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GRV FLOW CONTROLS





Company Profile

GRV Flow-Controls, is a professional company specialized in valves and valve actuators.

After many years developments, GRV valves of various kinds are widely applied to chemical, petrochemical, power, oil & gas and LNG low temperature industries in Europe, Middle East and Asia.



Today GRV has grown up to become an international supplier ball, globe, butterfly and gate valves of both manual and pneumatic/electric types, ranging from low-temperature or cryogenic service to high temperature (up to 650°C) under the pressure (up to Class 4500 lbs), with its sales and service network covering Europe, Asia and Middle East in valve industries.



GRV Flow-Controls China.



GRV Flow-Controls GmbH.



GRV Flow-Controls Italy.

Testing & Qualifications

We design, manufacture and test the most important valve parts for in our own facilities where several rigorous tests are performed in order to ensure not only the complete satisfaction of the customers, but also a strict compliance with international standards to achieve longer life of the products with minimum service.



Meanwhile, GRV has been developing broad collaborations with first-class industrial companies and research institutions, constantly to improve and innovate its products.



Quality Assurance System
GRV's Quality Assurance System is certified in accordance with DNV ISO 9001:2015.



Fire Safe Design
In accordance with ISO9000 SIL3.



Cryo

-196°C ~ +80°C

Ball

Top Entry Floating

- **Size:** 1/2" ~ 6".
- **Rating:** ASME Class 150 - 300 - 600.

Side Entry Floating

- **Size:** 1/2" ~ 6".
- **Rating:** ASME Class 150 - 300.

Top Entry Trunnion

- **Size:** 2" ~ 20".
- **Rating:** ASME Class 150 - 300 - 600.

Side Entry Trunnion

- **Size:** 2" ~ 24".
- **Rating:** ASME Class 150 - 300 - 600 - 900 - 1500.

- **Design Standard:** BS 6364, API6D.
- **Fireproof:** API 607.
- **Test Standard:** BS 6364.

Performance Features

- Full Bore, high flow capacity and tight shut-off
- Low torque and smooth operation
- Excellent seat and seal design, minimum leakage
- High safety and long service life
- Anti-Static design
- Fireproof design according to API607
- Automatic pressure relief
- Minimum thermal expansion.



Globe

- **Size:** 1/4" ~ 12".
- **Rating:** PN20 ~ PN110.
- **Design Standard:** DIN3356, BS6364
- **Test Standard:** BS6364.



Performance Features

- Precision cast body and exquisite appearance
- Full bore
- Bolted bonnet
- Sealing well
- Low torque, long life
- Easy maintenance
- Cleaned and degreased for oxygen service.

Control

- **Size:** 1/2" ~ 8".
- **Rating:** PN20 ~ PN110
- **Design Standard:** BS6364, IEC60534
- **Test Standard:** IEC60534.

Performance Features

- Precision cast body and exquisite appearance
- Bolted Bonnet
- Precise flow characteristic



- Stable working, low noise figure, long service life
- Easy maintenance
- Cleaned and degreased for oxygen service.

Cryo

-196°C ~ +80°C

Butterfly

Standard Butterfly

- **Size:** 2 1/2" ~ 48"
- **Triple Offste Top Entry**
- **Size:** 8" ~ 48"
- **Triple Offste Side Entry**
- **Size:** 2" ~ 48".

- **Rating:** ASME Class 150 - 300 - 600.
- **Design Standard:** API609, BS6364.
- **Test Standard:** BS6364.

Performance Features

- Bi-directional
- Extensional stem upon request
- Double eccentric structure
- Low torque, long life
- Easy maintenance
- Cleaned and degreased for oxygen service.



Gate

- **Size:** 1/2" ~ 6".
- **Rating:** PN20 ~ PN110.
- **Design Standard:** DIN3352, BS6364.
- **Test Standard:** BS6364.

Performance Features

- Precision cast body and exquisite appearance.



- Full bore
- Bolted bonnet
- Flexible disc, high sealing performance
- Long life, low torque
- Fire-proofing, anti-static
- Cleaned and degreased for oxygen service.

Check

- **Size:** 1/2" ~ 8".)
- **Rating:** PN20 ~ PN110.
- **Design Standard:** DIN3352, BS6364.
- **Test Standard:** BS6364.

Performance Features

- Precision cast body and exquisite appearance
- Full bore
- Bolted bonnet
- Good sealing
- Long life
- Easy maintenance
- Cleaned and degreased for oxygen service.



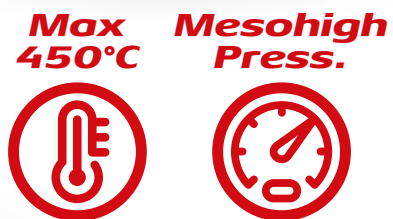
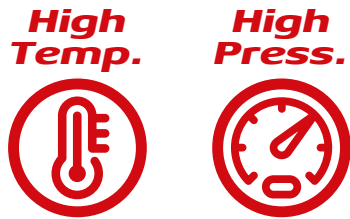
Hi-Temp / Globe

Y Pattern

- **Size:** 1/4" ~ 4".
- **Rating:** ASME Class 150 - 300 - 600 - 900 - 1700 - 2700 - 4500.
- **Design Standard:** API602, ASME B16.34.
- **Test Standard:** API598 / MSS-SP-61.

Performance Features

- 100% Forged.
- Up to 650.
- Metal Seated.
- Long life.
- Gas & Oil Separation Plants, Oil, Fields, Boilers, Airports, Petrochemical Plants, etc.



T Pattern

- **Size:** 1/4" ~ 4".
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- 100% Forged.
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Actuators

Double & Single Acting

Application
S900X(911X)I / S900X(911X)II series pneumatic actuators suitable for automation and remote control over medium/large size valves.

Technical Data (Common)

- **Medium:** Non-corrosive Gases, such as Dry & Clean Compressed Air, Natural Gas, Nitrogen etc.
- **Temperature:** -20°C - +80°C (High and low temperature options)
- **Rotation angle:** 90°±5°
- **Cylinder testing pressure:** 10.5 bar (maximum supply pressure 15.75 bar)
- **Actuator testing pressure:** 8.40 bar (Maximum supply pressure 10.08 bar).

Technical Data Double Acting

- **Supply pressure:** 3 bar - 7 bar
- **Output torque:** 528 N.m - 280482 N.m.



Technical Data Single Acting
• **Supply pressure:** 4 bar - 0.7 bar
• **Output torque:** 230 N.m - 61500 N.m.



Gear Box

Application
Gearbox Series QQB and QQY provide various choices for flange connection and are applied to ball valve, butterfly valve and plug valve. The gearboxes use high-performance thrust bearing and are well suited for applications in chemical, power, waterworks, HVAC and most general industries.

Technical Data (Common)

- Lockable handwheel
- Steel input shaft with rust prevention
- Gearbox sealed to IP67
- Temperature: -20°C to 120°C
- Stroke: 0-90° (±50 adjustable)
- Gearboxes are nearly maintenance-free.

QQB Series
12 models up to 16000 Nm.

QQY Series
1000 models up to 170000 Nm.



QQY Series.

QQB Series.

Standard

Ball Trunnion

- **Size:** 1/2" ~ 60"
- **Rating:** ASME Class 150~2500.
- **Design Standard:** API 6D/ or ISO14313, API608, ISO17292
- **Test Standard:** API 6D, API598, ISO5208.

Performance Features

- Soft seal, compound seal and hard seal are optional
- Full bore, reduced bore optional
- Full bore, Small flow resistance coefficient
- Open and close 90°, short opening and closing times
- Take up less space.

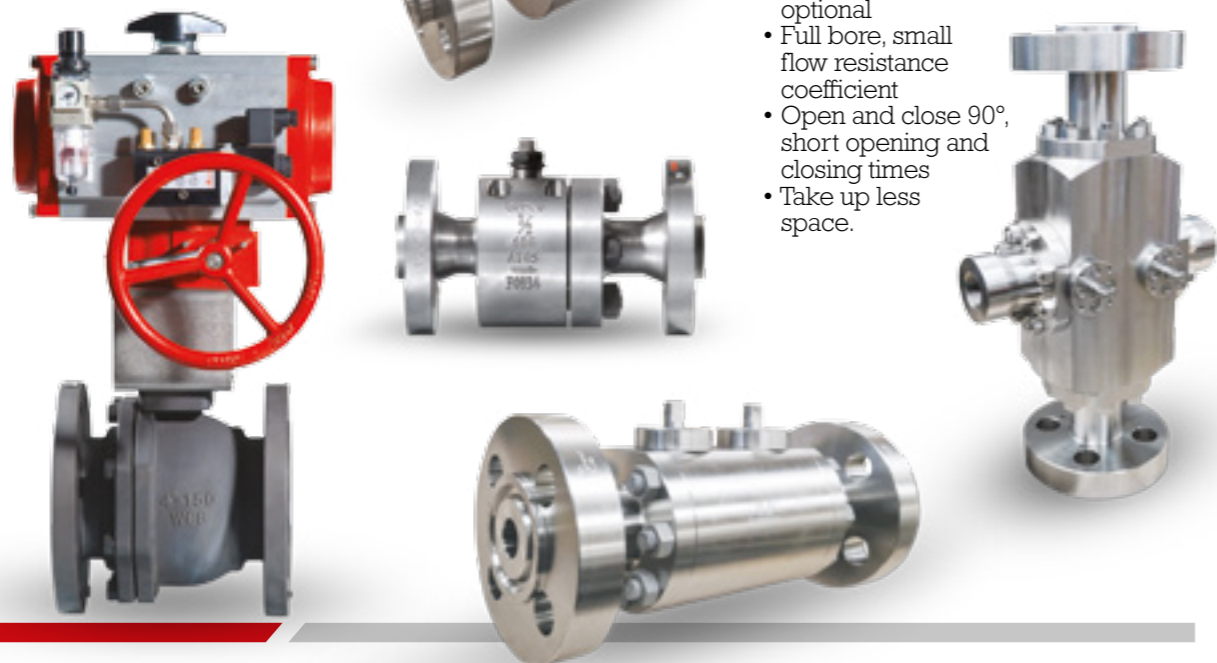


Ball Floating

- **Size:** 1/2" ~ 12"
- **Rating:** ASME Class 150~2500.
- **Design Standard:** API 6D / or ISO14313, API608, ISO17292.
- **Test Standard:** API 6D, API598, ISO5208.

Performance Features

- Soft seal, compound seal and hard seal are optional
- Full bore, reduced bore optional
- Full bore, small flow resistance coefficient
- Open and close 90°, short opening and closing times
- Take up less space.



Butterfly

Centric Butterfly

- **Size:** 2" ~ 72"
- **Rating:** ASME Class 150.

High-performance Butterfly

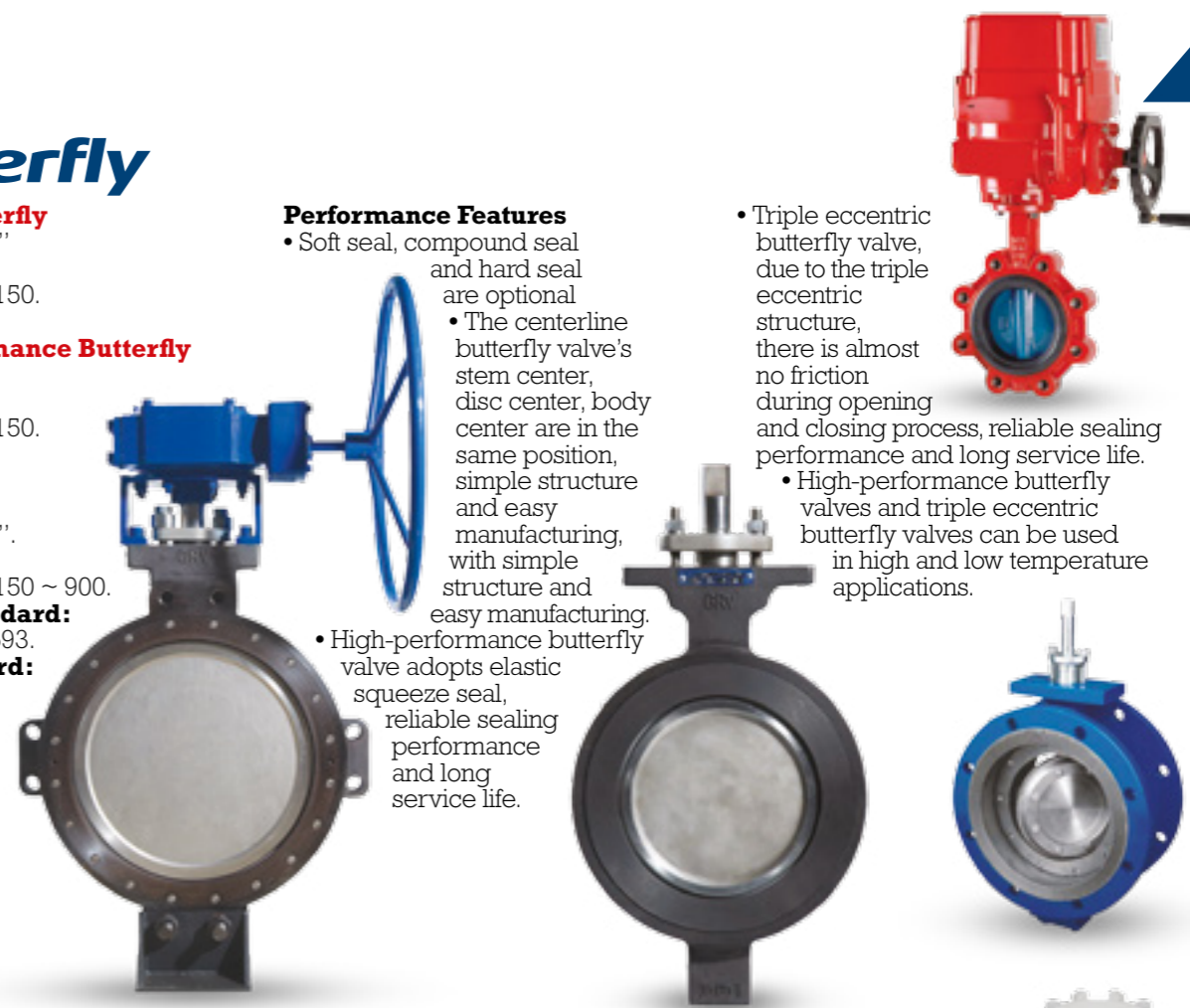
- **Size:** 2 ~ 60"
- **Rating:** ASME Class 150.

Triple Offset Butterfly

- **Size:** 4" ~ 56"
- **Rating:** ASME Class 150 ~ 900.
- **Design Standard:** API 609, EN 593.
- **Test Standard:** API598, EN 12266-1.

Performance Features

- Soft seal, compound seal and hard seal are optional
- The centerline butterfly valve's stem center, disc center, body center are in the same position, simple structure and easy manufacturing, with simple structure and easy manufacturing.
- High-performance butterfly valve adopts elastic squeeze seal, reliable sealing performance and long service life.
- Triple eccentric butterfly valve, due to the triple eccentric structure, there is almost no friction during opening and closing process, reliable sealing performance and long service life.
- High-performance butterfly valves and triple eccentric butterfly valves can be used in high and low temperature applications.

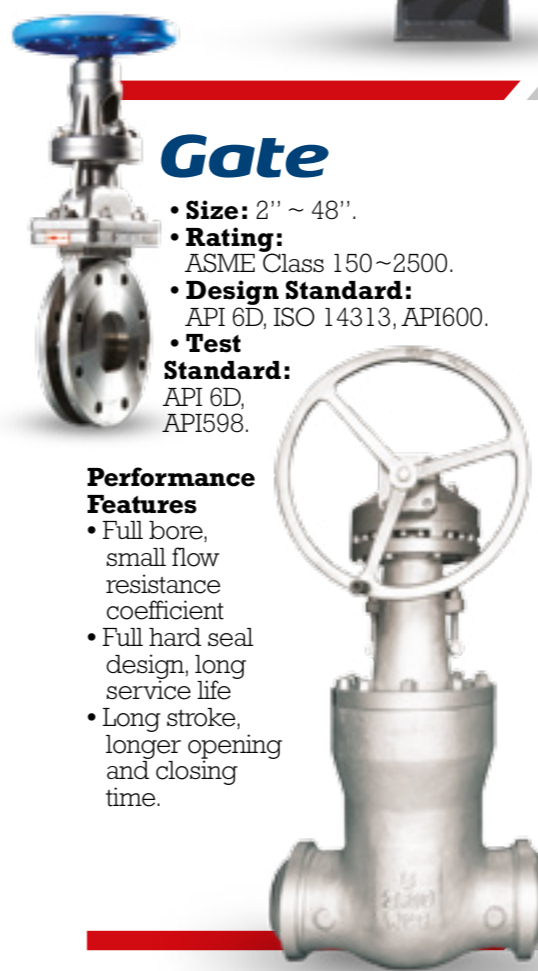


Gate

- **Size:** 2" ~ 48"
- **Rating:** ASME Class 150~2500.
- **Design Standard:** API 6D, ISO 14313, API600.
- **Test Standard:** API 6D, API598.

Performance Features

- Full bore, small flow resistance coefficient
- Full hard seal design, long service life
- Long stroke, longer opening and closing time.

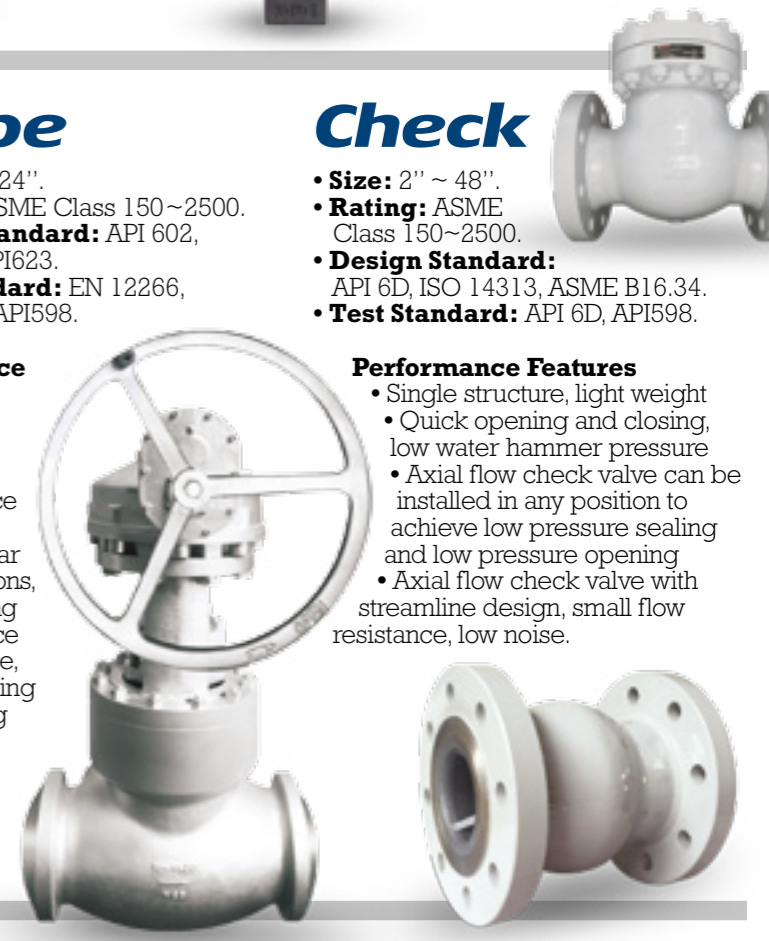


Globe

- **Size:** 1" ~ 24"
- **Rating:** ASME Class 150~2500.
- **Design Standard:** API 602, BS1873, API623.
- **Test Standard:** EN 12266, ISO 5208, API598.

Performance Features

- Simple structure and easy maintenance
- Seal is not easy to wear and abrasions, good sealing performance
- Short stroke, short opening and closing times.



Check

- **Size:** 2" ~ 48"
- **Rating:** ASME Class 150~2500.
- **Design Standard:** API 6D, ISO 14313, ASME B16.34.
- **Test Standard:** API 6D, API598.

Performance Features

- Single structure, light weight
- Quick opening and closing, low water hammer pressure
- Axial flow check valve can be installed in any position to achieve low pressure sealing and low pressure opening
- Axial flow check valve with streamline design, small flow resistance, low noise.

