

NSV® NSV VALVE

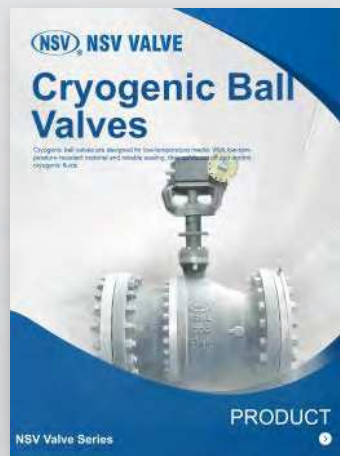
Plug Valve

Plug valve is a quarter-turn rotary valve that uses a tapered or cylindrical plug with a passage hole to control medium flow.



PRODUCT

NSV Valve Series



Contact Us

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COMPANY PROFILE



• Who We Are

NSV Valve is a young and dynamic organization, established in 2007, based in China. We are a Manufacturer and global trading company and supplier in the Valve industry specialized in standard & customized valves. Our clients and end-users are particularly operating in the market Petro-Chemical,Industrial Gas,Pulp&Paper,Chemical,Mechanical Construction,Power Generation and Refining Etc.

• What We do

NSV Valve has been committed to manufacturing cast and forged steel industrial valves include Ball,GGC(Gate,Globe,Check,Strainer),Plug,Butterfly and Control valves(through our 5 workshops) that material are carbon steel,stainless steel, and also offer a wide range of material such as Ni-Al-Bronze,Monel,Inconel,Duplex,Super Duplex,and Alloy Materials,with quality innovative designs,recognized by many global users and EPC's. All sizes,pressure classes,and metallurgical compositions are managed in house utilizing the strictest quality control measures to ensure the customer's total satisfaction.

• Why Choose NSV Valve

At the heart of our operations is our core philosophy: **New Innovation** · **Secure & Stable** · **Valve Solutions** three pillars that define everything we do.

- **New Innovation** - We don't just follow standards; we develop application-specific designs to solve unique challenges in oil & gas, LNG, power, and chemical industries.
- **Secure & Stable** - Every valve we deliver is built for safety and reliability, meeting rigorous international standards to protect your processes and assets.
- **Valve Solutions** - From standard API-certified products to fully customized ball, gate, globe, and butterfly valves, we provide the right solution for every project requirement.

We don't just manufacture valves; we provide security for critical flow control systems. By integrating advanced CNC machining, rigorous pressure testing, and a global supply chain mindset, we ensure that every valve bearing the NSV mark delivers on our promise: Innovation that solves. Security that protects. Solutions that deliver.

Whether you are looking for standard valves or custom solutions for complex projects, NSV Valve is your partner in flow control excellence.

CORPORATE CULTURE



COMPANY POSITIONING

- NSV Valve Corporation is a manufacturer and global trading company and supplier in the Valve industry specialized in standard & customized valves.



SENSE OF WORTH

- **N-New Innovation**
We develop advanced, application-specific valve designs to solve unique challenges in oil & gas, LNG, power and chemical industries.
- **S-Secure & Stable**
Our valves are built for safety and stability, meeting international standards to protect your processes and assets.
- **V-Valve Solutions**
From standard to fully customized ball, gate, globe and plug valves etc,we deliver reliable solutions for every project requirement.



CORPORATE VISION

- To be the preferred global partner for innovative, reliable, and complete valve solutions — recognized for engineering excellence and customer-centric service.

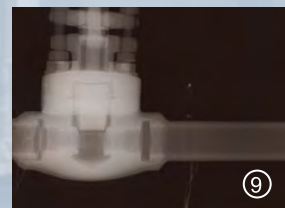




Quality Control

NSV developed an extensive and advanced inspection and test facilities to control the quality from rough casting/forging to final products. These facilities enable us to do Positive Material Identification (PMI), Radiographic test(RT), Ultra-sonic test(UT), Dye-penetration test, Magnetic particle test, Impact test, Tensile test, Hardness test, Fire-safe test, Cryogenic test, Vacuum test, Fugitive emission test, Pressure test.

1. All our valves are 100% Pressure tested prior to dispatch.
2. We can supply either 3.1B certification or Certificate of Conformity.
3. We accommodate other 3rd Party or user inspection by prior agreement.



- ① PMI Test
- ② Tensile Test
- ③ Magnetic Particle Test
- ④ Impact Test
- ⑤ Dye-penetration Test

- ⑥ Pressure Test
- ⑦ Ultrasonic Test
- ⑧ Fire-safe Test
- ⑨ RT Test
- ⑩ Cryogenic Test

PRODUCT WARRANTY

NSV will replace without charge or refund the purchase price of products provided by seller which prove to be defective in material or fabrication, provided in each case that product is properly installed and is used in the service for which Seller recommends it and that written claim, specifying the alleged defect, is presented to the Seller within 18 months from the date of shipment or 12 months after installation, whichever occurs first. Seller shall in no event bear any labor, equipment, engineering or other costs incurred in connection with repair or replacement. The warranty stated in paragraph is instead of all other warranties, either expressed or implied. With respect to warranties, this paragraph states Buyer's exclusive remedy and seller's exclusive liability.



Conventional valve

		Material	P-T	Standard	1/2"	1"	1.5"	2"	2.5"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
Conventional Valve	Gate Valve	Carbon Steel Stainless Steel Alloy Steel	ASME B16.34	API600/ISO10434; API603; API602/ISO15761	150	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
					300	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
					600	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
					800	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
					900	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
					1500	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
					2500	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
	Globe Valve			BS1873; API603; API602/ISO15761	150	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
					300	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
					600	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
					800	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
	Check Valve			BS1868; API603; API602/ISO15761	150	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
					300	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
					600	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
					800	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
					900	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
					1500	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
					2500	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
	Ball Valve			BS5351/ISO17292 API6D/ISO14313	150	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
					300	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
					600	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
					800	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
					900	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
					1500	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
					2500	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
	Plug Valve			API6D/ ISO14313	150	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
					300	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
					600	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
	Butterfly Valve			API609	150			◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
					300			◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
					600			◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆

Other size contact NSV sales team

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Sleeve Type Plug Valve

01-04

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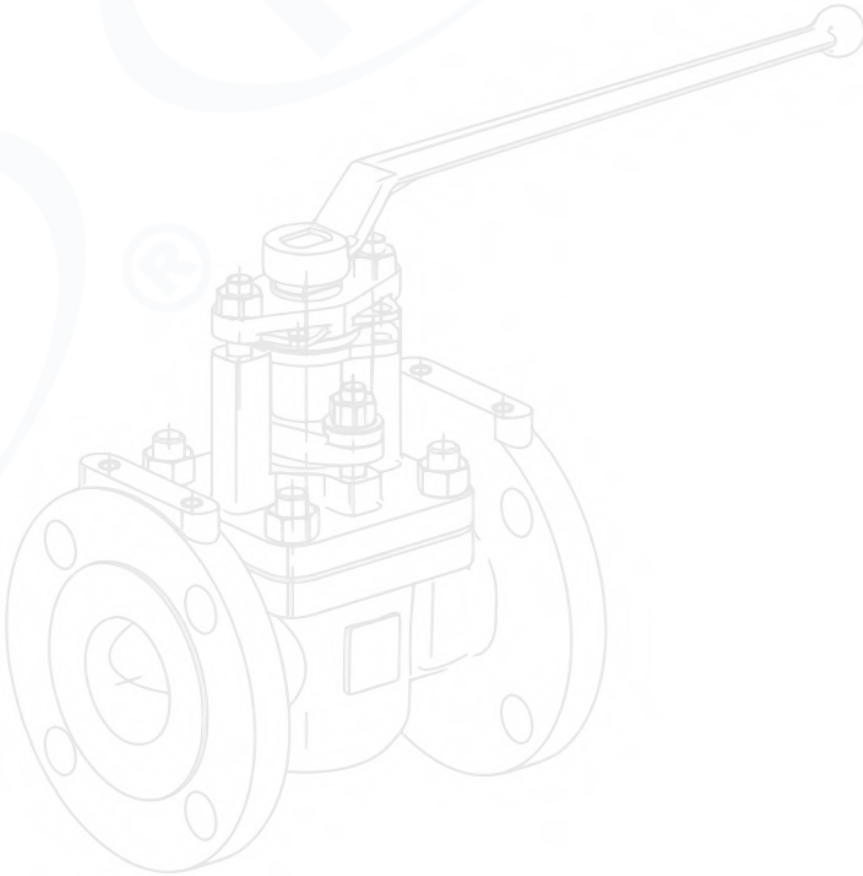
3-Way&4-Way Sleeve Type Plug Valve

05-06

03

Inverted Pressure Balance Lubricated Plug Valve

07-10



Product structural features

Sleeve type soft sealing plug valve acc.to ANSL is applicable to the cutting and connection of pipelines medium that are used in various industries such as petroleum, chemical industry, pharmacy, chemical fertilizer, power industry etc under nominal pressure of CLASS 150-900Lbs, and working temperature of -29~180°C.

Main structural features

- 1、The product has reasonable structure, reliable sealing, excellent performance and beautiful appearance.
- 2、The sealing is realized by the sealing face around the sleeve. It has unique 360 degree metal edge for protection and fixing of the sleeve.
- 3、There is no cavity in the valve for accumulation of medium.
- 4、Metal edge provides the function of self-cleaning when the plug is rotated, applicable to the operation condition that is glutinous and apt to smudge.
- 5、The characteristic double-direction flow makes installation and use more convenient.
- 6、The materials of the parts and sizes of flanges can be reasonably configured according to the actual operation condition of the requirements of the Customers, so as to meet hte various needs of engineering.

Special Design

NSV offers a fully adjustable in- line seal adopts double gland flange structure.

Firstly,Bolts in the top gland provide quick and easy adjust plug in order to seat sealing control;

Second,Bolts in the down gland provide easy adjust out potential stem leakage.

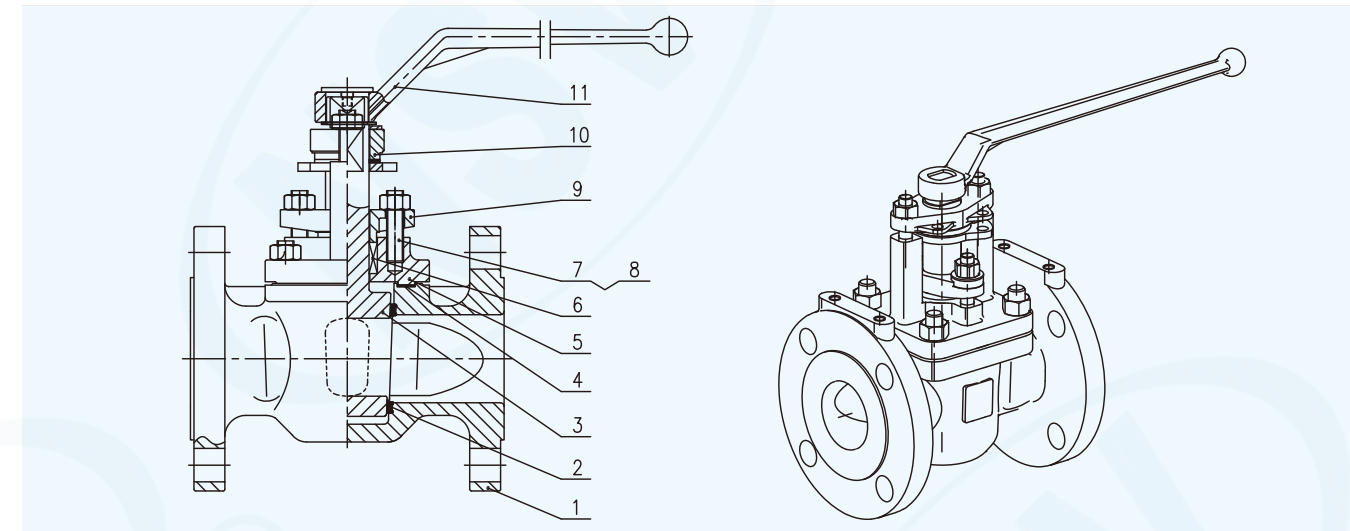
Technical specification

Structural formation	BC
Driving maner	Wrench wheel, worm & worm gear, pneumatic, electric-actuated
Design standard	API 599, API 6D
Face to face	ASME B16.10
Flange ends	ASME B16.5
Test & inspection	API 598, API 6D

Products performance specification

Nominal pressure	Shell test(MPa)	Sealing test(MPa)	Suitable temp.	Suitable medium
150	3.0	2.2	≤180°C	Water oil & gas
300	7.5	5.5		
600	15.0	11.0		
900	22.5	16.5		

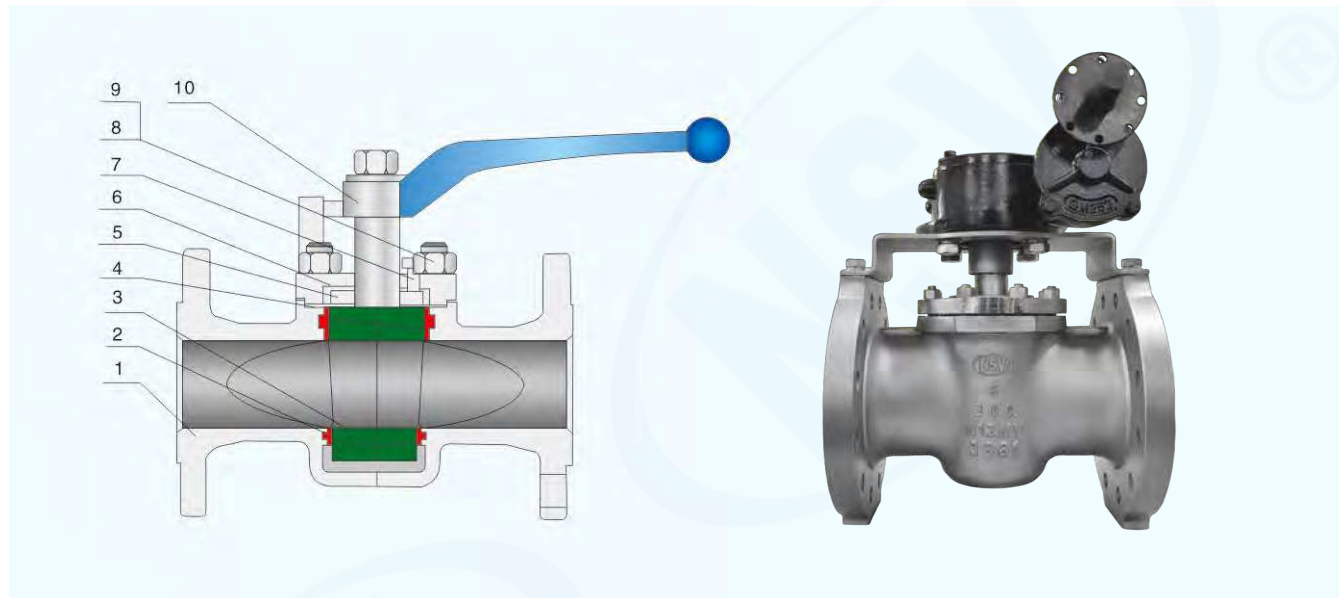
Standard double gland design



Main parts materials

NO.	Part Name	Material
1	Body	ASTM A216 WCB ASTM A351-CF8, CF8M, CF3M
2	Plug	ASTM A216 WCB ASTM A351-CF8, CF8M, CF3M
3	Sleeve	PTFE
4	Gasket	PTFE
5	Cover	ASTM A216 WCB A351 CF8M,CF3M
6	Packing	PTFE
7	Nut	ASTM A194-2H,A194-8M
8	Bolt	ASTM A193-B7,A194-B8M
9	Gland Flange	ASTM A216 WCB,A351 CF8
10	Plug Gland	ASTM A216 WCB,A351 CF8
11	Wrench	CS

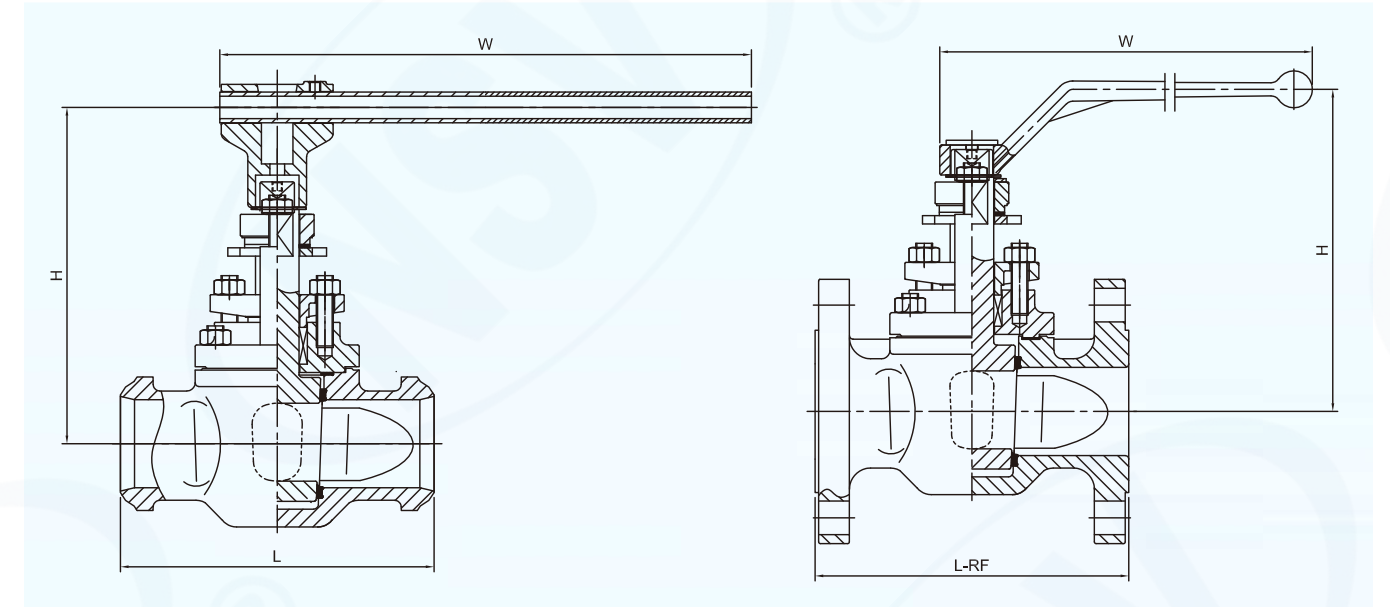
Customized diaphragm design



Main parts materials

NO.	Part Name	Material
1	Body	ASTM A216 WCB ASTM A351-CF8, CF8M, CF3M
2	Sleeve	PTFE
3	Plug	ASTM A217-WC1, WC6, WC9, C5 ASTM A351-CF8, CF8M, CF3, CF3M
4	Gasket	Flexible graphite+Stainless steel, PTFE
5	Adjusting gasket	ASTM A182-Gr.F6a ASTM A182-F22 ASTM A182-F304, F316, F321, F304L, F316
6	Cover	ASTM A216-WCB ASTM A351-CF8, CF8M, CF3,CF3M
7	Adjusting bolt	ASTM A193-B7, A193-B8, A193-B8M
8	Nut	ASTM A194-2H, A194-8, A194-8M
9	Bolt	ASTM A193-B7, A193-B8, A193-B8M
10	Wrench	ASTM A216-WCB

Dimensions



Model		X43F-150Lb														
Pressure		150Lb														
Size	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
	in	1/2	3/4	1	1 1/4	1 1/2	2	1 1/2	3	4	5	6	8	10	12	14
L-RF		108	117	127	140	165	178	190	203	229	254	267	292	330	356	381
L-BW		152	178	203	216	229	267	305	330	356	381	394	457	559	635	686
H		110	115	115	135	140	150	165	180	380	460	520	580	620	680	760
W		175	175	175	220	280	305	350	405	300	300	320	320	350	380	450
Weight(kg)		8.5	9.5	10.5	12	14	18	22	26	40	60	70	130	219	381	570

4" or above with worm gear

Model		X43F-300Lb														
Pressure		300Lb														
Size	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
	in	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14
L-RF		140	152	165	178	190	216	241	282	305	381	403	419	457	502	762
L-BW		152	178	203	216	229	267	305	330	356	381	457	521	559	635	762
H		110	115	115	135	140	150	165	180	380	460	520	580	620	680	760
W		175	175	175	220	280	305	350	405	300	300	320	320	350	380	450
Weight(kg)		9.5	10.5	12	14	16	20	24	29	53	75	85	185	230	390	550

4" or above with worm gear

Product structural features

3-way、4-way plug valve is applicable to change the media flowing direction or to distribute the media, that are used in various industries such as petroleum chemical industry, pharmacy, chemical fertilizer, power in dustry etc under nominal pressure class 150–900LBS, PN1.6–16MPa, working temperature of –29–550℃.

Main structural features

- 1、The product has reasonable structure, reliable sealing, excellent performance and beautiful appearance.
- 2、According to different conditions, the 3-way、4-way plug valve can be designed into diverseful media flowing forms(eg."L" type or "T" type) or all kinds of materials (eg.Iron、cast steel、stainless steel) or unlike sealing froms (eg.Metal to metal, sleeve Type, lubricated, ect)
- 3、The materials of the parts and sizes of flanges can be reasonably configured according the actual operation condition of the requirements of the customers, so as to meet the varionus needs of engineering.

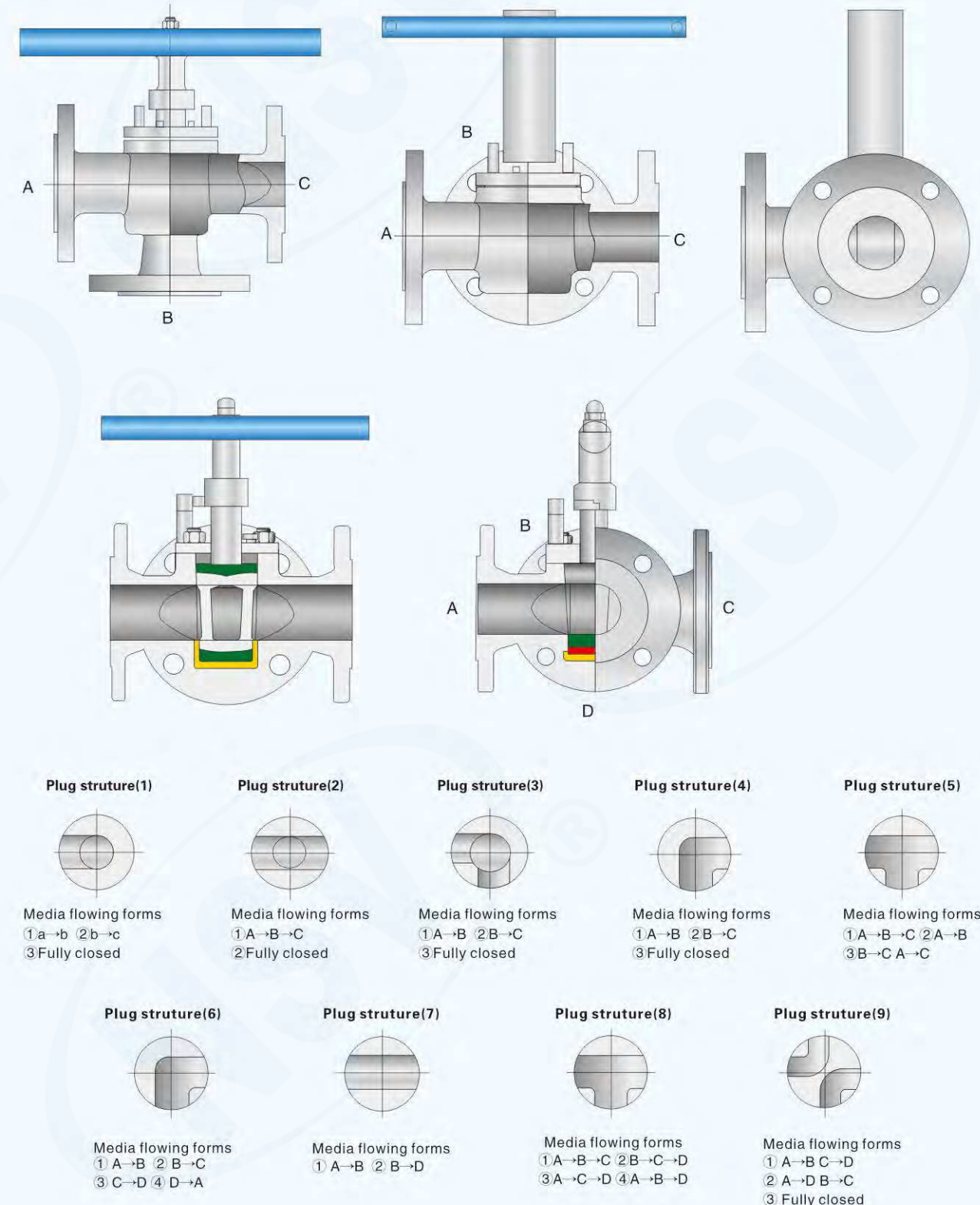
Technical specificaltion

Structural formation	BB–BC
Driving manner	Wrench wheel, worm & worm gear, pneumatic, electric–actuated
Design standard	API 599, API 6D
Face to face	ASME B16.10、GB12221、DIN3202
Flange ends	ASME B16.5、JB79、GB9113、DIN2543–2545
Test & inspection	API 598、API 6D、GB13927、DIN3230

Products performance specification

Nominal pressure	Shell test(MPa)	Sealing test(MPa)	Nominal pressure	Shell test(MPa)	Sealing test(MPa)
150	3.0	2.2	1.6	2.4	1.76
300	7.5	5.5	2.5	3.75	2.75
600	15.0	11.0	4.0	6.0	4.4
900	22.5	16.5	6.4	9.6	7.04
			10.0	15.0	11.0
			16.0	24.0	17.6

Bore forms & media flowing forms for 3–way, 4–way plug valve



Product structural features

Inverted pressure balance lubricated plug valve acc. to ANSI is applicable to the cutting and connection of pipelines medium that are used in various industries such as petroleum, chemical industry, pharmacy, chemical fertilizer, electric power industry etc under nominal pressure of CLASS150-1500LBS and working temperature from -29 to 180℃.

Main structural features

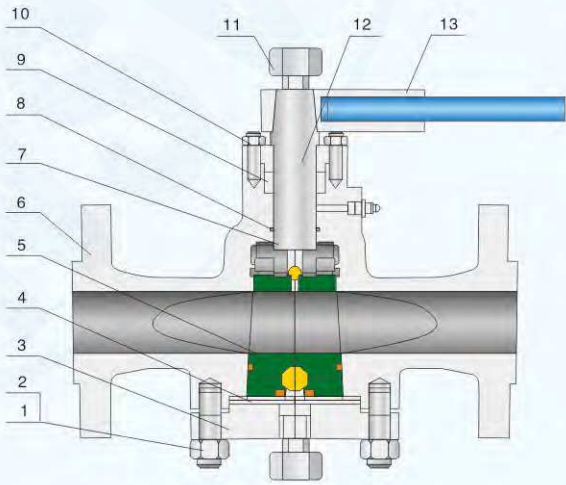
- 1、It has logical structure, reliable seal, excellent performance and nice design.
- 2、It has the structure of flip-chip balance pressure and light on/off operation.
- 3、An oil groove is set between valve body and seal surface,which may infuse the seal grease to increase the seal capability.
- 4、The part material and flange dimension may be selected according to current operating condition and users requirement, so that meet the Requirements of various engineering.

Technical specification

Structural formation	BC
Driving maner	Hand-operated
	Electric-actuated
Design standard	API 599.API 6D
Face to face	ASME B 16.10
Flange ends	ASME B 16.5
Test & inspection	API 598, API 6D

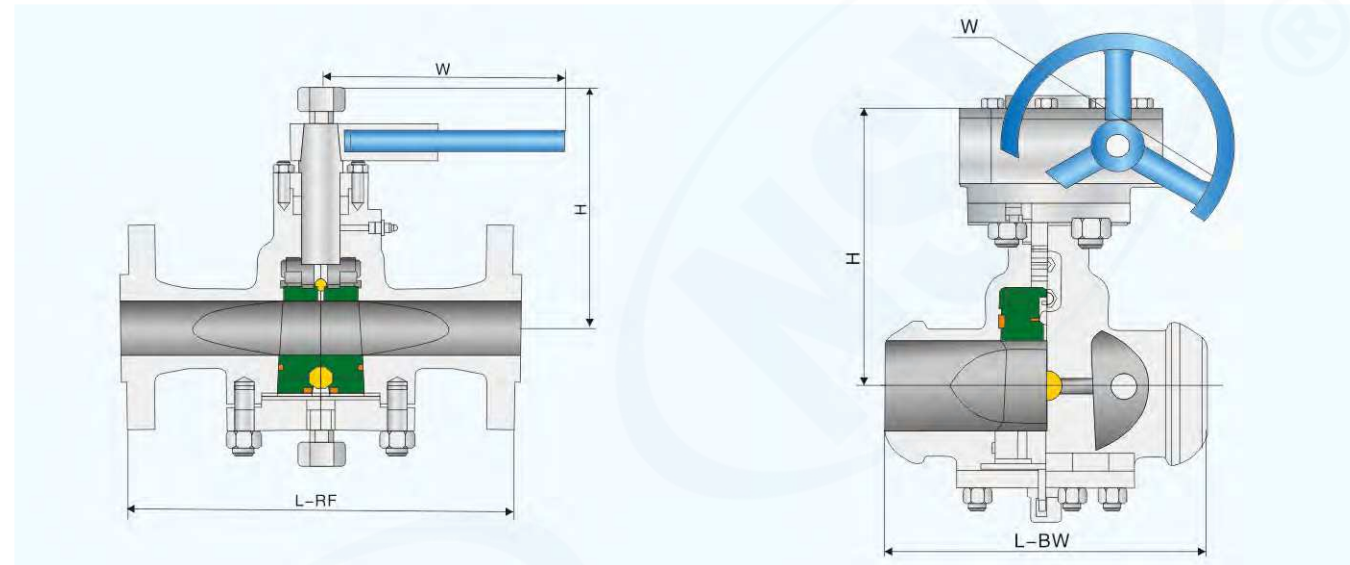
Products performance specification

Nominal pressure (LB)	Shell test(MPa)	Sealing test(MPa)	Suitable temp.(℃)	Suitable medium
150	3.0	2.2	≤180℃	Water oil & gas
300	7.5	5.5		
600	15.0	11.0		
900	22.5	16.5		



Main parts materials

NO	Part name	Material
1	Bolt	ASTM A193-B7、A193-B8、A193-B8M
2	Nut	ASTM A194-2H、A194-8、A194-8M
3	Cover	ASTM A216-WCB ASTM A351-CF8、CF8M、CF3、CF3M
4	Gasket	Flexible graphite+stainless steel、PTFE
5	Plug	ASTM A182-Gr.F6a, ASTM A182-F22 ASTM A351-CF8、CF8M、CF3、CF3M
6	Body	ASTM A216-WCB ASTM A351-CF8、CF8M、CF3、CF3M
7	Stem	ASTM A182-Gr.F6a, ASTM A182-F22 ASTM A182-F304、F316、F312、F304L、F316L
8	O-ring	NBR, PTFE, Viton
9	Packing	Flexible graphite、PTFE
10	Gland	ASTM A216-WCB ASTM A351-CF8、CFB8M、CF3、CF3M
11	Oil nozzle	B62
12	Check valve	F6a、F304、F304L、F316、F316L
13	Wrench	DI, CS

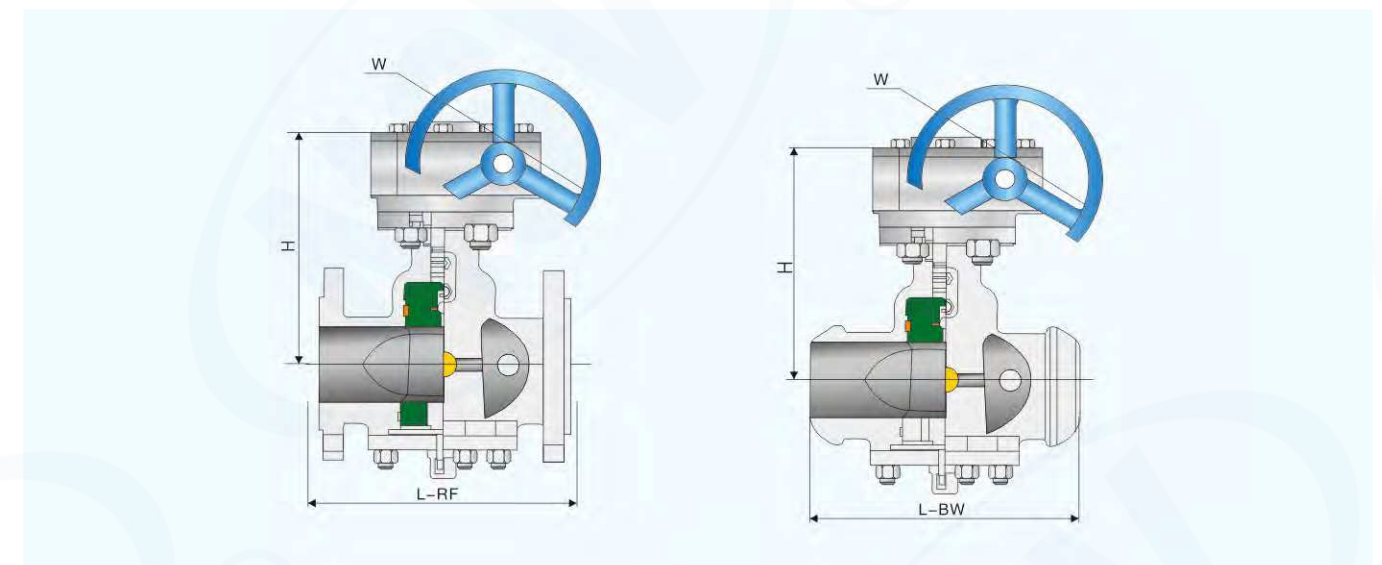


Model		X47F-150Lb														
Pressure		150Lb														
Size	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
	in	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14
L-RF		108	117	127	140	165	178	190	203	229	245	267	292	330	356	686
L-BW		152	178	203	216	229	267	305	330	356	381	457	521	559	635	686
H		180	180	185	200	210	215	250	270	300	340	365	400	450	510	590
W		400	400	500	500	600	600	820	820	300	300	320	320	350	380	380
Weight(Kg)		10	12	14	17	19	21	29	33	48	75	98	125	171	230	370

4" or above with worm gear

Model		X47F-300Lb														
Pressure		300Lb														
Size	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
	in	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14
L-RF		140	152	165	178	190	216	241	283	305	381	403	419	457	502	762
L-BW		152	178	203	216	229	267	305	330	356	381	457	521	559	635	762
H		180	180	185	200	210	215	250	270	300	340	365	400	450	510	590
W		400	400	500	600	600	820	1000	1000	300	300	320	320	350	380	380
Weight(Kg)		12	14	16	19	21	24	31	36	61	86	130	190	255	380	560

4" or above with worm gear



Model		X47F-600Lb														
Pressure		600Lb														
Size	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
	in	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14
L-RF · BW		165	190	216	229	241	292	330	356	432	508	559	660	787	838	889
H		180	180	185	200	210	215	250	270	300	340	365	400	450	510	590
W		400	400	500	500	600	820	1000	1000	300	300	320	320	350	380	380
Weight(Kg)		14	16	18	20	24	29	35	47	91	129	210	320	660	920	1250

4" or above with worm gear

Model		X47F-900Lb														
Pressure		900Lb														
Size	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350
	in	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14
L-RF · BW		229	229	254	279	305	368	419	381	457	559	610	737	838	965	1029
H		180	180	185	200	210	215	250	270	300	340	365	400	450	510	590
W		400	400	500	600	600	820	1000	1000	300	300	320	320	350	380	380
Weight(Kg)		17	29	21	24	30	37	44	65	110	160	255	380	810	1050	1460

4" or above with worm gear