

NSV NSV VALVE

Offset Butterfly Valve

Offset Butterfly Valve adopts eccentric structure to lower friction. It is easy to operate with reliable sealing. Various seals and actuators are optional for fluid control in chemical, water and oil-gas pipelines.



NSV Valve Series

PRODUCT

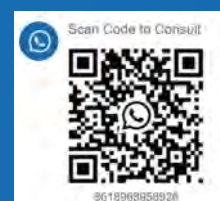


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COMPANY PROFILE



• 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 including Ball, GGC (Gate, Globe, Check, Strainer), Plug, Butterfly and Control valves (through our 5 workshops) that materials are carbon steel, stainless steel, and also offer a wide range of materials 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.

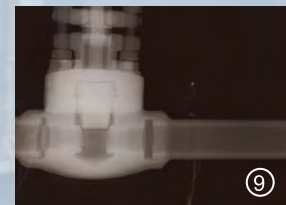




Quality Control

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 or 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.



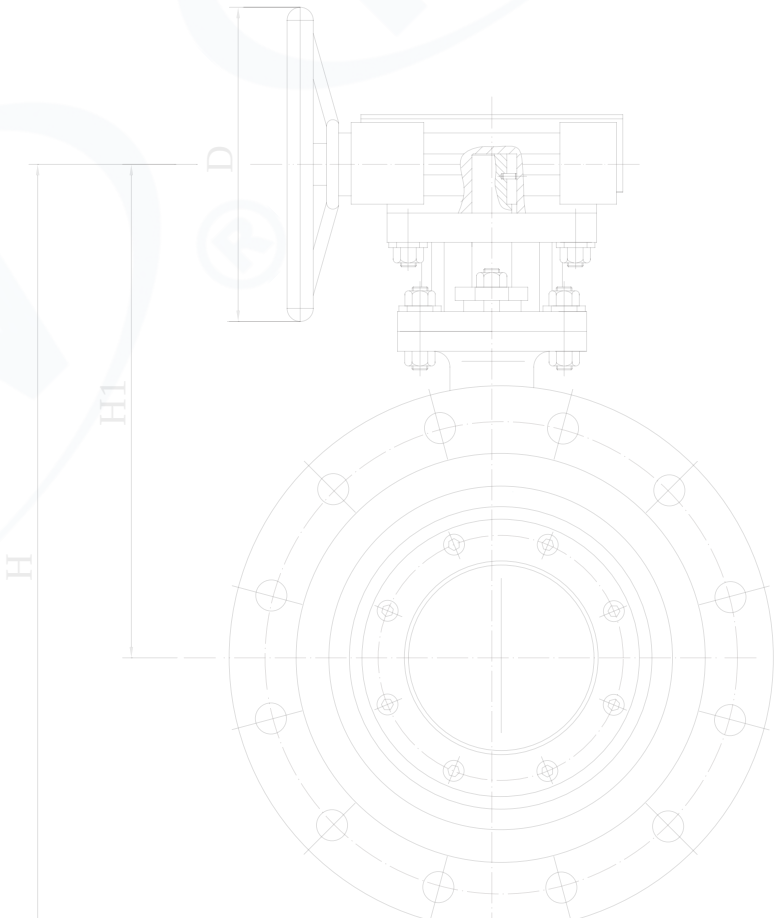
Conventional valve

				1/2"	1"	1.5"	2"	2.5"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	
Standard	P-T	Material	Gate Valve	API600/ISO10434; API603; API602/ISO15761	150	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
					300	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
600	◆	◆	◆		◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆		
800	◆	◆	◆		◆																
900	◆	◆	◆		◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
1500	◆	◆	◆		◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
2500	◆	◆	◆		◆																
BS1873; API603; API602/ISO15761	150	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
	300	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
	600	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
	800	◆	◆	◆	◆																
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	1500	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
	2500	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
BS1868; API603; API602/ISO15761	150	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
	300	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
	600	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
	800	◆	◆	◆	◆																
	900	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
	1500	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
	2500	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
BS5351/ISO17292 API6D/ISO114313	150	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
	300	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
	600	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
	800	◆	◆	◆	◆																
	900	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
	1500	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
	2500	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
API6D/ ISO14313	150	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
	300	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
	600	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
API609	150				◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
	300				◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
	600				◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	

Other size contact NSV sales team

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Applicable Standards

- Basic Design: **API 609, EN 593**
- Face to Face: **ASME B16.10, API 609, EN 558**
- Flange End: **ASME B16.5 (up to 24"),**
ASME B16.47 series A or B (26" and above)
EN 1092
- Test and Inspection: **API 598, EN 12266**
- Fire-safe Test: **API 607**
- Fugitive Emission Test: **ISO 15848-2**
- Type Testing for FE: **ISO 15848-1, API 641**
- Manufacturing to NACE latest version on request



Specifications

- Size Range: **2" ~ 42"**
- Pressure Range: **150LB ~ 600LB**
- End Connection: **Double Flange / Lug / Wafer / Butt-Weld**
- Bore: **Full bore**
- Operation: **Manual operation, Actuated operation**
- Material: **Body: Carbon steel, Stainless steel, etc.**
Disc: Carbon steel, Stainless steel, etc.
Seat: Metal to Metal, Metal+Graphite

Note: Additional sizes and pressure classes are available upon request.

Triple Offset Butterfly Valve

Yoke designed as per ISO 5211 to allow for the easy installation of gear box and actuators.

API 622 packing is provided to ensure excellent low emission performance.

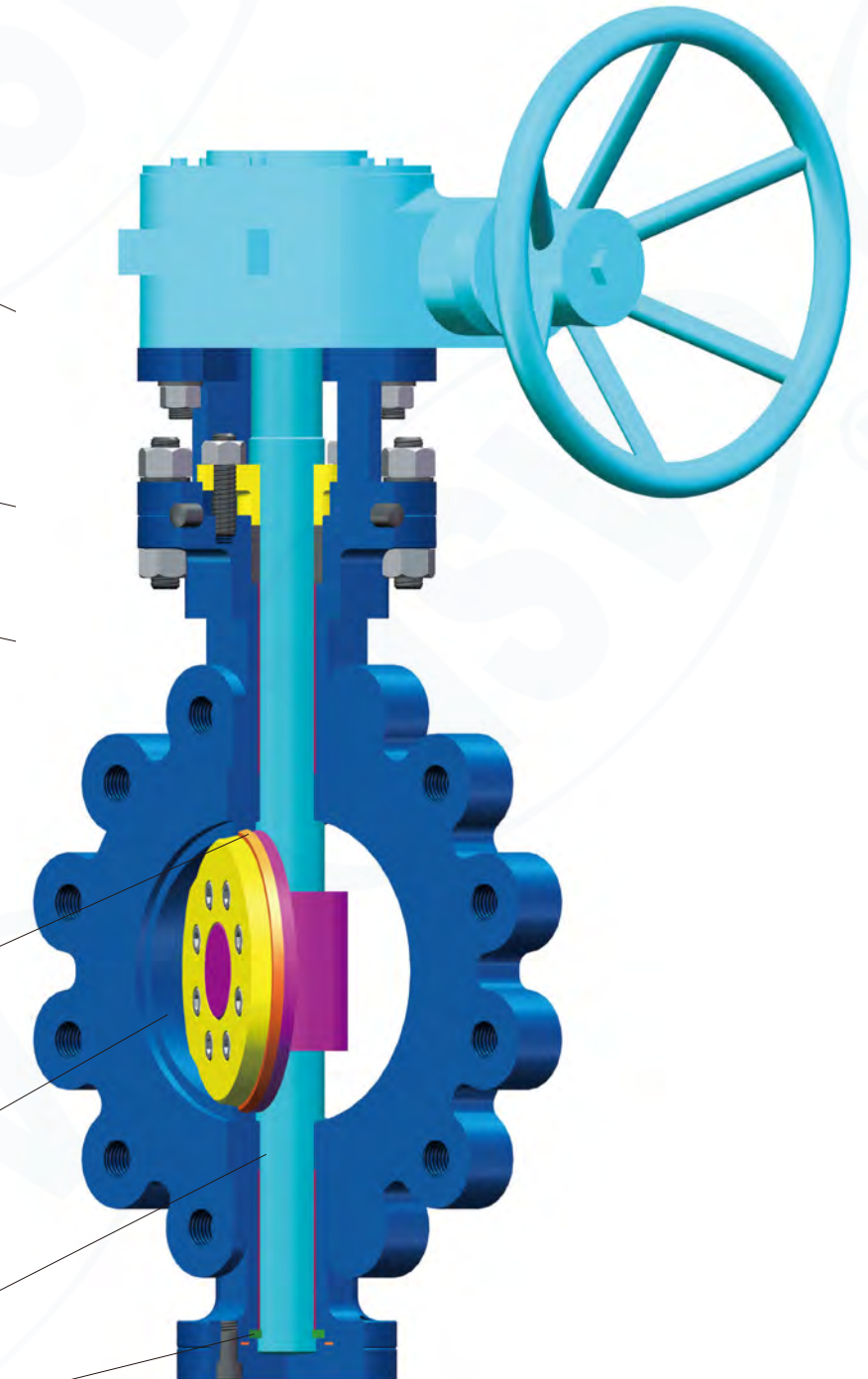
Upper extended bearing design reduces shaft friction to achieve lower torque.

Laminated Seal: Replaceable graphite & stainless steel assures zero leakage. Easy seal ring maintenance and replacement.

Hard-faced integral seat provides long life and reduces maintenance frequency.

Lower extended bearing design reduces shaft friction to achieve lower torque.

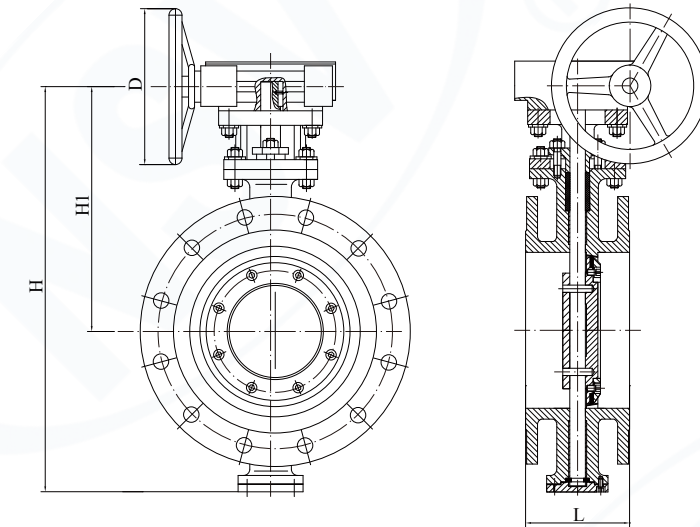
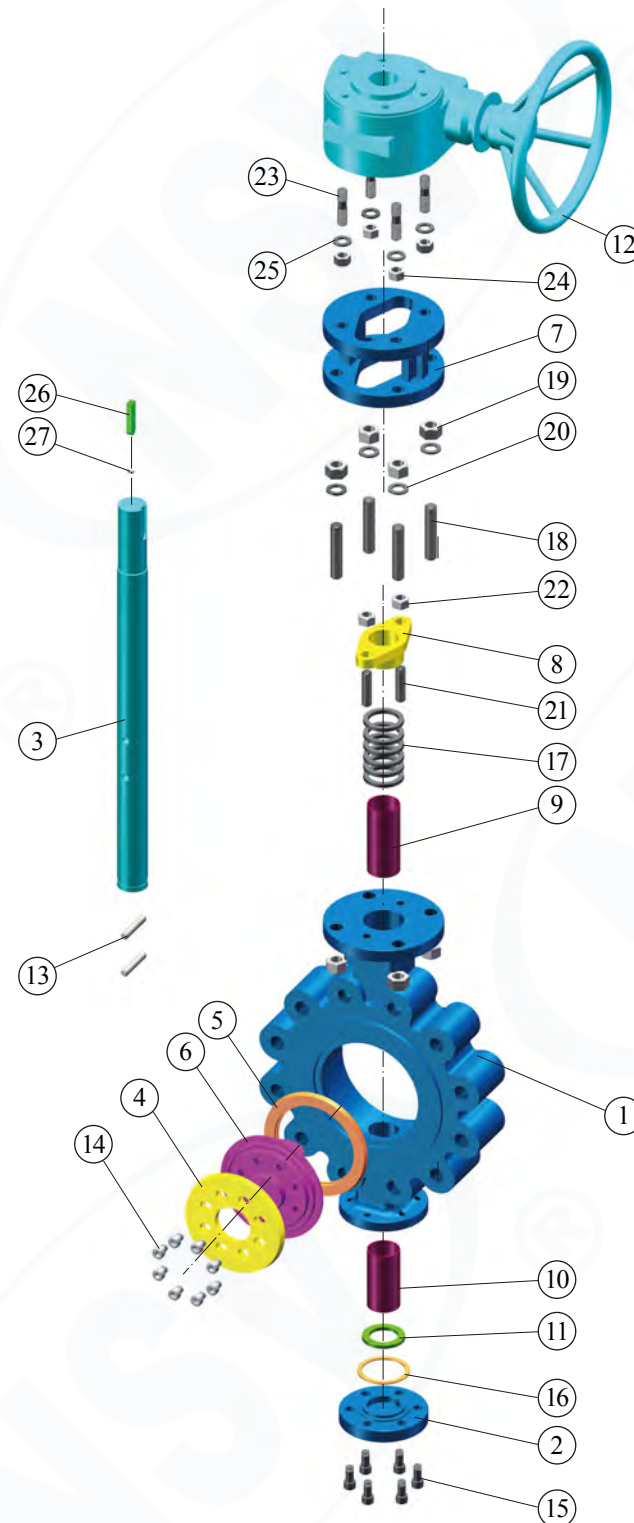
Shaft retainer for blow out protection.



Material Specification

No.	Description	Material
1	Body	ASTM A216 WCB
2	End cover	ASTM A105
3	Stem	ASTM A182 F316
4	Ring Retainer	ASTM A105
5	Seal ring	LAMINATED 316+FLEXIBLE GRAPHITE
6	Disc	ASTM A216 WCB
7	Yoke	ASTM A216 WCB
8	Packing Gland	ASTM A216 WCB
9	Bushing	316 NITRIED
10	Bushing	316 NITRIED
11	Split Collar	ASTM A276 410
12	Gear	ASTM A216 WCB
13	Straight Pin	STAINLESS STEEL
14	Hex Screw	STAINLESS STEEL
15	Hex Screw	STAINLESS STEEL
16	Spiral Wound Gasket	316+FLEXIBLE GRAPHITE
17	Packing	FLEXIBLE GRAPHITE
18	Bolt	ASTM A193 B7
19	Nut	ASTM A194 2H
20	Flat Washer	CARBON STEEL
21	Bolt	ASTM A193 B7
22	Nut	ASTM A194 2H
23	Bolt	ASTM A193 B7
24	Nut	ASTM A194 2H
25	Flat Washer	CARBON STEEL
26	Key	CARBON STEEL
27	Straight Pin	STAINLESS STEEL

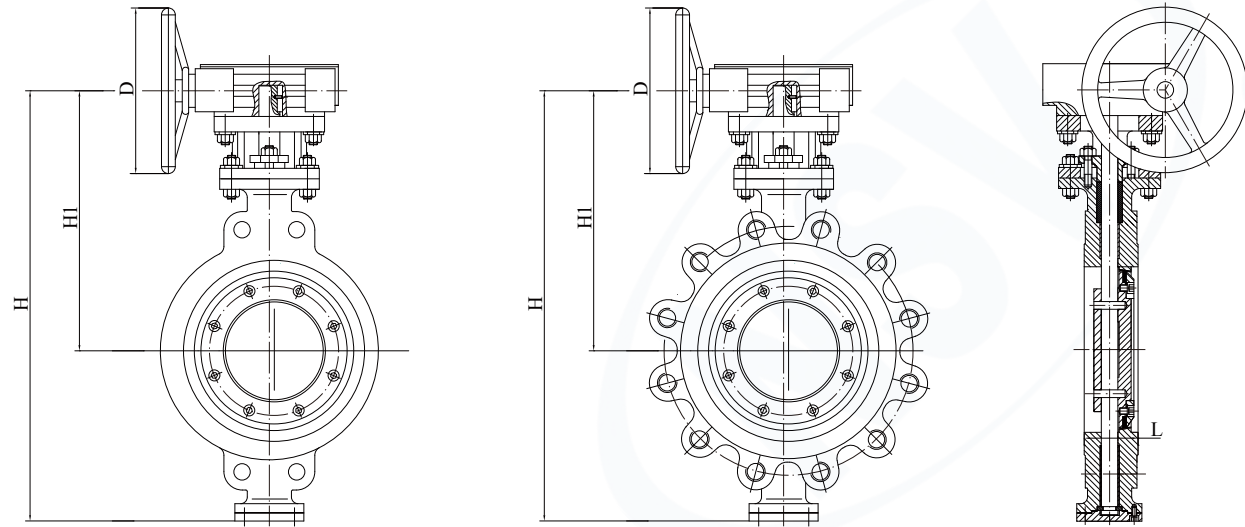
General Note: Materials shown in the table are typical configurations, a variety of other material configurations are available according to customer requirements. Please consult a NSV representative for further details.



150LB																			
Description			Valve Size																
			3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	28"	30"	32"	36"		
F - F Dimension L	Short Pattern	mm	114	127	140	152	165	178	190	216	222	229	267	292	908	318	330		
		in	4.49	5.00	5.51	5.98	6.50	7.01	7.48	8.50	8.74	9.02	10.51	11.50	35.75	12.52	12.99		
	Long Pattern	mm	203	229	267	292	330	356	381	406	432	457	508	610	610	660	711		
		in	7.99	9.02	10.51	11.50	12.99	14.02	15.00	15.98	17.01	17.99	20.00	24.02	24.02	25.98	27.99		
Height	H	mm	472	520	653	773	880	989	1044	1142	1228	1337	1554	1456	1541	1611	1743		
		in	18.58	20.47	25.71	30.43	34.65	38.94	41.10	44.96	48.35	52.64	61.18	57.32	60.67	63.43	68.62		
	H1	mm	350	388	475	565	640	71	780	826	887	959	1100	956	991	1036	1103		
		in	13.78	15.28	18.70	22.24	25.20	2.80	30.71	32.52	34.92	37.76	43.31	37.64	39.02	40.79	43.43		
Handwheel Dia	D	mm	203	203	305	460	460	810	356	457	810	762	762	315	400	400	400		
		in	7.99	7.99	12.01	18.11	18.11	31.89	14.02	17.99	31.89	30.00	30.00	12.40	15.75	15.75	15.75		
Weight		Kg	15.4	23	33	50	73	108	143	186	234	277	408	653	816	914	1157		
		lb	34.0	50.7	72.8	110.2	160.9	238.1	315.3	410.1	515.9	610.7	899.5	1439.6	1799.0	2015.0	2550.7		

300LB		Valve Size															
Description																	
F - F Dimension L	Short Pattern	mm	180	190	210	230	250	270	290	310	330	350	390	-	-	-	-
	Long Pattern	in	7.09	7.48	8.27	9.06	9.84	10.63	11.42	12.20	12.99	13.78	15.35	-	-	-	-
		mm	282	305	403	419	457	502	562	622	682	742	802	914	991	1143	-
Height	H	mm	378	421	543	628	855	812	885.00	951	1106	1308	1445	1495	1535	1575	1605
	H1	in	14.88	16.57	21.38	24.72	33.66	31.97	34.84	37.44	43.54	51.50	56.89	58.86	60.43	62.01	63.19
		mm	253	274	351	392	480	515	555	690	636	685	934	1039	1060	1120	1190
Handwheel Dia	D	mm	152	305	305	305	610	610	610	356	356	356	688	686	686	686	686
		in	5.98	12.01	12.01	12.01	24.02	24.02	24.02	14.02	14.02	14.02	27.09	27.01	27.01	27.01	27.01
	Weight	Kg	29	39	54	84	118	170	231	299	390	499	726	1360	1429	1757	2223
		lb	63.9	86.0	119.0	185.2	260.1	374.8	509.3	659.2	859.8	1100.1	1600.5	2998.3	3150.4	3873.5	4900.8

600LB		Valve Size									
Description											
F - F Dimension	L	mm	190	210	230	250	270	290	310	330	390
		in	7.48	8.27	9.06	9.84	10.63	11.42	12.20	12.99	15.35
Height	H	mm	520	635	700	975	1115	1145	1195	1315	1475
	H1	in	20.47	25.00	27.56	38.39	43.90	45.08	47.05	51.77	58.07
		mm	340	400	440	660	755	770	780	855	975
Handwheel Dia	D	mm	300	500	600	600	700	750	750	750	750
		in	11.81	19.69	23.62	23.62	27.56	29.53	29.53	29.53	29.53
	Weight	Kg	77	141	203	335	440	570	695	1055	1261
		lb	169.8	310.8	447.5	738.5	970.0	1256.6	1532.2	2325.9	2780.0



150LB													
Description			Valve Size										
F - F Dimension	L	mm	48	57	58	64	71	81	92	102	114	127	154
		in	1.89	2.24	2.28	2.52	2.80	3.19	3.62	4.02	4.49	5.00	6.06
Height	H	mm	320	342	415	510	567	665	739	825	910	990	1210
		in	12.60	13.46	16.34	20.08	22.32	26.18	29.09	32.48	35.83	38.98	47.64
	H1	mm	185	195	243	263	295	342	385	430	469	500	618
		in	7.28	7.68	9.57	10.35	11.61	13.46	15.16	16.93	18.46	19.69	24.33
Handwheel Dia	D	mm	160	160	300	400	400	600	600	600	800	800	400
		in	6.30	6.30	11.81	15.75	15.75	23.62	23.62	23.62	31.50	31.50	15.75
Weight	Wafer	Kg	9	11	17	25	40	61	82	123	150	204	300
		lb	19.8	24.3	37.5	55.1	88.2	134.5	180.8	271.2	330.7	449.7	661.4
	Lug	Kg	9	14	20	31	49	79	107	150	182	253	398
		lb	19.8	30.9	44.1	68.3	108.0	174.2	235.9	330.7	401.2	557.8	877.4

300LB													
Description			Valve Size										
F - F Dimension	L	mm	48	54	59	73	83	92	117	133	149	159	181
		in	1.89	2.13	2.32	2.87	3.27	3.62	4.61	5.24	5.87	6.26	7.13
Height	H	mm	320	342	415	510	567	665	739	825	910	990	1210
		in	12.60	13.46	16.34	20.08	22.32	26.18	29.09	32.48	35.83	38.98	47.64
	H1	mm	185	195	243	263	295	342	385	430	469	500	618
		in	7.28	7.68	9.57	10.35	11.61	13.46	15.16	16.93	18.46	19.69	24.33
Handwheel Dia	D	mm	160	160	300	400	400	600	600	600	800	800	600
		in	6.30	6.30	11.81	15.75	15.75	23.62	23.62	23.62	31.50	31.50	23.62
Weight	Wafer	Kg	13.5	18	28	49	68	109	186	264	297	363	454
		lb	29.8	39.7	61.7	108.0	149.9	240.3	410.1	582.0	654.8	800.3	1000.9
	Lug	Kg	15.5	21	34	60	88	117	207	308	408	468	748
		lb	34.2	46.3	75.0	132.3	194.0	257.9	456.4	679.0	899.5	1031.8	1649.0

600LB													
Description			Valve Size										
F - F Dimension	L	mm	64	78	102	117	140	155	178	200	216	232	232
		in	2.52	3.07	4.02	4.61	5.51	6.10	7.01	7.87	8.50	9.13	9.13
Height	H	mm	520	635	700	975	1115	1145	1195	1315	1475	1635	1635
		in	20.47	25.00	27.56	38.39	43.90	45.08	47.05	51.77	58.07	64.37	64.37
	H1	mm	340	400	440	660	755	770	780	855	975	1075	1075
		in	13.39	15.75	17.32	25.98	29.72	30.31	30.71	33.66	38.39	42.32	42.32
Handwheel Dia	D	mm	300	500	600	600	700	750	750	750	750	750	750
		in	11.81	19.69	23.62	23.62	27.56	29.53	29.53	29.53	29.53	29.53	29.53
Weight	Wafer	Kg	40	81	113	186	275	318	430	555	725	990	990
		lb	88.2	178.6	249.1	410.1	606.3	701.1	948.0	1223.6	1598.3	2182.6	2182.6
	Lug	Kg	50	91	142	235	347	518	630	833	1080	1381	1381
		lb	110.2	200.6	313.1	518.1	765.0	1142.0	1388.9	1836.4	2381.0	3044.6	3044.6

Applicable Standards

- Basic Design: **API 609, EN 593**
- Face to Face: **ASME B16.10, API 609, EN 558**
- Flange End: **ASME B16.5 (up to 24"), ASME B16.47 series A or B (26" and above)**
- EN 1092
- Test and Inspection: **API 598, EN 12266**
- Fire-safe Test: **API 607**
- Fugitive Emission Test: **ISO 15848-2**
- Type Testing for FE: **ISO 15848-1, API 641**
- Manufacturing to NACE latest version on request

Specifications

- Size Range: **2" ~ 48"**
- Pressure Range: **150LB ~ 600LB**
- End Connection: **Double Flange / Lug / Wafer**
- Bore: **Full bore**
- Operation: **Manual operation, Actuated operation**
- Material: **Body: Carbon steel, Stainless steel, etc.**
- Disc: Carbon steel, Stainless steel, etc.**
- Seat: Rubber, PTFE, etc**

Note: Additional sizes and pressure classes are available upon request.



Double Offset Butterfly Valve

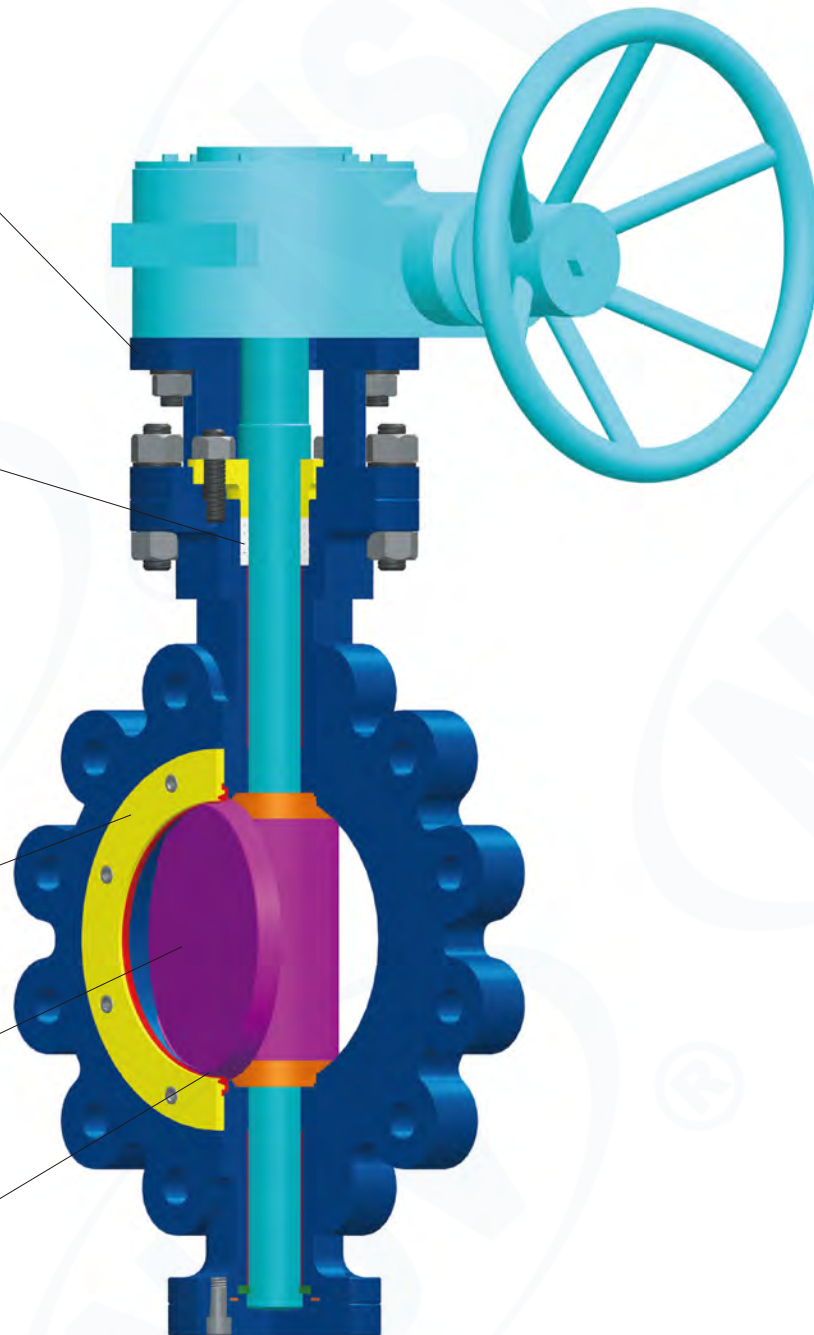
Yoke designed as per ISO 5211 to allow for the easy installation of gear box and actuators.

Standard PTFE V-packing is provided. API 622 packing is available when low emission conditions are required.

Bi-directional sealing performance. Removable seat for easy maintenance.

Double offset design minimizes seat wear and provides lower operating torque.

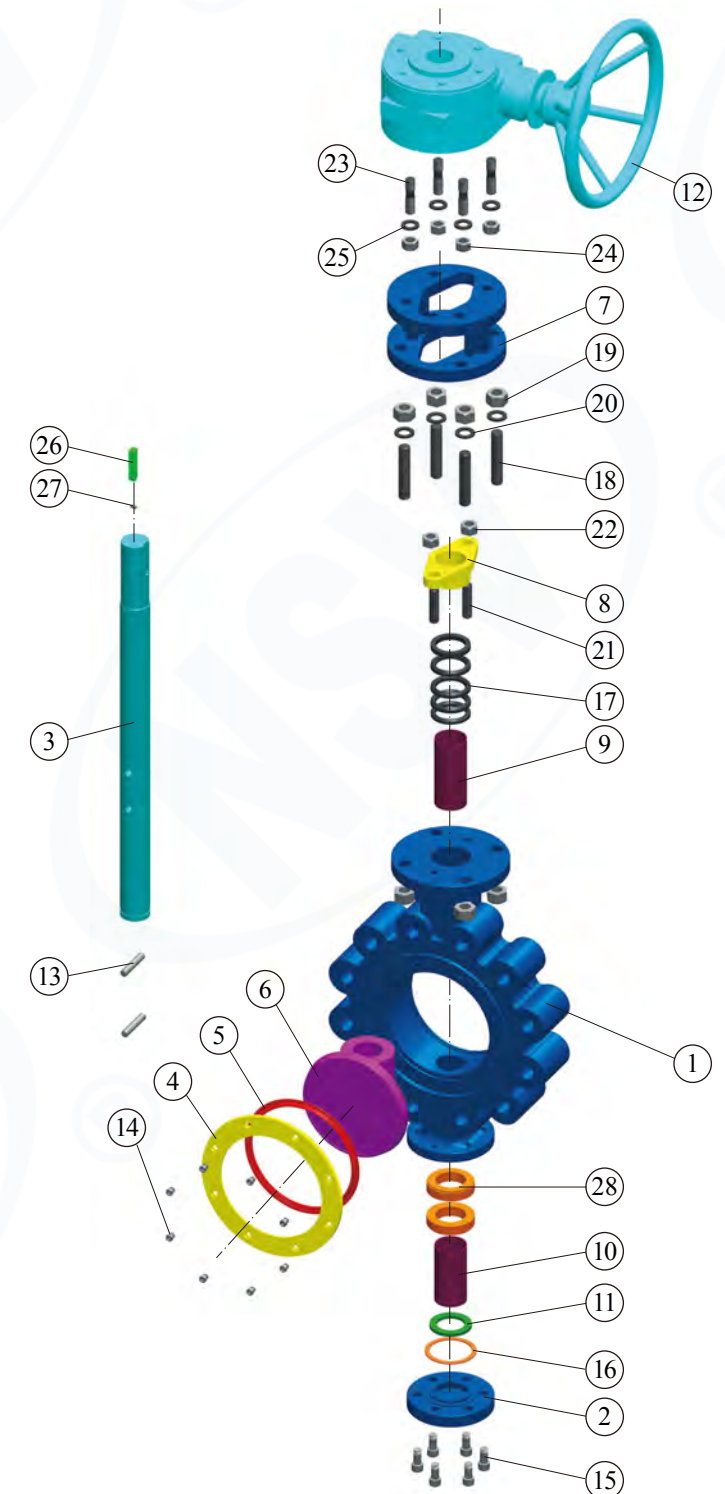
Sealing performance is obtained through positive mechanical torque, and does not rely on line pressure.

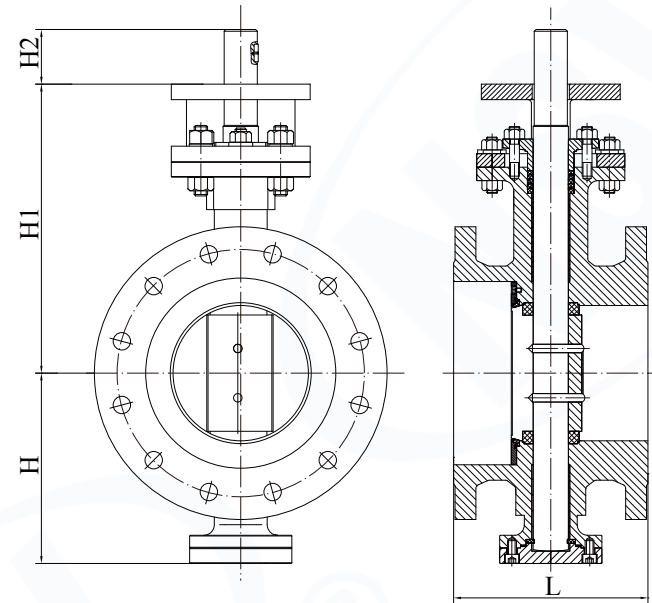


Material Specification

No.	Description	Material
1	Body	ASTM A216 WCB
2	End cover	ASTM A105
3	Stem	ASTM A182 F316
4	Disc	ASTM A216 WCB
5	Seal ring	PTFE
6	Pressure ring	STAINLESS STEEL
7	Yoke	ASTM A216 WCB
8	Packing Gland	ASTM A216 WCB
9	Bushing	316 NITRIED
10	Bushing	316 NITRIED
11	Split Collar	ASTM A276 410
12	Gear	ASTM A216 WCB
13	Straight Pin	STAINLESS STEEL
14	Hex-socket Screw	STAINLESS STEEL
15	Hex-socket Screw	STAINLESS STEEL
16	Spiral Wound Gasket	316+FLEXIBLE GRAPHITE
17	Packing	FLEXIBLE GRAPHITE
18	Bolt	ASTM A193 B7
19	Nut	ASTM A194 2H
20	Flat Washer	CARBON STEEL
21	Bolt	ASTM A193 B7
22	Nut	ASTM A194 2H
23	Bolt	ASTM A193 B7
24	Nut	ASTM A194 2H
25	Flat Washer	CARBON STEEL
26	Key	CARBON STEEL
27	Pin	STAINLESS STEEL
28	Washer	STAINLESS STEEL

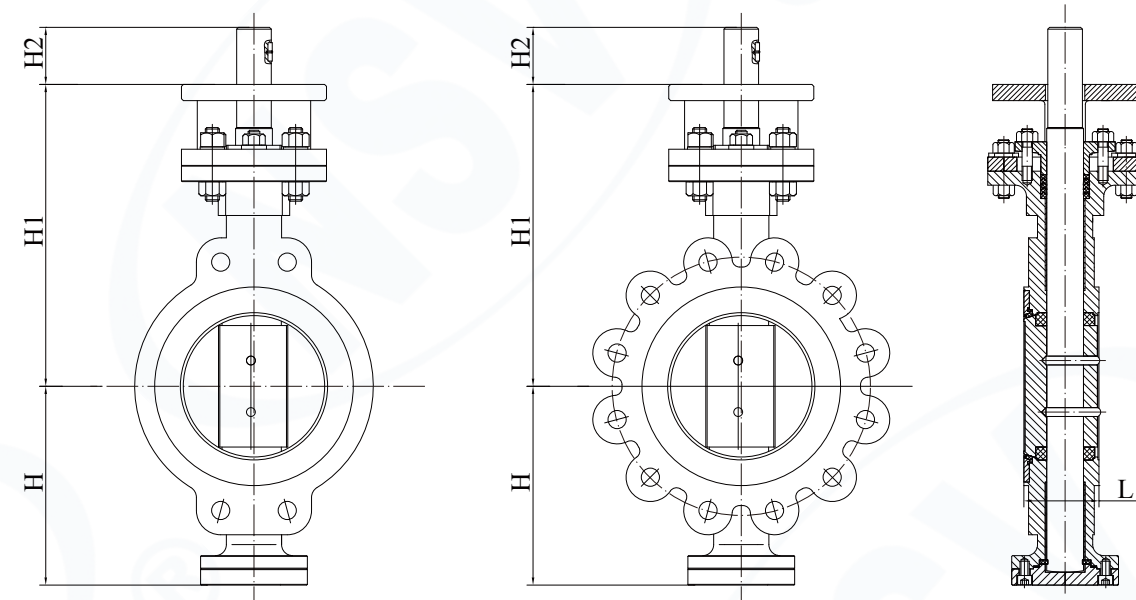
General Note: Materials shown in the table are typical configurations, a variety of other material configurations are available according to customer requirements. Please consult a NSV representative for further details.





150LB																			
Description		Valve Size																	
		2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	28"	30"	32"	36"	40"
F - F Dimension	L	mm	108	114	127	140	140	152	165	178	190	216	222	229	267	292	318	318	330
	L	in	4.25	4.49	5.00	5.51	5.51	5.98	6.50	7.01	7.48	8.50	8.74	9.02	10.51	11.50	12.52	12.52	12.99
Height	H	mm	82	90	105	120	135	193	255	290	300	335	375	470	480	515	540	610	685
		in	3.23	3.54	4.13	4.72	5.31	7.60	10.04	11.42	11.81	13.19	14.76	18.90	20.28	21.26	24.02	26.97	31.50
	H1	mm	163	175	203	235	250	295	340	370	523	555	625	678	775	940	990	1010	1225
		in	6.42	6.89	7.99	9.25	9.84	11.61	13.39	14.57	20.59	21.85	24.61	26.69	30.51	37.01	38.98	39.76	48.23
	H2	mm	40	50	50	45	40	60	60	80	90	90	90	90	105	105	120	125	150
		in	1.57	1.97	1.97	1.77	1.57	2.36	2.36	3.15	3.54	3.54	3.54	3.54	4.13	4.13	4.72	4.92	5.91
Weight		Kg	8	11	15	20	22	55	80	135	150	215	310	385	550	580	800	930	1145
		lb	17.6	24.3	33.1	44.1	48.5	121.3	176.4	297.6	330.7	474.0	683.4	848.8	1212.5	1278.7	1763.7	2050.3	2524.3

300LB														600LB					
Description		Valve Size												Valve Size					
		2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	3"	4"	6"	8"	10"
F - F Dimension	L	mm	108	114	127	140	140	152	165	178	190	216	222	229	180	190	210	230	250
	L	in	4.25	4.49	5.00	5.51	5.51	5.98	6.50	7.01	7.48	8.50	8.74	9.02	7.09	7.48	8.27	9.06	10.63
Height	H	mm	82	100	113	130	150	235	290	308	350	365	418	430	100	125	165	255	310
		in	3.23	3.94	4.45	5.12	5.91	9.25	11.42	12.13	13.78	14.37	16.46	16.93	3.94	4.92	6.50	10.04	13.78
	H1	mm	160	189	231	259	276	340	415	459	600	791	808	789	300	345	475	480	650
		in	6.30	7.44	9.09	10.20	10.87	13.39	16.34	18.07	23.62	31.14	31.81	31.06	11.81	13.58	18.90	25.59	26.38
	H2	mm	40	50	50	45	40	60	60	80	90	90	90	90	65	65	90	100	120
		in	1.57	1.97	1.97	1.77	1.57	2.36	2.36	3.15	3.54	3.54	3.54	3.54	2.56	2.56	3.54	3.94	4.72
Weight		Kg	14	18	20	28	35	62	74	110	260	331	530	675	23	44	108	125	305
		lb	30.9	39.7	44.1	61.7	77.2	136.7	163.1	242.5	573.2	729.7	1168.4	1488.1	50.7	97.0	238.1	275.6	672.4



150LB																			
Description		Valve Size																	
		2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	28"	30"	32"	36"	40"
F - F Dimension	L	mm	43	48	54	57	57	64	71	81	92	102	114	127	154	165	190	190	203
	L	in	1.69	1.89	2.13	2.24	2.24	2.52	2.80	3.19	3.62	4.02	4.49	5.00	6.06	6.50	7.48	7.48	7.99
Height	H	mm	82	90	105	120	135	193	255	290	300	335	375	395	470	480	515	540	610
		in	3.23	3.54	4.13	4.72	5.31	7.60	10.04	11.42	11.81	13.19	14.76	15.55	18.50	18.90	20.28	21.26	24.02
	H1	mm	163	175	203	235	250	295	340	370	523	555	625	678	775	940	990	1010	1110
		in	6.42	6.89	7.99	9.25	9.84	11.61	13.39	14.57	20.59	21.85	24.61	26.69	30.51	37.01	38.98	39.76	43.70
	H2	mm	40	50	50	45	40	60	60	80	90	90	90	90	105	105	120	125	150
		in	1.57	1.97	1.97	1.77	1.57	2.36	2.36	3.15	3.54	3.54	3.54	3.54	4.13	4.13	4.72	4.92	5.91
Weight	Wafer	Kg	5	7	11	15	15	24	40	50	80	103	150	190	285	340	505	590	675
		lb	11.0	15.4	24.3	33.1	33.1	52.9	88.2	110.2	176.4	227.1	330.7	418.9	628.3	749.6	1113.3	1300.7	1488.1
Weight	Lug	Kg	7	10	11	15	15	30	45	71	100	146	190	145	375	485	655	750	815
		lb	15.4	22.0	24.3	33.1	33.1	66.1	99.2	156.5	220.5	321.9	418.9	319.7	826.7	1069.2	1444.0	1653.5	1796.7

300LB														600LB					
Description		Valve Size												Valve Size					
		2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	3"	4"	6"	8"	10"
F - F Dimension	L	mm	43	48	54	59	59	73	83	92	117	133	149	159	54	64	78	102	117
	L	in	1.69	1.89	2.13	2.32	2.32	2.87	3.27	3.62	4.61	5.24	5.87	6.26	2.13	2.52	3.07	4.02	4.61
Height	H	mm	82	100	110	130	150	235	290	305	350	370	415	425	100	125	165	255	310
		in	3.23	3.94	4.33	5.12	5.91	9.25	11.42	12.01	13.78	14.57	16.34	16.73	3.94	4.92	6.50	10.04	12.20
	H1	mm	163	190	205	235	250	320	395	455	650	765	775	845	300	345	475	480	650
		in	6.42	7.48	8.07	9.25	9.84	12.60	15.55	17.91	25.59	30.12	30.51	33.27	11.81	13.58	18.70	18.90	25.59
	H2	mm	40	50	50	45	40	60	60	80	90	90	90	90	65	65	90	100	120
		in	1.57	1.97	1.97	1.77	1.57	2.36	2.36	3.15	3.54	3.54	3.54	3.54	2.56	2.56	3.54	3.94	4.72
Weight	Wafer	Kg	7	10	12	14	18	35	40	43	125	139	252	284	10	20	49	70	110
		lb	15.4	22.0	26.5	30.9	39.7	77.2	88.2	94.8	275.6	306.4	555.6	626.1	22.0	44.1	108.0	154.3	242.5
Weight	Lug	Kg	11	13	17	20	23	45	50	73	190	240	390	490	15	35	71	92	160
		lb	24.3	28.7	37.5	44.1	50.7	99.2	110.2	160.9	418.9	529.1	859.8	1080.3	33.1	77.2	156.5	202.8	352.7

NSV butterfly valves are available in a variety of manual and actuated operator configurations. These options include: gearboxes, electric actuators, pneumatic actuators, hydraulic actuators, and more.



Handle



Gearbox



Electric Actuator



Electric Actuator with Gearbox



Pneumatic Actuator



Hydraulic Actuator



Gas-over-oil Actuator

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