



# Contributing to safer and smarter pipe network flow control

Forged Valve

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Any change of data will not be informed separately.



Gate Valve



Globe Valve



Lift Check Valve



Swing Check Valve





EST.2012

# BRIEF INTRODUCTION

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Founded in 2012, KAMROO Holding Group is an innovative integrator focusing on "smart" manufacturing of valves. The core products are suitable for tough working applications such as low temperature, high temperature, high pressure, strong corrosion, and solids mixed medium. KAMROO products are suitable for industries such as Oil&Gas, Refinery, Chemical, Natural Gas, Power Plant, Metallurgy, Electronics, and new energy. The equivalent standards cover many industrial pipelines fields.

KAMROO strives to create an automation, digital, and intelligent platform, integrates profound technical accumulation and professional wisdom of the team. We also provide superior product support and technical services for domestic and international clients, as well as provide customized solutions for end user.

KAMROO adheres to customer-oriented principle and guarantees system compatibility. We will continue to maintain the attitude and belief of concentration and ingenuity, adhering to safer, more reliable and smarter pipeline flow control technology and advanced design concepts to help you optimize the working application, improve the efficiency and save the costs.

With a flexible and open attitude, KAMROO listens to the voice of the market and embraces multiculturalism. KAMROO focuses on the construction of a global service system, and strives to become the preferred partner in the field of flow control. No matter where you are in the world, we look forward to keeping in close contact with you to understand your specific needs and provide precise services.





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# QUALIFICATION CERTIFICATE



API 6D cert



API 6FA Cert



API 607 Cert



CE Cert



EAC Cert (CU-TR)



ISO 9001



ISO 14001



ISO 45001



ISO 15848-1  
Cert Ball valve

# FORGED STEEL GATE VALVE

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DESIGN STANDARDS	API602, ASME B16.34, ASME B16.5, ASME B16.11 ASME B1.20.1 etc.
SIZE RANGE	NPS1/2~NPS2, DN15~DN50
NOMINAL PRESSURE	CLASS150~CLASS2500
CONNECTION	RF, RTJ, SW, NPT etc.
MATERIALS	ASTM A105, ASTM A182 LF2, ASTM A182 F11, ASTM A182 F22, ASTM A182 F304, ASTM A182 F316, ASTM A182 F51, etc.
APPLICABLE TEMPERATURE	-29°C~425°C
APPLICABLE MEDIUM	Oil, Gas, Water, Steam, etc.
OPERATION	Handwheel, Pneumatic, Electric, etc.

## OUTSIDE SCREW AND YOKE

The external side of the stem is threaded, while the section inside the valve is plain. Valve stem threads are isolated from medium by packing, which keeps the stem threads outside the valve body to avoid damage from high temperatures, corrosives, and solids within the valve. The external screw can be maintained from the outside, making it the preferred choice for demanding applications.

## THREE BONNET DESIGNS

The first design is the Bolted Bonnet with male-female joint and spiral wound gasket, made in F304L/graphite. Ring joint gasket is available upon request. The second design is the Welded Bonnet with threaded and sealed welded joint. Full penetration strength welded joints are available upon request. The third design is the Pressure Sealing Bonnet, with the threaded and pressure seal bonnet joint.

## HIGH STRENGTH AND HARDNESS

The forged steel gate valves are made of high-strength steel. It has high strength and hardness after the professional forging process and heat treatment, which can withstand harsh working conditions such as high pressure and high temperature, ensuring the reliability and safety of the valve.

## CORROSION RESISTANCE

The forged steel gate valve is made of special corrosion-resistant alloy steel or stainless steel, which can be used for a long time in the environment of corrosive medium. The surface of the valve is specially treated and has good corrosion resistance, which can meet the needs of various industrial fields.

## RELIABLE SEALING

The forged steel gate valve adopts screw lifting structure design, which can prevent the leakage of the medium through the bidirectional sealing of the valve disc and the seat. The valve has reliable sealing performance and long service life, which is suitable for various medium and working conditions. The sealing surface is usually hardened or made of special alloy material, which has high wear resistance and corrosion resistance, extending the service life of the valve.

## EASY OPERATION

The forged steel gate valve is simple and compact in structure and easy to operate. The opening and closing operation can be realized quickly by simply rotating the handle, which can quickly cut off or adjust the flow of the fluid.

## COMPACT STRUCTURE

The forged steel gate valve is usually designed to be compact, small and lightweight, suitable for installation in space-constrained locations. When the gate is fully open, the resistance of the fluid passing through the gate valve is almost zero, which is suitable for pipeline systems requiring low fluid resistance.

## EASY MAINTENANCE

The forged steel gate valve has a simple structure and is easy to disassemble and repair, which can reduce the maintenance costs and time. Due to the high strength and good wear resistance of the material, forged steel gate valve usually has a longer service life, reducing the need for frequent replacement.

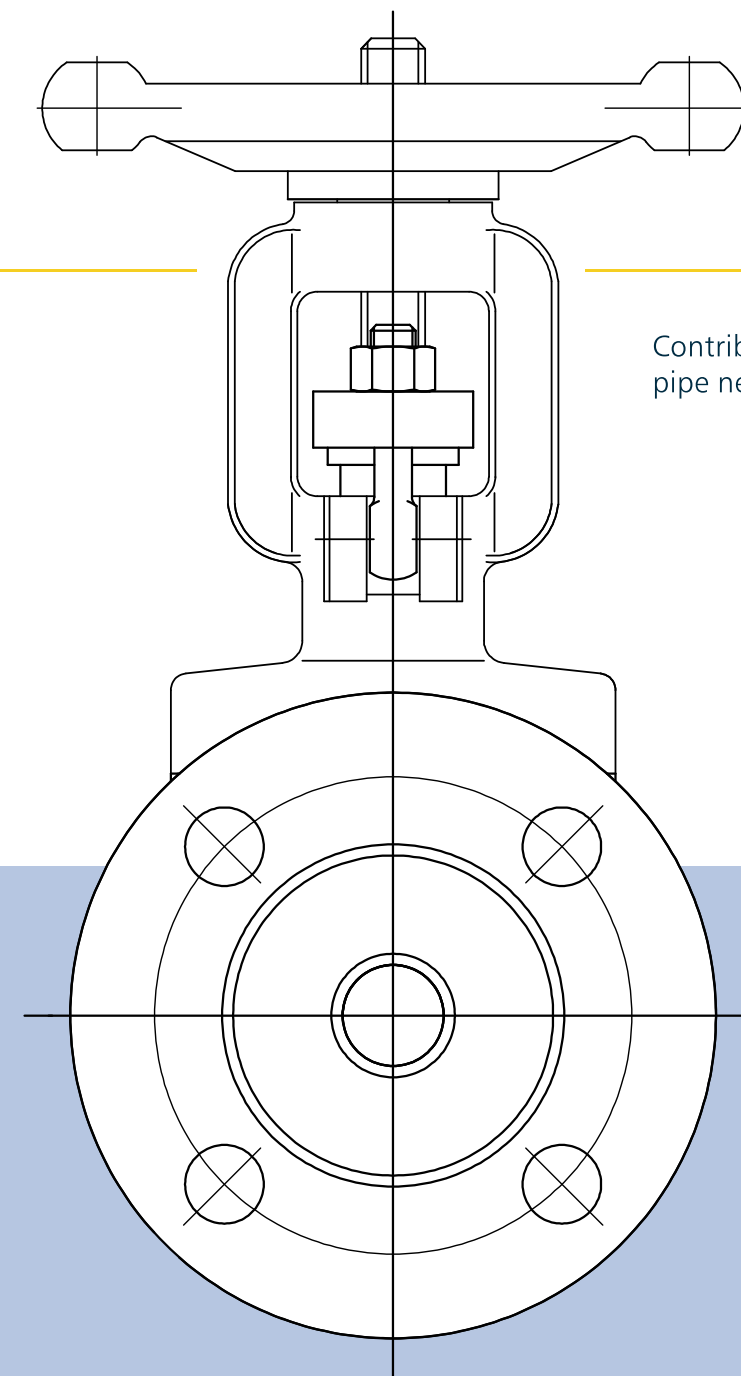
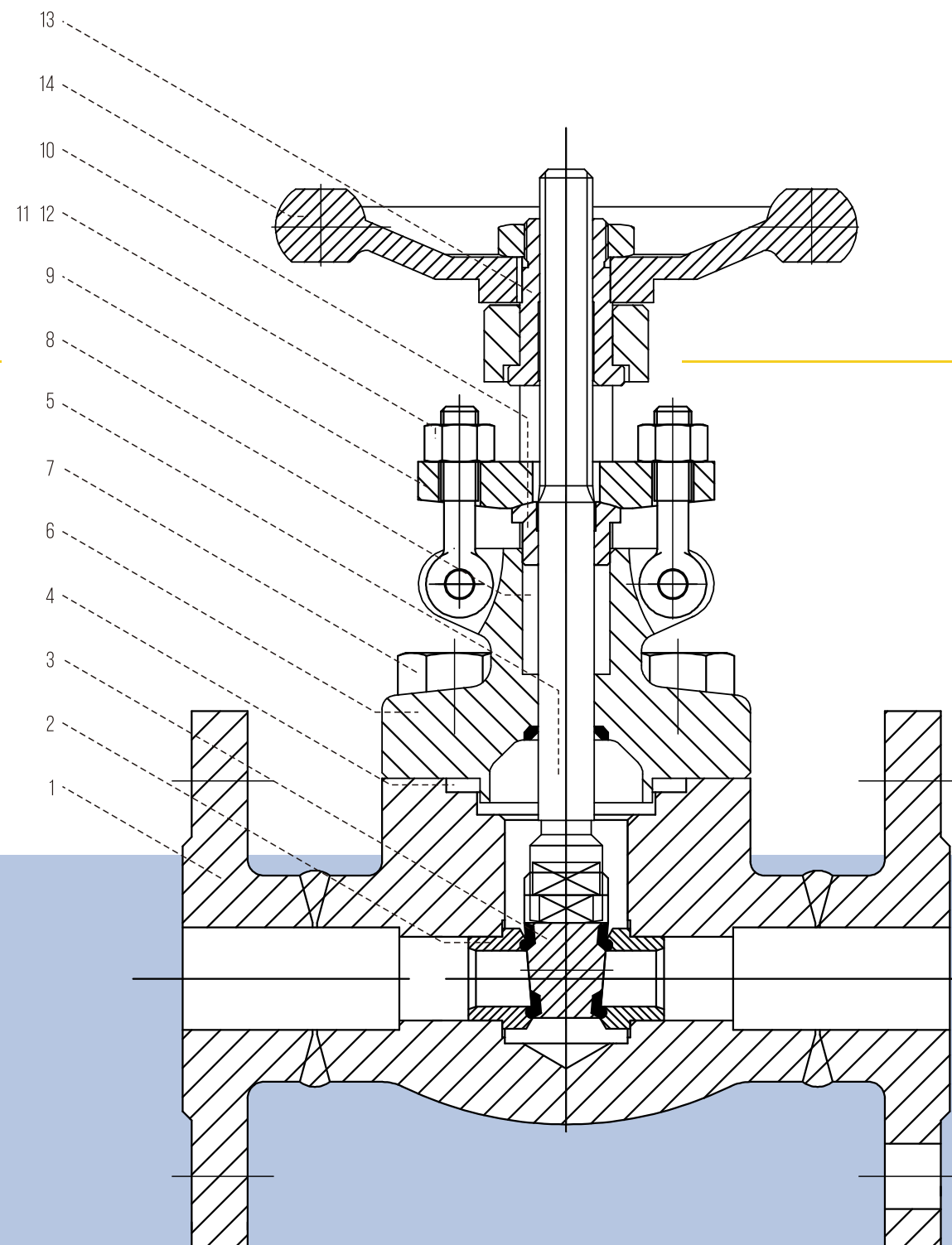
## WIDE RANGE OF APPLICATIONS

The forged steel gate valve is suitable for various industrial fields, including oil, natural gas, chemical, electric power and other industries, especially in high pressure and high temperature conditions.

## VARIOUS CONNECTION METHODS

Various connection methods can be provided, such as flange connection, threaded connection, welding connection, etc., to meet different installation requirements.





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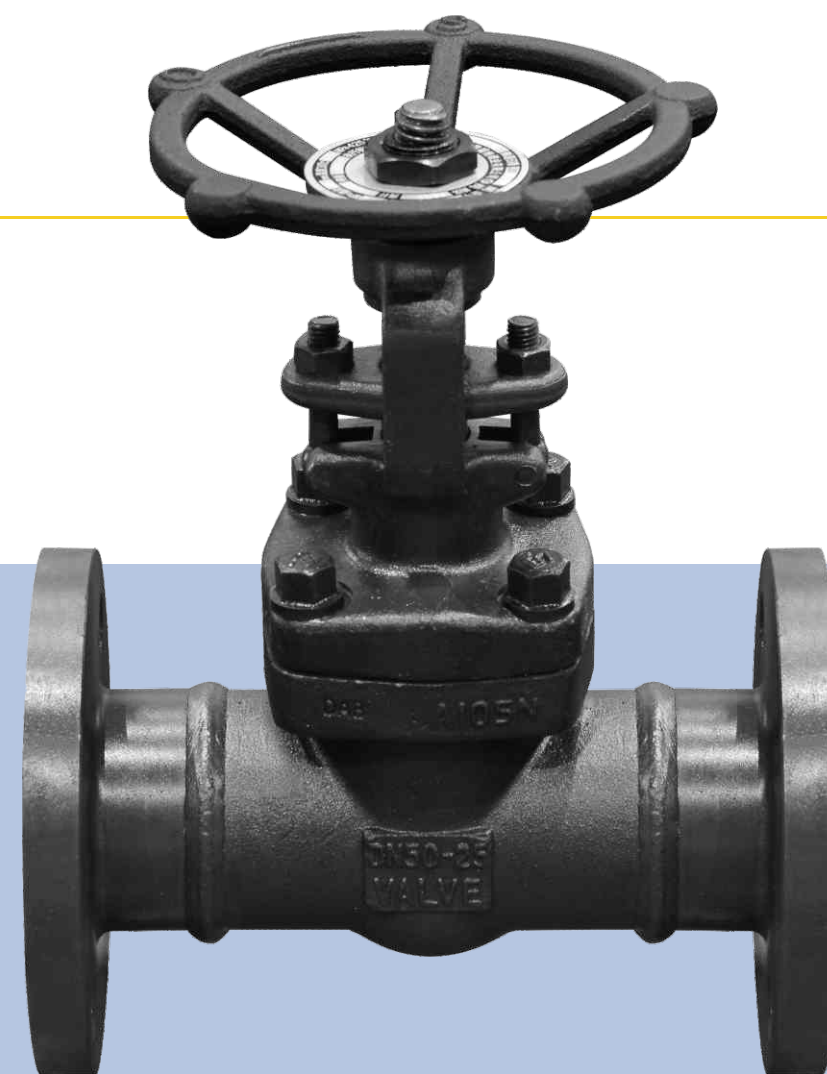
No.	Part Name	Carbon Steel	Cr-Mo Steel	L.T. Carbon Steel	Stainless Steel	Stainless Steel	Duplex Stainless Steel
1	Body	ASTM A105	A182 F11	A350 LF2	A182 F304	A182 F316	A182 F51
2	Seat Ring	A276 410	A276 304+STL	A276 304	A182 F304	A182 F316	A182 F51
3	Wedge	A276 420	A182 F304+STL	A182 F304	A182 F304	A182 F316	A182 F51
4	Gasket	Graphite+SS304	Graphite+SS304	Graphite+SS304	Graphite+SS304	Graphite+SS316	Graphite+SS31803
5	Stem	A276 410	A276 410	A350 LF2	A276 304	A276 316	A182 F51
6	Bonnet	ASTM A105	A182 F11	A350 LF2	A182 F304	A182 F316	A182 F51
7	Bonnet bolt	A193 B7	A193 B16	A193 L7	A193 B8	A193 B8M	A193 B8M
8	Stem Packing	Reinforced Graphite	Reinforced Graphite	Reinforced Graphite	Reinforced Graphite	Reinforced Graphite	Reinforced Graphite
9	Gland	A276 410	A276 410	A276 304	A276 304	A276 316	A276 316
10	Gland Flange	ASTM A105	A182 F11	A182 LF2	A182 F304	A182 F316	A182 F51
11	Gland Eyebolt	A193 B7	A193 B16	A193 L7	A193 B8	A193 B8M	A193 B8M
12	Gland Nut	A194 2H	A194 4	A194 7	A194 8	A194 8M	A194 8M
13	Stem Nut	A276 410	A276 410	A276 410	A276 410	A276 410	A276 410
14	Hand Wheel	ASTM A197	ASTM A197	ASTM A197	ASTM A197	ASTM A197	ASTM A197

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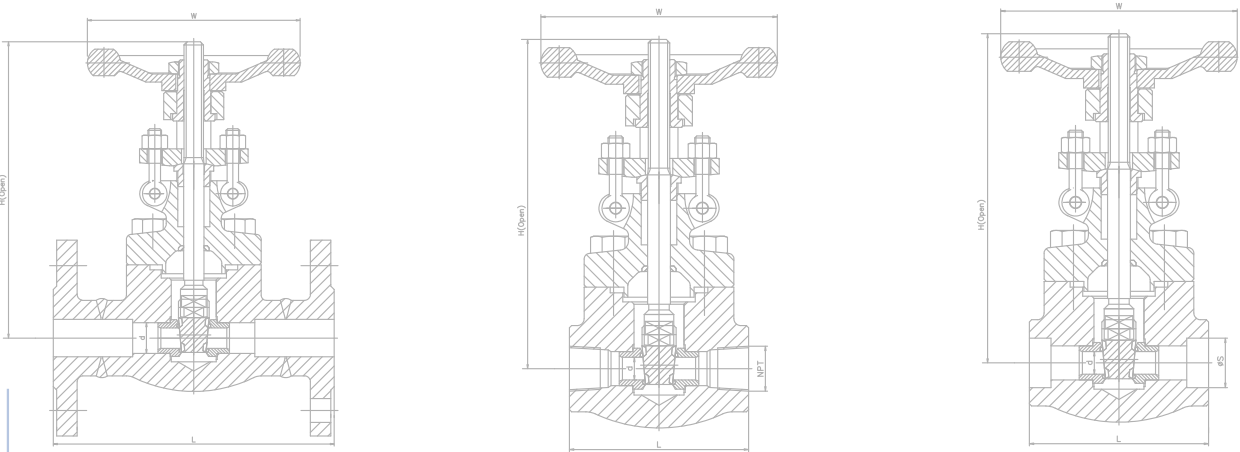


# FORGED STEEL GATE VALVE

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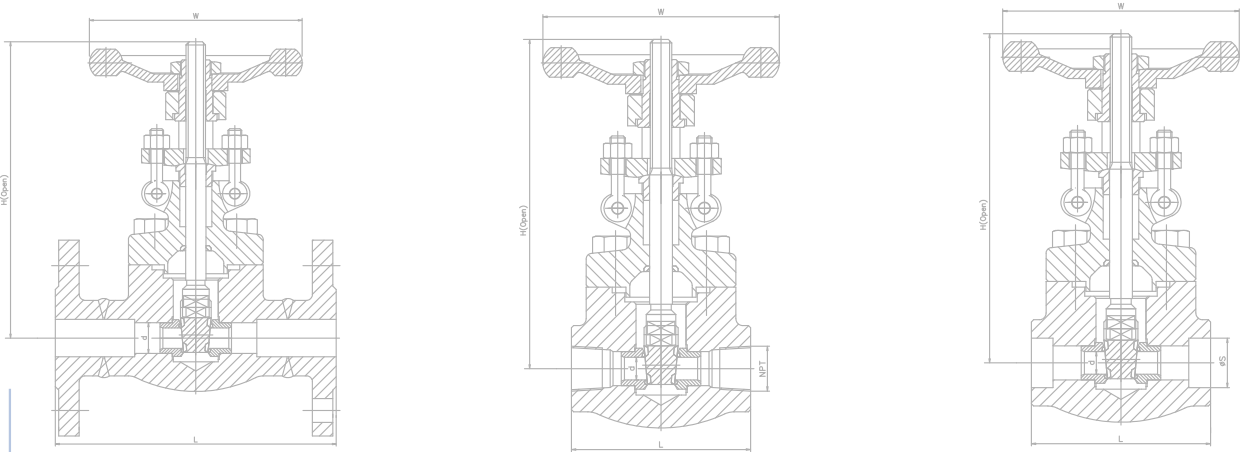


CLASS 800 NPT/SW

DN	NPS	L	S	d	H	W	Weight (kg)
15	1/2	79	21.8	9.5	182	100	2
20	3/4	92	27.1	12.7	208	100	2.5
25	1	111	33.8	17.5	254	125	5
32	1 1/4	120	42.6	23.8	290	160	6
40	1 1/2	120	48.7	28.6	330	180	7
50	2	140	61.1	36.5	372	200	11

CLASS 1500 NPT/SW

DN	NPS	L	S	d	H	W	Weight (kg)
15	1/2	111	21.8	9.5	182	100	4
20	3/4	111	27.1	12.7	208	100	4
25	1	120	33.8	17.5	254	125	7
32	1 1/4	120	42.6	23.8	290	160	9
40	1 1/2	140	48.7	28.6	330	180	12
50	2	170	61.1	36.5	372	200	17



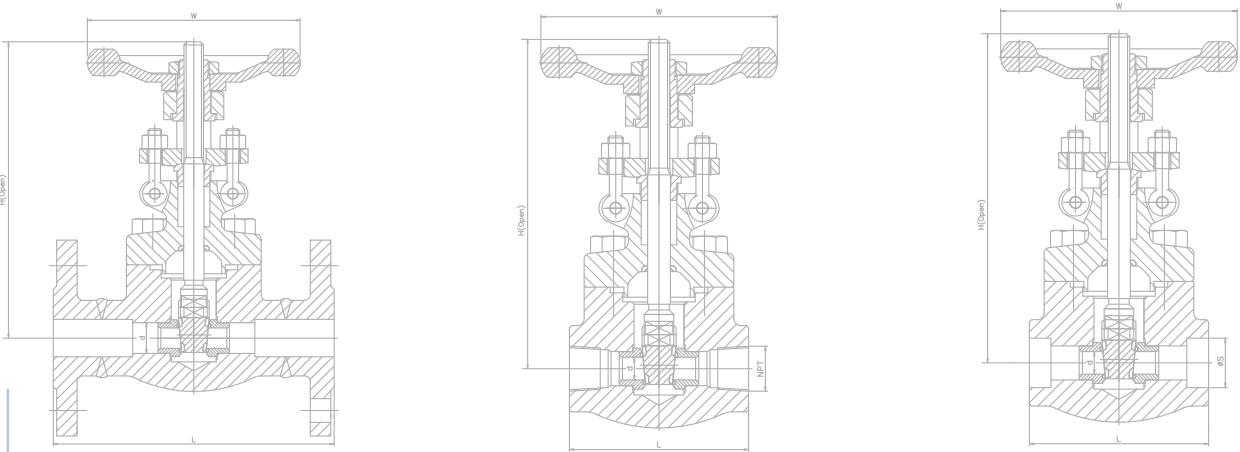
CLASS 150 RF

DN	NPS	L (RF)	d	H	W	Weight (kg)
15	1/2	108	10	176	100	3.4
20	3/4	117	13.5	184	100	3.98
25	1	127	18	217	125	6.12
32	1 1/4	140	29	250	160	10.4
40	1 1/2	165	29	250	160	10.4
50	2	178	36.5	290	180	15.5

CLASS 300 RF

DN	NPS	L (RF)	d	H	W	Weight (kg)
15	1/2	140	10	161	100	3.77
20	3/4	152	13.5	163	184	4.89
25	1	165	18	196	125	7.2
32	1 1/4	178	29	250	160	12.64
40	1 1/2	190	29	250	160	12.64
50	2	216	36.5	290	180	18



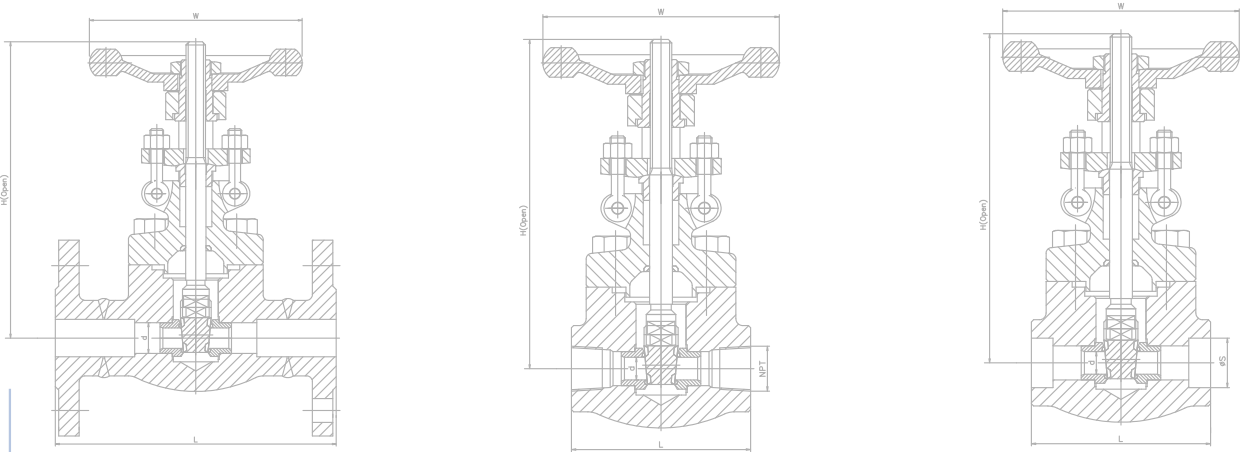


CLASS 600 RF

DN	NPS	L (RF)	d	H	W	Weight (kg)
15	1/2	165	10	161	100	4.2
20	3/4	190	13.5	163	163	5.8
25	1	216	18	196	125	8.8
32	1 1/4	229	29	250	160	15.6
40	1 1/2	241	29	250	160	15.6
50	2	292	36.5	290	180	19.5

CLASS 900 RF/RTJ

DN	NPS	L (RF)	L (RTJ)	d	H	W	Weight (kg)
15	1/2	216	216	13.5	191	125	7.2
20	3/4	229	229	18	192	125	11.5
25	1	254	254	29	219	160	15.6
32	1 1/4	279	279	29	257	180	16.2
40	1 1/2	305	305	36.5	296	200	22.6
50	2	368	371	45	316	220	28.2



CLASS 1500 RF/RTJ

DN	NPS	L (RF)	L (RTJ)	d	H	W	Weight (kg)
15	1/2	216	216	13.5	191	125	7.2
20	3/4	229	229	18	192	125	11.5
25	1	254	254	29	219	160	15.6
32	1 1/4	279	279	29	257	180	16.2
40	1 1/2	305	305	36.5	296	200	22.6
50	2	368	371	45	316	220	28.2

CLASS 2500 RF/RTJ

DN	NPS	L (RF)	L (RTJ)	d	H	W	Weight (kg)
15	1/2	264	264	13.5	325	200	4.6
20	3/4	273	273	13.5	325	200	6.8
25	1	308	308	19	327	200	7.6
32	1 1/4	-	-	-	-	-	-
40	1 1/2	384	387	30	478	280	15
50	2	451	454	36.5	540	300	21.9



# FORGED STEEL GLOBE VALVE

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DESIGN STANDARDS	API602, ASME B16.34, ASME B16.5, ASME B16.11 ASME B1.20.1 etc.
SIZE RANGE	NPS1/2~NPS2, DN15~DN50
NOMINAL PRESSURE	CLASS150~CLASS2500
CONNECTION	RF, RTJ, SW, NPT etc.
MATERIALS	ASTM A105, ASTM A182 LF2, ASTM A182 F11, ASTM A182 F22, ASTM A182 F304, ASTM A182 F316, ASTM A182 F51, etc.
APPLICABLE TEMPERATURE	-29°C~425°C
APPLICABLE MEDIUM	Oil, Gas, Water, Steam, etc.
OPERATION	Handwheel, Pneumatic, Electric, etc.

## OUTSIDE SCREW AND YOKE

The external side of the stem is threaded, while the section inside the valve is plain. Valve stem threads are isolated from medium by packing, which keeps the stem threads outside the valve body to avoid damage from high temperatures, corrosives, and solids within the valve. The external screw can be maintained from the outside, making it the preferred choice for demanding applications.

## THREE BONNET DESIGNS

The first design is the Bolted Bonnet with male-female joint and spiral wound gasket, made in F304L/graphite. Ring joint gasket is available upon request. The second design is the Welded Bonnet with threaded and sealed welded joint. Full penetration strength welded joints are available upon request. The third design is the Pressure Sealing Bonnet, with the threaded and pressure seal bonnet joint.

## HIGH STRENGTH AND HARDNESS

Forged steel gate valve has high mechanical strength and toughness, which can withstand high pressure, high temperature and corrosive medium conditions. This makes the forged steel globe valve suitable for harsh working environments, such as high-pressure steam, oil and gas pipelines.

## CORROSION RESISTANCE

The forged steel gate valve is made of special corrosion-resistant alloy steel or stainless steel, which can be used for a long time in the environment of corrosive medium. The surface of the valve is specially treated and has good corrosion resistance, which can meet the needs of various industrial fields.

## EXCELLENT SEALING PERFORMANCE

The forged steel globe valve adopts a relatively simple and effective sealing structure. The line sealing or face sealing between the valve disc and the valve seat can ensure good sealing performance and avoid medium leakage. The partially designed forged steel globe valve can realize the bi-directional sealing function, which enhances the sealing effect under different flow conditions.

## LOW OPENING AND CLOSING TORQUE

Since the valve stem axis of the globe valve is perpendicular to the valve seat sealing surface, the torque required for opening and closing is small, and the operation is more labor-saving. The stroke of the forged steel globe valve is short when opening and closing. It usually only needs to turn the stem 90 degrees to achieve full opening or full closing, which can achieve faster opening and closing speed.

## FLOW REGULATION FUNCTION

Due to its structural characteristics, the forged steel globe valve can realize the precise control of the fluid flow, and is suitable for the condition that the flow needs to be fine-adjusted. Since the fluid needs to change direction through the valve tunnel, the forged steel stop valve has relatively high fluid resistance, which also helps to control the flow rate at high pressure differences.

## SIMPLE STRUCTURE AND EASY MAINTENANCE

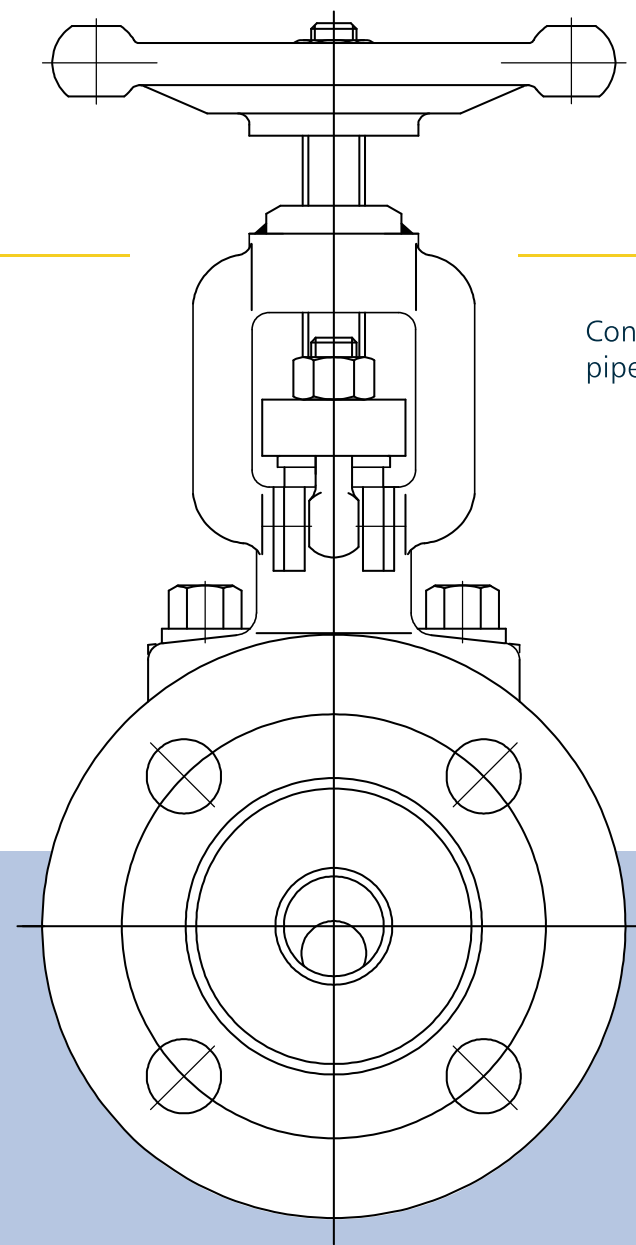
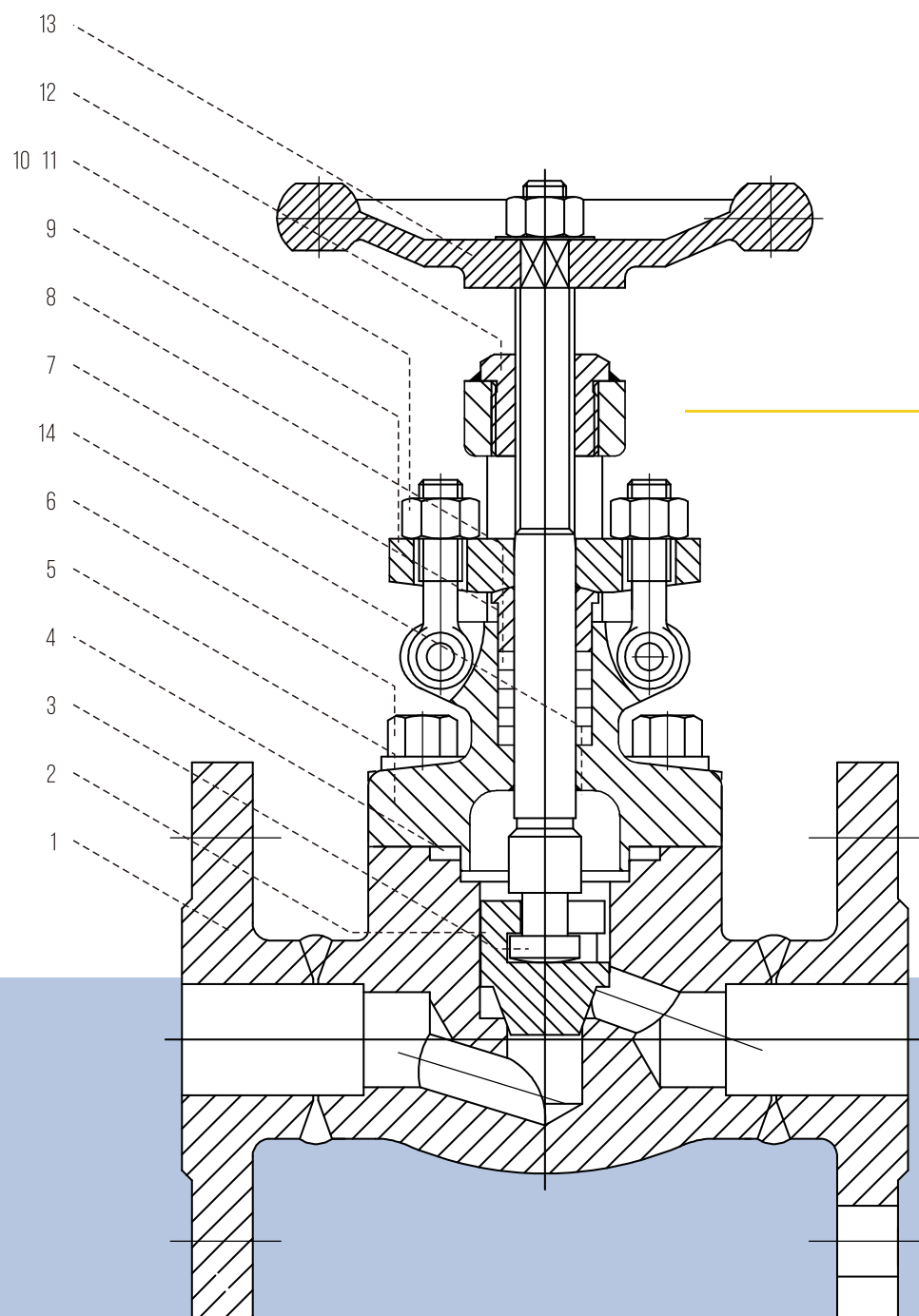
The forged steel globe valve has a simpler structure, fewer parts, and is easy to disassemble, repair, and replace sealing parts with lower maintenance costs. Due to the advantages of material and process, the overall service life of the forged steel globe valve is longer, and it shows good stability and reliability in long-term use.

## WIDE RANGE OF APPLICATIONS

The forged steel globe valve is suitable for industries such as petroleum, natural gas, chemical industry, electric power, metallurgy, etc., especially in high pressure, high temperature, corrosive media and occasions requiring precise flow control.

## VARIOUS CONNECTION METHODS

Various connection methods can be provided, such as flange connection, threaded connection, welding connection, etc., to meet different installation requirements.



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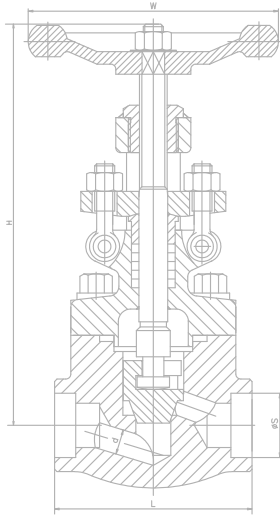
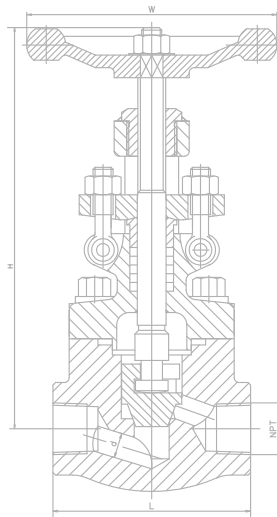
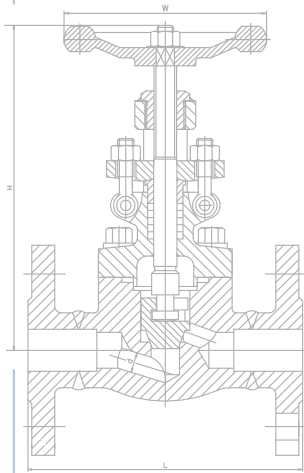
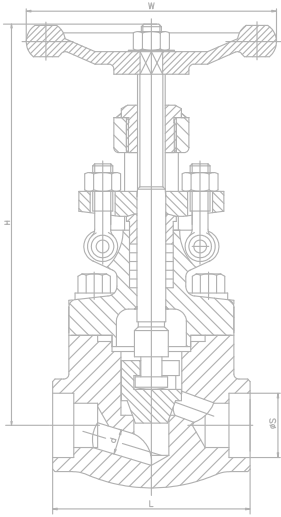
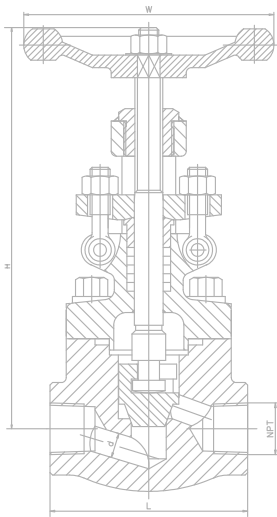
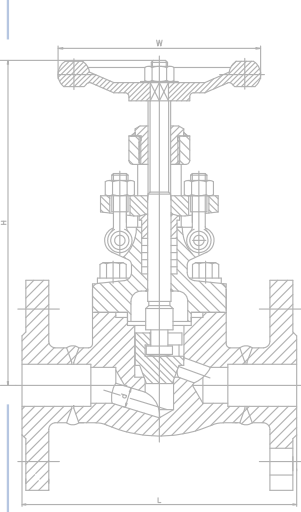
No.	Part Name	Carbon Steel	Cr-Mo Steel	L.T. Carbon Steel	Stainless Steel	Stainless Steel	Duplex Stainless Steel
1	Body	ASTM A105+13Cr	A182 F11	A350 LF2	A182 F304+STL	A182 F316	A182 F51
2	Disc	ASTM A105+13Cr	A182 F11	A350 LF2	A182 F304+STL	A182 F316	A182 F51
3	Stem	A276 410	A276 410	A350 LF2	A276 304	A276 316	A182 F51
4	Gasket	Graphite+SS304	Graphite+SS304	Graphite+SS304	Graphite+SS304	Graphite+SS316	Graphite+SS31803
5	Bonnet	ASTM A105	A182 F11	A350 LF2	A182 F304	A182 F316	A182 F51
6	Bonnet bolt	A193 B7	A193 B16	A193 L7	A193 B8M	A193 B8M	A193 B8M
7	Stem Packing	Reinforced Graphite	Reinforced Graphite	Reinforced Graphite	Reinforced Graphite	Reinforced Graphite	Reinforced Graphite
8	Gland	A276 410	A276 410	A276 304	A276 304	A276 316	A276 316
9	Gland Flange	ASTM A105	A182 F11	A182 LF2	A182 F304	A182 F316	A182 F51
10	Gland Eyebolt	A193 B7	A193 B16	A193 L7	A193 B8M	A193 B8M	A193 B8M
11	Gland Nut	A194 2H	A194 8M	A194 4	A194 8M	A194 8M	A194 8M
12	Stem Nut	A276 410	A276 410	A276 410	A276 410	A276 410	A276 410
13	Hand Wheel	ASTM A197	ASTM A197	ASTM A197	ASTM A197	ASTM A197	ASTM A197

# FORGED STEEL GLOBE VALVE

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CLASS 800 NPT/SW

NPS		L	S	d	H	W	Weight (kg)
15	1/2	79	21.8	9	164	100	2.28
20	3/4	92	27.1	13	164	100	2.37
25	1	111	33.8	17.5	203	125	4.3
32	1 1/4	120	42.6	23	224	160	5.75
40	1 1/2	152	48.7	30	260	160	7.8
50	2	172	61.1	35	300	180	12.5

CLASS 900-1500 NPT/SW

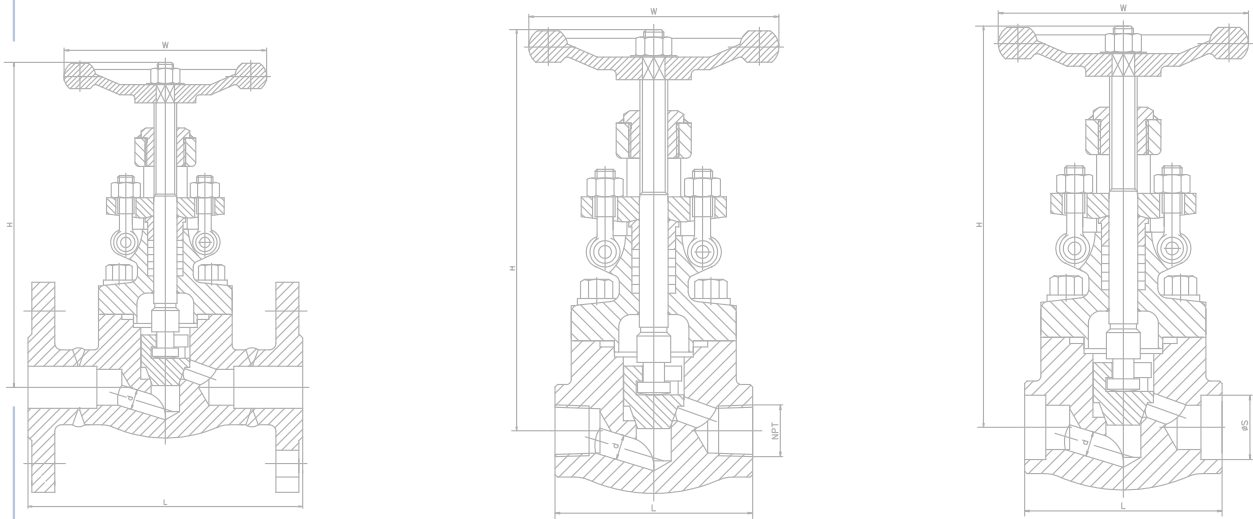
NPS		L	S	d	H	W	Weight (kg)
15	1/2	111	21.8	12	207	125	3.7
20	3/4	111	27.1	15	207	125	3.6
25	1	120	33.8	20	240	160	6.8
32	1 1/4	152	42.6	28	258	160	7.6
40	1 1/2	172	48.7	32	330	180	11.6
50	2	200	61.1	40	355	200	15

CLASS 150 RF

DN	NPS	L (RF)	d	H	W	Weight (kg)
15	1/2	108	9	180	100	3.45
20	3/4	117	13	184	100	4
25	1	127	17.5	217	125	6.19
32	1 1/4	140	23	224	160	9.6
40	1 1/2	165	30	260	160	10.5
50	2	203	35	300	180	17

CLASS 300 RF

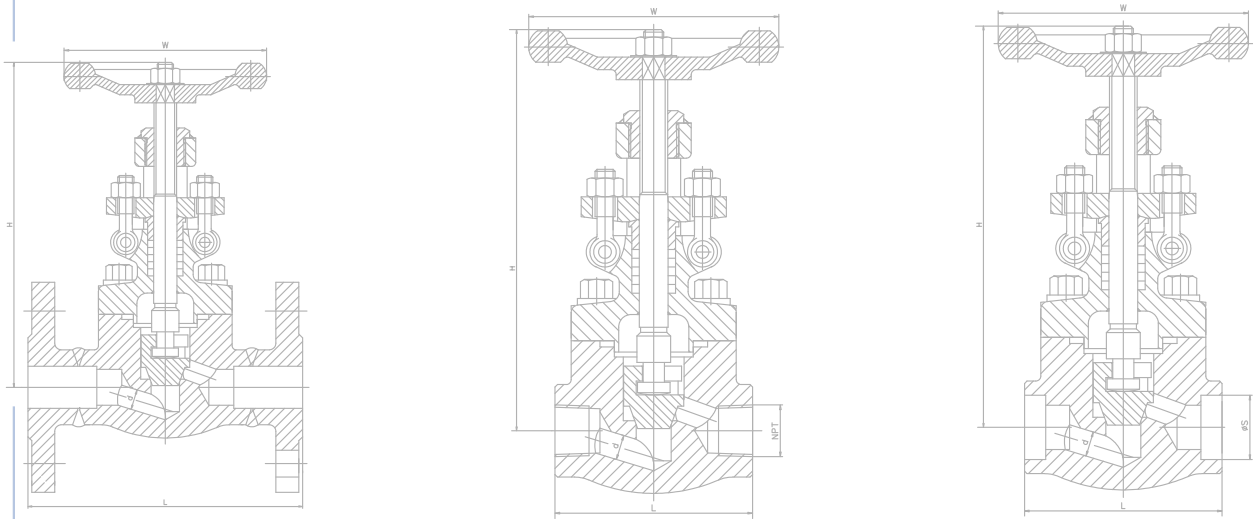
DN	NPS	L (RF)	d	H	W	Weight (kg)
15	1/2	152	9	180	100	3.8
20	3/4	178	13	184	100	5.1
25	1	203	17.5	217	125	7.2
32	1 1/4	216	23	224	160	12
40	1 1/2	229	30	260	160	13.5
50	2	267	35	300	180	19.7



CLASS 600 RF

DN	NPS	L (RF)	d	H	W	Weight (kg)
15	1/2	165	9	164	100	5.6
20	3/4	190	13	164	100	7.8
25	1	216	17.5	203	125	12.5
32	1 1/4	229	23	224	160	17
40	1 1/2	241	30	260	160	23.5
50	2	292	35	300	180	38.8

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CLASS 900 /1500 RF/RTJ

DN	NPS	L (RF)	L (RTJ)	d	H	W	Weight (kg)
15	1/2	216	216	12	207	125	11
20	3/4	229	229	15	207	125	13.2
25	1	254	254	20	230	160	17.4
32	1 1/4	279	279	28	160	160	19
40	1 1/2	305	305	32	300	180	24.5
50	2	368	371	40	355	200	31

CLASS 2500 RF/RTJ

DN	NPS	L (RF)	L (RTJ)	d	H	W	Weight (kg)
15	1/2	264	264	11	207	125	19.5
20	3/4	273	273	14	240	160	21.5
25	1	308	308	19	258	200	42
32	1 1/4	-	-	-	-	-	-
40	1 1/2	384	387	28	355	250	65
50	2	451	454	35	300	240	95



# FORGED STEEL LIFT CHECK VALVE

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DESIGN STANDARDS	API602, ASME B16.34, ASME B16.5, ASME B16.11 ASME B1.20.1 etc.
SIZE RANGE	NPS1/2~NPS2, DN15~DN50
NOMINAL PRESSURE	CLASS150~CLASS2500
CONNECTION	RF, RTJ, SW, etc.
MATERIALS	ASTM A105, ASTM A182 LF2, ASTM A182 F11, ASTM A182 F22, ASTM A182 F304, ASTM A182 F316, ASTM A182 F51, etc.
APPLICABLE TEMPERATURE	-29°C~425°C
APPLICABLE MEDIUM	Oil, Gas, Water, Steam, etc.
OPERATION	N/A

## LIFTING DESIGN

The forged steel lift check valve controls the passage or blocking of the medium by the lifting action of the valve disc. When the medium flows forward, the valve disc is lifted; when the medium flows in the reverse direction, the valve disc drops under the action of gravity and reverse fluid pressure, thereby closing the valve to prevent back flow.

## NO EXTERNAL OPERATING MECHANISM

The valve automatically opens and closes by the pressure difference of the medium flow, and no external operating mechanism is required, so the design is simple and the failure rate is low.

## HIGH STRENGTH AND DURABILITY

Forged steel has high strength and toughness, and can withstand high pressure and high temperature conditions. This makes the forged steel lift check valve especially suitable for high-pressure, high-temperature environments, such as oil, gas, chemical and other industries.

## CORROSION RESISTANCE

The forged steel lift check valve is made of special corrosion-resistant alloy steel or stainless steel, which can be used for a long time in the environment of corrosive medium. The surface of the valve is specially treated and has good corrosion resistance, which can meet the needs of various industrial fields.

## TUNNEL DESIGN

Since the disc needs to be pushed up when the medium flows, the fluid resistance of the forged steel lift check valve is relatively large. This design makes it more suitable for use in low flow rates where reliable check is required.

## HIGH IMPACT AND VIBRATION RESISTANCE

Forged steel lift check valves can withstand pressure fluctuations and vibrations in the system, suitable for pulsed fluid systems and high-pressure differential conditions. Since the lifting and lowering action of the valve disc is controlled by the fluid pressure, the valve moves smoothly when opening and closing, reducing the impact on the system.

## EXCELLENT SEALING PERFORMANCE

The valve disc and valve seat of the forged steel lift check valve usually adopt precision-machined sealing surfaces to ensure that the medium can be effectively prevented from flowing back when closed, which has excellent sealing performance. The sealing surface is usually hardened or made of special alloy materials to improve wear and corrosion resistance and extend the service life of the valve.

## EASY MAINTENANCE

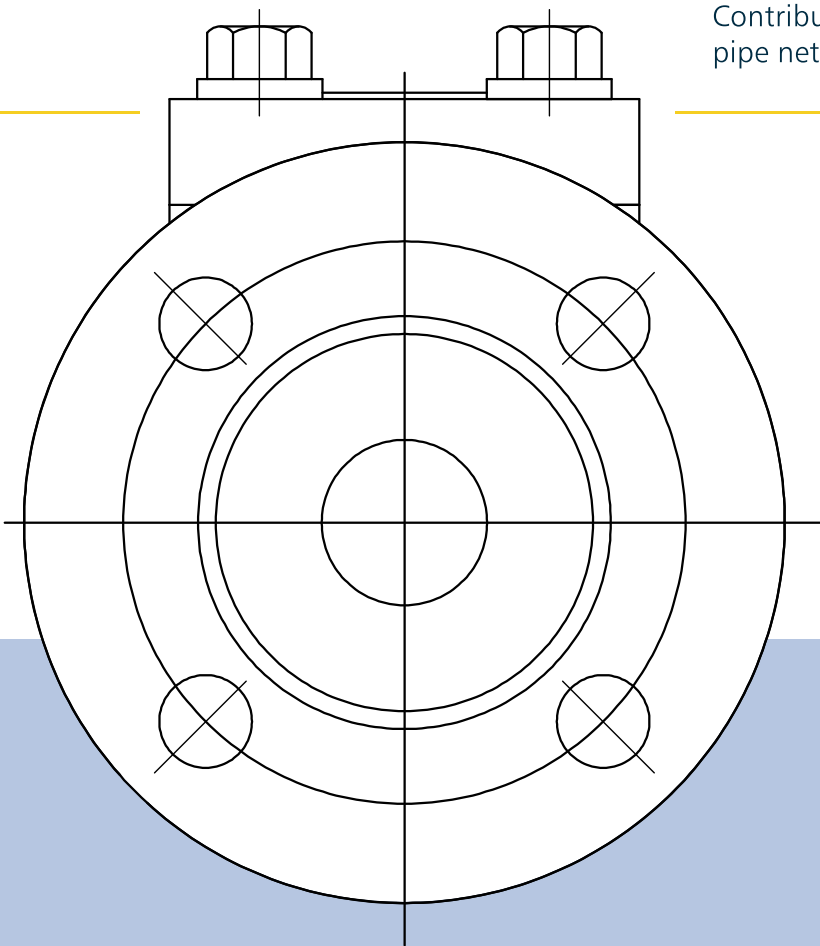
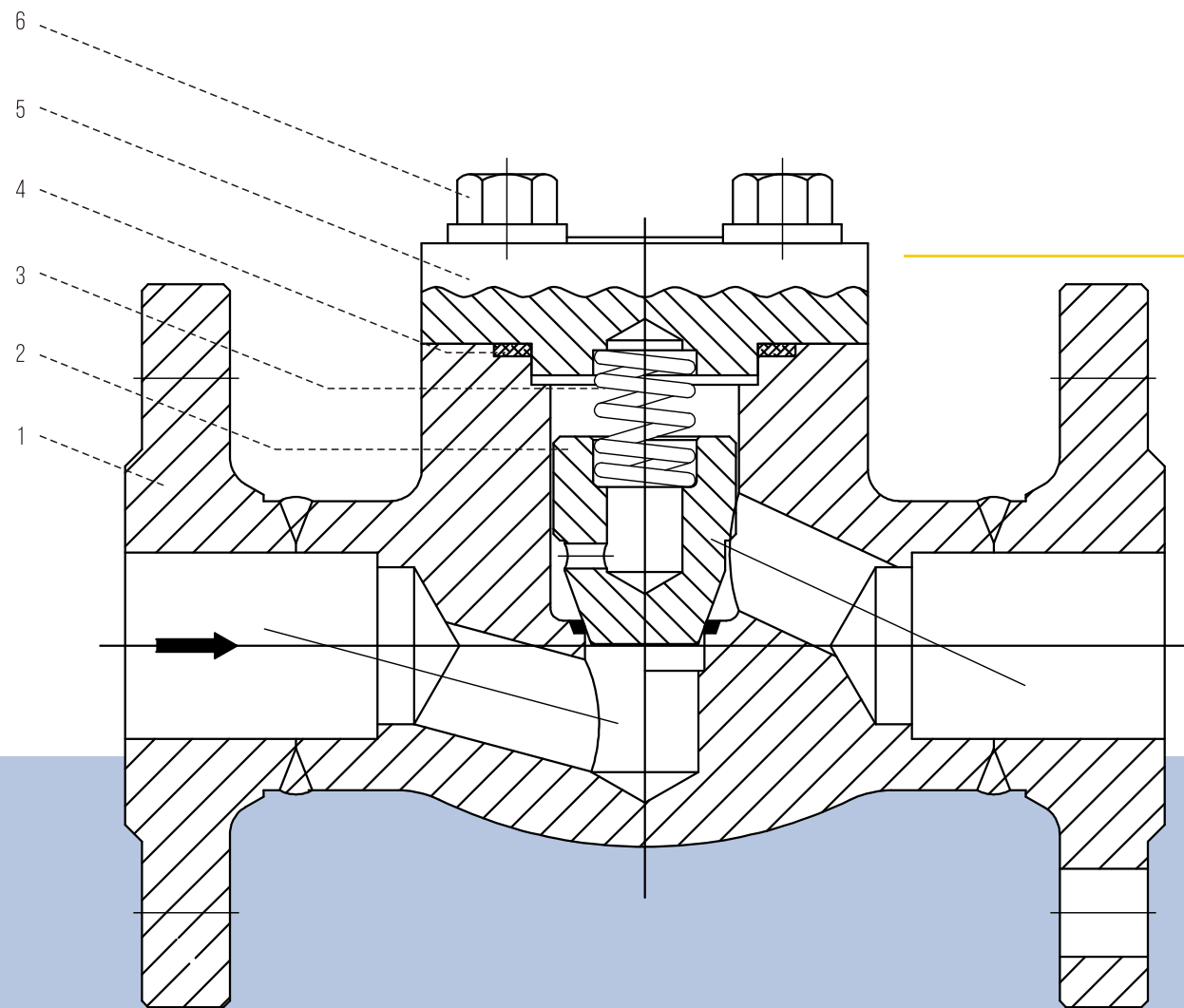
The high durability of forged steel materials and the reliability of the structure enable the valve to maintain good performance in long-term use. Due to its simple structure, the forged steel lift check valve is easy to disassemble, clean and repair, which helps to reduce maintenance costs and extend the service life of the equipment.

## WIDE RANGE OF APPLICATIONS

Forged steel lift heck valve can adapt to water, oil, gas and other corrosive or non-corrosive medium, which are widely used in industries such as petroleum, natural gas, chemical industry, electric power, metallurgy, etc., especially in high pressure and high temperature environments where back flow of medium needs to be prevented.

## VARIOUS CONNECTION METHODS

Various connection methods can be provided, such as flange connection, threaded connection, welding connection, etc., to meet different installation requirements.



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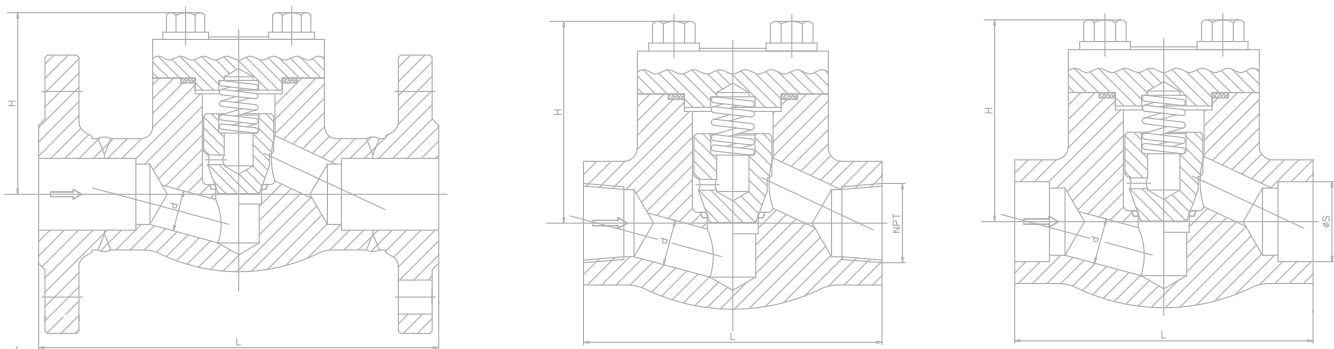
No.	Part Name	Carbon Steel	Cr-Mo Steel	L.T. Carbon Steel	Stainless Steel	Stainless Steel	Duplex Stainless Steel
1	Body	ASTM A105+13Cr	A182 F11	A350 LF2	A182 F304+STL	A182 F316	A182 F51
2	Disc	ASTM A105+13Cr	A182 F11	A350 LF2	A182 F304+STL	A182 F316	A182 F51
3	Spring	SS304	Inconel X-750	SS304	SS304	SS316	SS304
4	Gasket	Graphite+SS304	Graphite+SS304	Graphite+SS304	Graphite+SS304	Graphite+SS316	Graphite+SS31803
5	Bonnet	ASTM A105	A182 F11	A350 LF2	A182 F304	A182 F316	A182 F51
6	Bonnet bolt	A193 B7	A193 B16	A193 L7	A193 B8M	A193 B8M	A193 B8M



# FORGED STEEL LIFT CHECK VALVE

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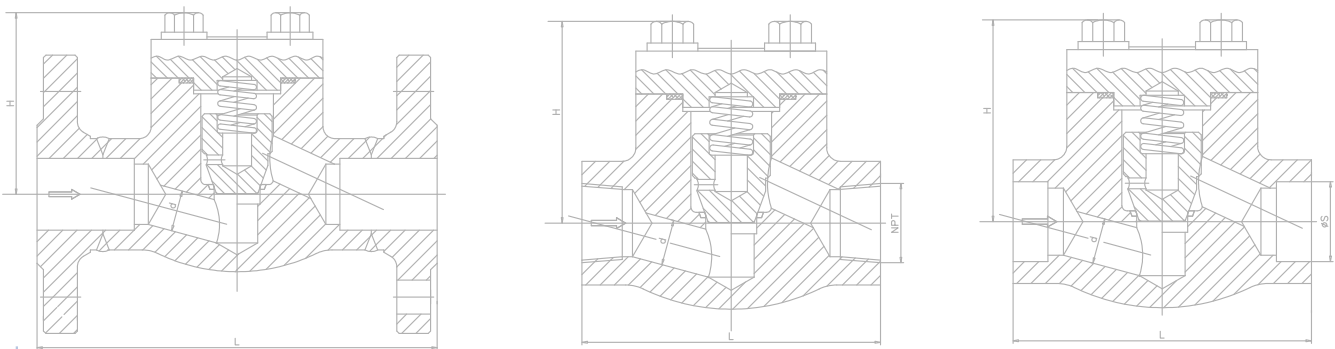


CLASS 150-800 NPT/SW

NPS		L	S	d	H	Weight (kg)
15	1/2	79	21.8	9.5	61	1.2
20	3/4	92	27.1	12.7	61	1.4
25	1	111	33.8	17.5	78	2.3
32	1 1/4	120	42.6	23.8	84	3.9
40	1 1/2	152	48.7	28.6	103	5.6
50	2	172	61.1	36.5	118	8.9

CLASS 900-1500 NPT/SW

NPS		L	S	d	H	Weight (kg)
15	1/2	111	21.8	9.5	79	3
20	3/4	111	27.1	12.7	79	3.4
25	1	120	33.8	17.5	97	4.8
32	1 1/4	152	42.6	23.8	104	6.9
40	1 1/2	172	48.7	28.6	120	10.7
50	2	220	61.1	36.5	139	14.6

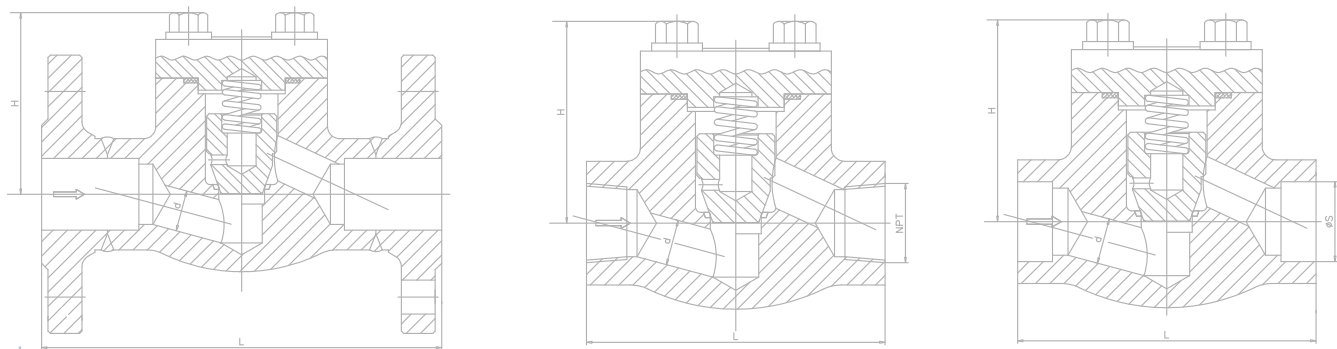


CLASS 150 RF

DN	NPS	L (RF)	d	H	Weight (kg)
15	1/2	108	10.5	77	3.6
20	3/4	118	13.5	81	4.6
25	1	127	18	93	8.5
32	1 1/4	140	24	95	9.2
40	1 1/2	165	29	103	12.5
50	2	203	36.5	118	14.8

CLASS 300 RF

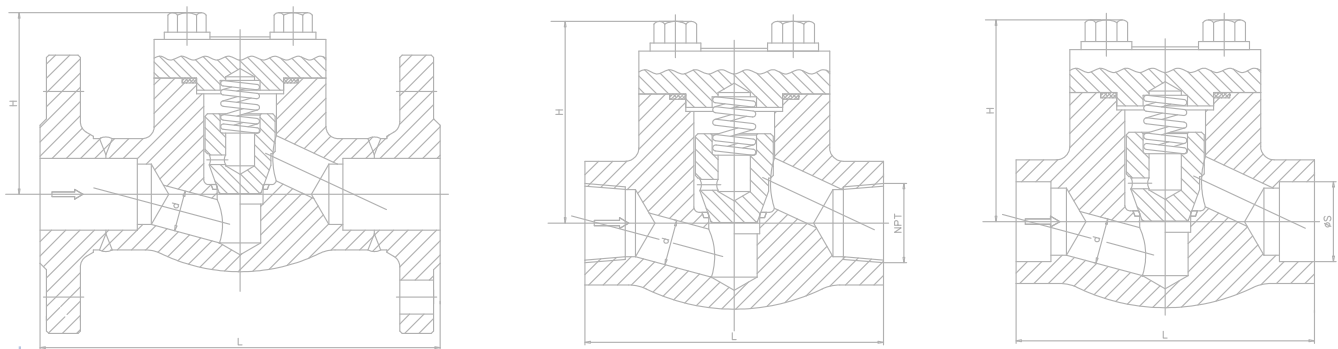
DN	NPS	L (RF)	d	H	Weight (kg)
15	1/2	152	9	180	3.7
20	3/4	178	13	184	4.8
25	1	203	17.5	217	8.8
32	1 1/4	216	23	224	9.6
40	1 1/2	229	30	260	13.7
50	2	267	35	300	17.8



CLASS 600 RF

DN	NPS	L (RF)	d	H	Weight (kg)
15	1/2	165	10.5	61	4
20	3/4	191	13.5	78	5.8
25	1	216	18	84	9.5
32	1 1/4	229	24	101	10.4
40	1 1/2	241	29	120	15.6
50	2	292	36.5	133	24.5

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CLASS 900/1500 RF/RTJ

DN	NPS	L (RF)	L (RTJ)	d	H	Weight (kg)
15	1/2	216	216	12	117	10.5
20	3/4	229	229	15	117	11.9
25	1	254	254	20	117	13.9
32	1 1/4	280	280	28	152	19.9
40	1 1/2	305	305	32	152	26.9
50	2	368	371	40	195	32.5

CLASS 2500 RF/RTJ

DN	NPS	L (RF)	L (RTJ)	d	H	Weight (kg)
15	1/2	264	264	12	117	12.6
20	3/4	273	273	15	117	14.9
25	1	308	308	20	117	16.5
32	1 1/4	349	352	32	152	24.8
40	1 1/2	384	387	28	152	30
50	2	450	454	40	195	35



# FORGED STEEL SWING CHECK VALVE

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DESIGN STANDARDS	API602, ASME B16.34, ASME B16.5, ASME B16.11 ASME B1.20.1 etc.
SIZE RANGE	NPS1/2~NPS2, DN15~DN50
NOMINAL PRESSURE	CLASS150~CLASS2500
CONNECTION	RF, RTJ, SW, NPT etc.
MATERIALS	ASTM A105, ASTM A182 LF2, ASTM A182 F11, ASTM A182 F22, ASTM A182 F304, ASTM A182 F316, ASTM A182 F51, etc.
APPLICABLE TEMPERATURE	-29°C~425°C
APPLICABLE MEDIUM	Oil, Gas, Water, Steam, etc.
OPERATION	N/A

## SWING DESIGN

The valve controls the passage or blocking of fluid through the rotation of the disc. The valve disc rotates along the hinge mechanism to open or close the tunnel, with a simple and reliable structure.

## AUTOMATIC CLOSING

When the medium flows forward, the valve disc opens; when the medium flows reversely, the valve disc automatically closes under the action of its own weight and the reverse fluid pressure to prevent the medium from flowing back.

## HIGH STRENGTH AND DURABILITY

Forged steel has high strength and toughness, and can withstand high pressure and high temperature conditions. This makes the forged steel swing check valve especially suitable for high-pressure, high-temperature environments, such as oil, gas, chemical and other industries.

## CORROSION RESISTANCE

The forged steel swing check valve is made of special corrosion-resistant alloy steel or stainless steel, which can be used for a long time in the environment of corrosive medium. The surface of the valve is specially treated and has good corrosion resistance, which can meet the needs of various industrial fields.

## TUNNEL DESIGN

The internal tunnel of the forged steel swing check valve has been optimized to reduce fluid resistance and reduce pressure loss, making it suitable for systems that require a low pressure drop. When the valve is opened, the disc completely rotates away from the flow channel, and the fluid can pass smoothly, thus reducing the impact on the system.

## HIGH IMPACT AND VIBRATION RESISTANCE

Due to the high strength of forged steel materials, forged steel swing check valves can withstand impact and vibration in the pipeline and are suitable for use in pulsating or high pressure differential fluid systems. The valve design helps absorb vibration in the system and reduce the impact on the valve body and pipeline system.

## EXCELLENT SEALING PERFORMANCE

The sealing surfaces of the valve disc and valve seat are usually hardened or made of special materials to enhance wear resistance and service life. There is a precise sealing contact surface between the valve disc and the valve seat of the swing check valve to ensure that the medium can be effectively prevented from flowing back when it is closed.

## EASY MAINTENANCE

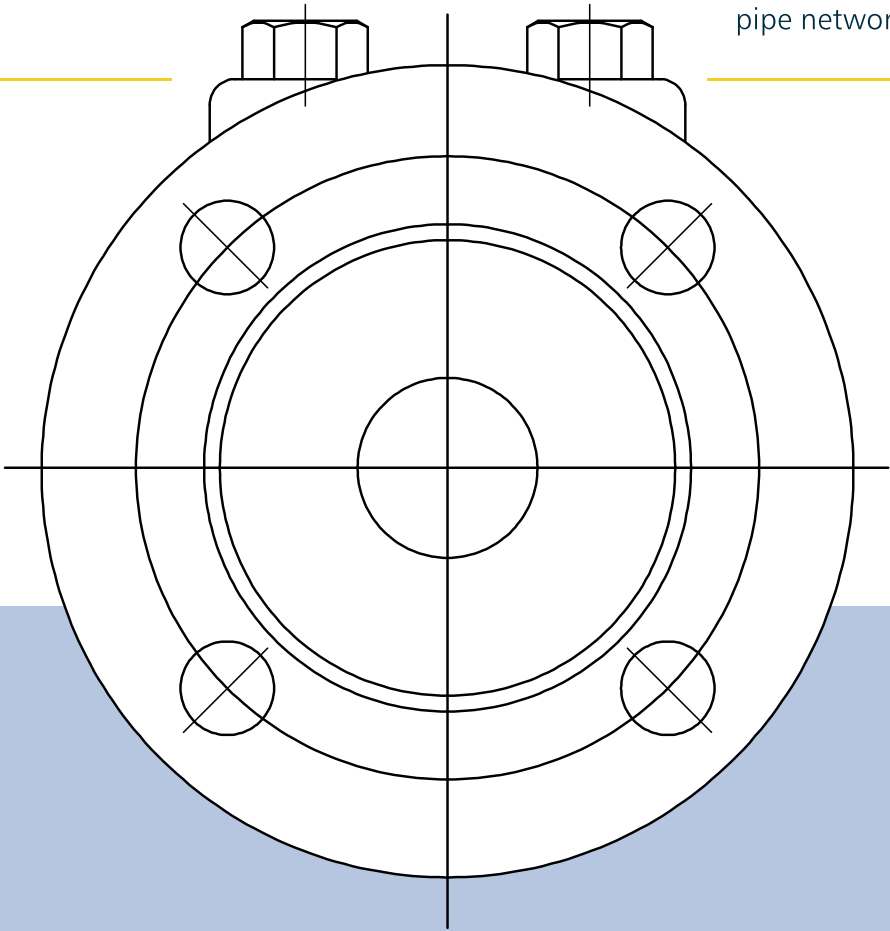
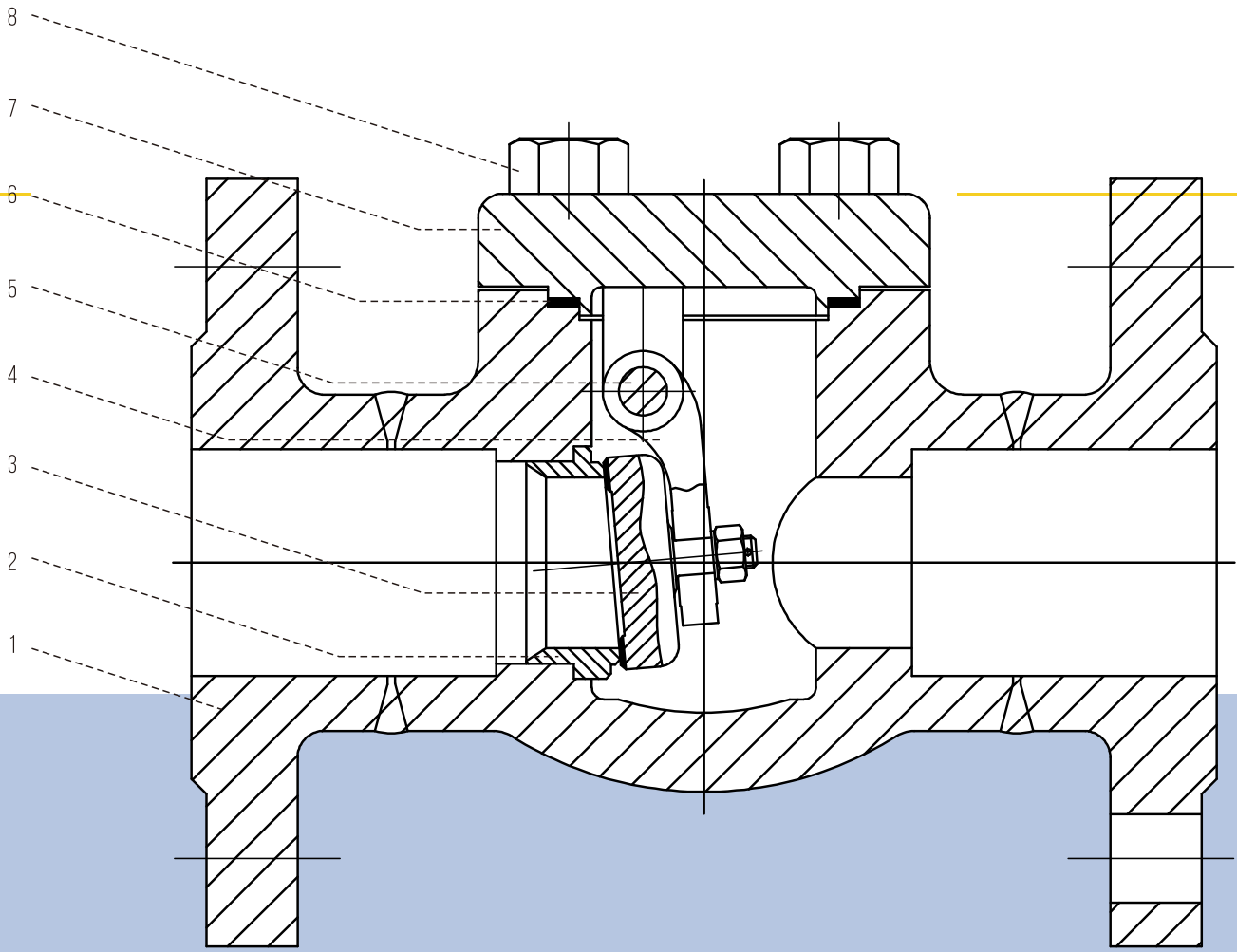
The high durability of forged steel materials and the reliability of the structure enable the valve to maintain good performance in long-term use. Due to its simple structure, the forged steel swing check valve is easy to disassemble, clean and repair, which helps to reduce maintenance costs and extend the service life of the equipment.

## WIDE RANGE OF APPLICATIONS

Forged steel swing check valve can adapt to water, oil, gas and other corrosive or non-corrosive medium, which are widely used in industries such as petroleum, natural gas, chemical industry, electric power, metallurgy, etc., especially in high pressure and high temperature environments where back flow of medium needs to be prevented.

## VARIOUS CONNECTION METHODS

Various connection methods can be provided, such as flange connection, threaded connection, welding connection, etc., to meet different installation requirements.



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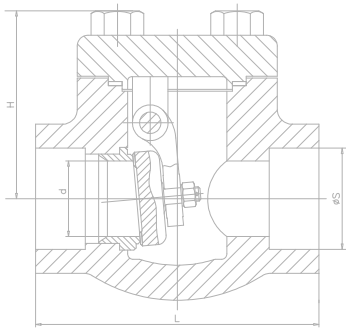
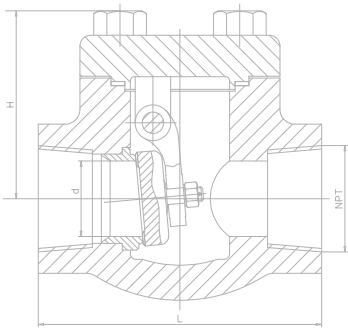
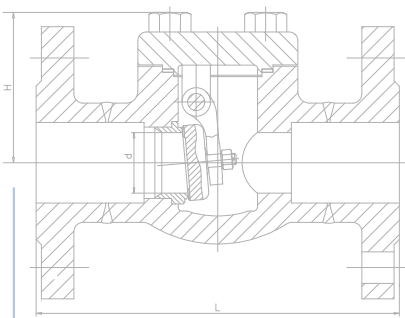
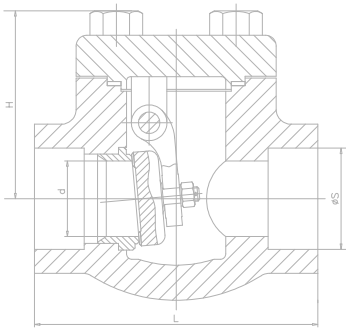
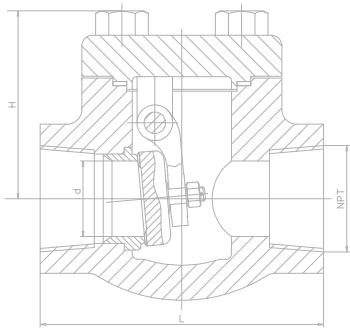
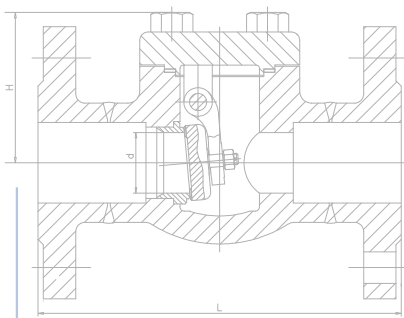
No.	Part Name	Carbon Steel	Cr-Mo Steel	L.T. Carbon Steel	Stainless Steel	Stainless Steel	Duplex Stainless Steel
1	Body	ASTM A105	A182 F11	A350 LF2	A182 F304	A182 F316	A182 F51
2	Seat Ring	ASTM A105+13Cr	A182 F11+13Cr	A350 LF2+STL	A182 F304+STL	A182 F316	A182 F51
3	Disc	ASTM A105+13Cr	A182 F11+13Cr	A350 LF2+STL	A182 F304+STL	A182 F316	A182 F51
4	Arm	ASTM A105	A182 F11	A350 LF2	A182 F304	A182 F316	A182 F51
5	Pin	A276 420	A276 420	A276 304	A276 304	A276 316	A276 316
6	Gasket	Graphite+SS304	Graphite+SS304	Graphite+SS304	Graphite+SS304	Graphite+SS316	Graphite+SS31803
7	Bonnet	ASTM A105	A182 F11	A350 LF2	A182 F304	A182 F316	A182 F51
8	Bonnet bolt	A193 B7	A193 B16	A193 L7	A193 B8M	A193 B8M	A193 B8M

# FORGED STEEL SWING CHECK VALVE

Contributing to safer and smarter pipe network flow control







CLASS 150-800 NPT/SW

NPS		L	S	d	H	Weight (kg)
15	1/2	79	21.8	9.5	61	1
20	3/4	92	27.1	12.7	61	1.1
25	1	111	33.8	17.5	78	1.9
32	1 1/4	120	42.6	23.8	84	3.4
40	1 1/2	120	48.7	28.6	101	4.5
50	2	140	61.1	36.5	120	7.3

CLASS 1500 NPT/SW

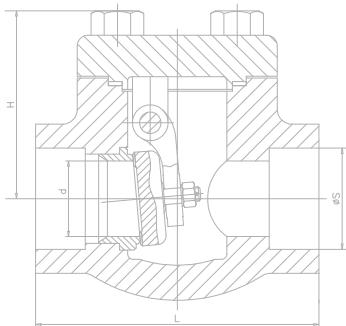
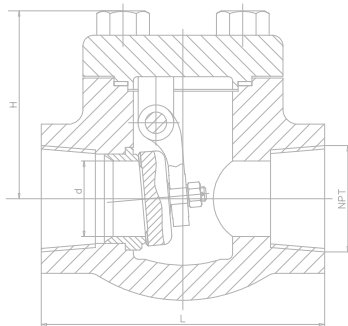
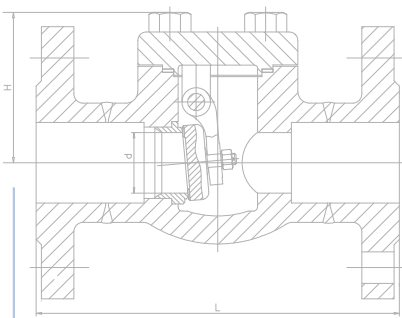
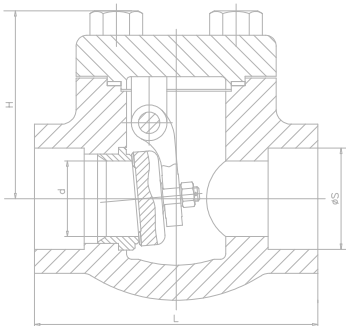
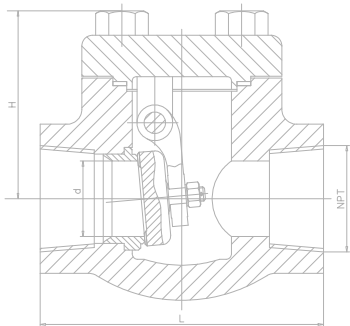
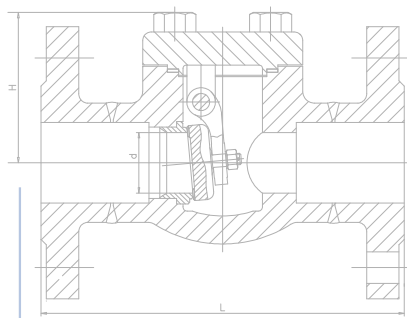
NPS		L	S	d	H	Weight (kg)
15	1/2	111	21.8	9.5	79	3
20	3/4	111	27.1	12.7	79	3.6
25	1	120	33.8	17.5	97	4.3
32	1 1/4	120	42.6	23.8	105	6.1
40	1 1/2	140	48.7	28.6	120	8.8
50	2	170	61.1	36.5	140	12.6

CLASS 150 RF

DN	NPS	L (RF)	d	H	Weight (kg)
15	1/2	108	10.5	77	3.6
20	3/4	118	13.5	81	4.6
25	1	127	18	93	8.5
32	1 1/4	140	24	95	9.2
40	1 1/2	165	29	103	12.5
50	2	203	36.5	118	14.8

CLASS 300 RF

DN	NPS	L (RF)	d	H	Weight (kg)
15	1/2	153	10.5	61	3.7
20	3/4	178	13.5	78	4.8
25	1	203	18	84	8.8
32	1 1/4	216	24	101	9.6
40	1 1/2	229	29	120	13.7
50	2	267	36.5	133	17.8



CLASS 600 RF

DN	NPS	L (RF)	d	H	Weight (kg)
15	1/2	165	10.5	61	4
20	3/4	191	13.5	78	5.8
25	1	216	18	84	9.5
32	1 1/4	229	24	101	10.4
40	1 1/2	241	29	120	15.6
50	2	292	36.5	133	24.5

CLASS 900/1500 RF/RTJ

DN	NPS	L (RF)	L (RTJ)	d	H	Weight (kg)
15	1/2	216	216	12	117	10.5
20	3/4	229	229	15	117	11.9
25	1	254	254	20	117	13.9
32	1 1/4	280	280	28	152	19.9
40	1 1/2	305	305	32	152	26.9
50	2	368	371	40	195	32.5

CLASS 2500 RF/RTJ

DN	NPS	L (RF)	L (RTJ)	d	H	Weight (kg)
15	1/2	264	264	12	117	12.6
20	3/4	273	273	15	117	14.9
25	1	308	308	20	117	16.5
32	1 1/4	349	352	32	152	24.8
40	1 1/2	384	387	28	152	30
50	2	450	454	40	195	35

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