BNSV

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CODE:871874

Everlasting endeavor and innovation based
on utilization of others' experienc

Rotary ball valve

Brief introduction

Besnv Valve Stock Co., Ltd. is located in Tianjin Baodi Jiuyuan Industrial Park on the coast of Bohai Sea. It is a non regional industry company integrating valve R & D, production, sales and service. Over the years, the company has been learning and innovating in the exploration, developing strongly in the competition and striving for "the first brand of water valve in China". In August 2017, the company was successfully listed in the national small and medium-sized enterprise stock transfer system (new third board), stock abbreviation: Bensv, securities code: 871874.

Bensv has passed the certification of ISO9001 quality management system, ISO14001 environmental management system, GB / T28001 occupational health and safety management system, EU CE, and the State Administration of quality supervision, inspection and Quarantine (TS), and has won the honors of "high-tech enterprise", "national defense special valve research and development center", "Tianjin enterprise technology center", "Tianjin Science and technology enterprise".

Bensv has been adhering to the enterprise spirit of "striving endlessly, absorbing for innovation", and attaches great importance to R & D investment and technology promotion and application. The "valve flow resistance test device" and "air valve inlet and exhaust performance detection device" are built by introducing three-dimensional simulation manufacturing test design software and hydraulic calculation software. Among them, the "air valve inlet and exhaust performance detection device" has advanced design, complete functions and strong test ability, reaching the international leading level. With Wuhan University, Changsha University of science and technology, North China University of water resources and hydropower, the company has widely carried out industry university research cooperation, and has established "academician expert workstation" and won the license of Tianjin Science and Technology Commission. The company has obtained more than 200 patent technologies, edited and participated in the compilation of more than 10 national and industrial standards, published more than 10 papers in important journals in the industry, and won one China machinery industry science and technology award.

Bensv's leading products include butterfly valve, gate valve, eccentric hemisphere valve, exhaust valve, flow regulating valve, water hammer protection equipment, expansion device and other series, which are energy-saving and environmental protection. With the strength of designing and manufacturing large-scale valves, many products have become the industry benchmark and applied to national large-scale engineering projects. The products have won the famous trademark of Tianjin, and are widely used in water supply fields such as long-distance water supply, water supply and drainage, petroleum, chemical industry, power plant, air conditioning, pipeline system, etc.

Bensv's product sales cover the whole country, providing technical and product services for major projects such as South to North Water Diversion, yellow water to east water diversion, water diversion from Yangtze River to Huaihe River, water supply from South Korea, water diversion from Central Jilin, Baise reservoir in Guangxi, China water affairs, Huaxing optoelectronics, Huacan photoelectric and other major projects. At the same time, it is also exported to the United States, Russia, France, Thailand, South Korea, Italy, UAE, Brazil, Iran, Ukraine, Malaysia, Saudi Arabia and other nearly 20 countries and regions. In response to the one new initiative of the one belt, one road is to actively develop economic and trade cooperation with the countries along the route.

Bensv always adheres to the policy of "struggle, introduction, absorption and improvement", follows the business philosophy of "integrity, cooperation, win-win and development", adheres to the principle of "good word first, seeking progress in stability", pays attention to product research and development and improvement, gives back customers and society with high-quality products and warm and thoughtful service, and advances towards a higher goal.

PRECISE EQUIPMENTS
TECHNICAL PILOT

"Want to be powerful needs to make ready the tools first". Bensv gets greatly familiar with it,People of Bensv know that good management, good ideas and good talents are not enough to mean an enterprise holds a powerful productive power and makes sure of a excellent product quality, as excellent equipments are also required. Bensv leads in the production and process equipments of the world advanced level and the technical talents and holds high precise digital control machine tools, large processing facilities and special technological ones, all of which provide a powerful guarantee for the product quality and the enterprise development.








PRECISE AND PERFECTION
STRICT AND PRACTICAL

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Academician and expert team

Expert introduction

Mao Zhi

Mao Zhi, academician of Chinese Academy of engineering, water conservancy expert
Professor and doctoral advisor of Wuhan University
Consultant of science and Technology Committee of Ministry of water resources
Director of Engineering Technology Committee of national water saving irrigation engineering technology center (Beijing).

He has long been committed to the research, teaching and production of water conservancy and farmland irrigation, and has made outstanding achievements in the theory and technology of irrigation engineering and water use management. The "water-saving irrigation method for farmland" has developed the theory of water-saving irrigation for farmland, which has far-reaching academic value. It has promoted 1.66 million hectares, increased 274000 tons of grain production, saved 1.3 billion cubic meters of water, and created more than 400 million yuan of economic benefits.

As the first prize winner, he has won 6 Awards above the provincial and ministerial level since 1995: the second prize of national science and technology progress, one national science and Technology Progress Award nominated by the Ministry of education and one second prize of Hubei Province, two second prizes of science and technology progress awarded by the Ministry of water resources, and the "outstanding contribution award of international agricultural water saving irrigation technology innovation" issued by the international irrigation and drainage Commission in 2000

In addition, he also won the second prize of national popular science works and several third prizes of provincial and ministerial level scientific and technological progress. He was selected as the chief expert of the academic group of the national irrigation experimental network, and was selected as one of the "500 outstanding academic leaders in the world in recent 25 years" by the American Biography Institute. In recent years, he has given lectures in 18 countries, presided over international conferences and academic reports at international conferences, presided over water-saving research projects of international cooperation, and won praise from foreign peers. He has devoted himself to the development of China's water conservancy irrigation experiment and played an important role in the quality of China's irrigation experiment station. It has made an important contribution to improving the reputation of our country.

Expert introduction

Jiang Jin

Professor, doctoral supervisor, School of power machinery, Wuhan University
Director of Key Laboratory of hydraulic machinery transition process, Ministry of Education
Member and Secretary General of pumping station professional committee of China Water Conservancy Society
Young and middle-aged experts with outstanding contributions in Hubei Province (2005)
Member of the national science and Technology Award

The main research directions are as follows
1. Experiment and numerical simulation of transient process of fluid mechanical device
2. Condition monitoring and fault diagnosis of fluid machinery
3. Three dimensional flow field simulation of fluid machinery (valve and pump)

He has been engaged in fluid machinery flow field calculation, pump system transient process calculation, rotating machinery condition monitoring and fault diagnosis research for a long time, especially in fluid transportation transient process calculation of ultra long distance pipeline.

He has successively undertaken a number of vertical projects such as National Natural Science Foundation of China, 948 project and national defense pre research of the 13th five year plan, participated in key projects of national science and technology support plan of the 11th Five Year Plan and the 12th Five Year Plan, 863 plan and other projects. In recent years, he has undertaken flow field calculation and optimization design of new nuclear reactors in main pump circuit of acpr1000 + and hualong-1 nuclear power plants, and advanced engine fuel supply system We have also undertaken a large number of simulation and calculation projects for the transition process of water supply system, especially for the transition process of long-distance pipeline fluid transportation, including the transition process simulation projects for the longest single-stage water supply pipeline in China and the longest slurry pipeline under construction in the world. More than 60 papers have been published, and a number of provincial science and technology progress awards have been awarded.

Expert introduction

Luo Yufeng

Professor, doctoral supervisor, School of water resources and hydropower, Wuhan University

Professor Luo Jia

Convenor of UNESCO International Symposium on the role of mathematical models in integrated watershed water resources management

Member of pastoral Water Conservancy Committee of China Water Conservancy Society.

The main research directions are as follows
1. Theory and technology of water saving irrigation
2. Water resources management and efficient utilization
3. Construction and management of Ecological Irrigation District
4. Intelligent irrigation system

Main achievements: presided over two NSFC projects, one key project, one sub project of key R & D plan and nearly 20 other projects, participated in Australian International Agricultural Research Center (ACIAR) project, "973 Plan" project, "863 Plan" project, National Science and technology support plan project, Ministry of water resources public welfare industry research special project, Ministry of water resources "948" project He has published more than 100 papers, including more than 40 SCI papers and 20 EI papers, published one monograph and one textbook, authorized more than 10 patents and 3 software copyrights.

Expert introduction

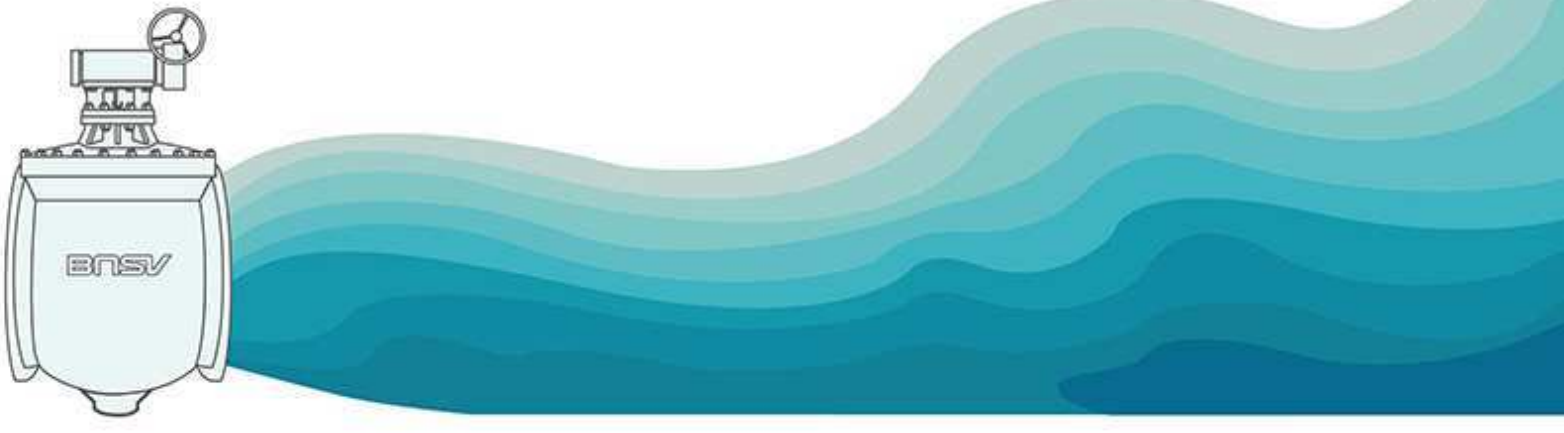
Li Zhipeng

Professor, School of energy and power engineering, Changsha University of Technology
The executive director of fluid engineering branch of Chinese society of mechanical engineering
Member of hydraulic turbine special committee of China Power Engineering Society
Director of drainage and irrigation machinery branch of China Agricultural Machinery Association
Member of pump and Pumping Station Committee of China Water Conservancy Society
Director of rotor dynamics special committee of Chinese society of Vibration Engineering
Member of energy and Power Engineering Committee of China Machinery Industry Education Association
Water supply and drainage pump valve expert of China Building Metal Structure Association
Member of National Technical Committee for standardization of small hydropower units in energy industry
Member of national safety relief device Standardization Technical Committee
Energy saving expert of Hunan development and Reform Commission
President of Hunan General Equipment Industry Association and chairman of test technology and quality management committee
Vice president and Secretary General of Changsha Pump and valve industry technology innovation strategic alliance
Member of the 3rd and 4th Academic Committee of Changsha University of technology, editorial board member of Journal of drainage and irrigation machinery engineering, Journal of Changsha University of technology, Journal of enterprise technology development, and specially invited editorial board member of Journal of hydraulic machinery technology and pump China.
Reserve candidates for the first batch of leaders of cross century academic and technical talents in Hunan Province
Excellent young and middle-aged experts in Hunan Province.

Main research directions
1. Internal flow research and optimization design of fluid machinery;
2. Fluid transportation system regulation control and safety protection;
3. Energy saving technology of fluid conveying system.
He has undertaken more than 50 national, provincial and ministerial level scientific research projects, won 12 provincial and ministerial level scientific and technological awards, published more than 100 academic papers, won 12 invention patents, published 3 academic monographs, participated in the compilation of 1 technical manual, presided over and participated in the drafting of more than 10 national industry standards and more than 20 enterprise standards.

Future Prospect

As a hi-tech enterprise providing valves for water industry, energy saving and environmental protection engineering, with the attitudes of taking precautions, looking far and aiming high, BNSV is sparing no efforts to boost and drive the development of the water industry and making its own contributions to benefit the humans.



Characteristic:

The main feature of rotary ball valve is that it can not only shut off reliably in forward pressure, but also in reverse pressure or reverse pressure far greater than forward pressure. On the two sealing surfaces of the sealing pair, advanced technologies such as space plasma spraying, ether laser sputtering and vacuum protection infiltration surfacing can be used to form gradient functional materials such as martensitic stainless steel, austenitic stainless steel, cemented carbide, cermet and synthetic diamond. It can automatically align the center and compensate the wear automatically. When the ball valve is closed, the energy of the medium in the ball valve is fully utilized, and the high sealing specific pressure is automatically applied to make the high hard sealing pair achieve reliable zero leakage. There is no friction between the sealing pairs for instant closing and opening. The main structure of rotary ball valve is similar to butterfly valve, which has the characteristics of short structure and small volume of butterfly valve, so it can be used to manufacture valves with extra large diameter and large diameter.

Material:

Part Name	Material
Body	Nickel chromium cast iron and other special materials
Disc	WCB、Q235、Stainless Stee
Stem	Stainless Stee
Seat	WCB、Q235、Stainless Steel

Overall dimension:

DN	A	B	C	D	E			H			L		N-Φd	
					Manual	Pneumatic	Electric	Manual	Pneumatic	Electric	wafer	flange	wafer	Flange
50	88	110	140	112	200	245	255	350	625	530	43	108	4-M14	4-M14
65	108	130	160	115	200	245	255	370	625	530	46	112	4-M14	4-M14
80	124	150	190	120	200	245	255	380	645	565	64	114	4-M18	4-M18
100	144	170	210	138	200	355	255	420	675	600	64	127	4-M18	4-M18
125	174	200	240	164	200	355	255	460	715	640	70	140	4-M18	8-M18
150	199	225	265	175	280	355	315	55	800	705	76	140	4-M18	8-M18
200	254	280	320	200	425	250	315	760	850	775	89	152	4-M18	8-M18
250	309	335	375	230	425	250	315	830	925	945	114	165	4-M18	12-M18
300	363	395	440	260	560	450	315	895	1035	1070	114	178	4-M22	12-M22
350	413	445	490	300	560	450	315	950	1070	1140	127	190	4-M22	12-M22
400	463	495	540	340	580	450	315	1190	1190	1210	140	216	4-M22	16-M22
450	518	550	595	350	580	650	714	1255	1250	1335	152	222	4-M22	16-M22
500	568	600	645	380	580	650	714	1305	1290	1415	152	229	4-M22	20-M22
600	667	705	755	450	660	850	810	1340	1455	1605	178	267	4-M24	20-M26
700	772	810	860	480	550	850	810	1520	1585	1844	229	292	4-M24	24-M26
800	878	920	975	530	550	1250	810	1710	1700	2040	241	318	4-M27	24-M30
900	978	1020	1075	580	550	1250	863	1810	1965	2255	241	330	4-M27	24-M30
1000	1078	1120	1175	650	750	1250	863	1960	2015	2380	300			

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