



天津市北方阀门控制设备有限公司
TIANJIN BEIFANG VALVEACTUATOR CO.,LTD.

YI XING FU Science & Technology Area
Beichen District, Tianjin 300410, China
Tel : +86 22 26308907 26309159
Fax : +86 22 26300975
E-mail : bf@tj-beifang.com
Web : www.tj-beifang.com



Our website



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Tianjin Beifang Valve Actuator Co., Ltd.

BFYB Issue 2015



Tianjin Beifang Valve Actuator Co., Ltd. (BF for short) always focus on the design and manufacture of excellent valve actuator and control equipment.

BF attaches great importance to product design, and the design team has strong product design and innovation ability. BF has complete intellectual property rights and a number of technical patents. Over the years, our products have been annual exported in batches and were widely and successfully used in water treatment, oil, electricity, chemical and other industries.

BF acquired the authentication of quality management system standards ISO9000 of DNV in 1998. Strict quality control in all stages and constantly improving the product quality control standards is the consensus of the staff.

BF believes that only solid the software and hardware foundation to achieve long-term stable development. We have set up some advanced computer-aided system, such as product design, resource management, production management, and so on. And we have set up the platform of precision machining mainly based on CNC machining center. We also continue to establish and improve a documented management system.

BF will design and manufacture products solidly and continue our efforts to create more value for customers.

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About us



Integrity and Innovation

In 1988

BF was founded in July 1988. LQ series part-turn valve electric actuators that were developed and produced in that year quickly got well reputation from users depending on advanced technology, compact shape and excellent quality.

In 1990

The creative designed 802 series part-turn valve electric actuators which had several patents were formally put into production in 1991. 802 series actuators enjoy good popularity at home and abroad for optimal design and reliable application.



In 1992

BF was settled in Science & Technology Area Beichen District, and became a member of China Valve Industry Association. Besides, 802 series actuators were put into full production and entered the market in that year.

In 1993

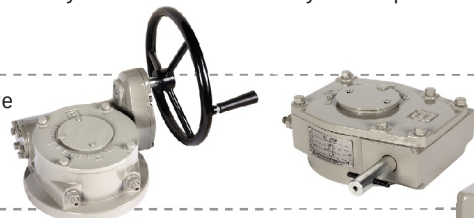
The annual sales were over 10,000,000 RMB.

In 1994

501 series multi-turn valve manual actuators with planetary gear drive system were successfully developed.

In 1995

402 series part-turn valve manual actuators with worm-gears drive system were successfully developed.



In 1996

By great improvement, LQA series electric actuators replaced the LQ series and were put into market. The annual sales reached 16,000,000 RMB.



In 1997

LQA, 802 series actuators won National Technological Achievement Award and the third prize of Tianjin's Technological Achievements. In addition, 602 series multi-turn valve manual actuators were successfully developed.

In 1998

BF passed the ISO9002:1997 quality management system certification of DNV. CAD was fully adopted to research and develop new products

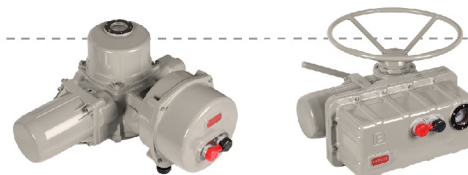
In 1999

903 series multi-turn valve electric actuators were successfully developed. Since then, before had complete electric actuator line.



In 2000

802 and 903 series electric actuators with control package (integrated type) were successfully developed. The annual sales were over 20,000,000 RMB. Our website was officially started.

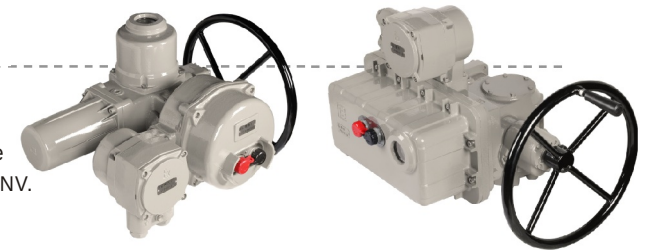


In 2001

A modern workshop with the area of more than 3700sq.m. was completed. More than 600 sets of 802 and 903 series integrated type actuators were provided for Three Gorges project. The annual sales were over 25,000,000 RMB.

In 2002

More than 550 sets of 903 and 802 series actuators were provided for Daqing Petroleum project. 802 and 903 series explosion-proof integrated type electric actuators were put into market. BF passed the ISO9001:2000 quality management system renewal certification of DNV.



In 2003

Invested 3,000,000 RMB to purchase the numerical control machines and build the platform of precision machining.

In 2004

Expanded 402 series product range, successfully designed part-turn manual actuators with output torque 160,000Nm and put them into production.



In 2005

The nature of BF became limited liability corporations from collective enterprise. 603 series manual actuator that completely replaced 602 series were put into production, and BSG series multi-turn valve gearboxes were successfully developed.



In 2007

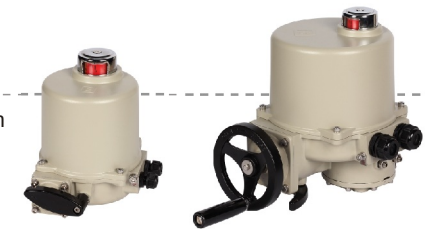
903, 802 series electric actuators and BFA controller realized the batch exportation. All series of products passed CE certification.

In 2008

Self-developed computer-aided system on production management started to run.

In 2009

810 series part-turn valve electric actuators that developed for Building automation were put into mass-production.



In 2010

BF passed the ISO9001:2008 quality management system renewal certification of DNV.

In 2011

E920 series intelligent electric actuator for multi-turn valve with completely independent intellectual property right were successfully developed. BF was awarded Tianjin's Famous Trademark, the certificate of Small and Medium-sized S&T Enterprise in Tianjin, etc.



In 2012

BF won many honors, e.g. the certificate of National Hi-tech Enterprise, Scientific and Technical Center in Beichen District, Patent Pilot Unit in Beichen District, and so on. In addition, BF obtained special fund for Small and Medium-sized S&T Enterprise of Tianjin. BF increased the registered capital of 5,000,000 RMB. The annual sales were over 50,000,000 RMB, including exports of 28,000,000 RMB.

In 2014

BF obtained the certificate of Tianjin's "Specialized, Fined, Peculiar, New" product, Tianjin's Brand-name product, the certificate of Tianjin's Re-contract and Trustworthy Enterprise.

Machining and assembling



Environment

Workplace

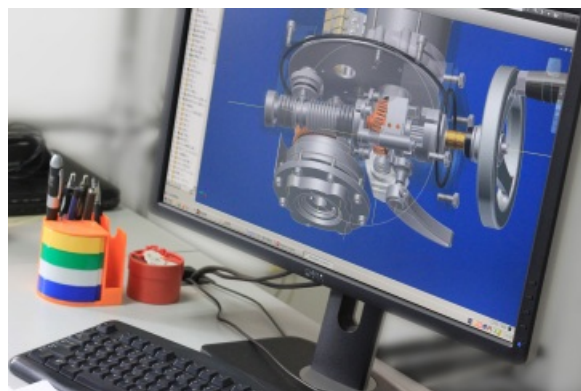
BF covers an area of 11,600 sq. m., assembly shop area of 4,000, sq. m., machining workshop area of 1,300 sq. m., warehouse area of 1,600, sq. m..

Team of staff

At present, BF employs 103 people, including 5 design engineers, 7 technical engineers and 6 quality managers.

Main machining equipment

There are 4 horizontal machining centers, 1 vertical machining center and 1 vertical lathe.

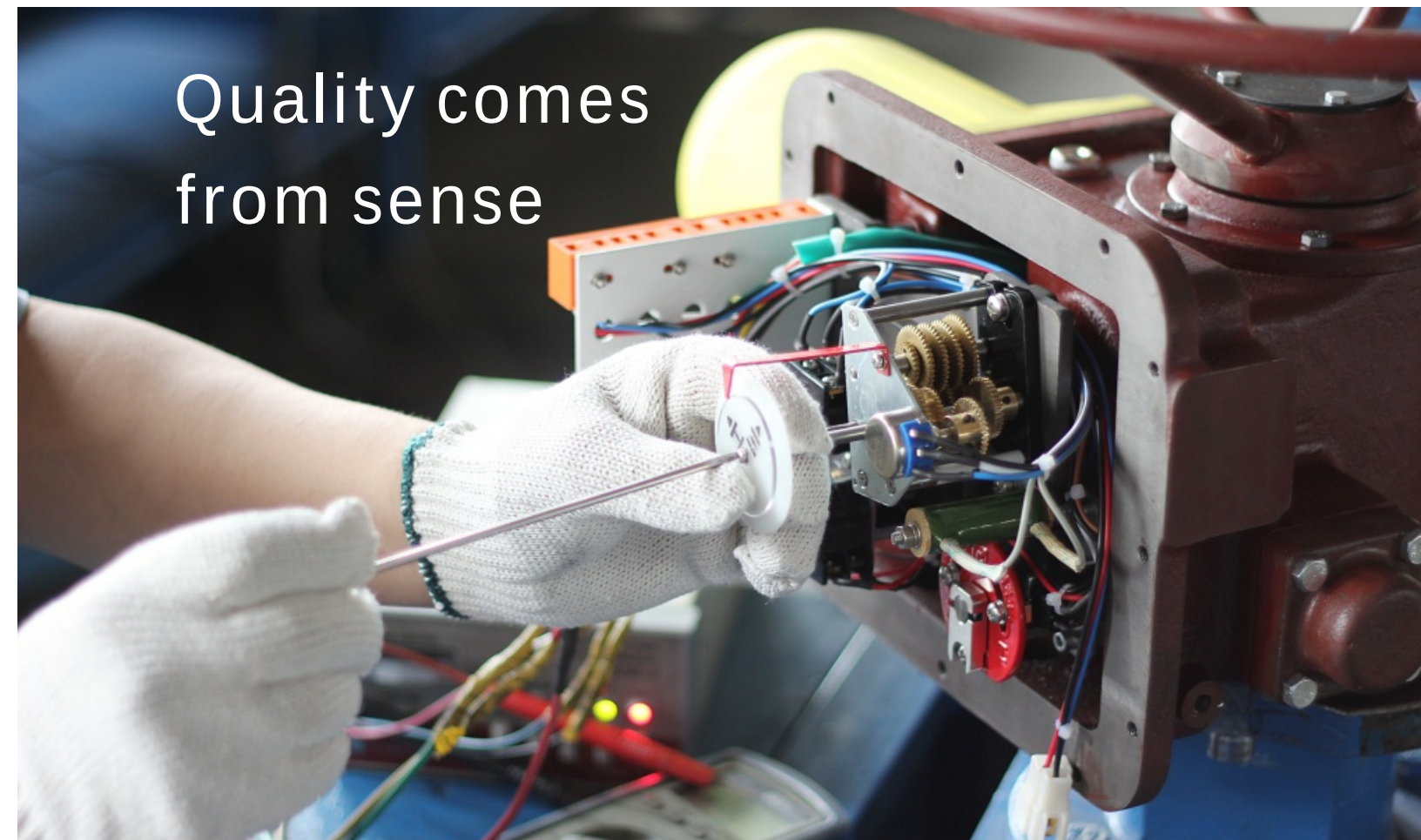


Three-dimension design



Training room

Quality comes
from sense

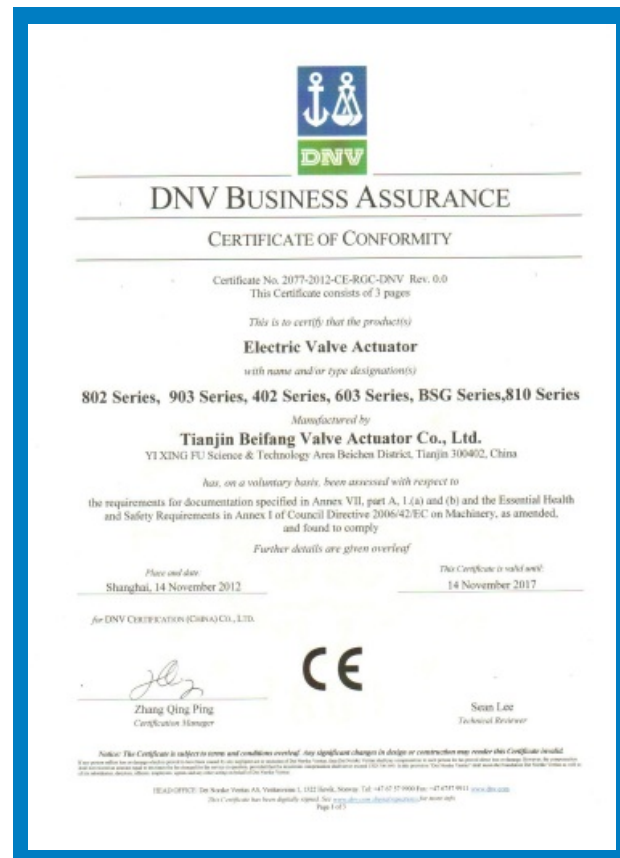


Honors, witness each step in value realization.



Qualification and honors

07
08



Integrated type electric actuator

- Start-stop motor control, circuit protection, input and output signal processing and other functions are integrated in the actuator.
- Remote on-off controlling
- Modulate the position of valve by analog signal of 4~20mA DC in remote.
- Phase loss and phase dislocation are identified
- Other functions



E920 series— intelligent electric actuator for multi-turn valves

- Torque range from 50 to 5,000Nm and six bases.
- Have explosion-proof enclosure to reach Ex d IIC T4 Gb.
- Support fieldbus control
- Provide a reliable position control of multi-turn valves, such as gate valves, stop valves, etc.



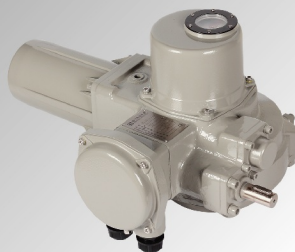
903 series— electric actuator for multi-turn valves

- Torque range from 50 to 5,000Nm and seven bases.
- Have explosion-proof enclosure to reach Ex d IIB T4 Gb.
- Provide a reliable position control of multi-turn valves, such as gate valves, stop valves, etc.



810 series— electric actuator for part-turn valves

- Torque range from 30 to 600Nm and four bases.
- The two-stage worm gear and worm driving ensures 810 series operating smoothly and quietly.
- Have explosion-proof enclosure to reach Ex d IIB T4 Gb.
- Provide a reliable position control of part-turn valves, such as ball valves, butterfly valves, etc.



802 series— electric actuator for part-turn valves

- Torque range from 100 to 12,000Nm and four bases.
- With worm-gears & planetary gear drive system and automatic hand/auto shift.
- Have explosion-proof enclosure to reach Ex d IIB T4 Gb
- Provide a reliable position control of part-turn valves, such as ball valves, butterfly valves, etc.



LQA series— electric actuator for part-turn valves

- Torque range from 50 to 800Nm and two models.
- With planetary gear drive system and automatic hand/auto shift.
- Provide a reliable position control of part-turn valves, such as ball valves, butterfly valves, etc.

Combination multi-turn electric actuators with gearboxes



Combination with 603 series— electric actuators for multi-turn valves

- Torque range from 300 to 5,000Nm.
- Provide a reliable position control of multi-turn valves, such as gate valves, stop valves, etc.
- Meet the requirement of special installation position



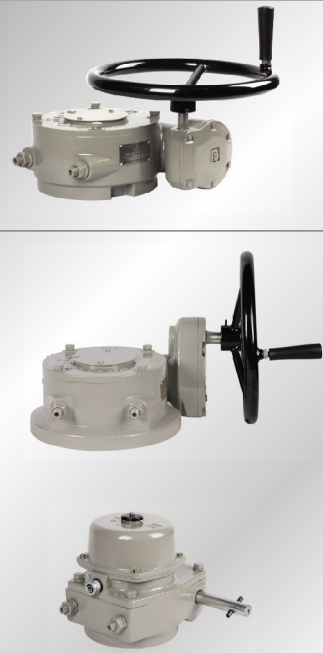
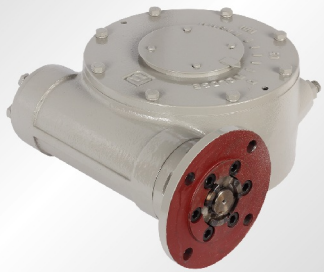
Combination with BSG series— electric actuators for multi-turn valves

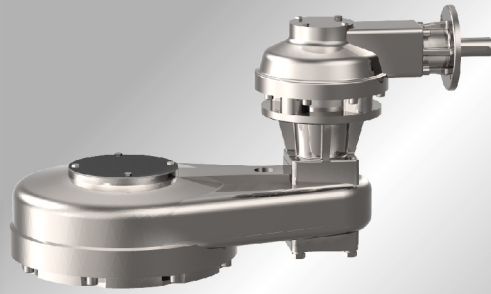
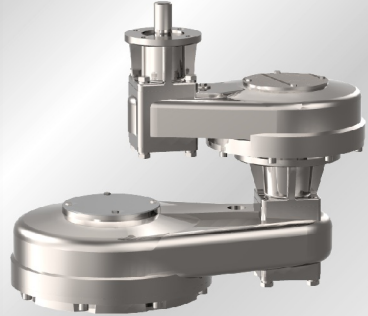
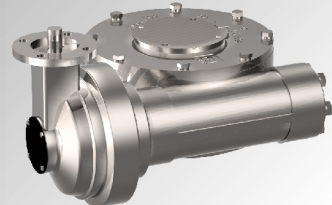
- Torque range from 800 to 2,500Nm.
- Provide a reliable position control of multi-turn valves, such as gate valves, stop valves, etc.
- Meet the requirement of special installation position.
- When you choose low torque electric actuator, bigger output torque can be achieved.



Combination with 402 series— electric actuators for part-turn valves

- Torque range from 1,200 to 640,000Nm.
- Provide a reliable position control of part-turn valves, such as ball valves, butterfly valves, etc.
- Meet the requirement of special installation position.
- Achieve bigger output torque.

<ul style="list-style-type: none">• Manual operation• Indicate the position of valve.• Output electrical signals to feedback the position of valve.		<p>603 series— multi-turn valve gearbox</p> <ul style="list-style-type: none">• Torque range from 300 to 5,000Nm and five models.• Provide a reliable position control of multi-turn valves, such as gate valves, stop valves, etc. 
<ul style="list-style-type: none">• Manual operation• Indicate the position of valve		<p>BSG series— multi-turn valve gearbox</p> <ul style="list-style-type: none">• Torque range from 800 to 50,000Nm and seven models.• High efficiency• Provide a reliable position control of multi-turn valves, such as gate valves, stop valves, etc.• A variety of reduction ratio 
<ul style="list-style-type: none">• Manual operation• The additional reduction mechanism can reduce the manual operation force and meet the requirement of operating position.• Output electrical signals to feedback the position of valve		<p>402系列—部分回转阀门齿轮箱</p> <ul style="list-style-type: none">• Torque range from 150 to 640,000Nm and fifteen models.• Provide a reliable position control of part-turn valves, such as ball valves, butterfly valves, etc. 

<p>Combination of multi-turn gearboxes</p>	
	<p>Combination of 603 series and BSG series</p> <ul style="list-style-type: none">• Meet the requirement of special installation position
	<p>Combination of BSG series and BSG series</p> <ul style="list-style-type: none">• Achieve larger reduction ratio• Achieve the ideal speed
<p>Combination 402 series with multi-turn gearbox</p>	
	<p>Combination with 603 series</p> <ul style="list-style-type: none">• Reduce the input torque• Meet the requirement of special installation position
	<p>Combination with BSG series</p> <ul style="list-style-type: none">• Reduce the input torque• Match various multi-turn electric actuator

Controller

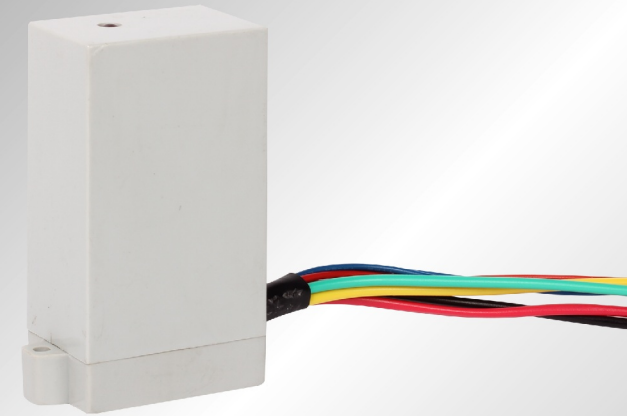
(They can remotely control the valve to open/close or modulate the position of valve in proportion together with the electric actuators.)

Electronics modules



BE series— explosion-proof controller

- The Ex degree is Exd IIB T4Gb.
- Control the valve to open/close in the position of controller.
- Input and output the remote on-off signals.
- Input and output the 4~20mA DC analog signals.
- Open-close control or proportional modulating control
- Phase loss protection, phase dislocation protection and other functions



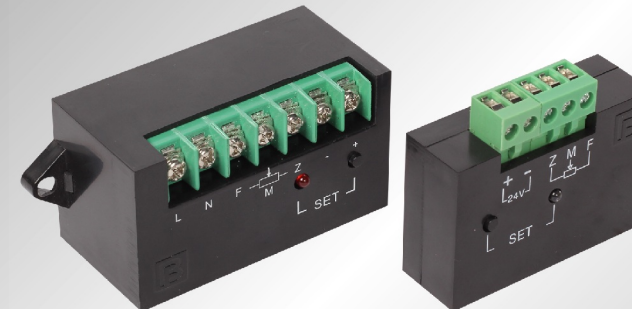
JDX—phase discrimination and phase-failure protector

- It is applied to various integrated electric actuators powered by three-phase power supply.
- It can prevent the electric actuator from operating in the phase dislocation which makes the valve rotate to the error direction.
- It can prevent the electric actuator from operating in the phase loss.



BF series— indoor controller

- Control the valve to open/close in the position of controller
- Input and output the remote on-off signals.
- Input and output the 4~20mA DC analog signals
- Open-close control or proportional modulating control
- Phase loss protection, phase dislocation protection and other functions



VPT— Position transmitter

- It is applied to various electric actuators.
- It can independently output 4~20mA DC to feedback the position of the valve
- Two-wire system position transmitter—VPT2
- Four-wire system position transmitter—VPT4



BP series— outdoor controller

- The degree of protection provided by enclosure is IP54. (Protection from dust and rain)
- Wall-mounted installation
- Open-close control or proportional modulating control
- Digital display
- Various input and output signals.
- Beyond travel, Beyond torque and other functions