



CONTENTS

Floating ball valve	1
Trunnion ball valve	2-3
Other ball valve	4-8
Control valve	9-12
American standard flange gate valve	13
National standard flange gate valve	14-18
American standard electric flange gate valve	19
National standard electric flange gate valve	20-21
Pound gate valve	22
American standard pound electric gate valve	23
Pound-class electric gate valve	24-25
Pound check valve	26-27

VALVE

Floating ball valve

RE flanged two-piece bolted body,full and reduce port ball valve

Design features

- Built-in ISO 5211 Mounting Pad
- Fire Safe Design
- Anti-static Devices for Ball-Stem-Body
- Blow-out Proof Stem
- Pressure Balance Hole in Ball Slot
- Standard Locking Handle

Applicable standards

- Design: ASME B16.34, API608
- Fire Safe: API 607 5th 2005, ISO 10497
- Face to Face: ASME B16.10, DIN3202
- Wall Thickness: ASME B16.34
- End Flange: ASME B16.5
- BW Connection Dimension: ASME B16.25
- Inspection&Testing: API 598, API 6D



Product parameter

Size:	1/2"-12" FP&RP
Pressure Rating:	Class150~600
Main Materials:	WCB, WCC, LCB, LCC, CF8, CF8M, CF3, CF3M, CN7M, CF8C, 4A, A105, LF2, F304, F316, F304L, F316L, F321, F51.
Optional Operation:	Manual,Gear,Electric,Pneumatic,Hydraulic.

RF flanged unibody,reduce port ball valve

Design features

- Built-in ISO 5211 Mounting Pad
- Fire Safe Design
- Anti-static Devices for Ball-Stem-Body
- Blow-out Proof Stem
- Pressure Balance Hole in Ball Slot
- Standard Locking Handle

Applicable standards

- Design: ASME B16.34, API608
- Fire Safe: API 607 5th 2005, ISO 10497
- Face to Face: ASME B16.10
- Wall Thickness: ASME B16.34
- End Flange: ASME B16.5
- Inspection&Testing: API 598, API 6D



Product parameter

Size:	1/2"-12" RP
Pressure Rating:	Class150~300
Main Materials:	WCB, WCC, LCB, LCC, CF8, CF8M, CF3, CF3M, CN7M, CF8C, 4A, A105, LF2, F304, F316, F304L, F316L, F321, F51.
Optional Operation:	Manual,Gear,Electric,Pneumatic,Hydraulic.



Trunnion ball valve

■ Cast steel trunnion full and reduce ball valve

■ Design features

- Fire Safe certified
- Double Block&Bleed
- Emergency Sealant Injection
- Cavity Pressure Self Relief
- Blowout-Proof Stem
- Anti-static
- Optional Double Piston Design

■ Applicable standards

- Design: ASME B16.34, API608, API6D
- Fire Safe: API 607 5th 2005, ISO 10497
- Face to Face: ASME B16.10
- Wall Thickness: ASME B16.34
- End Flange: ASME B16.5
- BW Connection Dimension: ASME B16.25
- Inspection&Testing: API 598, API 6D



■ Product parameter

Size:	2"-40" FP&RP
Pressure Rating:	Class150~1500
Main Materials:	WCB, LCB, LCC, CF8, CF8M, CF3, CF3M, CN7M, CF8C, 4A.
Optional Operation:	Manual,Gear,Electric,Pneumatic,Hydraulic,Manual-Air-Hydraulic.

■ Forged steel trunnion full and reduce port ball valve

■ Design features

- Fire Safe Certified
- Double Block&Bleed
- Emergency Sealant Injection
- Cavity Pressure Self Relief
- Blowout-Proof Stem
- Anti-static
- Optional Double Piston Design

■ Applicable standards

- Design: ASME B16.34, API608, API6D
- Fire Safe: API 607 5th 2005, ISO 10497
- Face to Face: ASME B16.10
- Wall Thickness: ASME B16.34
- End Flange: ASME B16.5
- BW Connection dimension: ASME B16.25
- Inspection&Testing: API 598, API 6D



■ Product parameter

Size:	2"-40" FP&RP
Pressure Rating:	Class150~2500
Main Materials:	A105, LF2, F304, F316, F304L, F316L, F321, ALLOY-20, F51.
Optional Operation:	Manual,Gear,Electric,Pneumatic,Hydraulic,Manual-Air-Hydraulic.



Trunnion ball valve

■ Full welded ball valve

■ Design features

- Full Welding Between Body and Bonnet
- Full Port or Reduce Port
- Fire Safe Design
- Double Block&Bleed
- Cavity Pressure Self Relief
- Blow-out Proof Stem and Anti-static Device
- Optional Double Piston Design
- Anti-static
- Optional Underground Extended Design

■ Applicable standards

- Design: ASME B16.34, API608, API6D
- Fire Safe: API 607 5th 2005, ISO 10497
- Face to Face: ASME B16.10
- Wall Thickness: ASME B16.34
- End Connection: ASME B16.10,ASME B16.25
DIN 2543-2550
- Inspection&Testing: API 598, API 6D



■ Product parameter

Size:	2"-40" FP&RP
Pressure Rating:	Class150~1500
Main Materials:	A105, LF2, F304, F316, F304L, F316L.
Optional Operation:	Manual,Gear,Electric,Pneumatic,Hydraulic,Manual-Air-Hydraulic.

■ Top entry trunnion ball valve

■ Design features

- Cast Steel Unibody(Top Entry)
- Forged Steel Welded Body(Fully Welded)
- Fire Safe Design
- Double Block & Bleed
- Emergency Sealant Injection
- Cavity Pressure Self Relief
- Blowout-Proof Stem
- Anti-static
- Optional Double Piston Design

■ Applicable standards

- Design: ASME B16.34, API608, API6D
- Fire Safe: API 607 5th 2005, ISO 10497
- Face to Face: ASME B16.10
- Wall Thickness: ASME B16.34
- End Flange: ASME B16.5
- Inspection&Testing: API 598, API 6D



■ Product parameter

Size:	2"-40" FP&RP
Pressure Rating:	Class150~2500
Main Materials:	WCB, WCC, LCB, LCC, CF8, CF8M, CF3,CF3M, CN7M, CF8C, 4A, A105, LF2, F304, F316, F304L, F316L, F321.
Optional Operation:	Manual,Gear,Electric,Pneumatic,Hydraulic,Manual-Air-Hydraulic.



Other ball valve

■ Three-way/Four-way ball valve

■ Design features

- "Y" Pattern Three-way Ball Valve
- "L" Pattern Three-way Ball Valve
- "T" Pattern Three-way Ball Valve
- "LL" Pattern Four-way Ball Valve

■ Applicable standards

- Design: ASME B16.34, API608, API6D
- Fire Safe: API 607 5th 2005, ISO 10497
- Face to Face: ASME B16.10
- Wall Thickness: ASME B16.34
- End Flange: ASME B16.5
- Inspection&Testing: API 598, API 6D



■ Product parameter

Size:	2"-24" FP&RP
Pressure Rating:	Class150~900
Main Materials:	WCB, LCB, LCC, CF8, CF8M, CF3, CF3M, CN7M, CF8C, 4A.
Optional Operation:	Manual,Gear,Electric,Pneumatic,Hydraulic.

■ Metal-to-metal ball valve

■ Design features

- Metal-to-metal Seal Design between Ball and Seats
- Double Block and Bleed
- Floating Seat Design with Automatic Pressure Releasing Function
- Blow-out Proof Stem
- Anti-static Device
- Urgent Injection Design

■ Applicable standards

- Design: ASME B16.34, API608, API6D
- Fire Safe: API 607 5th 2005, ISO 10497
- Face to Face: ASME B16.10
- Wall Thickness: ASME B16.34
- End Flange: ASME B16.5
- Inspection&Testing: API 598, API 6D



■ Product parameter

Size:	1/2"-40" FP&RP
Pressure Rating:	Class150~1500
Main Materials:	WCB, WCC, LCB, LCC, CF8, CF8M, CF3, CF3M, CN7M, CF8C, 4A, A105, LF2, F304, F316, F304L, F316L, F321, ALLOY-20 , F51.
Optional Operation:	Manual,Gear,Electric,Pneumatic,Hydraulic.



Other ball valve

■ 1PC,2PC,3PC-1000WOG ball valve

■ Design features

- Blow-out Proof Stem
- Pressure Balance Hole in Ball Slot
- Full Port or Reduce Port
- Various Thread Standards Available

■ Applicable standards

- Design: ASME B16.34, API 608
- Wall Thickness: EN 12516-3
- Pipe Thread: ASME B1.20.1, BS21
DIN 2999/259, ISO 228/1
JIS B 0203
- Butt Weld: ASME B16.25 (ϕ B2 Sch 40)
 ϕ B2 Available in Sch 10, 20
- Socket Weld: ASME B16.11
- Inspection&Testing: API 598, EN 12266



■ Product parameter

Size:	1/4"-4" FP&RP
Pressure Rating:	1000PSI
Main Materials:	WCB, CF8, CF8M, CF3M.

■ 2000WOG 3PC bolted body-ball valve

■ Design features

- Built-in ISO 5211 Mounting Pad
- Fire safe Design
- High Pressure 3PC Bolted Body Valve
- Threaded and Socketwelded Connections
- Full and Reduce Port
- Anti-Static Devices for Ball-Stem-Body
- Blow-out Proof Stem
- Pressure Balance Hole in Ball Slot
- Standard Locking Handle

■ Applicable standards

- Design: ASME B16.34, API 608
- Wall Thickness: EN 12516-3
- Pipe Thread: ASME B1.20.1, BS21
DIN 2999/259, ISO 228/1
JIS B 0203
- Butt Weld: ASME B16.25 (ϕ B2 Sch 40)
 ϕ B2 Available in Sch 10, 20
- Socket Weld: ASME B16.11
- Inspection&Testing: API 598, EN 12266



■ Product parameter

Size:	1/4"-3" FP&RP
Pressure Rating:	2000PSI
Main Materials:	WCB, CF8, CF8M, CF3M.



Other ball valve

2000WOG Unibody,barstock ball valve

Design features

- Optional Locking Handle
- Body Notches Denote Full Opened/Closed Position
- Heavy Duty Design, Stainless Steel Trim
- Threaded Connections, Reduce Port
- Blowout-Proof Stem
- Anti-static

Applicable standards

- Design: ASME B16.34, API6D
- Wall Thickness: EN 12516-3
- Pipe Threaded :ASME B1.20.1,BS21
DIN 2999/259, ISO228/1
- Inspection&Testing: API 598, API 6D



Product parameter

Size:	1/4"-2"
Pressure Rating:	Class800 (2000 WOG)
Main Materials:	A105, LF2 , F316 .

3000WOG 3PC Bolted body,forged steel floating ball valve

Design features

- Full and Reduce Port
- High Pressure 3PC Bolted Body Valve
- Thread and Socket-welede Connections
- Fire safe Design
- Full and Reduce Port
- Anti-Static Devices for Ball-Stem-Body
- Blow-out Proof Stem
- Pressure Balance Hole in Ball Slot
- Standard Locking Handle

Applicable standards

- Design: ASME B16.34, API 608
- Wall Thickness: EN 12516-3
- Pipe Thread: ASME B1.20.1, BS21
DIN 2999/259, ISO 228/1
JIS B 0203
- Butt Weld: ASME B16.25 (φ B2 Sch 40)
φ B2 Available in Sch 10, 20
- Socket Weld: ASME B16.11
- Inspection&Testing: API 598, EN 12266



Product parameter

Size:	1/4"-2" FP&RP
Pressure Rating:	Class600~1500 (3000 WOG)
Main Materials:	A105, LF2, F304, F316, F304L, F316L, F51.



Other ball valve

6000WOG ball valve

Design features

- Threaded, Socketweld
- High Pressure Ball Valve
- Full Port 1/4"-2"
- Reduce Port 3/4"-3"
- Threaded&Socketweld
- Firesafe Certified to API 607 Rev.4
- Standard Locking Handle
- Double Seal at Stem and Body Connections
- Standard Anti-static Device
- Blowout-Proof Stem

Applicable standards

- Design: ASME B16.34, API 608
- Wall Thickness: EN 12516-3
- Pipe Thread: ASME B1.20.1, BS21
DIN 2999/259, ISO 228/1
JIS B 0203
- Butt Weld: ASME B16.25 (φ B2 Sch 40)
φ B2 Available in Sch 10, 20
- Socket Weld: ASME B16.11
- Inspection&Testing: API 598, EN 12266



2PC Cast

3PC Forged

Product parameter

Size:	1/4"-2"
Pressure Rating:	3000,4000,6000 WOG
Main Materials:	WCB, CF8, CF8M, CF3M, A105, LF2, F304, F316, F304L, F316L, F51.

1PC Class150/300 flanged end steam jacket ball valve

Design features

- Full Port
- ISO 5211 Mounting Pad
- Seats are available in various materials
- Fire safe Design
- Anti-Static Devices for Ball-Stem-Body
- Blow-out Proof Stem
- Pressure Balance Hole in Ball Slot
- Standard Locking Handle

- Design: ASME B16.34, API6D
- Fire Safe: API 607
- Face to Face: ASME B16.10
- Wall Thickness: ASME B16.34
- End Flange: ASME B16.5
- Inspection&Testing: API 598, API 6D



Product parameter

Size:	1/2"-8"
Pressure Rating:	Class150~300
Main Materials:	WCB, CF8, CF8M, CF3M.



Other ball valve

Heat welded ball valve

Design features

- Free from Maintenance, Adjustment and Lubrication;
- Easy Installment and Long-term Reliable Operating of Low Cost.
- Optional Extend Stem for Easier Heat Preservation
- Handle can be Dismounted and Reversing Installed
- No any Heavy and Unreliable Casting Included
- Easy and Convenient Installment of Adjusting Structure

Applicable standards

- Design: EN 488
- Face to Face: SS EN 12892
- End Flange: ASME B16.5, ASME B16.47 (DIN 2501)
- Butt Weld: ASME B16.25, EN 12627
- Pressure&Temperature Reference: ASME B16.34
- Inspection&Testing: API598, ISO 5280
- Marking: EN 19
- Anti-static Design: Fireproofing Design API 607/6FA



Product parameter

Size:	1/2"-40"
Pressure Rating:	Class150-300(PN16 ~ PN40)
Main Materials:	A537,PPS, ST37, 1020, A53.
Optional Operation:	Manual,Gear,Electric,Pneumatic,Hydraulic.

Cryogenic ball valve

Cryogenic valve normally refers to valves with working temperature below -110°C. It is widely used in LNG, LPG and other low temperature industry. TEJI offers ball valves for cryogenic service up to -196°C.

Design features

- Safety Long Exetended Stem
- Vent Hole on Upstream Side
- Extended Bonnet
- Low Emission Packing
- Blowout-Proof Stem
- Anti-static

Applicable standards

- Design: ASME B16.34, API608, API6D
- Fire Safe: API 607 5th 2005, ISO 10497
- Face to Face: ASME B16.10
- Wall Thickness: ASME B16.34
- End Flange: ASME B16.5
- BW End: ASME B16.25
- Inspection&Testing: API 598, API 6D



Product parameter

Size:	1/2"—24"
Pressure Rating:	Class150~900
Main Materials:	CF8, CF8M. CF3, CF3M, CF8C, F304, F316, F304L, F316L, F321.

Control valve

ZMPQ/ZSPQ Pneumatic film/piston cut-off valve

Product overview

ZMPQ/ZSPQ quick-change pneumatic film/piston shutoff valve adopts the top guide structure, the body structure is compact, the fluid channel is streamlined S, the pressure drop loss is small, the flow rate is large, the seat closing performance meets the GB/T4213-2008 standard, and the multi-spring film/piston actuator has a small structure and large output force. The cut-off valve accepts the signal from the regulating instrument to cut off, open or change the flow direction of the medium to achieve automatic control of process parameters such as pressure, flow, temperature or liquid, and is more suitable for use in high-end occasions requiring reliability and closing performance.

Product performance

Product model: ZMPQ/ZSPQ
Nominal diameter: DN15-DN200
Working pressure: PN16, PN40, PN64, PN100, etc
Applicable temperature: -20°C-250°C
Applicable media: water, steam, oil, etc
Body material: stainless steel, cast steel



ZDLT electric diaphragm regulating valve

Product overview

ZDLT electric diaphragm regulating valve is sealed by "mountain" convex surface between diaphragm and valve body, no stuffing box, throttle element is elastic diaphragm, valve body flow channel is smooth, valve body lining and diaphragm can be made of corrosion resistant materials. The regulator is equipped with a small, robust, high-precision actuator that receives ON-OFF or 4-20mADC or 1-5V DC signal for proportional action, which is more suitable for corrosion resistance and highly toxic occasions.

Product performance

Product model: ZDLT
Nominal diameter: DN20-DN200
Working pressure: PN1.6
Applicable temperature: -20°C-120°C
Applicable media: water, steam, oil, etc
Body material: stainless steel, cast steel





Control valve

■ Nitrogen-sealed valve

■ Product overview

The ammonia sealing device control valve is composed of a control valve, an actuator, a pressure spring, a conductor, a pulse tube and other components. It is mainly used to keep the pressure of the protective gas (generally nitrogen) at the top of the container constant to avoid direct contact between the materials in the container and the air to prevent volatilization and oxidation of the materials, and to ensure the safety of the container. Especially suitable for all kinds of large storage tank air seal protection system. The product has the characteristics of energy saving, sensitive action, reliable operation, easy operation and maintenance. Widely used in petroleum, chemical and other industries

■ Product performance

Product model: ZZVP-16C
Nominal diameter :DN20-DN100
Nominal pressure :PN1.6(MPa)
Applicable temperature : -20C-80C
Applicable medium: nitrogen
Body material: cast steel, stainless steel



■ Pneumatic lined fluorine regulating valve

■ Product overview

Pneumatic lined fluorine regulating valve with RTFE bellows seal and V-type PTFE packing two kinds of combined seal, completely eliminate the medium from the valve stem leakage. It can achieve multiple sealing protection, refuse media leakage, and have a better sealing guarantee effect on demanding media (chlorine gas and other highly toxic and strong corrosion). Pneumatic fluorine-lined regulating valve is a kind of anti-corrosion straight single-seat regulating valve, and the inner wall of the valve body and the inner components in contact with the fluid are made of high pressure injection molding process, lined with corrosion-resistant and age-resistant polyperfluorinated ethylene propylene (F46), and polytetrafluoroethylene bellow pipe seal. Pneumatic lined fluorine regulating valve is widely used in acid, alkali and other strong corrosive media and toxic, volatile and other gases, liquid control.

■ Product performance

Product model: ZJHPF46
Nominal diameter: DN20-DN450
Working pressure: PN1.6
Applicable temperature: -20°C-120°C
Applicable medium: hydrochloric acid
Spool form: single seat plunger type fluorine lined spool
Body material: stainless steel, cast steel



Control valve

■ Electric regulating valve

■ Product overview

Electric control valve is an important executive unit instrument in industrial automation process control. The electric regulating valve is most suitable to be installed with the upper end of the working piston at the lower part of the horizontal pipeline. Generally, the electric regulating valve includes a driver, which receives the driver signal to control the valve to adjust, and can also form an intelligent network control system according to the control needs to optimize the control and realize remote monitoring. The installation of the electrical part of the electric control valve shall be carried out according to the construction requirements of relevant electrical equipment. With the increasing degree of automation in the industrial field, electric control valves are more and more used in various industrial production fields.

■ Product performance

Product model: ZDLP-16C, ZDLM-16C
Nominal diameter: DN20-DN450
Nominal pressure: PN1.6-PN10(MPa) Applicable temperature: -20C-250C high temperature type > 250
Applicable medium: water, steam, oil and other
valve body materials: cast steel, stainless steel and forged steel.



■ Pneumatic control valve

■ Product overview

Pneumatic control valve is mainly composed of pneumatic actuator, valve body and accessories. The actuator takes clean compressed air as power, receives 4 ~ 20mA electric signal or 20~100KPa gas signal, drives the valve body to move, changes the flow area between the valve core and the valve seat, and thus achieves the function of regulating the flow. In order to improve the linearity of the valve and overcome the influence caused by the friction of the valve stem and the change of the working conditions (temperature and pressure) of the regulated medium, the valve positioner is used to match with the regulating valve, so that the valve position can be accurately positioned according to the regulating signal.

■ Product performance

Product model: ZJHP-16C, ZJHM-16C
Nominal diameter: DN20-DN450
Nominal pressure: PN1.6-PN10(MPa)
Applicable temperature: -20C-250C High temperature type > 250C
Applicable medium: water, steam, oil and other
valve body materials: cast steel, stainless steel and forged steel.





Control valve

■ Electric temperature control valve

■ Product overview

ZZWPE electric temperature regulating valve needs an additional 220V power supply, and uses the energy of the medium to realize the automatic temperature regulation. Nominal pressure PN16, 40, 64; The temperature adjustment range is from 0 ~ 250°C.

■ Product performance

Product model: ZZWPE-16C
Performance characteristics: automatically adjust the valve opening according to the temperature of pipeline medium.
Nominal diameter: DN20-DN450
Nominal pressure: PN1.6-PN10(MPa)
Applicable temperature: -20C-250C High temperature type > 250C
Applicable medium: water, steam, oil and other valve body materials: cast steel, stainless steel and forged steel.



■ Self-operated pressure regulating valve

■ Product overview

Self-operated pressure regulating valve is composed of control valve, actuator and a spring for setting pressure. It is suitable for pressure control of non-corrosive liquid, gas and steam in front of the valve (when the pressure in front of the valve rises, the control valve opens) or behind the valve (when the pressure behind the valve rises, the control valve closes) in the system pipeline. Widely used in petroleum, chemical industry, electric power, metallurgy, medicine, food, textile, machinery, heating and ventilation, etc.

■ Product performance

Product model: ZZYP-16C
Performance characteristics: automatically adjust the valve opening according to the pressure of pipeline medium.
Nominal diameter: DN20-DN450
Nominal pressure: PN1.6-PN10(MPa)
Applicable temperature: -20C-250C
Applicable media: water, steam, oil, etc.
Valve body material: cast steel, stainless steel.



■ ZMA^{AO}_{BX}、ZMB^{AO}_{BX} pneumatic film tee (part) flow control valve

■ Product overview

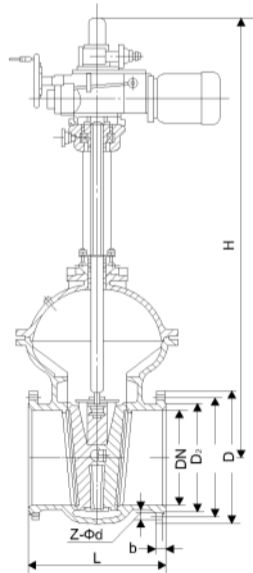
ZM^{AO}_{BX} pneumatic film tee (split) flow control valve is mainly used to divide an inlet fluid into two outlet fluids or synthesize two inlet fluids into one outlet fluid. The three-way valve is divided into (ZM^A_B Q) confluence regulating valve, (ZM^A_B Q) shunt regulating valve valve size, the confluence valve can also be used as a shunt valve when the pressure difference is small, but the valve size is large and the pressure difference is high.

■ Product performance

Product model: ZMA^{AO}_{BX}、ZMB^{AO}_{BX}
Nominal diameter: DN25-DN200
Working pressure: PN16, PN40, PN64
Applicable temperature: -20°C-250°C
Applicable media: water, steam, oil, etc
Body material: stainless steel, cast steel



American standard flange gate valve



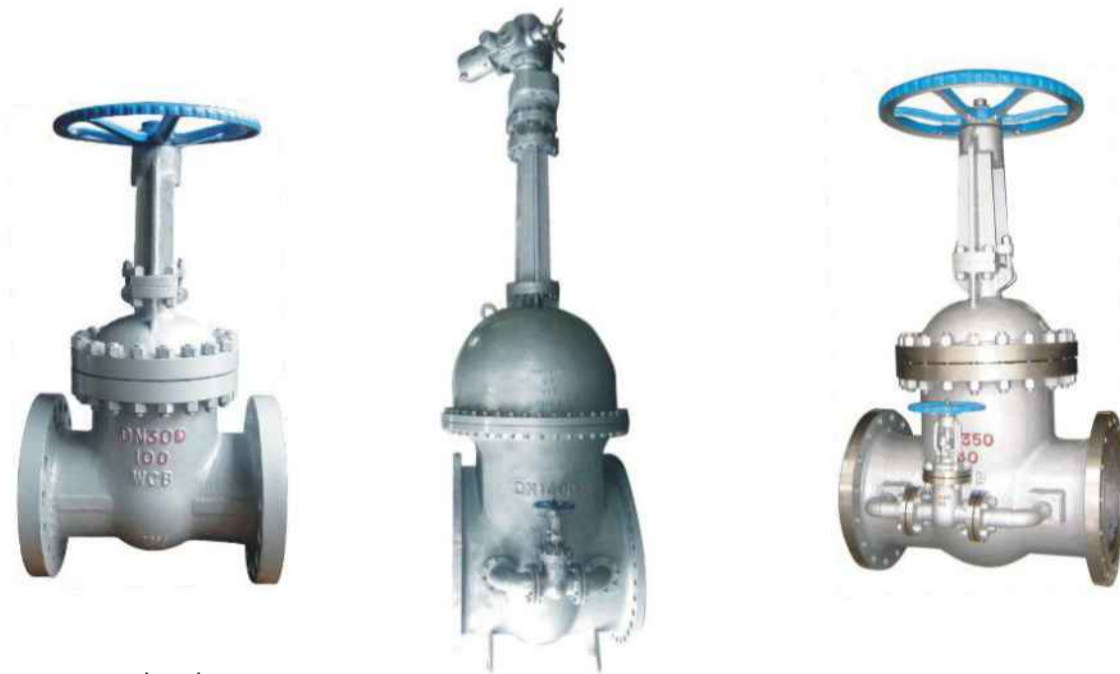
■ Main connection dimensions

	1.0MPa								
	DN	L	D	D1	D2	b	Z-φd	H	D0
raised-face flangeRF Z40H Z40Y Z40W Z40F Z40N Z41H Z41Y Z41W Z41F Z41N 16C 16P 16R 16I	50	180	160	125	100	16	4-φ 18	358	240
	65	195	180	145	120	18	4-φ 18	373	240
	80	210	195	160	135	20	4-φ 18	435	280
	100	230	215	180	155	20	8-φ 18	500	300
	125	255	245	210	185	22	8-φ 18	614	320
	150	280	280	240	210	24	8-φ 23	674	320
	200	330	335	295	265	26	8-φ 23	818	400
	250	380	390	350	320	26	12-φ 23	969	450
	300	420	440	400	368	26	12-φ 23	1145	500
	350	450	500	460	428	26	16-φ 23	1280	500
	400	480	565	515	482	26	16-φ 25	1452	560
	450	510	615	565	532	28	20-φ 25	1541	600
	500	540	670	620	585	28	20-φ 25	1676	640
	600	600	780	725	685	30	20-φ 30	1874	720
	700	660	895	840	800	32	24-φ 30	2083	800
	800	720	1010	950	905	34	24-φ 34	2400	950
	900	780	1110	1050	1005	36	28-φ 34	2950	1000
	1000	840	1220	1160	1115	38	28-φ 34	3245	1000
	1200	960	1450	1380	1325	40	32-φ 41	3850	1100
	1400	1000	1675	1590	1525	42	36-φ 48	3980	1200
	1600	1080	1915	1820	1750	46	40-φ 54	4120	1300





National standard flange gate valve



■ executive standard

coachwork	structure length	Flange size	Pressure-temperature	Test-inspection
GB/T12234	GB/T12221	JB/T79 GB/T9113-9119	JB/T9131	GB/T13927 JB/T9092

■ pressure testing

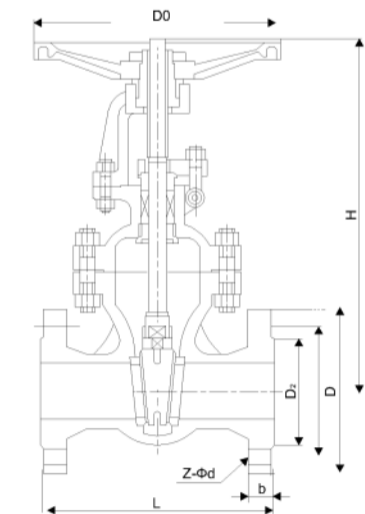
nominal pressure	1.6	2.5	4.0	6.4	10.0	16.0
strength test	2.4	3.8	6.0	9.6	15.0	24.0
Water seal test	1.8	2.8	4.4	7.0	11.0	18.0
Upper seal test	1.8	2.8	4.4	7.04	11.0	18.0
Gas seal test	0.4-0.7					

■ Material and performance of main parts

Body cover plate	valve rod	sealing face	spacer	filling	Working temperature	Applicable medium
WCB	2Cr13	13Cr STL Bulk material PTFE nylon	Reinforced flexible graphite 1Cr13/Flexible stone sculpture 08mild steel 0Cr18Ni9Ti 0Cr17Ni12Mo2Ti XD550F (T) PTFE	Flexible stone climbing Reinforced flexible graphite	≤425	Water vapor oil
WC1	38CrMoA1 25Cr2MoV				≤450	
WC6					≤540	
WC9					≤570	
ZGCr5Mo					≤540	
ZG1Cr18Ni9Ti	1Cr18Ni9Ti			SFB/260 SFP/260 PTFE	≤200	Nitric acid
ZG1Cr18Ni12Mo2Ti	1Cr17Ni12Mo2Ti		≤200	Acetic acids		



National standard flange gate valve

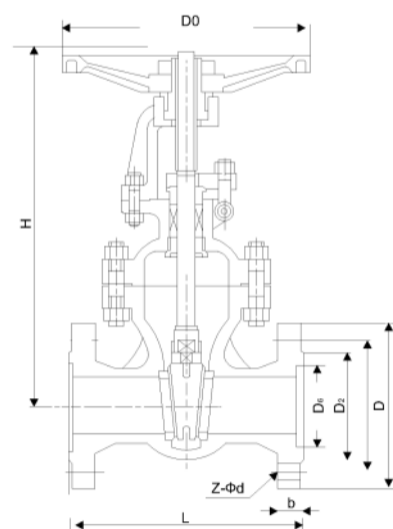


■ Main connection dimensions

	1.6MPa								
	DN	L	D	D1	D2	b	Z-φd	H	D0
raised-face flangeRF Z40H Z40Y Z40W Z40F Z40N Z41H Z41Y Z41W Z41F Z41N 16C 16P 16R 16I	25	160	115	85	65	14	4-φ14	205	160
	32	180	135	100	78	16	4-φ18	270	180
	40	200	145	110	85	16	4-φ18	310	200
	50	250	160	125	100	16	4-φ18	358	240
	65	265	180	145	120	18	4-φ18	373	240
	80	280	195	160	135	20	8-φ18	435	280
	100	300	215	180	155	20	8-φ18	500	300
	125	325	245	210	185	22	8-φ18	614	320
	150	350	280	240	210	24	8-φ23	674	320
	200	400	335	295	265	26	12-φ23	818	400
	250	450	405	355	320	30	12-φ25	969	450
	300	500	460	410	375	30	12-φ25	1145	500
	350	550	520	470	435	34	16-φ25	1280	500
	400	600	580	525	485	36	16-φ30	1452	560
	450	650	640	585	545	40	20-φ30	1541	600
	500	700	705	650	608	44	20-φ34	1676	640
	600	800	840	770	718	48	20-φ41	1874	720
	700	900	910	840	788	50	24-φ41	2083	800
	800	1000	1020	950	898	52	24-φ41	2400	950
	900	1100	1120	1050	998	54	28-φ41	2950	1000
	1000	1200	1255	1170	1110	56	28-φ48	3245	1000
	1200	1300	1485	1390	1325	58	32-φ54	3850	1100
	1400	1600	1685	1590	1520	64	36-φ54	4500	11T



National standard flange gate valve



■ Main connection dimensions

	2.5MPa									
	DN	L	D	D1	D2	b	Z-φd	H	D0	
raised-face flange RF Z40H Z40Y Z40W Z40F Z40N Z41H Z41Y Z41F Z41N 25 25P 25R 25I	25	160	115	85	65	16	4-φ14	205	160	
	32	180	135	100	78	18	4-φ18	270	180	
	40	200	145	110	85	18	4-φ18	300	200	
	50	250	160	125	100	20	4-φ18	357	240	
	65	265	180	145	120	22	8-φ18	376	240	
	80	280	195	160	135	22	8-φ18	434	280	
	100	300	230	190	160	24	8-φ23	502	300	
	125	325	270	220	188	28	8-φ25	613	320	
	150	350	300	250	218	30	8-φ25	675	320	
	200	400	360	310	278	34	12-φ25	819	400	
	250	450	425	370	332	36	12-φ30	968	450	
	300	500	485	430	390	40	16-φ30	1144	500	
	350	550	550	490	448	44	16-φ34	1280	500	
	400	600	610	550	505	48	16-φ34	1451	560	
	450	650	660	600	555	50	20-φ34	1542	600	
	500	700	730	660	610	52	20-φ41	1678	640	
	600	800	840	770	718	56	20-φ41	1875	720	
	700	900	955	875	815	60	24-φ48	2082	800	
	800	1000	1070	990	930	64	24-φ48	2403	950	
	900	1100	1180	1090	1025	66	28-φ54	2952	1000	
	1000	1200	1305	1210	1140	68	28-φ58	3244	1000	
	1200	1300	1525	1420	1350	72	32-φ58	3950	1200	
	1400	1600	1755	1640	1555	78	36-φ60	4800	12T	



National standard flange gate valve

■ Main connection dimensions

	4.0MPa									
	DN	L	D	D1	D2	D6	b	Z-φd	H	D0
Concave and convex flange MFM Z40H Z40Y Z40W Z40F Z41H Z41Y Z41W Z41F 40 40P 40R 40I	15	130	95	65	45	40	16	4-φ14	134	120
	20	150	105	75	55	51	16	4-φ14	188	140
	25	160	115	85	65	58	16	4-φ14	206	140
	32	180	135	100	78	66	18	4-φ18	272	180
	40	200	145	110	85	76	18	4-φ18	322	180
	50	250	160	125	100	88	20	4-φ18	370	240
	65	280	180	145	120	110	22	8-φ18	394	280
	80	310	195	160	135	121	22	8-φ18	455	300
	100	350	230	190	160	150	24	8-φ23	550	320
	125	400	270	220	188	176	28	8-φ25	636	350
	150	450	300	250	218	204	30	8-φ25	706	400
	200	550	375	320	282	260	38	12-φ30	859	450
	250	650	445	385	345	313	42	12-φ34	1016	560
	300	750	510	450	408	364	46	16-φ34	1200	640
	350	850	570	510	465	422	52	16-φ34	1340	640
	400	950	655	585	535	474	58	16-φ41	1495	720
	450	1050	680	610	560	524	60	20-φ41	1581	800
	500	1150	755	670	612	576	62	20-φ48	1790	950
	600	1350	890	795	730	678	62	20-φ54	2035	950
	700	1450	995	900	835	768	68	24-φ54	2630	1000
	800	1650	1135	1030	960	876	76	24-φ58	2755	1000
Concave and convex flange MFM Z40H Z40Y Z40W Z41H Z41Y Z41W 64 64P 64R 64I	6.4MPa									
	DN	L	D	D1	D2	D6	b	Z-φd	H	D0
	15	170	105	75	55	40	18	4-φ14	142	160
	20	190	125	90	68	51	20	4-φ18	142	160
	25	210	135	100	78	58	22	4-φ18	214	200
	32	230	150	110	82	66	24	4-φ23	269	200
	40	240	165	125	95	76	24	4-φ23	343	240
	50	250	175	135	105	88	26	4-φ23	370	240
	65	280	200	160	130	110	28	8-φ23	396	280
	80	310	210	170	140	121	30	8-φ23	458	300
	100	350	250	200	168	150	32	8-φ25	553	300
	125	400	295	240	202	176	36	8-φ30	638	350
	150	450	340	280	240	204	38	8-φ34	718	400
	200	550	405	345	300	260	44	12-φ34	873	450
	250	650	470	400	352	313	48	12-φ41	1050	560
	300	750	530	460	412	364	54	16-φ41	1203	640
	350	850	595	525	475	422	60	16-φ41	1394	720
	400	950	670	585	525	474	66	16-φ48	1645	800
	500	1150	800	705	640	576	70	20-φ54	2285	950
	600	1350	930	820	750	678	76	20-φ58	2610	950



National standard flange gate valve

■ Main connection dimensions

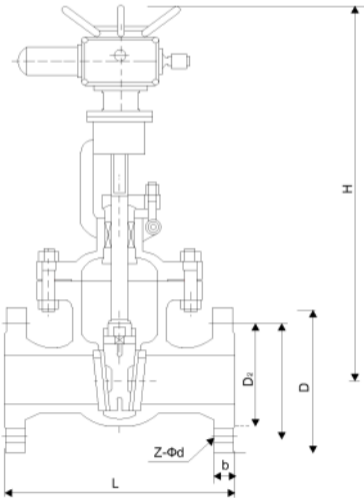
Concave and convex flange MFM Z40H Z40Y Z40W Z41H Z41Y Z41W 100 100P 100R 100I	10.0MPa									
	DN	L	D	D1	D2	D6	b	Z-φd	H	D0
	15	170	105	75	55	40	20	4-φ14	175	160
	20	190	125	90	68	51	22	4-φ18	180	160
	25	210	135	100	78	58	24	4-φ18	310	180
	32	230	150	110	82	66	24	4-φ23	320	200
	40	240	165	125	95	76	26	4-φ23	360	200
	50	250	195	145	112	88	28	4-φ25	490	240
	65	280	220	170	138	110	32	8-φ25	540	240
	80	310	230	180	148	121	34	8-φ25	573	280
	100	350	265	210	172	150	38	8-φ30	575	320
	125	400	310	250	210	176	42	8-φ34	744	360
	150	450	350	290	250	204	46	12-φ34	800	400
	200	550	430	360	312	260	54	12-φ41	800	500
	250	650	500	430	382	313	60	12-φ41	1050	640
	300	750	585	500	442	364	70	16-φ48	1208	720
	350	850	655	560	498	422	76	16-φ54	1410	720
	400	950	715	620	558	474	80	16-φ54	1655	800
Concave and convex flange MFM Z40H Z40Y Z40W Z41H Z41Y Z41W 160 160P 150R 150I	16.0MPa									
	15	170	110	75	52	40	24	4-φ18	230	160
	20	190	130	90	62	51	26	4-φ23	260	180
	25	210	140	100	72	58	28	4-φ23	280	200
	32	230	165	115	85	66	30	4-φ25	312	200
	40	260	175	125	92	76	32	4-φ27	350	240
	50	300	215	165	132	88	36	8-φ25	512	280
	65	340	245	190	152	110	44	8-φ30	560	320
	80	390	260	205	168	121	46	8-φ30	585	350
	100	450	300	240	200	150	48	8-φ34	630	400
	125	525	355	285	238	176	60	8-φ41	723	500
	150	600	390	318	270	204	66	12-φ41	820	560
	200	750	480	400	345	260	78	12-φ48	990	720
	250	850	580	485	425	313	88	12-φ54	1104	800
	300	950	665	570	510	364	100	16-φ54	1314	800



American standard electric flange gate valve

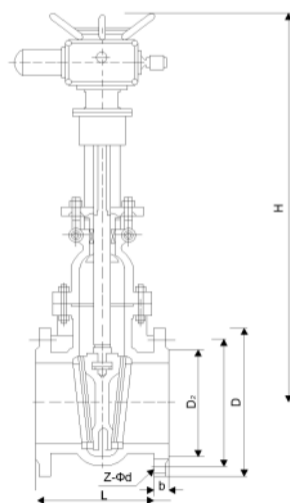
■ Main connection dimensions

Concave and convex flange MFM RF Z940H Z940Y Z940W Z940F Z941H Z941Y Z941W Z941F 16C 16P 16R 16I	16.0MPa								
	DN	L	D	D1	D2	b	Z-φd	H	Denso model
	40	200	145	110	85	16	4-18	595	DZW10
	50	250	160	125	100	16	4-18	653	DZW10
	65	265	180	145	120	18	4-18	665	DZW10
	80	280	195	160	135	20	8-18	725	DZW15
	100	300	215	180	155	20	8-18	787	DZW20
	125	325	245	210	185	22	8-18	934	DZW20
	150	350	280	240	210	24	8-23	955	DZW20
	200	400	335	295	265	26	12-23	1105	DZW30
	250	450	405	335	320	30	12-25	1343	DZW30
	300	500	460	410	375	30	12-25	1516	DZW45
	350	550	520	470	435	34	16-25	1678	DZW90
	400	600	580	525	485	36	16-30	1849	DZW120
	450	650	640	585	545	40	20-30	1937	DZW120
	500	700	705	650	608	44	20-34	2234	DZW180
	600	800	840	770	718	48	20-41	2432	DZW250
	700	900	910	840	788	50	24-41	2489	DZW250
	800	1000	1020	950	898	52	24-41	2643	DZW350
	900	1100	1120	1050	998	54	28-41	2935	DZW500
	1000	1200	1255	1170	1100	56	28-48	3410	DZW500
	1200	1300	1485	1390	1325	58	32-54	3850	DZW500
	1400	1600	1685	1590	1520	64	36-54	4500	DZW1000





National standard electric flange gate valve



■ Main connection dimensions

	2.5MPa								
	DN	L	D	D1	D2	b	Z-φd	H	Denso model
Concave and convex flange RF Z940H Z940Y Z940W Z940F Z941H Z941Y Z941W Z941F 25C 25P 25R 25I	40	200	145	110	85	18	4-φ18	595	DZW10
	50	250	160	125	100	20	4-φ18	653	DZW10
	65	265	180	145	120	22	8-φ18	665	DZW10
	80	280	195	160	135	22	8-φ18	725	DZW15
	100	300	230	190	160	24	8-φ23	787	DZW20
	125	325	270	220	188	28	8-φ25	902	DZW20
	150	350	300	250	218	30	8-φ25	955	DZW20
	200	400	360	310	278	34	12-φ25	1105	DZW30
	250	450	425	370	332	36	12-φ30	1343	DZW30
	300	500	485	430	390	40	16-φ30	1516	DZW60
	350	550	550	490	448	44	16-φ34	1678	DZW90
	400	600	610	550	505	48	16-φ34	1849	DZW120
	450	650	660	600	555	50	20-φ34	1937	DZW120
	500	700	730	660	610	52	20-φ41	2234	DZW180
	600	800	840	770	718	56	20-φ41	2432	DZW250
	700	900	955	875	815	60	24-φ48	2489	DZW500
	800	1000	1070	990	930	64	24-φ48	2643	DZW500
	900	1100	1180	1090	1025	66	28-φ54	2935	DZW800
	1000	1200	1305	1210	1140	68	28-φ58	3410	DZW800
	1200	1300	1525	1420	1350	72	32-φ58	4230	DZW1000
	1400	1600	1755	1640	1555	78	36-φ60	4800	DZW1000



National standard electric flange gate valve

■ Main connection dimensions

	4.0MPa									
	DN	L	D	D1	D2	D6	b	Z-φd	H	电装型号
Concave and convex flange MFM Z940H Z940Y Z940W Z941H Z941Y Z941W 40 40P 40R 40I	40	200	145	110	85	76	18	4-φ18	630	DZW10
	50	250	160	125	100	88	20	4-φ18	691	DZW10
	65	280	180	145	120	110	22	8-φ18	711	DZW10
	80	310	195	160	135	121	22	8-φ18	775	DZW15
	100	350	230	190	160	150	24	8-φ23	871	DZW20
	125	400	270	220	188	176	28	8-φ25	948	DZW20
	150	450	300	250	218	204	30	8-φ25	1028	DZW30
	200	550	375	320	282	260	38	12-φ30	1325	DZW30
	250	650	445	385	345	313	42	12-φ34	1400	DZW45
	300	750	510	450	408	364	46	16-φ34	1653	DZW60
	350	850	570	510	465	422	52	16-φ34	1791	DZW90
	400	950	655	585	535	474	58	16-φ41	2092	DZW120
	450	1050	680	610	560	524	60	20-φ41	2120	DZW180
	500	1150	755	670	612	576	62	20-φ48	2465	DZW250
	600	1350	890	795	730	678	62	20-φ54	-	DZW350
	700	1450	995	900	835	768	68	24-φ54	-	DZW500
	800	1650	1135	1030	960	876	76	24-φ58	-	DZW800
	6.4MPa									
	DN	L	D	D1	D2	D6	b	Z-φd	H	电装型号
Concave and convex flange MFM Z940H Z940Y Z940W Z941H Z941Y Z941W 64 64P 64R 64I	40	240	165	125	95	76	24	4-φ23	665	DZW10
	50	250	175	135	105	88	26	4-φ23	790	DZW10
	65	280	200	160	130	110	28	8-φ23	840	DZW10
	80	310	210	170	140	121	30	8-φ23	890	DZW20
	100	350	250	200	168	150	32	8-φ25	1020	DZW20
	125	400	295	240	202	176	36	8-φ30	1100	DZW30
	150	450	340	280	240	204	38	8-φ34	1290	DZW30
	200	550	405	345	300	260	44	12-φ34	1470	DZW60
	250	650	470	400	352	313	48	12-φ41	1500	DZW90
	300	750	530	460	412	364	54	16-φ41	1820	DZW90
	350	850	595	525	475	422	60	16-φ41	2216	DZW120
	400	950	670	585	525	474	66	16-φ48	2838	DZW180
	450	1050	715	630	570	524	68	20-φ48	2868	DZW250
	500	1150	800	705	640	576	70	20-φ54	3320	DZW250
	600	1350	930	820	750	678	76	20-φ58	3684	DZW500



Pound gate valve

■ Main connection dimensions

mm	in	L	D	D1	D2	b	Z-φd	H	D0
900Lb Ring groove flange RTJ									
50	2	371	216	165	124	38.5	8-φ26	521	300
65	21/2	422	244	190.5	137	41.5	8-φ29	584	350
80	3	384	241	190.5	156	38.5	8-φ26	648	350
100	4	460	292	235	181	44.5	8-φ32	750	400
125	5	562	349	279.5	216	51	8-φ35	780	400
150	6	613	381	317.5	241	56	12-φ32	800	500
200	8	740	470	393.5	308	63.5	12-φ38	940	600
250	10	841	546	470	362	70	16-φ38	1130	600
300	12	968	610	533.5	419	79.5	20-φ38	1340	650
350	14	1038	641	559	467	86	20-φ41	1543	700
1500Lb Ring groove flange RT									
50	2	371	216	165	124	38.5	8-φ26	614	300
65	21/2	422	244	190.5	137	41.5	8-φ29	705	350
80	3	473	267	203	168	48	8-φ32	705	400
100	4	549	311	241.5	194	54	8-φ35	927	400
125	5	676	375	292	229	73.5	8-φ41	1120	500
150	6	711	394	317.5	248	83	12-φ38	1191	600
200	8	841.5	483	393.5	318	92	12-φ45	1524	600
250	10	1000	584	482.5	371	108	12-φ51	1854	700
300	12	1146	673	571.5	438	124	16-φ54	2184	700
350	14	1276	749	635	489	134	16-φ60	2216	800
2500Lb Ring groove flange RTJ									
50	2	454	235	171.5	133	51	8-φ29	523	350
65	21/2	514	267	197	149	57.5	8-φ32	631	350
80	3	584	305	228.5	168	67	8-φ35	735	400
100	4	683	356	273	203	76.5	8-φ41	891	500
125	5	806	419	324	241	92.5	8-φ48	1047	650
150	6	927	483	368.5	279	108	8-φ54	1144	700
200	8	1038	552	438	340	127	12-φ54	1392	700
250	10	1292	673	539.5	425	165.5	12-φ67	1614	800



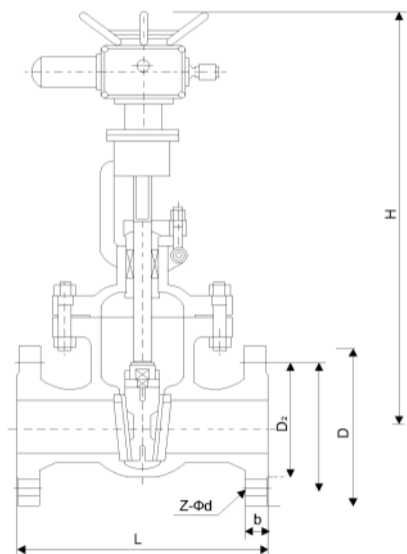
American standard pound electric gate valve

■ Denso model main connection dimensions

DN		150Lb raised-face flange RF							
mm	in	L	D	D1	D2	b	Z-φd	H	Denso model
50	2	178	152	120.5	92	19.5	4-φ19	678	DZW10
65	2 1/2	190	178	139.5	105	22.5	4-φ19	693	DZW10
80	3	203	190	152.5	127	24	4-φ19	755	DZW10
100	4	229	229	190.5	157	24	8-φ19	820	DZW10
125	5	254	254	216	186	24	8-φ22	885	DZW15
150	6	267	279	241.5	216	25.5	8-φ22	994	DZW20
200	8	292	343	298.5	270	29	8-φ22	1138	DZW20
250	10	330	406	362	324	30.5	12-φ26	1409	DZW30
300	12	356	483	432	381	32	12-φ26	1588	DZW45
350	14	381	533	476	413	35	12-φ29	1750	DZW60
400	16	406	597	540	470	37	16-φ29	1920	DZW90
450	18	432	635	578	533	40	16-φ32	2141	DZW120
500	20	457	699	635	584	43	20-φ32	2276	DZW180
600	24	508	813	749.5	692	48	20-φ35	2474	DZW350
650	26	558	786	745	711	41.5	36-φ22	2713	DZW350
700	28	609	837	795	762	44.5	40-φ22	3046	DZW500
750	30	610	887	846	813	44.5	44-φ22	3250	DZW500



Pound-class electric gate valve

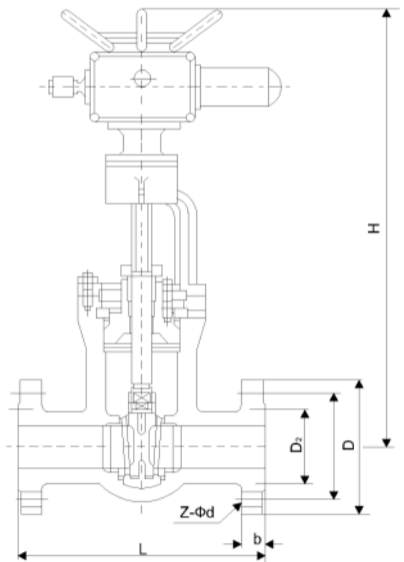
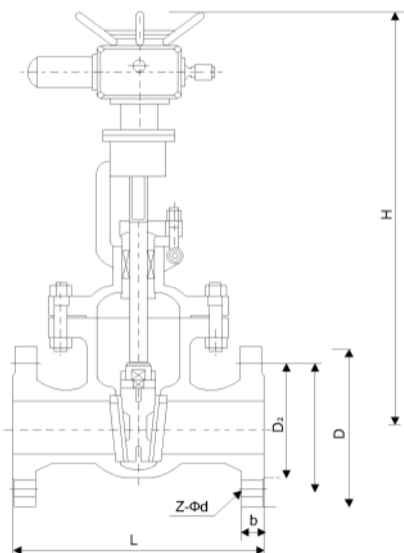


■ Denso model main connection dimensions

DN		300Lb raised-face flange RF							
mm	in	L	D	D1	D2	b	Z-φd	H	Denso model
50	2	216	165	127	92	92	8-φ19	691	DZW10
65	2 1/2	241	190	149	105	105	8-φ22	711	DZW10
80	3	283	210	168.5	127	127	8-φ22	775	DZW20
100	4	305	254	200	157	157	8-φ22	871	DZW20
125	5	381	279	235	186	186	8-φ22	946	DZW30
150	6	403	318	270	216	216	12-φ25	1028	DZW30
200	8	419	381	330	270	270	12-φ26	1325	DZW60
250	10	457	444	387.5	324	324	16-φ29	1400	DZW90
300	12	502	521	451	381	381	16-φ32	1653	DZW90
350	14	762	584	514.5	413	413	20-φ32	1791	DZW120
400	16	838	648	571.5	470	470	20-φ35	2092	DZW180
450	18	914	711	628.5	533.5	533.5	24-φ35	2232	DZW180
500	20	991	775	686	584	584	24-φ35	2465	DZW250
600	24	1143	914	813	692	692	24-φ41	3240	DZW500



Pound-class electric gate valve

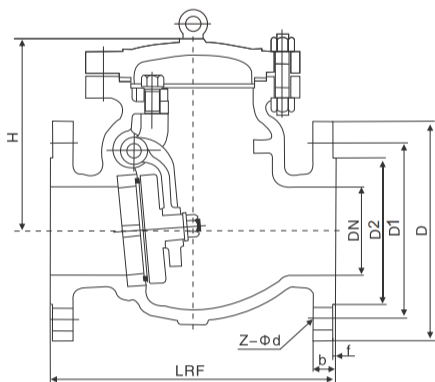


■ Denso model main connection dimensions

mm	in	L	D	D1	D2	b	Z-φd	H	Denso model
600Lb raised-face flange RF									
50	2	292	165	127	92	25.5	8-φ19	810	DZW15
65	2 1/2	330	190	149.5	105	29	8-φ22	860	DZW20
80	3	356	210	168.5	127	32	8-φ22	892	DZW20
100	4	432	273	216	157.5	38.5	8-φ26	1013	DZW30
125	5	508	330	267	186	44.5	8-φ29	1250	DZW45
150	6	559	356	292	216	48	12-φ29	1250	DZW60
200	8	660	419	349	270	55.5	12-φ32	1420	DZW90
250	10	787	508	432	324	63.5	12-φ35	1650	DZW120
300	12	838	559	489	381	66.5	20-φ35	1800	DZW180
350	14	889	603	527	413	70	20-φ38	2030	DZW250
400	16	991	686	603	470	76.5	20-φ41	2250	DZW500
900Lb Ring groove flange RTJ									
50	2	371	216	165	124	38.5	8-φ26	832	DZW20
65	2 1/2	422	244	190.5	137	41.5	8-φ29	880	DZW20
80	3	384	241	190.5	156	38.5	8-φ26	905	DZW30
100	4	460	292	235	181	44.5	8-φ32	1071	DZW30
125	5	562	349	279.5	216	51	8-φ35	1112	DZW60
150	6	613	381	317.5	241	56	12-φ32	1170	DZW90
200	8	740	470	393.5	308	53.5	12-φ38	1440	DZW120
250	10	841	546	470	362	70	16-φ38	1930	DZW180
300	12	968	610	533.5	419	79.5	20-φ38	2259	DZW250



Pound check valve



■ executive standard

coachwork	structure length	Flange size	Pressure -temperature	Test-inspection
API 6D BS 1868	ANSI B16.10	ANSI B16.5	ANSI B16.34	API 598 API 6D

■ pressure testing

nominal pressure		150	300	600	900
strength test	Mpa	3.0	7.7	15.3	23.0
	lbf/in ²	430	1110	2220	3330
Water seal test	MPa	2.2	5.7	11.3	17.0
	lbf/in ²	315	815	1630	2445
Gas seal test	MPa	0.4-0.7			
	lbf/in ²	60-100			

■ Material and performance of main parts

Body cover flap rocker guide sleeve	pin roll	spacer	sealing face	work Temperature℃	Applicable medium
WCB	2Cr13	Reinforced flexible graphite 1Cr13 Spear graphite stainless steel Acid- resistant asbestos PTFE	13Cr STL Bulk material PTFE nylon	≤425	water steam petroleum products Nitric acid Acetic acids Strong oxidation Sexual medium urea
WC1				≤450	
WC6				≤540	
WC9				≤570	
C5 C12	304 316 304L 316L	Toothed gasket		≤550	
CF8					
CF8M					
CF3					
CF3M				≤200	

■ Main connection dimensions

DN		150Lb raised-face flange RF						
mm	in	L	D	D1	D2	b	Z-φd	H
50	2	203	152	120.5	92	19.5	4-φ19	161
65	2 1/2	216	178	139.5	105	22.5	4-φ19	180
80	3	241	190	152.5	127	24	4-φ19	190
100	4	292	229	190.5	157	24	8-φ19	203
125	5	330	254	216	186	24	8-φ22	229
150	6	356	279	241.5	216	25.5	8-φ22	257
200	8	495	343	298.5	270	29	8-φ22	292
250	10	622	406	362	324	30.5	12-φ26	355
300	12	698	483	432	381	32	12-φ26	396
350	14	787	533	476	413	35	12-φ29	445
400	16	864	597	540	470	37	16-φ29	490
450	18	978	635	578	533	40	16-φ32	520
500	20	978	699	635	584	43	20-φ32	546
600	24	1295	813	749.5	692	48	20-φ35	880
650	26	1295	786	745	711	41.5	36-φ22	910
700	28	1448	837	795	762	44.5	40-φ22	935
750	30	1524	887	846	813	44.5	44-φ22	970

Pound check valve

■ Main connection dimensions

DN		300Lb raised-face flange RF						
mm	in	L	D	D1	D2	b	Z-φd	H
50	2	267	165	127	92	22.5	8-φ19	178
65	2 1/2	292	190	149	105	25.5	8-φ22	190
80	3	318	210	168.5	127	29	8-φ22	216
100	4	356	254	200	157	32	8-φ22	241
125	5	400	279	235	186	35	8-φ22	267
150	6	444	318	270	216	37	12-φ25	305
200	8	533	381	330	270	41.5	12-φ26	368
250	10	622	444	387.5	324	48	16-φ29	394
300	12	711	521	451	381	51	16-φ32	445
350	14	838	584	514.5	413	54	20-φ32	470
400	16	864	648	571.5	470	57.5	20-φ35	533
450	18	978	711	628.5	533.5	60.5	24-φ35	584
500	20	1016	775	686	584	63.5	24-φ35	610
600	24	1346	914	813	692	70	24-φ41	60
650	26	1346	867	803	737	89	32-φ35	930
700	28	1499	921	857	787.4	89	36-φ35	1163
750	30	1594	991	921	845	94	36-φ38	1271
600Lb raised-face flange RF								
50	2	292	165	127	92	25.5	8-φ19	203
65	2 1/2	330	190	149.5	105	29	8-φ22	229
80	3	356	210	168.5	127	32	8-φ22	235
100	4	432	273	216	157.5	38.5	8-φ26	286
125	5	508	330	267	186	44.5	8-φ29	292
150	6	559	356	292	216	48	12-φ29	330
200	8	660	419	349	270	55.5	12-φ32	381
250	10	787	508	432	324	63.5	12-φ35	457
300	12	838	559	489	381	66.5	20-φ35	581
350	14	889	603	527	413	70	20-φ38	635
400	16	991	686	603	470	76.5	20-φ41	584
450	18	1092	743	654	533.5	83	20-φ45	752
500	20	1194	813	724	584	89	24-φ45	975
600	24	1397	940	838	692	102	24-φ51	1111
900Lb Ring groove flange RTJ								
50	2	371	216	165	124	38.5	8-φ26	216
65	2 1/2	422	244	190.5	137	41.5	8-φ29	254
80	3	384	241	190.5	156	38.5	8-φ26	292
100	4	460	292	235	181	44.5	8-φ32	318
125	5	562	349	279.5	216	51	8-φ35	343
150	6	613	381	317.5	241	56	12-φ32	368
200	8	740	470	393.5	308	53.5	12-φ38	432
250	10	841	546	470	362	70	16-φ38	546
300	12	968	610	533.5	419	79.5	20-φ38	660
350	14	1038	641	559	467	86	20-φ41	782
400	16	1140	705	616	524	89	20-φ45	838