



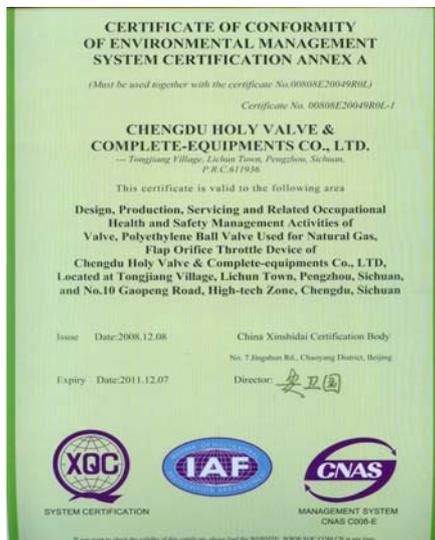
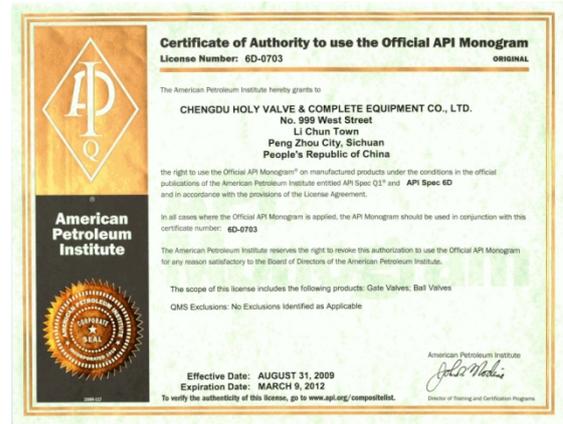
**CHENGDU HOLY VALVE & COMPLETE
EQUIPMENT CO., LTD.**

WEDGE GATE VALVE



HOLY

VALVE





★ ABOUT GROUP COMPANY



Chengdu Holy Valve & Complete Equipment Co., Ltd. is affiliated to Chengdu Holy Group.

Chengdu Holy Group located in Chengdu city, Sichuan Province, has three industrial parks in Chengdu High-tech Industrial Development Zone, Pengzhou City and Jiujiang town of Shuangliu county. The total area is about 980,000 m² and the total assets is over RMB1.5 billion. The group company is national large-scale enterprise. The business range of the group is diversified, including maintenance of aviation power, manufacturing of steel structure, die type color steel plate, equipments for power transmission & distribution and special valves for oil and natural gas, real estate development, industrial and civil structural design & construction, architectural decoration, etc. The

group company has been awarded 'National Quality & Benefit Type Advanced Enterprise' twice, and has been awarded the many titles of honor, such as 'Top 100 Enterprise of Performance Evaluation in National Mechanism Industries', 'Prominent Contribution Units for National Day Parade', 'Home of National Model Employees', 'National First Class Measuring Units', 'Superexcellent Enterprise of Sichuan Province', and 'National May Day Award', etc.

★ HISTORY OF DEVELOPMENT

At the middle of 1980s, the group company cooperated with scientific research institutions, Sichuan Petroleum Survey & Design Institute, to develop and manufacture the products, including through conduit slab gate valves, ball valves, orifice type pressure measuring equipments for nature gas treatment, transportation and distribution. After devoting the marketing, because of the reasonable design, excellent performance, and good quality, the products made by our company has been used to main natural gas collection, transportation pipeline, and treatment station in Sichuan district, the market of our products has been enlarged rapidly and the products has been used to national mayor oil & gas company, and its usage range has been enlarged to petroleum, finished oil, crude oil, waste water, etc. The suitable temperature range of the valves has been enlarged from low temperature to high temperature.

In 1993, the valve manufacturing scale was augmented increasingly, with nice market foreground, valve branch plant became to valve plant to be professionally in charge of design and manufacturer of valve products, special processing treatment and sealing parts for aviation rubber, etc. through group manufacturing lines. In order to meet marketing demand and improve our quality management level, the valve branch plant joined the China Valve Industries Association in 1996, and been awarded the ISO9001 certificate issued by Det Norske Veritas (DNV) and passed the replacement of version of DNV ISO9001:2000 Quality System in 2005. Except for this point, based on the quality intention of our factory –'Zero Defect, Excellent Quality', our factory acquired the 'Manufacturer License of Special Equipment' issued by General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China in January 2003 and acquired 'Certificate of Conformity of Occupational Health and Safety Management System Certification' issued by CNAS in 2007. In 2009, the company had been awarded API 6D certificate (License No.: 6D-0703).

In December 2004, the valve branch plant renamed Chengdu Holy Valve & Complete Equipment Co., Ltd.



★ ABOUT COMPANY

The covering area of the valve company is about 15,000 square meters and there are more than 200 employees in our company, including 10 mechanical engineering technicians with senior title and 26 mechanical engineering technicians with middle and primary title. The company owns over 200 sets kinds of large and common equipments, including processing centers, CNC lathes, large vertical lathe, general lathe, milling machine, boring machine, surface grinder, cylindrical grinder, rubber vulcanization machines, large type nitriding furnace, etc.

★ PRODUCTS RANGE

The company has adopted computer-aided to design products, the key pieces for stress analysis, and fully guarantee its structure and the stress distribution is reasonable and reliable. Good quality tracking system to enhance the technical level and product quality to provide a fundamental guarantee. The valves designed by our company were acquired many national patents. The major products provided by our company are below:

Name of Products	Nominal Diameter (mm/inch)	Nominal Pressure (MPa/Lbs)	Suitable Temperature (°C)	Remark
Slab Gate Valve With or Without Guiding hole	DN25~1500 (1"~60")	PN1.6~42 (class150~2500)	-101~350	HOV,BGO,MOV
Steel Ball Valve	DN50~1200 (1/2"~48")	PN1.6~25 (class150~1500)	-46~250	HOV,AOV,MOV
Advanced Valve Type Orifice Plate Pressure Device	DN50~700 (2"~28")	PN1.6~16 (class150~900)	-46~121	Patent Products
Simple Valve Type Orifice Plate Pressure Device	DN50~700 (2"~28")	PN1.6~16 (class150~900)	-46~121	/
Under Ground Slab Gate Valve	DN50~700 (2"~28")	PN1.6~16 (class150~900)	-29~121	(Patent Products) HOV, BGO
Wedge Gate Valve	DN50~1000 (2"~40")	PN1.6~42 (class150~2500)	-101~350	HOV,AOV,MOV
Double Acting Throttle & Globe Valve	DN20~250 (3/4"~10")	PN1.6~16 (class150~900)	-29~121	HOV
Valve Case Type Drain Valve	DN20~250 (3/4"~10")	PN1.6~16 (class150~900)	-29~121	HOV
Under Ground PE Ball Valve	DN50~200 (2"~8")	≤0.4	-60~60	(Patent Products) HOV

Note 1: Except underground PE ball valve, all the other valves mentioned above are of non-sulphur resistant type, sulphur resistant type, and high sulphur resistant type.

Note 2: Abbre. Explanation

MOV: Motor Operated Valve

HOV: Handwheel Operated Valve,

BGO: Bevel Gear Operated Valve,

AOV: Actuators Operated Valve (Electric, pneumatic, hydraulic, etc various actuators upon request)



★ MAJOR BUSINESS

Our company is the first class member of valve supplier net of CNPC, SINOPEC and CNOOC, our products are widely used in China mayor oil & gas field, like Sichuan Oil & Gas Field, Xinjiang Oil & Gas Field, Qinghai Oil & Gas Field, Changqing Oil & Gas Field, Daqing Oil & Gas Field, North China Oil & Gas Field, Jianguo Oil & Gas Field, Shengli Oil & Gas Field and West China Petroleum Corporation, etc.

The main products that we supplied to: National Pivot Project – West to East Gas Transportation Pipeline Project, China to Russian Crude Oil Pipeline Project , Lanzhou-Zhengzhou-Changqing Oil Transportation Pipeline Project, Daqing – Tieling Pipeline Capacity Expansion Rebuilding Project and Oil Tank, Shilan-Huiyin Oil Transportation Pipeline Project, Shangxi-Beijing Gas Transportation Pipeline Project, Zhongxian-Wuchang Gas Transportation Pipeline Project, Shebei-Ningxia-Lanzhou Gas Transportation Pipeline Project, Cangzhou-Zibo Gas Transportation Pipeline Project, Shanshan-Urumqi Gas Transportation Pipeline Project, Qinghai Shebi-Geermu Gas Transportation Pipeline Project, and gas transportation & distribution project of the coal gas company in mayor cities in China, such as Beijing, Kunming, Xi'an, Chongqing, Guangzhou, Chengdu, etc. We also supplied valves to **Viramgam Kandla Pipeline Project of Indian Oil Corporation Limited, Kazakhstan Hope Oil Field Oil Transfer Station of Xinjiang Petroleum Engineering Construction Co., Ltd. Niger Agadem Field Crude Oil Pipeline Project and Chad Permit H Crude Oil Transportation Pipeline Project of China Petroleum Pipeline Material And Equipment Corporation.**

★ COMPANY CULTURE

Our Business Intention ——Quality Creates Brand, Innovation Accelerates Development, Management Rewards Yield, Performance Pursues Excellence

Our Goal —— Contributing The Inexhaustible Power To The Customers

Our Quality Intention —— No Defect, Excellent Quality

Our Consciousness Idea —— Crisis, High-quality Products, and Beyond

We sincerely thank our customers and friends for your persistent supply and trust. Face to the future, we purpose to improve the product quality and strengthen the cooperation with the customers with more zealous service and agiler system to make the bigger contribution to the construction of oil and gas industries at home and abroad.



Chengdu Holy Valve is one of the biggest and best professional valve manufacturers and measurement systems in China. We are the leading provider of valves and measurement systems to oil and gas industry and general industrial applications. We commit to supply products with excellent quality and suitable price to our customers to enhance our customers' working site safety, system stability and convenient operation. The valves provided by our company have enough safety design, service life and reliable operation.



● ALLPICABLE STANDARDS AND CODES

Chengdu Holy wedge gate valves are designed, manufactured and tested in accordance with API, ANSI and ASME requirements. The following list contains the most important applicable standards. Chengdu Holy valves may be produced in accordance with other standards upon customers' request.

ANSI-American National Standard Institute

- ASME B 1.20.1 Pipe Threads, General Purpose
- ASME B 16.5 Steel Pipe Flanges And Flanged Fittings
- ASME B 16.10 Face-To-Face And End-To-End Dimensions Of Ferrous Valves
- ASME B 16.25 Butt Welding Ends
- ASME B 16.34 Steel Valves-Flanged And Butt Welding Ends
- ASME B 16.47 Larger Diameter Steel Flange (26"~60")
- ASME B31.3 Technics Pipeline
- ASME Boiler And Pressure Vessel Code, Section VIII, Division 1, Rules For Construction Of Pressure Vessel

API-American Petroleum Institute

- API 600 Bolted Bonnet Steel Gate Valves for Petroleum and Natural Gas Industries
- API 6FA Specification For Fire Testing Of Valves
- API 607 Fire Test For Soft Seated Quarter-Turn Valves
- API Q1 Quality Program
- API 5B EUE External Upset Tubing Threads
- API 598 Valve Inspection And Test
- NACE National Association Of Corrosion Engineers
- MR0175 Sulfide Stress Cracking Resistant Metallic Materials For Oil Field Equipment (Superceded By ISO15156)

ISO9001-International Organization for Standardization

- ISO 9001 Quality Systems - Model For Quality Assurance In Design, Development, Production, Installation And Servicing
- ISO 15156 Materials For Use In H₂S Containing Environment In Oil & Gas Production
- ISO 5221-1 Executive Institution Accessories Of Quarter-Turn Valves, Section 1: Flange Dimension
- ISO 5221-2 Executive Institution Accessories Of Quarter-Turn Valve, Section2: Capability Character Of Flange And Connector
- ISO 5221-3 Executive Institution Accessories Of Quarter-Turn Valves, Section3: The Dimension Of Drive Parts
- ISO 10479 Valve Test: Fire-Proof Test Requirement

- MSS SP-6 Standard Finishes For Contact Faces Of Pipe Flanges And Connecting-End Flanges Of Valves And Fittings
- MSS SP-25 Standard Marking System For Valves, Fittings, Flanges And Unions
- MSS SP-55 Quality Standard For Steel Castings
- MSS SP-45 Bypass, And Drain Connections Standard
- MSS SP-53 Cast Steel Quality Standard Of Valve, Flange, Fitting And Pipeline Accessories --- Magnetic Particle Testing
- MSS SP-54 Cast Steel Quality Standard Of Valve, Flange, Fitting And Pipeline Accessories—Radiographic Testing
- MSS SP-93 Cast Steel And Forged Steel Quality Standard Of Valve, Flange, Fitting, And Pipeline Accessories ---- Liquid Penetrant Testing



● STANDARD FEATURES OF WEDGE GATE VALVES

1. Main Adopt Standards

- (1) Design and manufacture as per API 600 , API 602, ASME B16.34.
- (2) Flanged ends dimension as per ASME B 16.5(NPS2~24),
ASME B16.47(NPS >24) , MSS-SP-44(NPS 22).
- (3) Welded ends dimension as per ASME B16.11.
- (4) Threaded ends dimension as per ASME B1.20.1.
- (5) End-to-end dimension as per ASME B16.10.
- (6) Pressure test as per API 598.

2. Connection between body and bonnet

- (1) For CI150~CI900: bolted bonnet construction;
- (2) For CI1500~CI2500: pressure seal bonnet construction.

3. Driving design

Valve drive usually has manual or gear operation, according to customer requirements can choose pneumatic, electric, etc.

4. Stem packing

We usually uses expanded graphite to make stem packing. Based on customer requirements, PTFE or other materials can also be used. The surface area of the stuffing box in contact with the packing has an accuracy of Ra 3.2um. The surface of the valve stem in contact with the packing is finely ground by a grinder, its surface finish is (Ra 0.8 um) to ensure effective sealing between the valve stem and the packing.

5. Back seat design

All gate valves of our company are equipped with upper sealing structure. For stainless steel gate valves, the upper seal is directly processed on the valve cover. As for the carbon steel gate valve, the upper seal is a separate structure, which is fitted on the valve cover through threads. This ensures that the sealing performance of the upper seal will be very reliable when the valve is in the fully open position. According to the requirements of API 600, a sealing structure is provided between the valve stem and the bonnet. However, it cannot be understood as a recommendation and suggestion by the manufacturer that the packing can be added or replaced by the upper seal when the valve is under pressure.

6. Seats

For carbon steel gate valves, forged steel is usually used for the valve seat. The seat sealing surface



can be welded with alloy steel or hard alloy according to customer requirements.

For stainless steel gate valves, an integral valve seat is usually used, or it is directly welded with hard alloy.

7. Stem

The stem is adopted with an integral forged steel design. The minimum size should meet the requirements of API600 standard. The stem is connected to the gate by a T-shaped structure, and the strength of the connection is greater than the trapezoidal thread part of the stem.

8. Yoke

Generally, for NPS2 to NPS8 gate valves, the yoke should be integral type, for gate valve size above NPS 10", the yoke should be split type.

9. Stem Nut

Generally, the stem nut is made of aluminum bronze alloy. It can also be manufactured in accordance with ASTM A439 D2 according to user requirements.

10. Optional Material

According to customer requirements, our company will select the material suitable for the corresponding medium according to the different working conditions.

Material	Minimum Temperature		Maximum Temperature	
	°F	°C	°F	°C
A216 WCB	-20	-29	800	427
A217 WC1	-20	-29	800	427
A217 WC6	-20	-29	1100	593
A217 WC9	-20	-29	1100	593
A217 C5	-20	-29	1200	649
A217 C12	-20	-29	1200	649
A352 LCB	-50	-46	650	343
A352 LCC	-50	-46	700	371
A352 LC1	-75	-59	700	371
A352 LC2	-100	-73	750	343
A352 LC3	-450	-101	650	340
A351 CF8M	-425	-254	1500	816
A351 CF3M	-425	-254	850	454



● **STANDARD MATERIALS FOR CAST STEEL WEDGE GATE VALVES**

Part Name	WCB Series	304 Series	316 Series	CrMoV Series	Low temp. Series	Anti-sulfur series
Body	A216 WCB	A351-CF8 -CF3	A351-CF8M -CF3M	A217-WC6 -WC9 -C5 -C12A	A352-LCB -LCC	A351-CF8M
Bonnet						
Wedge Gate						
Seat Ring	A105	A182-F304 -F304L	A182-F316 -F316L	A182-F11 F22 -F5	A350-LF2	A182-F316
Seat Seals	See attachment below					
Body-Bonnet Gasket	304+Graphite					
Bolt	A193-B7	A193-B8	A193-B8	A193-B16	A320-L7	A193-B7
Nut	A194-2H	A194-8	A194-8	A194-4	A194-4	A194-B7
Stem Packing	Flexible Graphite					
Stem Nut	A439-D2/ZQAL9-4					

Note: Other materials can be selected based on customer requirements.

● **STANDARD MATERIALS FOR FORGED STEEL WEDGE GATE VALVES**

Part Name	A105 Series	304 Series	316 Series	CrMoV Series	Low temp. Series
Body	A105	F304/F304L	F316/F316L	F5/F11/F22	LF2
Bonnet					
Wedge Gate	A105/F6a	F304/F304	F316/F316L	A276-420	A276-420
Seat Ring	A276-410	F304/F304L	F316/F316L	A276-410	A276-410
Seat Seals	See attachment below				
Body-Bonnet Gasket	304+Graphite				
Bolt	A193-B7	A193-B8	A193-B8M	A193-B16	A320-L7
Nut	A194-2H	A194-8	A194-8	A194-4	A194-4
Stem Packing	304+Graphite				
Stem Nut	A276-410				

Note: Other materials can be selected based on customer requirements.



Attachment: Seals Material

Part Name	Trim No.	Material Category	Hardness
Stem *1)	1 and 4~8A	13Cr	200HB~275HB
	2	18Cr-8Ni	*3)
	3	25Cr-20Ni	*3)
	9 or 11	NiCu Alloy	*3)
	10 or 12	18Cr-8Ni-Mo	*3)
	13 or 14	19Cr-29Ni	*3)
Seat Seals *2)	1	13Cr	≥250HB
	2	18Cr-8Ni	*3)
	3	25Cr-20Ni	*3)
	4	13Cr	≥750HB
	5 or 5A	HF	≥350HB
	6	13Cr/	≥250HB
		CuNi	≥175HB
	7	13Cr	≥250HB
	8 or 8A	13Cr	≥250HB
		HF	≥350HB
	9	NiCu Alloy	*3)
	10	18Cr-8Ni-Mo	*3)
	11 or 11A	NiCu Alloy	*3)
	12 or 12A	18Cr-8Ni-Mo/	*3)
	13	19Cr-29Ni	*3)
14 or 14A	19Cr-29Ni	*3)	
	HF	≥350HB	

*1) Stem should be made by forged steel

*2) For trim no. 1 and 4~8A, the minimum hardness of back seat should be 250HB.

*3) Not specified.

1 Cr=Chromium Ni=Nickel Co=Cobalt 钴 Mo=Molybdenum

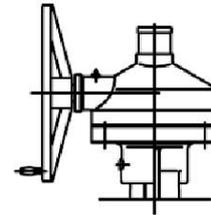
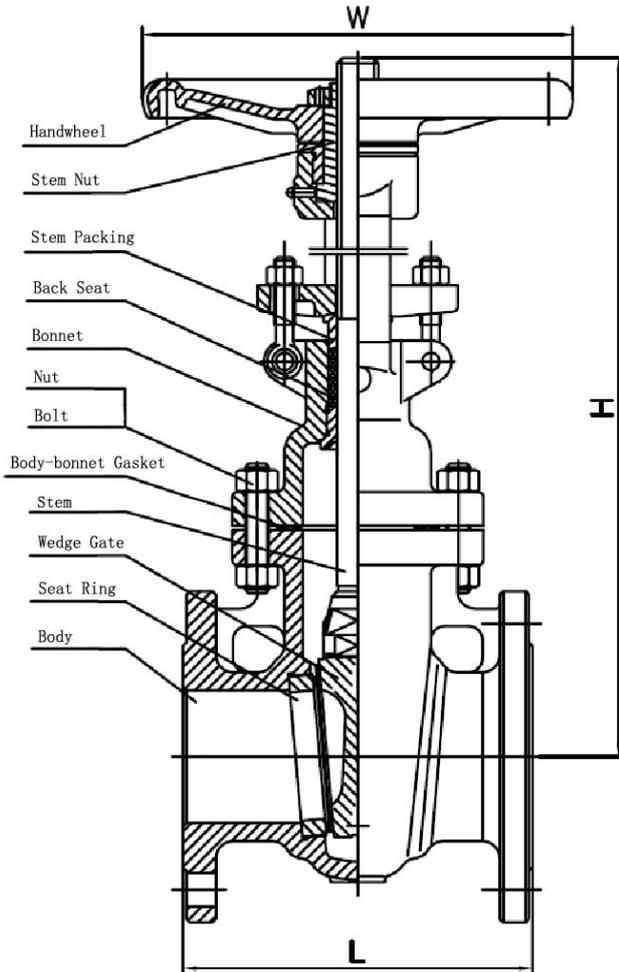
2 HF=CoCr or NiCr Hardfacing of welding alloys, Suffix with A is suitable for NiCr.

3 Free-cutting steel 13Cr is prohibited.

4 For trim No.1, hardness difference between mating surface should be not less than 50HB.



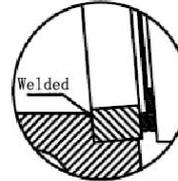
Cast Steel Class 150



$\geq 10''$ Split Type Bonnet-Yoke



$>10''$ Welded Seat Ring



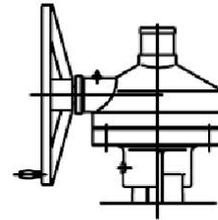
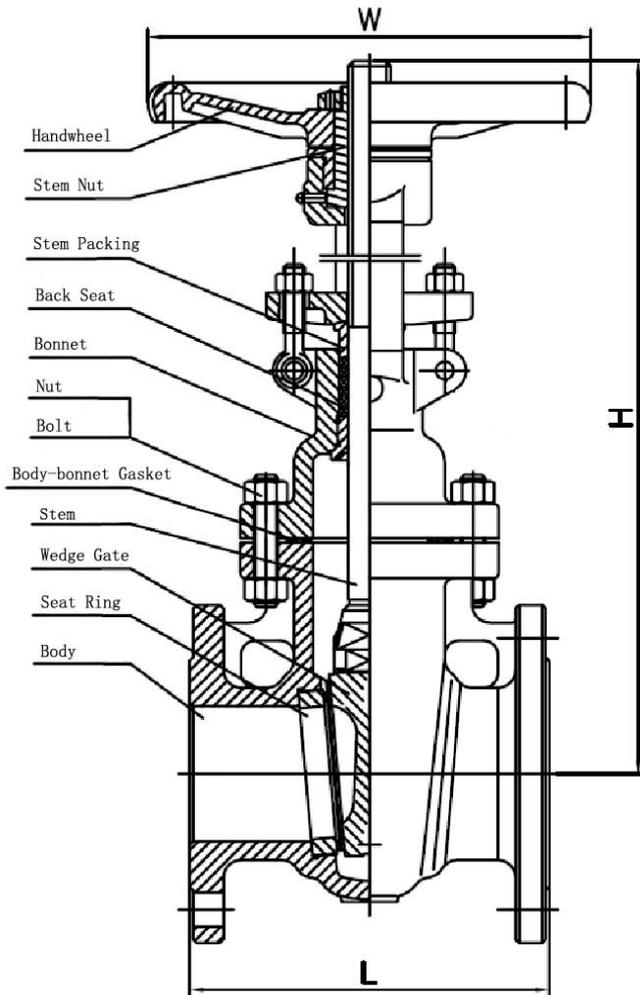
Overall Dimensions:

NPS	in	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24	28	30	32	36
DN	mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	750	800	900
L	in	7	7.5	8	9	10	10.5	11.5	13	14	15	16	17	18	20	24	24	26	28
(RF)	mm	178	190	203	229	254	267	292	330	356	381	406	432	457	508	610	610	660	711
H	in	16	18.5	20	24	28	32	39	47	55.3	63.5	71	18	87	106	119	130	137	150
(Open)	mm	409	472	532	612	710	806	990	1186	1405	1615	1811	1986	2210	2698	3030	3317	3487	3825
W	in	7.8	7.8	9.8	9.8	11.8	11.8	13.7	17.7	19.7	18.1	18.1	18.1	24*	24*	24*	24*	24*	30*
	mm	200	200	250	250	300	300	350	450	500	460	460*	460*	610*	610*	610*	610*	610*	760*
WT	Kg	20	30	36	53	71	85	136	220	323	387	553	660	810	1250	1930	2380	2490	3600

Note: * means the handwheel dimension of gearbox.



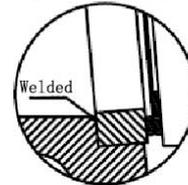
Cast Steel Class 300



$\geq 10''$ Split Type Bonnet-Yoke



$>10''$ Welded Seat Ring



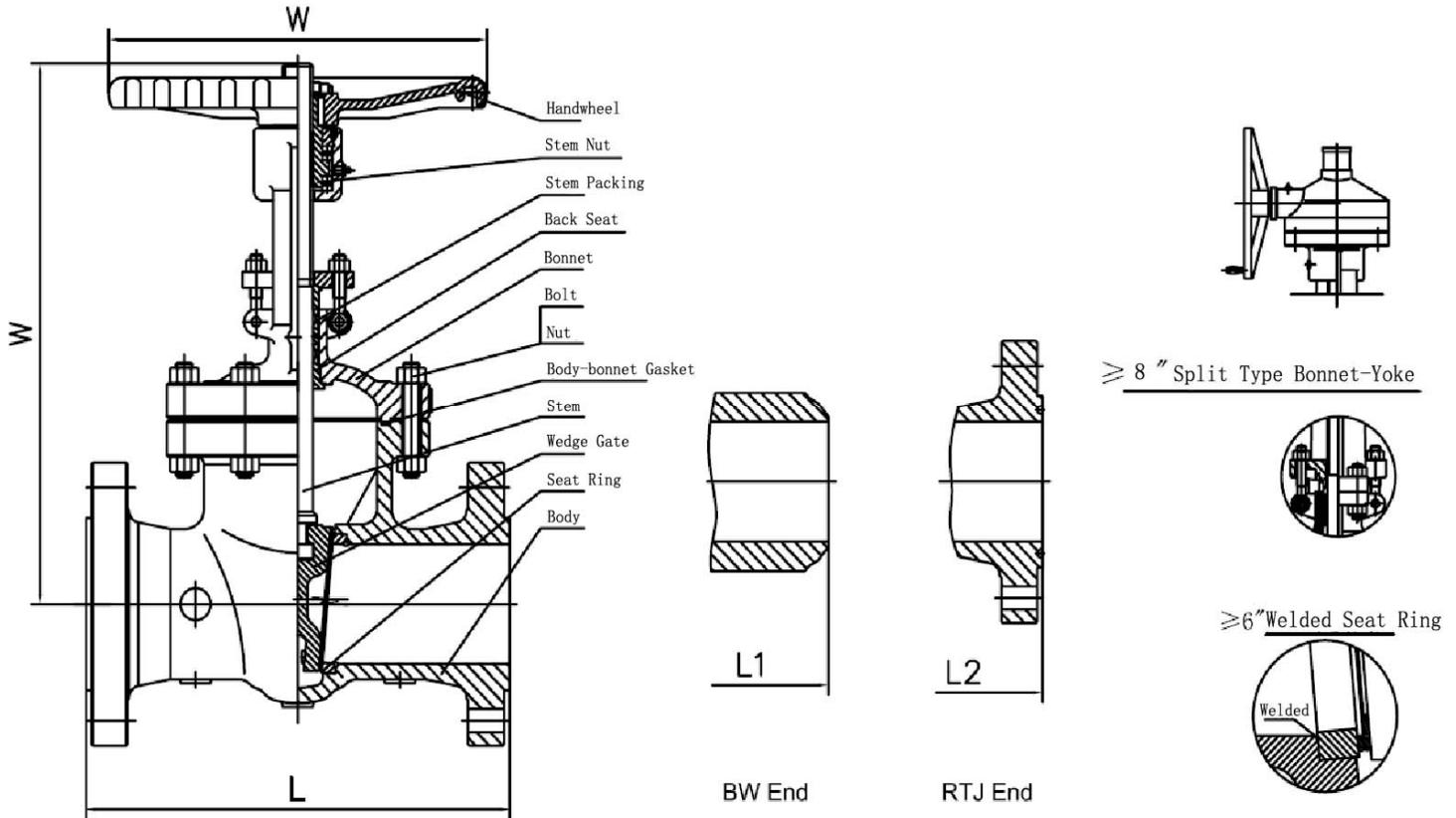
Overall Dimensions:

NPS	DN	in	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24	28	30	32	36
		mm	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	750	800	900
L (RF)	in	8.5	9.5	11.12	12	15	15.8	16.5	18	19.7	30	33	36	39	45	54	55	61.1	68	
	mm	216	241	283	305	381	403	419	457	502	762	838	914	991	1143	1372	1397	1553	1727	
H (Open)	in	15.7	18.7	21.4	25.6	30.3	34.6	40.8	50.2	56.6	65	72.4	79.9	88.2	114.2	122	139.8	152	169.7	
	mm	400	477	543	650	770	880	1037	1275	1438	1650	1840	2030	2240	2900	3100	3540	3860	4312	
W	in	7.8	9.8	9.8	11.8	11.8	13.7	17.7	19.7	22	18.1	18.1	24*	24*	24*	24*	30*	30*	30*	
	mm	200	250	250	300	300	350	350	500	560	460*	460*	610*	610*	610*	610*	760*	760*	760*	
WT	Kg	26	34	47	68	77	118	195	271	432	595	848	1025	1460	2294	2870	3220	3675	4490	

Note: * means the handwheel dimension of gearbox.



Cast Steel Class 600



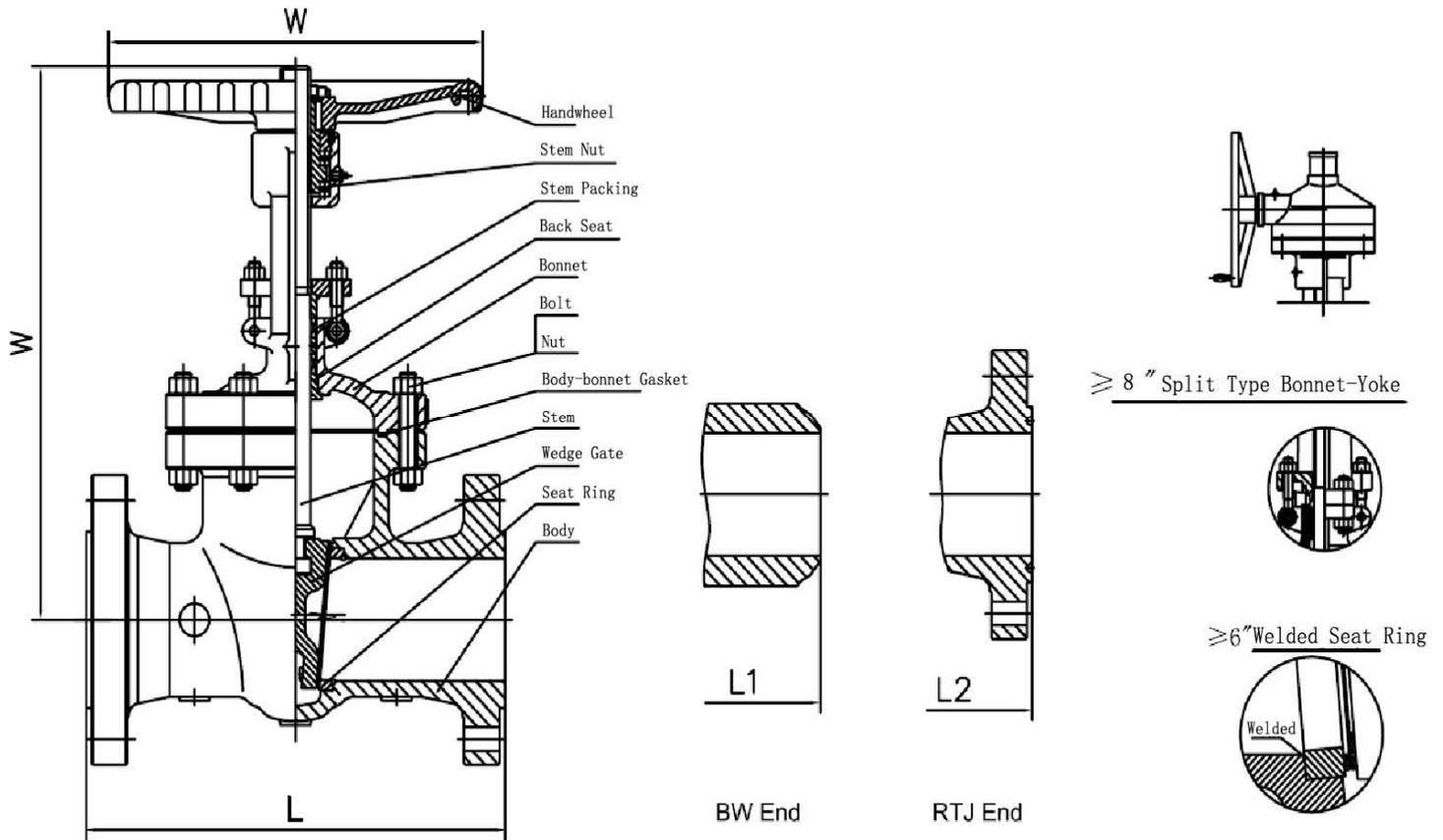
Overall Dimension:

NPS	in	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24
	DN	mm	50	65	80	100	125	150	200	250	300	350	400	450	500
L-L1 (RF-BW)	in	11.5	13	14	17	20	22	26	31	33	35	39	43	47	55
	mm	292	330	356	432	508	559	660	787	838	889	991	1092	1194	1397
L (RTJ)	in	11.6	13.1	14.1	17.1	20.1	22.1	26.1	31.1	33.1	35.1	39.1	43.1	47.2	55.4
	mm	295	333	359	435	511	562	663	790	841	892	994	1095	1200	1407
H (Open)	in	18.6	21.7	23.4	28	30.3	38.2	44.2	52.4	59.8	68.1	72.7	90.1	98.8	119
	mm	474	553	593	713	770	970	1122	1330	1519	1730	1835	2290	2510	3022
W	in	9.88	9.88	11.8	13.7	15.7	19.7	22	28.4	24*	24*	24*	24*	30*	30*
	mm	250	250	300	350	400	500	560	720	610*	610*	610*	610*	760*	760*
WT	RF	41	58	88	131	210	253	413	623	784	1288	1820	2150	2540	4080
(Kg)	BW	35	50	68	104	192	208	328	496	637	1120	1448	1828	2201	3360

Note: * means the handwheel dimension of gearbox.



Cast Steel Class 900



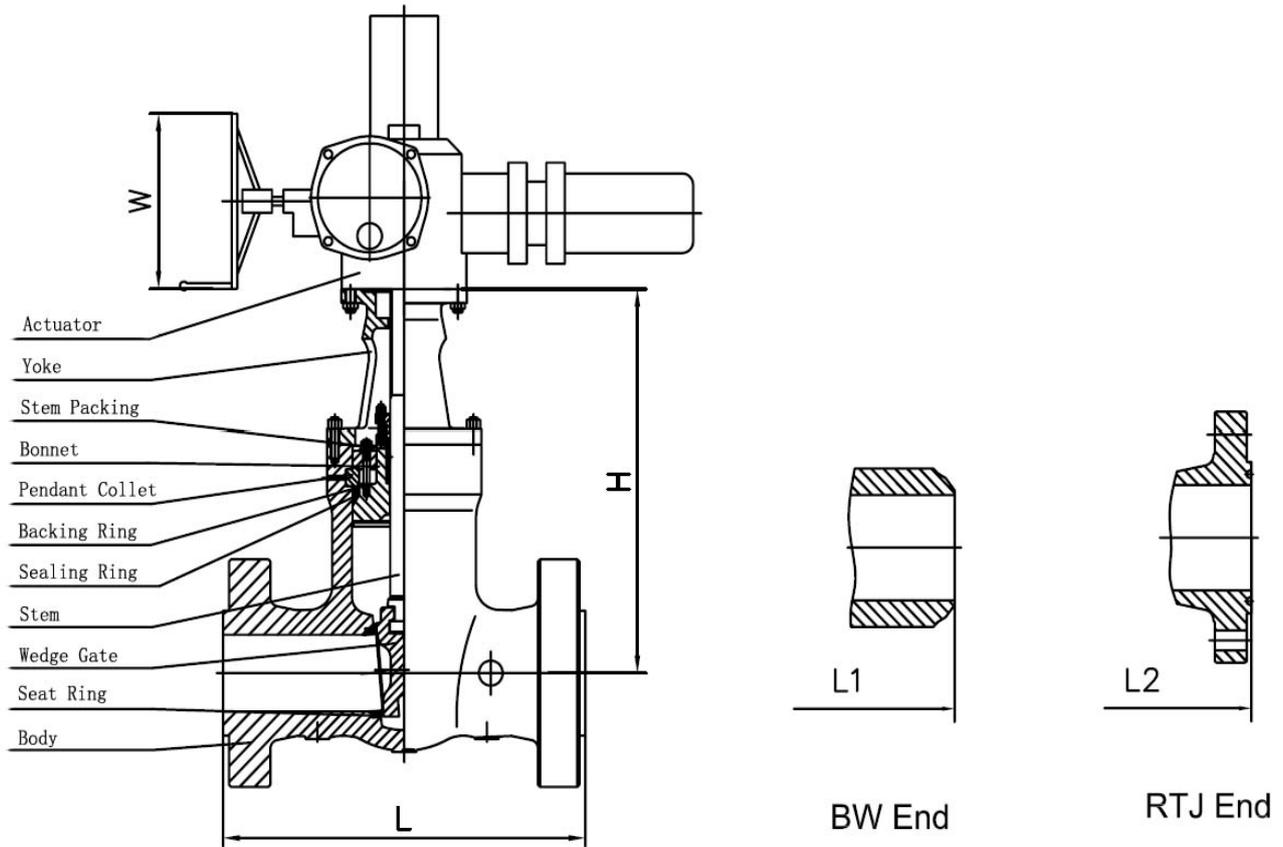
Overall Dimension:

NPS	in	2	2 1/2	3	4	6	8	10	12	14	16
	DN	mm	50	65	80	100	150	200	250	300	350
L-L1 (RF-BW)	in	14.5	16.5	15	18	24	29	33	38	40.5	44.5
	mm	368	419	381	457	610	737	838	965	1029	1130
L (RTJ)	in	14.6	16.6	15.1	18.1	24.1	29.1	33.1	38.1	40.8	44.8
	mm	371	422	384	460	613	740	841	968	1038	1140
H (Open)	in	21.5	23.4	25.5	28.6	41	49.6	62.6	70.6	79.7	52.4
	mm	548	595	648	729	1041	1260	1590	1795	2025	2170
W	in	11.8	13.7	15.7	17.7	22	25.6	24*	24*	30*	30*
	mm	300	350	400	450	560	650	610*	610*	760*	760*
WT	RF	90	110	123	148	420	650	1160	1700	2300	2750
(Kg)	BW	82	93	108	122	359	566	980	1450	2000	2390

Note: * means the handwheel dimension of gearbox.



Cast Steel Class 1500



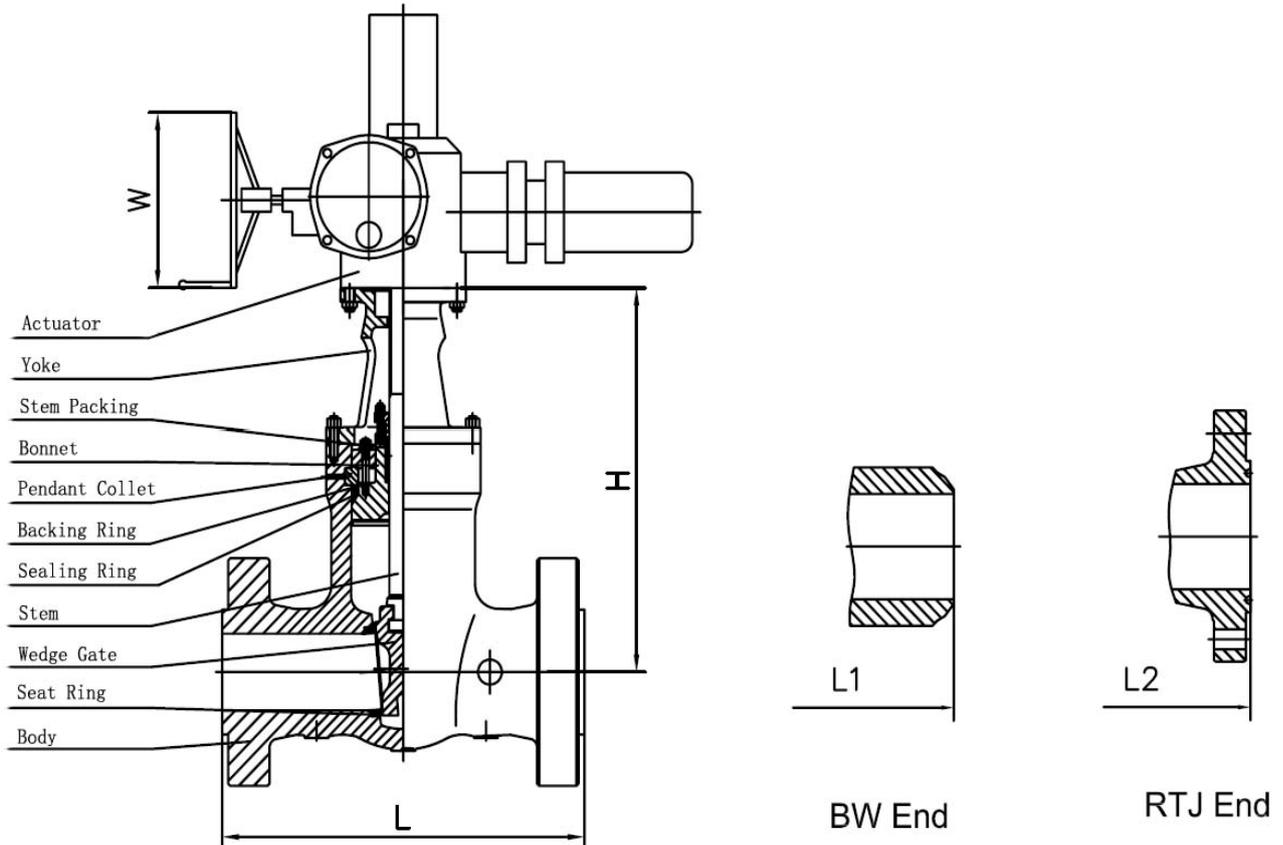
Overall Dimension:

NPS	in	2	2 1/2	3	4	6	8	10	12	14	16
	DN	mm	50	65	80	100	150	200	250	300	350
L-L1 (RF-BW)	in	14.5	16.5	18.5	21.5	27.7	32.7	39	44.5	49.5	54.5
	mm	368	419	470	546	705	832	991	1130	1257	1384
L (RTJ)	in	14.6	16.6	18.6	21.6	28	33.1	39.4	45.1	50.2	55.3
	mm	371	422	473	549	711	841	1000	1146	1276	1407
H (Open)	in	22.6	27.5	31.7	34.9	42.5	53.9	59.8	65	76.6	88.6
	mm	575	700	806	887	1080	1370	1519	1651	1945	2250
W	in	13.7	15.7	17.7	22	23.4	24*	30*	30*	30*	30*
	mm	350	400	450	560	720	610*	760*	760*	760*	760*
WT	RF	117	175	240	337	680	765	1160	1990	2650	3490
(Kg)	BW	93	144	185	285	584	518	855	1210	2000	2425

Note: * means the handwheel dimension of gearbox.



Cast Steel Class 2500



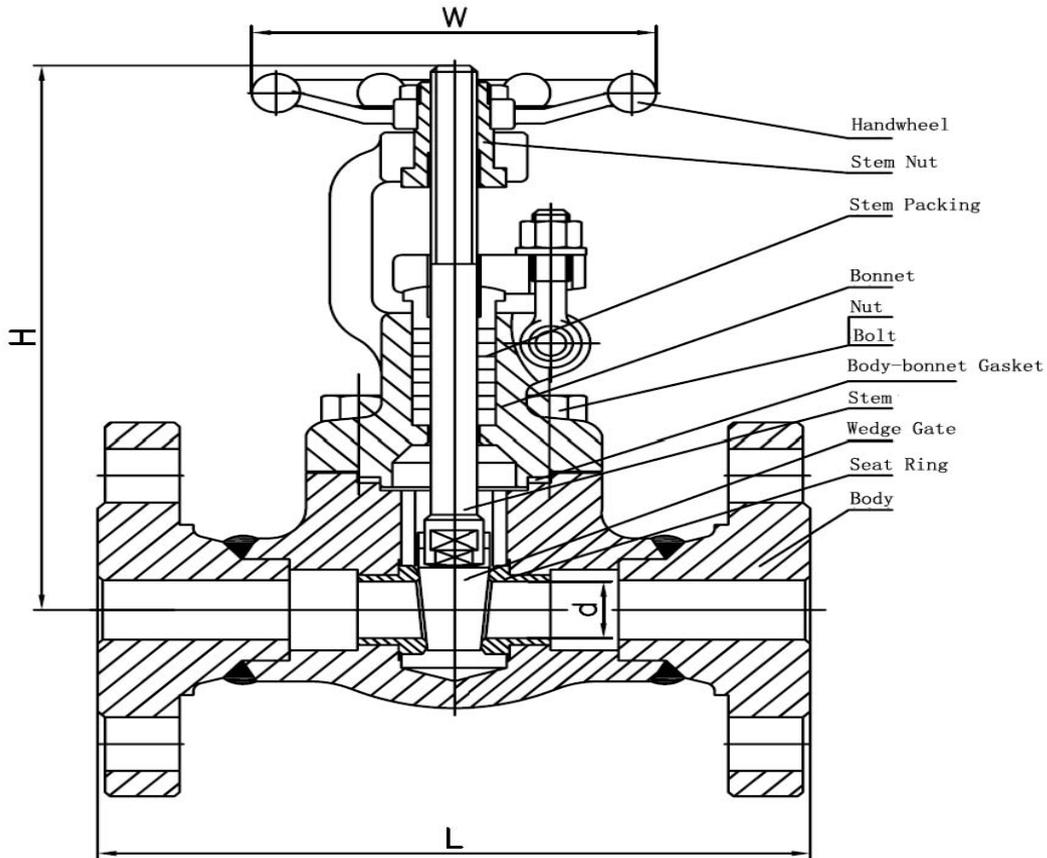
Overall Dimension:

NPS DN	in	2	2 1/2	3	4	6	8	10
	mm	50	65	80	100	150	200	250
L-L1 (RF-BW)	in	17.5	20	22.75	26.5	36	40.25	50
	mm	451	508	578	673	914	1022	1270
L (RTJ)	in	17.87	20.25	23	26.88	36.5	40.87	50.88
	mm	454	514	584	683	927	1038	1292
H (Open)	in	27.56	29.5	34.63	42.5	53.94	60.25	80.5
	mm	700	750	887	1079	1370	1530	2045
W	in	13.7	17.7	22	28.3	18.1*	24*	30*
	mm	350	450	560	720	460*	610*	760*
WT	RF	132	206	256	498	1550	2395	4460
(Kg)	BW	99	155	192	390	1230	1980	3700

Note: * means the handwheel dimension of gearbox.



Forged Steel Class 150/300

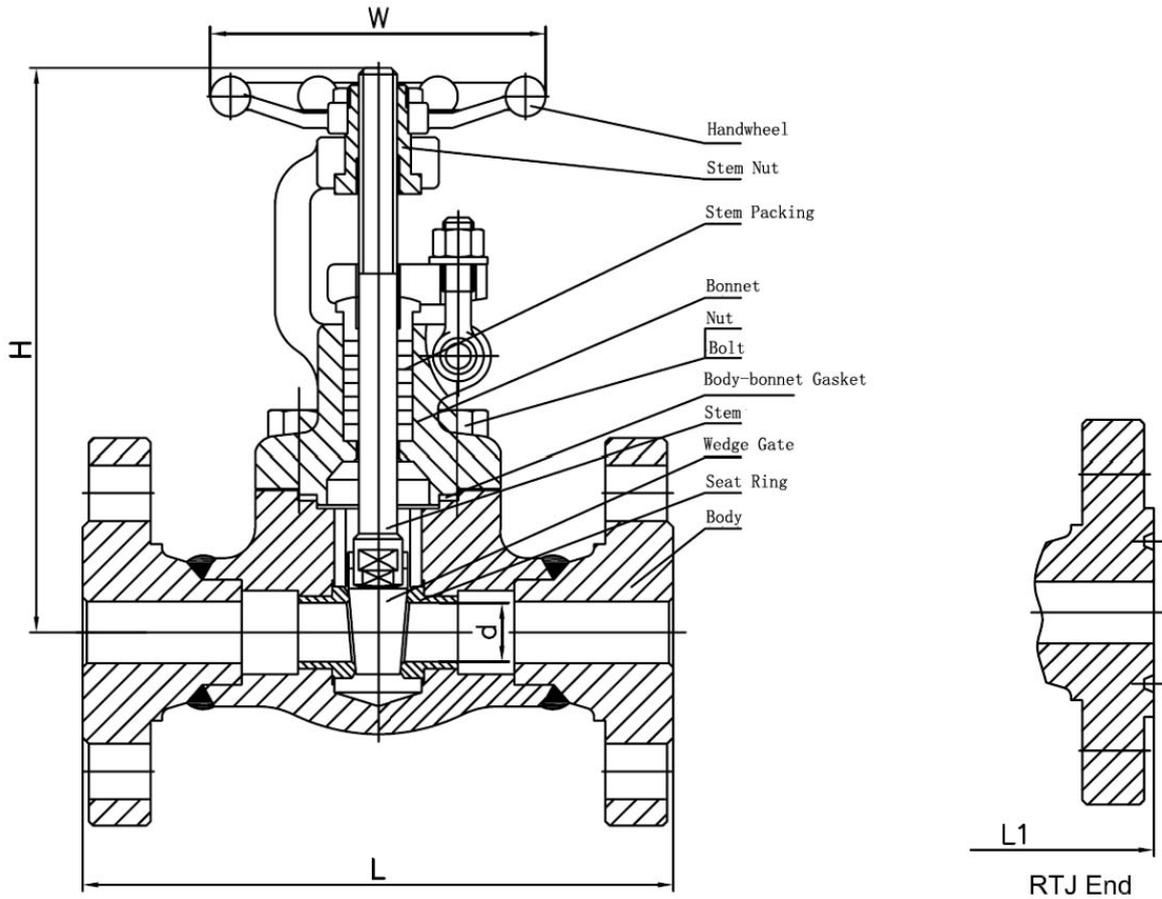


Overall Dimension:

NPS DN		in	1/2	3/4	1	1 1/4	1 1/2	2
		mm	15	20	25	32	40	50
L (RF)	Class 150	in	4 1/4	4 5/8	5	5 1/2	6 1/2	7
		mm	108	117	127	140	165	178
	Class 300	in	5 1/2	6	6 1/2	7	7 1/2	8 1/2
		mm	140	152	165	178	190.5	216
H (Open)		in	6.5	6.7	7.6	9	9.7	11.4
		mm	165	170	194	230	246	289
W		in	3.9	3.9	4.9	6.3	6.3	7
		mm	100	100	125	160	160	180
WT	Class 150	Kg	4.6	5.2	8.2	11.5	12.5	20.3
	Class 300	Kg	4.9	6.2	9.3	14	15.5	23.4



Forged Steel Class 600

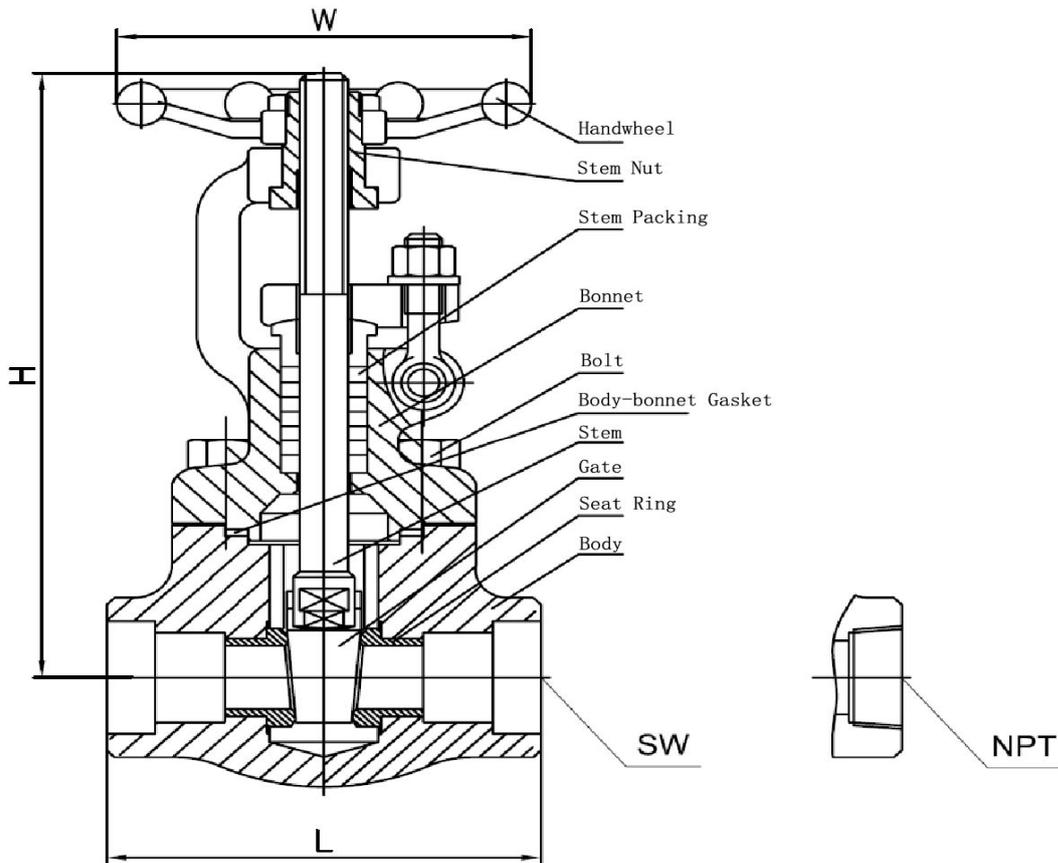


Overall Dimension:

NPS DN	in	1/2	3/4	1	1 1/4	1 1/2	2
	mm	15	20	25	32	40	50
L (RF)	in	6.5	7.5	8.5	9	9.5	11.5
	mm	165	190.5	216	229	241	292
L (RTJ)	in	6.4	7.5	8.5	9	9.5	11.6
	mm	163.5	190.5	216	229	241	295
H (Open)	in	6.5	6.7	7.6	9	9.7	11.4
	mm	165	170	194	230	246	289
W	in	3.9	3.9	4.9	6.3	6.3	7
	mm	100	100	125	160	160	180
WT	Kg	6	7.4	10.4	16.2	17.5	28.3



Forged Steel Class 800

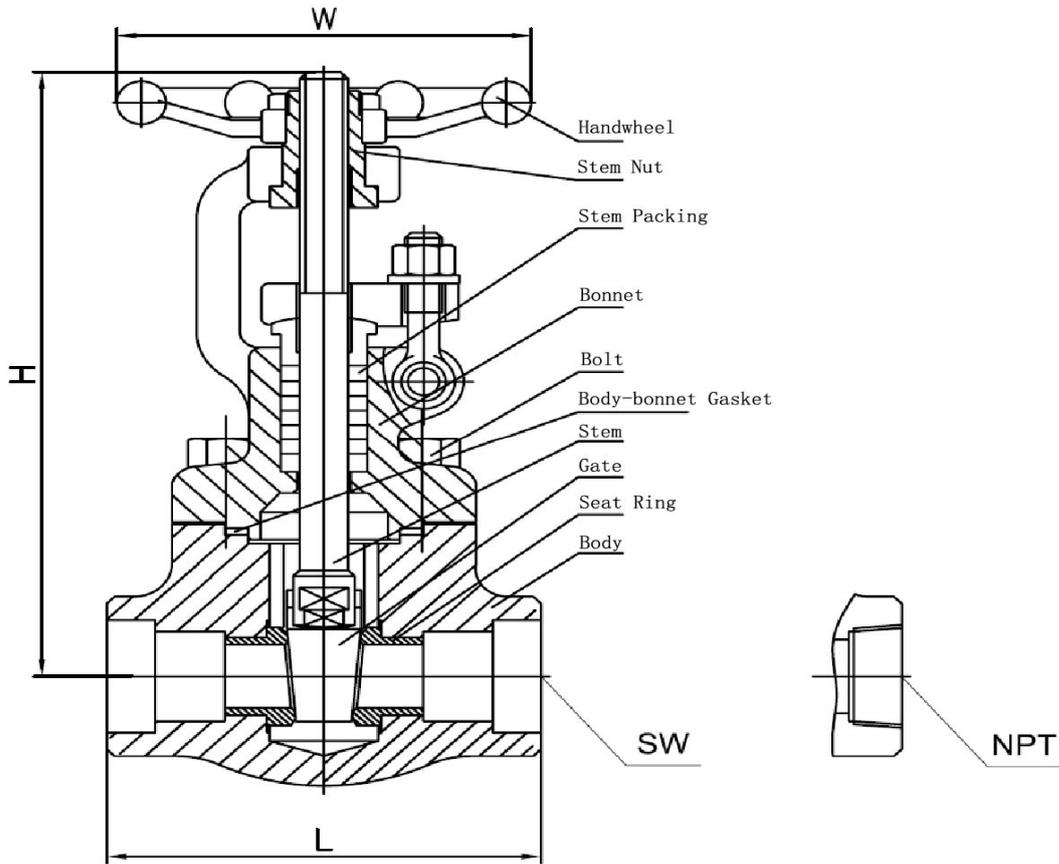


Overall Dimension:

NPS	in	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
	DN	mm	8	10	15	20	25	32	40	50	65
L	in	3.1	3.1	3.1	3.6	4.4	4.7	4.7	5.5	7	7.2
	mm	79	79	79	92	111	121	121	140	178	184
H (Open)	in	6.5	6.5	6.5	6.7	7.6	9.1	9.7	11.3	13	14.2
	mm	165	165	165	170	194	230	246	289	330	360
W	in	3.9	3.9	3.9	3.9	4.9	6.3	6.3	7	7.9	7.9
	mm	100	100	100	100	125	160	160	180	200	200
WT	Kg	2.3	2.2	2.1	2.3	4.1	6.2	7.8	11.2	15.8	20.5



Forged Steel Class 1500



Overall Dimension:

NPS DN	in	1/2	3/4	1	1 1/2
	mm	15	20	25	40
L	in	4.7	4.7	5.5	5.9
	mm	120	120	140	150
H (Open)	in	12.6	12.6	13.8	15.4
	mm	320	320	351	392
W	in	7	7	9.8	11.8
	mm	180	180	250	300
WT	Kg	11.5	12	16.7	24.6

CHENGDU HOLY VALVE & COMPLETE EQUIPMENT CO., LTD.

MAIN MANUFACTURING FACILITIES

SN	Name	Model and Specification	Qty
1	Single Arm Vertical Type Lathe	C5116A Ø1600	1
2	Single Arm Vertical Type Lathe	C5112A Ø1250	1
3	Vertical Type Lathe (4m)	CQX5240	1
4	Numerical Display Double Arm Vertical Type Lathe	CX5225/1 Ø2500	1
5	Large Type General Lathe	CW611001	1
6	Horizontal Type Processing Center	FBM-11025	1
7	Numerical Control Lathe	CAK63135D	2
8	Numerical Control Lathe	CAK4085DJ	1
9	Ball Surface Lathe	C6595/1500	1
10	Ball Surface Lathe	CR6532 Ø50~320	1
11	Numerical Display Lathe	CX616A-1 320×750	1
12	Numerical Display Lathe	CA6140 800×5000	2
13	General Lathe	C6140 400×1000	5
14	General Lathe	CW6180A 800×5000	1
15	Saddle Bed Lathe	CW6263B 630×750	1
16	Horizontal Type Boring Machine	TX68 Ø85	3
17	Floor Type Boring & Milling Machine	TX6213	1
18	Plano Milling Machine	X2012C 1250×4000	1
19	Vertical Type Knee Type Milling Machine	X53K 400×1600	2
20	Vertical Type Knee Type Milling Machine	X52K 320×1250	2
21	Vertical Type Knee Type Milling Machine	X5032 320×1320	2
22	Universal Knee Type Milling Machine	B1-400W 400×1600	3
23	Numerical Display Horizontal Type Knee Type Milling Machine	FX6045/1	1
24	Numerical Display Universal Knee Type Milling Machine	X6132/1	1
25	Slotting Machine	B5032	1
26	Numeral Control Lathe	180-CNC	5
27	Turning & Milling Processing Center	INTE200SY	1
28	Numeral Control Line Cutter	DK720	2
29	Numeral Control Water Knife Cutting Machine	CX5225	1
30	Universal Cylindrical Grinding Machine	M1432A Ø320×1500	1
31	Universal Cylindrical Grinding Machine	M1432B Ø320×1000	1
32	Universal Tool Grinding Machine	M6025C Ø250	1
33	Universal Tool Grinding Machine	M612K Ø200	1
34	Surface Grinding Machine With Horizontal Spindle And Rectangular Table	M7132H	1
35	Surface Grinding Machine With Horizontal Spindle And Rectangular Table	M7150A 500×2000	1
36	Plano Surface Grinding Machine	CC1-033	1
37	Cylinder Column Vertical Type Drilling Machine	Z525B Ø25	2
38	Radial Drilling Machine	Z3063 Ø63×2000	5



MAIN REFERENCE

- ★ **Indian Oil Corporation Limited**
Viramgam Kandla Pipeline Project
- ★ **Goodwell Engineering Ltd Part.**
Oil Pipeline of Thai Petroleum Pipeline Co., Ltd.
- ★ **China Petroleum Pipeline Material And Equipment Corporation:**
Chas Permit H Crude Oil Transportation Pipeline Project
Niger Agadem Field Crude Oil Pipeline Project
- ★ **Xinjiang Petroleum Engineering Construction Co., Ltd.**
Kazakhstan Hope Oil Field Oil Transfer Station
- ★ **China Petroleum Engineering Construction (Group) Company**
China to Kazakstan Oil Transportation Pipeline Project
- ★ **Zigong Rocky Union Valve Co., Ltd.**
Export to American, Mexico, etc.
- ★ **PetroChina Pipeline Co., Ltd.**
Shilan-Huiyin Oil Transportation Pipeline Project
Lanzhou-Zhengzhou-Changqing Oil Transportation Pipeline Project
China to Russian Crude Oil Pipeline Project
Qinhuangdao-Beijing Oil Transportation Pipeline Project
Renqiu--Beijing Oil Transportation Pipeline Project
Northeast China Pipeline Net
Daqing – Tieling Pipeline Capacity Expansion Rebuilding Project and Oil Tank
Dagang-Zaozhuang Oil Transportation Pipeline Project
Changling - Songlan Nature Gas Transportation Pipeline Project
Dalian- Xiaosonglan Oil Transportation Pipeline Project
- ★ **PetroChina Talimu Oil Field Co., Ltd.**
West To East Gas Transportation Pipeline Project
- ★ **PetroChina Talimu Oil Field Co., Ltd.**
Yingmaili Gas Field Project
- ★ **Xinjiang Oil Managing Bureau Material Provide Head Company**
West China Crude Oil and Finished Oil Pipeline Project
- ★ **Xuzhou Chengda Petroleum & Chemical Equipment Installation Co., Ltd.**
China Petroleum Ningbo Daxie Fuel Oil House Project
- ★ **China Petroleum Pipeline Materials & Equipment Corporation Pipeline Bureau**
West China Crude Oil and Finished Oil Pipeline Project
Lanzhou Commercial Oil Tank Project



CHENGDU HOLY VALVE & COMPLETE EQUIPMENT CO., LTD.





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