



WEIHAI HAIWANG TECHNOLOGY CO.,LTD.
Haiwang (G/FG/FZ/FHZ/W) Series Valve

Haiwang Technology Introduction

Haiwang Technology was established in 1989, with nearly 30 years' history and over 10,000 customers over the world. It has been the leading supplier of mining equipment and EPC service in China.



Supply complete sets of equipment and technical service in mines, coal mines, power plants, environmental protection and chemical industries.



Haiwang Series Valves

Haiwang series valves adopt advanced fluid control method which has the advantage of wear, and corrosion resistance, high efficiency and reliability. Our products can be served in mines, metallurgy, energy, environmental protection, construction and chemical industries. In any industrial fluid control application with strict requirements, Haiwang can provide valve products with high efficiency, environmental protection and high cost-performance ratio.

G series diaphragm valve

Application area: electric power, environmental protection with acid and alkali corrosion condition.



FG series pinch valve

Application area: electric power, environmental protection with acid and alkali corrosion condition.



FZ series valve

Application area: control conveyance of solid-liquid mixing two-phase medium.



FHZ series alkali-resistant valve

Application area: valve in extreme environment which is applicable in high wearing and alkali condition. Control the conveyance of solid-liquid mixing two-phase medium.



W series valve

Application area: control the conveyance of oil content solid-liquid mixing two-phase medium.



Under American and Germany standards, customize your required products.

G series diaphragm valve



Application area

Diaphragm valve is one of the best options to close or control abrasive or corrosive slurry, powder or granular material.

Performance characteristics

- Diaphragm valves are block valves with open - closing parts made of soft material to separate valve body cavity and bonnet cavity.
- 100% bubble seal to guarantee no leakage in down-stream process.
- Bi-direction full bore runner to reduce pressure drop, reduce abrasion and prolong service life.
- Self-cleaning, without block.
- Maintenance-free design.
- Metal parts do not contact slurry directly.
- Diaphragm with modular design which is easy to be replaced by user.

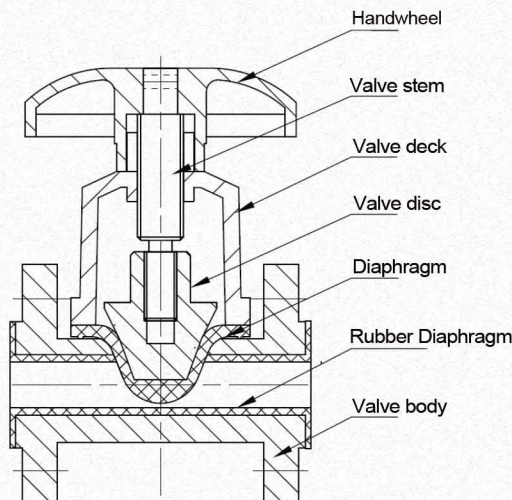
Technical specification and executive standard

- Range of size: DN20 DN40 DN50
- Range of temperature: 0~80°C
- Nominal pressure: 1.0MPa
- Close part: rubber diaphragm
- Executive standard:
Design and manufacture GB/T 12239
Test and inspect JB/T 9092
Structure length GB/T 12221
Flange standard GB/T 9119, 1.0MPa

Flange size

Nominal diameter DN	Flange external diameter D	Bolt center circle diameter K	Bolt aperture diameter L	Bolt	
				Quantity n	Screw thread specification
20	105	75	14	4	M12
32	140	100	18	4	M16
40	150	110	18	4	M16
50	165	125	18	4	M16

Valve material



Spare parts name	Material	Remarks
Valve body	HT200/CF8	
Valve deck	HT200/CF8	
Valve disc	HT200	
Valve stem	2Cr13/304	
Diaphragm	Rubber	Multi material selected
Rubber Diaphragm	Rubber	Multi material selected
Standard parts	304/316	
Handwheel	HT200/CF8	
Note: Valve material varies with different types		

FG series pinch valve

Application area

Diaphragm valve is one of the best options to close or control abrasive or corrosive slurry, powder or granular material.

Performance characteristics

Modular design valve mainly include three parts: elastic rubber tube, valve body and executive mechanism. Valve sleeve is the only parts contact with process medium.

- 100% bubble seal to guarantee no leakage in downstream process.
- Bi-direction full bore runner to reduce pressure drop, reduce abrasion and prolong service life.
- Valve sleeve central line is closed.
- Self-cleaning, without block.
- Maintenance-free design.
- Metal parts do not contact slurry directly.
- Diaphragm with modular design is convenient to be changed by user.



Technical specification and executive standard

- Range of size: DN20 DN40 DN50
- Range of temperature: 0~80°C
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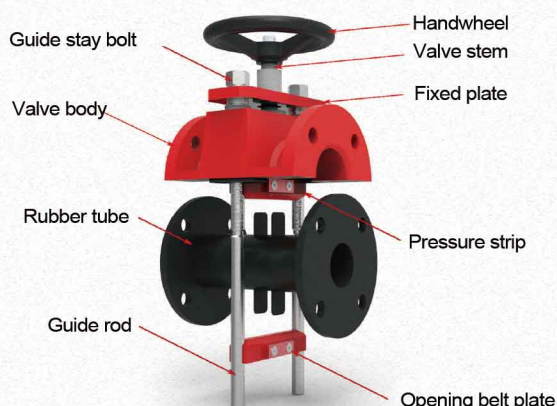
Working principle

In the open position, valve forms a passage without fluid resistance which becomes a part of the pipeline. In the close position, two pressure strips clamp pipe in center position.

Flange size

Nominal diameter DN	Flange external diameter D	Bolt center circle diameter K	Bolt aperture diameter L	Bolt	
				Quantity n	Screw thread specification
20	105	75	14	4	M12
50	165	125	18	4	M16

Valve material



Spare parts name	Material	Remarks
Valve body	QT450	
Guide rod	304	
Pressure strip	Carbon steel	
Valve stem	2Cr13/304	
Rubber tube	Rubber	Multi material selected
Standard parts	304/316	
Handwheel	HT200 chromeplate	
Note: Valve material varies with different types		

FZ series of valve

General application

Mine, power, environmental protection, alumina, phosphorus, pulp and papermaking.

Performance features

After the improved design, slurry valve absorbs so many advantages and can provide better performance for customers.

- Seal rubber ring adopts one-piece design, built-in strengthening supporting steel structure stopping rubber ring from deformation.
- The rubber ring inner structure can provide auxiliary pressure to ensure better tightness.
- The two-way channel design can reduce the pressure drop and abrasion in order to extend its service life.
- It is very easy to be installed on many kinds of pipe.
- Complete bubble level seal can ensure no leakage in downstream process.
- Flashboards are unnecessary to prevent from leakage or maintenance.
- Metal parts do not contact slurry directly. There is no valve seat cavity so that the solid particle accumulation can be eliminated and the flashboard can be closed reliably.



Technical specification and executive standard

- Size range: DN50~500mm
- Temperature range: 0~80°C
- Pressure: 1.0MPa
- Valve seat: rubber (various rubbers can be selected).
- Flashboard: stainless steel (various materials can be selected).
- Executive standard:
Valve standard: GB/T8691
Test and checkout: GB/T13927
Length of structure: GB/T 12221
Flange standard: GB/T 9119, 1.0MPa

Operational principle

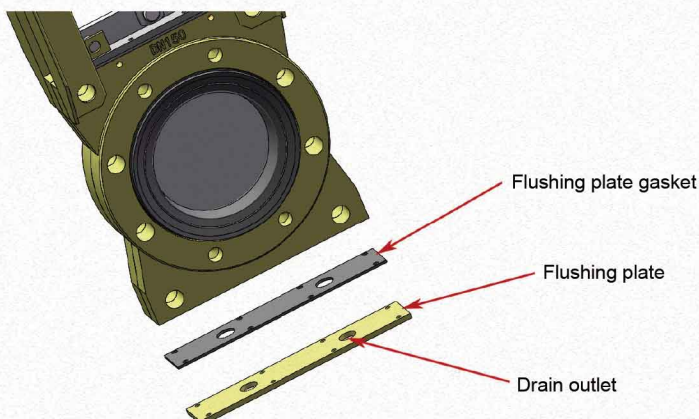
The O-ring seal is designed for pulp condition. Two matched O-ring seal are mounted within the valve. When valve is closed, the rubber ring presses the flashboard for sealing. When the valve is open, two rubber rings press each other tightly for sealing. When the valve is open, two modified O-ring seals press with each other to prevent direct pressure from secondary seal.

With the flashboard moving from open position to closing position, there is a gap forming between the rubber ring interfaces. The blocking medium of rubber ring can be eliminated from the gap and discharged from the outlet.

When flashboard is closed, the rubber ring seal surface contact with flashboard completely, therefore the structure of rubber ring can provide auxiliary seal function. The specific design of rubber ring provides reliable sealing to avoid the metal parts to contact with the flowing slurry when the valve is closed or open.

Device resists blocking

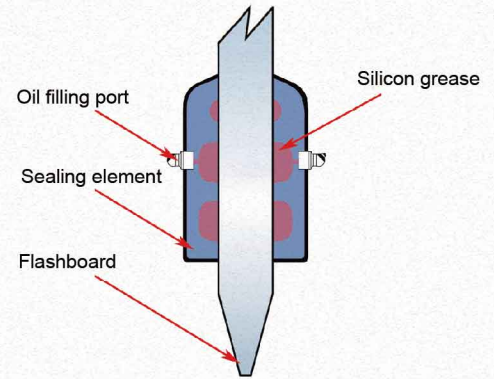
There is an inner cleaning area at the bottom of valve and a detachable washing board is installed for closing in cleaning area. The drain outlet has been designed for discharging the accumulated slurry to make flashboard shutdown completely.



The second seal

The second seal is at the top of valve and it can lubricate the flashboard when the flashboard moves across seal area. The lubrication can make flashboard move smoothly, prolong seal life and reduce the power for moving.

The silicon grease is reserved in the chamfer of seal parts. A little long-acting silicon grease will be released to lubricate flashboard when the flashboard goes through the seal area every time. The seal parts can be replaced on the pipe line on site.

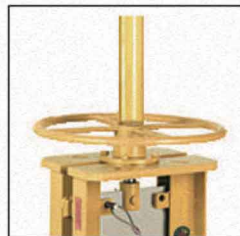


Special process increases valve service life

Haiwang is the leader in coating technology for valve open-closing parts and has a lot of experience on specific coating treatment in global industries. Professional coating treatment provides strong guarantee for improving service life and performance.

Executive mechanism

Many Executive mechanisms can be selected.



Handwheel



Handwheel



Cylinder



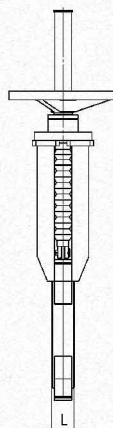
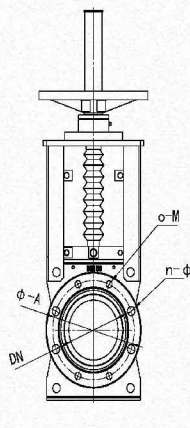
Hydro-cylinder

Main parts material and performance

Apply in FZ series valve.

Valve stem	Valve stem nut	Valve body	Valve seat	The second seal	Flashboard
2Cr13 304	Copper alloy Carbon steel	QT450 HT200	Rubber	Rubber Polyurethane Packing	2Cr13 316

The connecting size of flange



Inside nominal diameter	DN	φ A	n-M	n-φ d	L
50		125	4-M16	2-φ 18	46
65		145	4-M16	2-φ 18	46
80		160	4-M16	4-φ 18	56
100		180	4-M16	4-φ 18	56
150		240	4-M20	4-φ 22	66
200		295	4-M20	4-φ 22	66
250		350	8-M20	4-φ 22	76
300		400	8-M20	4-φ 22	76

General application

Mine, power, environmental protection, alumina, phosphorus, pulp and paper making; be applied in the transportation of coarse particle and corrosive material.

Performance features

Because the design of FHZ series of slurry valve absorbs so many advantages of wear and alkali resistance valve it can provide better whole performance for customers.

- It adopts double rubber bushing. The inner strengthen supporting steel structure ensure the reliable control of valve.
- The specific abrasion-resistance design ensures longer service life.
- The two-way channel design can reduce the pressure drop and abrasion in order to extend its service life.
- Complete bubble level seal can ensure no leakage in downstream.
- Flashboards are unnecessary to prevent from leakage or maintenance.
- Metal parts do not contact slurry directly.
- There is no valve seat cavity so that the solid particle accumulation can be eliminated and the flashboard can be closed reliably.

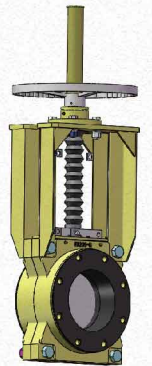


Operational principle

The O-ring seal is designed for pulp condition. Two matched O-ring seal are mounted within the valve. When valve is closed, the rubber ring presses the flashboard for sealing. When the valve is open, two rubber rings press each other tightly for sealing. When the valve is open, two modified O-ring seals press with each other to prevent direct pressure from secondary seal.

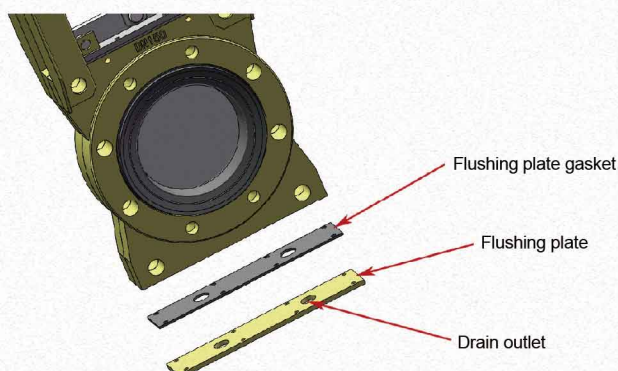
With the flashboard moving from open position to closing position, there is a gap forming between the rubber ring interfaces. The blocking medium of rubber ring can be eliminated from the gap and discharged from the outlet.

When flashboard is closed, the rubber ring seal surface contact with flashboard completely, therefore the structure of rubber ring can provide auxiliary seal function. The specific design of rubber ring provides reliable sealing to avoid the metal parts to contact with the flowing slurry when the valve is closed or open.



Device resists blocking

There is an inner cleaning area at the bottom of valve and a detachable washing board is installed for closing in cleaning area. The drain outlet has been designed for discharging the accumulated slurry to make flashboard shutdown completely.



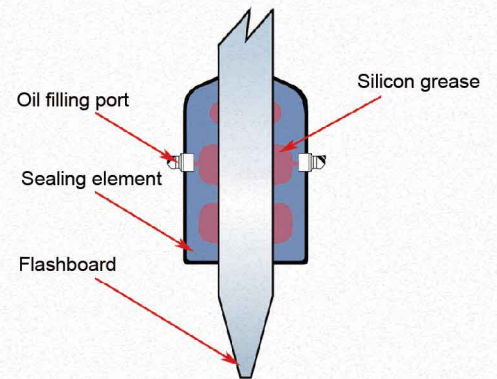
Technical specification and executive standard

- Size range: DN150~200mm
- Temperature range: 0~80℃
- Pressure: 1.0MPa
- Valve seat: rubber (various rubbers can be selected).
- Flashboard: stainless steel (various materials can be selected).
- Executive standard:
Valve standard: GB/T8691
Test and checkout: GB/T13927
Length of structure: GB/T 12221
Flange standard: GB/T 9119, 1.0MPa

The second seal

The second seal is at the top of valve and it can lubricate the flashboard when the flashboard moves across seal area. The lubrication can make flashboard move smoothly, prolong seal life and reduce the power for moving.

The silicon grease is reserved in the chamfer of seal parts. A little long-acting silicon grease will be released to lubricate flashboard when the flashboard goes through the seal area every time. The seal parts can be replaced on the pipe line on site.

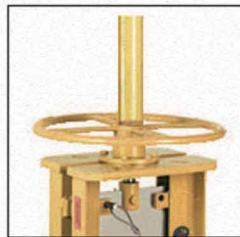


Special process increases valve service life

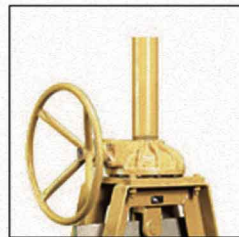
Haiwang is the leader in coating technology for valve open-closing parts and has a lot of experience on specific coating treatment in global industries. Professional coating treatment provides strong guarantee for improving service life and performance.

Executive mechanism

Many Executive mechanisms can be selected.



Handwheel



Handwheel



Cylinder



Hydro-cylinder

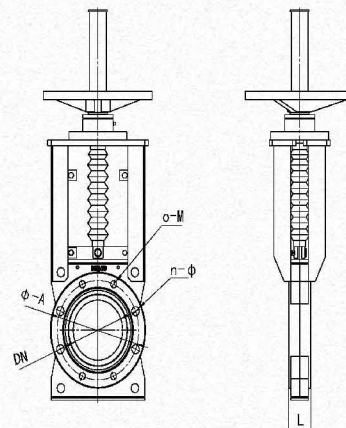
Main parts material and performance

Apply in FHZ series valve.

Valve stem	Valve stem nut	Valve body	Seal rubber sleeve	The second seal	Flashboard
2Cr13 304	Copper alloy Carbon steel	QT450 HT200	Various rubber materials satisfy extreme wear-resisting working condition	Rubber Polyurethane Packing	2Cr13 316

The connecting size of flange

Inside nominal diameter	DN	ϕA	n-M	n- ϕd	L
80		160	8—M 16	—	176
150		240	8—M 20	—	176
200		295	8—M 20	—	184



W series valve



General application

Mine, power, environmental protection ;
Be applied in transportation of the two-phase mixture of liquid and solid.

Performance features

Because W series valve absorbs so many advantages of slurry valve it can provide better whole performance for customers.

- Many executive mechanisms can be selected. It is convenient to adjust between different executive mechanisms.
- One-piece casting body can ensure strength and seal.
- Provide various flange connection standards.
- It is mounted on various kinds of pipes more easily.
- Alloy valve seat can ensure longer service life.
- Flashboards are unnecessary to prevent from leakage or maintenance.

Damage free seal system

- Alloy valve seat is embedded valve body to avoid scratching and abrasion.
- Valve plate is mounted in guide groove of valve body, not waving to realize reliable seal.

Self-cleaning design

- There is edge and blade in front edge of valve plate which can clean valve seat surface and cut down fluid medium.
- Upper seal scraper design can ensure the clean environment.
- Cushion design in the cylinder end can clean valve body bottom.

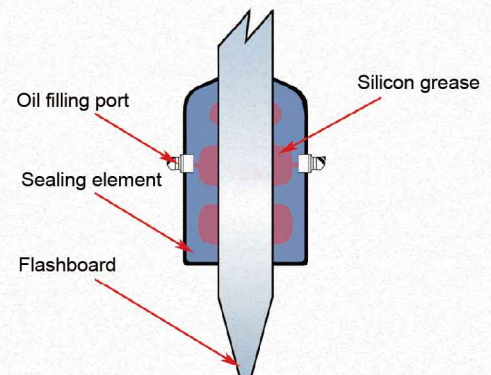
The second seal

The second seal is at the top of valve and it can lubricate the flashboard when the flashboard moves across seal area. The lubrication can make flashboard move smoothly, prolong seal life and reduce the power for moving.

The silicon grease is reserved in the chamfer of seal parts. A little long-acting silicon grease will be released to lubricate flashboard when the flashboard goes through the seal area every time. The seal parts can be replaced on the pipe line on site.

Technical specification and executive standard

- Size range: DN50~500mm
- Temperature range: 0~80℃
- Pressure: 1.0MPa
- Valve seat: alloy (various rubbers can be selected).
- Flashboard: stainless steel (various materials can be selected).
- Executive standard:
Valve standard: GB/T8691
Test and checkout: GB/T13927
Length of structure: GB/T 12221
Flange standard: GB/T 9119, 1.0MPa

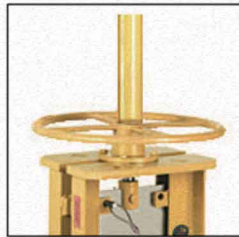


Special process increases valve service life

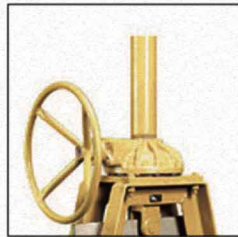
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Executive mechanism

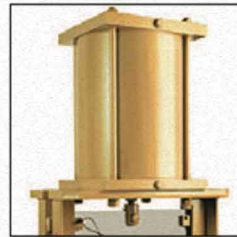
Many Executive mechanisms can be selected.



Handwheel



Handwheel



Cylinder



Hydro-cylinder

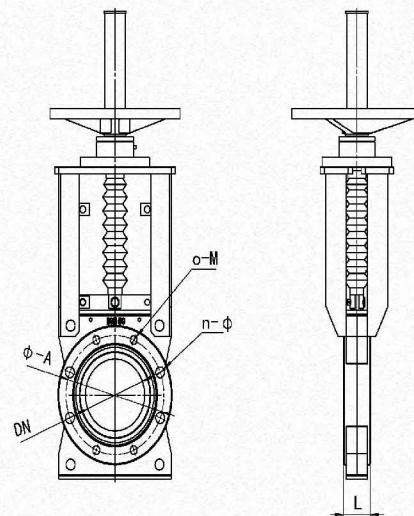
Main parts material and performance

Apply in W series valve.

Valve stem	Valve stem nut	Valve body	Valve seat	second seal	Flashboard
2Cr13 304	Copper alloy Carbon steel	QT450 HT200	Alloy	Rubber Polyurethane Packing	2Cr13 316

The connecting size of flange

Inside nominal diameter	DN	ϕA	n-M	n- ϕd	L
50		125	4-M 16	2- $\phi 18$	46
65		145	4-M 16	2- $\phi 18$	46
80		160	4-M 16	4- $\phi 18$	56
100		180	4-M 16	4- $\phi 18$	56
150		240	4-M 20	4- $\phi 22$	66
200		295	4-M 20	4- $\phi 22$	66
250		350	8-M 20	4- $\phi 22$	76
300		400	8-M 20	4- $\phi 22$	76



HAIWANG CREATED WORLD SHARED

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