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3D CFD Predictions and Experimental Comparisons of Pressure Drop in a Ball Valve at Different Partial Openings in Turbulent Flow

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Journal of Energy Engineering - ASCE, 2008, 134, 24-28.

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#	Paper	IF	Citations
38	Optimization of Valve Block Shape Using CFD. <i>Applied Mechanics and Materials</i> , 2012 , 190-191, 133-138	0.3	1
37	Numerical simulation and analysis of ball valve three-dimensional flow based on CFD. <i>IOP Conference Series: Earth and Environmental Science</i> , 2012 , 15, 052024	0.3	3
36	3-D Euler-Lagrange CFD Simulation of Particle Impact on Carrier Fluid Through Gate Valve. 2012 ,		1
35	CFD simulation of leak in residential HVAC ducts. <i>Energy and Buildings</i> , 2012 , 54, 534-539	7	3
34	Intersection area of a stationary circle and a circle under a coupled axial rotation and translation. <i>Journal of Geometry</i> , 2013 , 104, 461-467	0.4	
33	Numerical Study on Cavitation Occurrence in Globe Valve. <i>Journal of Energy Engineering - ASCE</i> , 2013 , 139, 25-34	1.7	36
32	Numerical characterization of the hydrodynamics and thermal behavior of air flow in flexible air distribution system. 2013 ,		
31	Theoretical and Experimental Investigation of Flow Rate of Leveling Valve with Filters for Different Operating Angles. 2013 ,		1
30	Validation of Flow Impact to Detect the Energy Loss in Ball Valve. <i>Applied Mechanics and Materials</i> , 2014 , 564, 281-286	0.3	
29	Effect of cone angle on the hydraulic characteristics of globe control valve. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2015 , 28, 641-648	2.5	11
28	Design of cages in globe valve. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2015 , 229, 476-484	1.3	6
27	Numerical Analysis of Cavitation Phenomenon in a Vaned Ring-Type Needle Valve. <i>Journal of Energy Engineering - ASCE</i> , 2015 , 141, 04014053	1.7	7
26	Influence of flashboard location on flow resistance properties and internal features of gate valve under the variable condition. <i>Journal of Natural Gas Science and Engineering</i> , 2016 , 33, 108-117	4.6	22
25	Effects of orifice on pressure difference in pilot-control globe valve by experimental and numerical methods. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 18562-18570	6.7	12
24	Numerical and experimental studies on hydrodynamic characteristics of sleeve regulating valves. <i>Flow Measurement and Instrumentation</i> , 2017 , 53, 279-285	2.2	17
23	Influence of opening and closing process of ball valve on external performance and internal flow characteristics. <i>Experimental Thermal and Fluid Science</i> , 2017 , 80, 193-202	3	45
22	Numerical performance and safety analyses of a retainer-type ball valve for use in a high-pressure district heating pipeline. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2017 , 231, 1249-1260	1.5	2

21	Ball Valve Behavior under Steady and Unsteady Conditions. <i>Journal of Hydraulic Engineering</i> , 2018 , 144, 04018005	1.8	19
20	Computational fluid dynamics analysis on orifice structure inside valve core of pilot-control angle globe valve. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2018 , 232, 2419-2429	1.3	13
19	The Parametric Modeling of Local Resistance and Pressure Drop in a Rotary Ball Valve. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2018 , 140,	2.1	5
18	An investigation of the failure of a 1/4" ball valve. <i>Engineering Failure Analysis</i> , 2019 , 100, 393-405	3.2	17
17	Performance analysis of a ball valve used for gas pipelines by introducing nondimensional parameters. <i>Advances in Mechanical Engineering</i> , 2019 , 11, 168781401882335	1.2	6
16	An assessment of eddy viscosity models on predicting performance parameters of valves. <i>Nuclear Engineering and Design</i> , 2019 , 342, 60-77	1.8	11
15	Numerical Analysis for Water Annulus Transportation of High-Viscosity Oil Under the Opening Ball Valve. 2019 , 136-151		
14	Numerical Analysis to the Effect of Guiding Plate on Flow Characteristics in a Ball Valve. <i>Processes</i> , 2020 , 8, 69	2.9	4
13	Fluid dynamic analysis of liquefied natural gas flow through a cryogenic ball valve in liquefied natural gas receiving stations. <i>Energy</i> , 2021 , 226, 120376	7.9	7
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10	An Experimental and Numerical Study of Regulating Performance and Flow Loss in a V-Port Ball Valve. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2020 , 142,	2.1	30
9	A Study on Structural Analysis of High-Pressure Pipeline Retainer-Type Ball Valve by Pressure Testing of the Industrial Standard. <i>The KSFM Journal of Fluid Machinery</i> , 2015 , 18, 13-18	1.5	1
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- 1 A New Model of Hydraulic Valve for Building Installations Which has a Sliding Command and Which Works Completely Embedded in the Masonry. **2023**, 15, 1441 ○