

Structural Analysis of
Gate Valve Body Using
F.E.A. - written by Mr.
Pradip Bhaskar Patil,
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Structural Analysis

Page 12/26

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Gate valve stress analysis is done by FEM using ANSYS 11 and validation is supported by stress analysis using classical theory of mechanics. Finally, the result obtained from FEM software and classical analytical theory is compared. Index Terms— Ansys, Gate Valve, Torsional Shear Stress,

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**Volume 2, Issue 10,
April 2013 Finite
Element Analysis of**

...

The main purpose is to create a model of the gate valve body and analysis the load deformation, stress concentration, temperature distribution and directional heat flow in the valve body at the place where the seat ring is welded.

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(PDF) DESIGN AND ANALYSIS OF GATE VALVE BODY AND SEAT RING ...

Thus, in order to achieve cost effective design, less design time and to produce accurate design performance outcome, CAD tools such as finite element analysis (FEA) is utilized extensively to analyze stress behaviors of the critical valve elements such as

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the gate, stem, valve body and bonnet.

Finite Element Analysis and Design Validation of High ...

Stress analysis is required to know pipeline stresses and improper installation can increase operating stresses. Double Disc Parallel Seat In this type of a gate valve, there are two parallel seats against which a double disc is forced, b

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y a 'spreader'. They are used for liquids and gases at normal temperatures.

Piping Materials : Gate Valves » The Piping Engineering World

A and Joshi G. S}, title = {ANALYSIS AND DESIGN OPTIMIZATION OF 8''- 600 # GATE VALVE BODY USING FEA AND STRESS ANALYSIS}, year = {}
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Abstract. A gate valve can be used for a wide variety of fluids and provides a tight seal when closed. Gate Valves are designed to suit a wide range of applications in Refineries, Petro ...

ANYALYSIS AND DESIGN OPTIMIZATION OF 8''- 600 # GATE VALVE ...

5. How the valves are classified based on end

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connection? Valves are classified based on end connection as: - A. Screwed ends. B. Socket ends. C. Flanged ends. D. Butt weld ends. E. Wafer type ends. F. Buttress ends. End connection means arrangement of attachment of the valve with the equipment or the piping.

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Every pipe stress software program I've seen treats valve weights at piping centerline as if the valve is a pipe, and valve vendor technical sheets aren't much. Modeling valves in piping stress analysis - Pipelines, Piping and Fluid Mechanics engineering - Eng-Tips

Modeling valves in piping stress

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Iron Body Gate Valves -
Descriptions and
Features on Page 9 ...
Utilization of materials
to their full capability is
assured by the use of
stress analysis
techniques that include
extensive laboratory
testing as well as the
application of
analytical theory.
Stress levels for all
materials used

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predict reliability, a sound valve design must be backed up by a stress analysis and functional qualification testing under critical operating conditions. Typical tests performed on our valves are shown here. Testing of small forged valves. Cycling of high pressure (2500 class) Cryogenic Gate valve at -320°F. 4 After test Testing

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CRYOGENIC VALVES

- Velan

Seated gate Valves for
Water Supply Service.

2. The valves shall
have a cast iron body,
bonnet and wedge. ...

Chemical Analysis
(percent) Phosphorus
(maximum) .75 ...

Eliminates possible
stress on stem and
wedge Can be replaced
with valve in service
Facilitates Repacking
Under Pressure Trouble-

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free service with
minimum maintenance

www.kennedyvalve.com

Duckbill Check Valve.

Description Duckbill valve is manufactured from rubber or synthetic elastomer, and shaped like the beak of a duck.

Commonly used in medical applications to prevent contamination due to backflow. One end of the valve is

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stretched over the outlet of a supply line, conforming itself to the shape of the line, usually round.

Duckbill Check Valve | Design and Engineering

Valve selection is a important activity of a material engineer or process engineer. Key to ...Read More..

Frequently used types of valves are Gate Valve, Globe Valve,

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Valve In
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Ball Valve, Check
Valve, Butterfly ...Read
More.. Gate valve has a
flat disc called gate
that travels
perpendicular to the
flow stream.

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