



## Lug Type Butterfly Valve

### (Triple Offset Metal Seal) Flanged Butterfly Valve

Basis Standards:

Design standard: API609, MSS SP-67, MSS SP-68;

Test standard: API598;

Flange Standard: ASME B16.5 (NPS≤24), ASME B16.47 B;

Butt weld end: ASME B16.25;

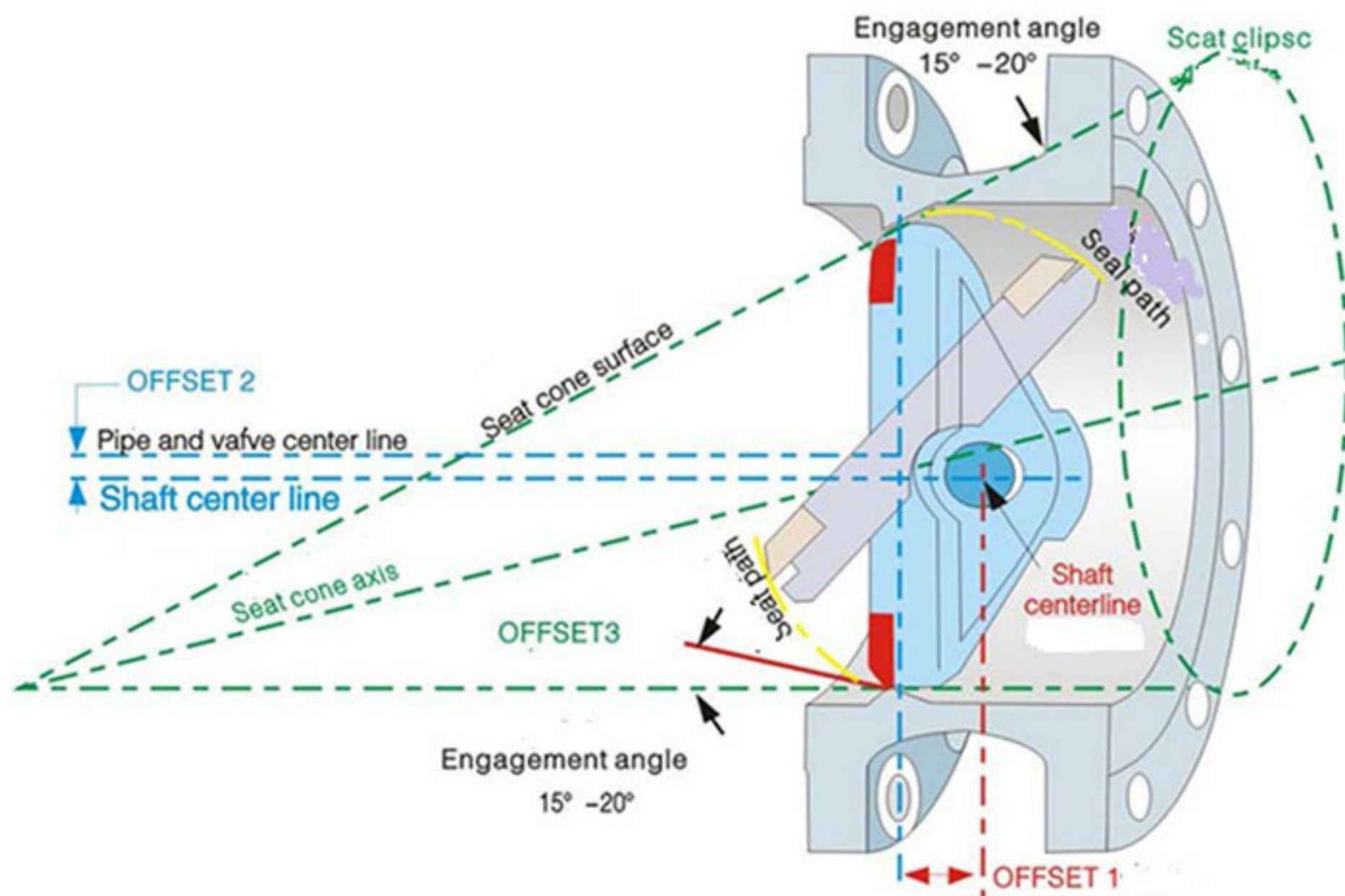
Structure length: API 609;

Temp. & Pressure standard: ASME B16.34

#### Features:

1. It is widely used in metallurgy, light industry, electric power, petrochemical, gas and other fields.
2. Two way tightly shutoff without bubble; Valve disk seal touch the valve seat only in the closed position, no friction or wear, while a torque is generated to make the elastic seal ensure the uniformity of sealing contact.

#### Structure chart:



#### What is triple offset?

1. The valve shaft is located at the back of the seat shaft, so that the seal can be fully closed around the entire valve seat;





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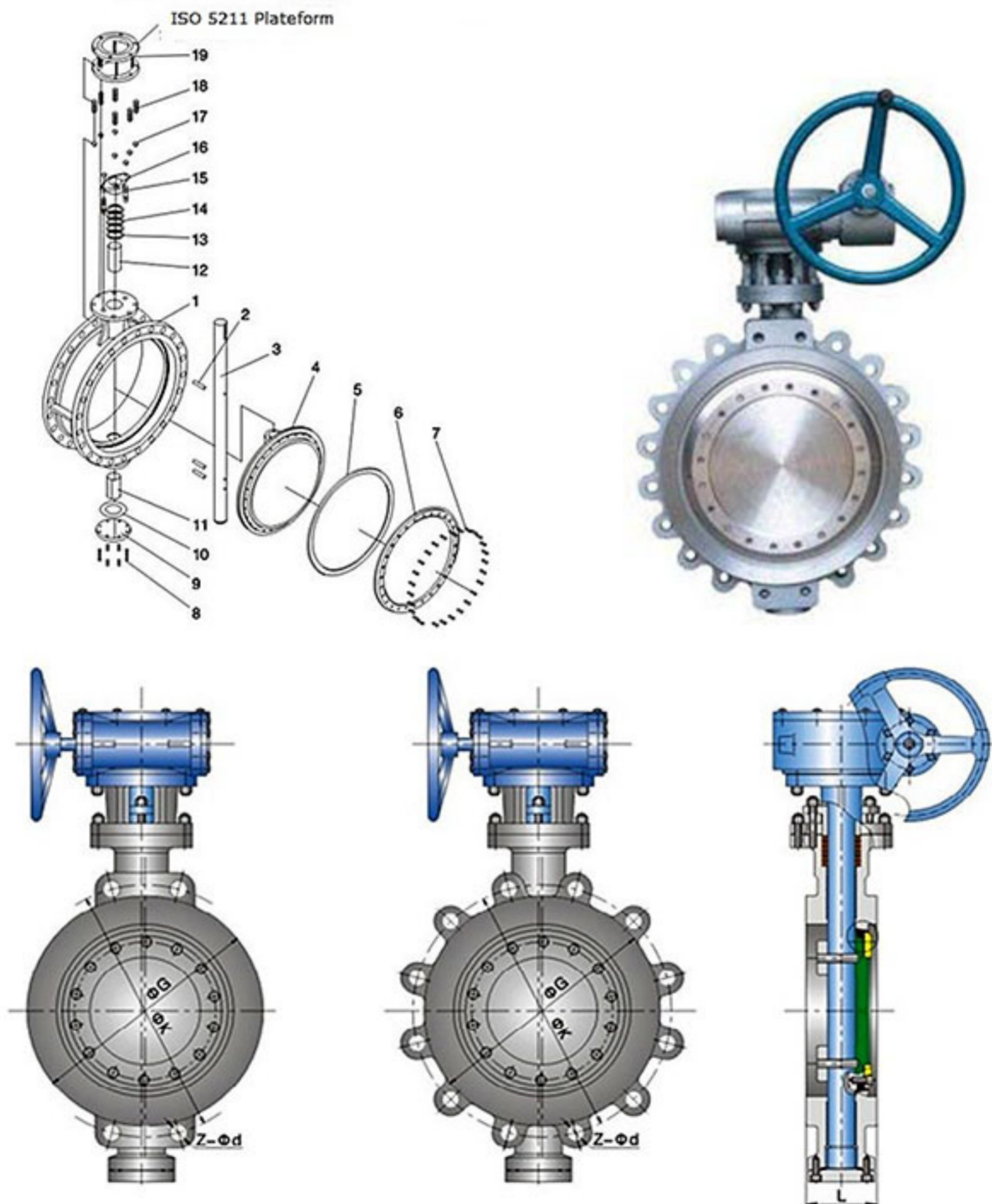
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2. The centerline of the valve shaft deviates from the centerline of the pipe and valve, so there is no interference from the valve opening and closing;
3. Seat cone axis deviates from valve shaft centerline; this can eliminate the friction in the process of closing and opening, and achieve a uniform compression seal effect around the valve seat.

**Frictionless seal:**

1. The seat is made of Cr13 alloy or tungsten chromium cobalt alloy, as the standard configuration;
2. Gland is made of Spiral wound stainless steel plus graphite, to ensure zero leakage; Torque force generates seat force during closing, and uniformly acting around the entire circle. The elastic seal flexes and maintains the shape of the seat. The compressive force uniformly act along the perimeter, so the valve can realize the bidirectional tight closing, and elastic seal material allows the valve body and the valve seat to contact each other and expand, so that avoid the risk of jamming due to temperature fluctuations. This device is able to adjust the alignment.







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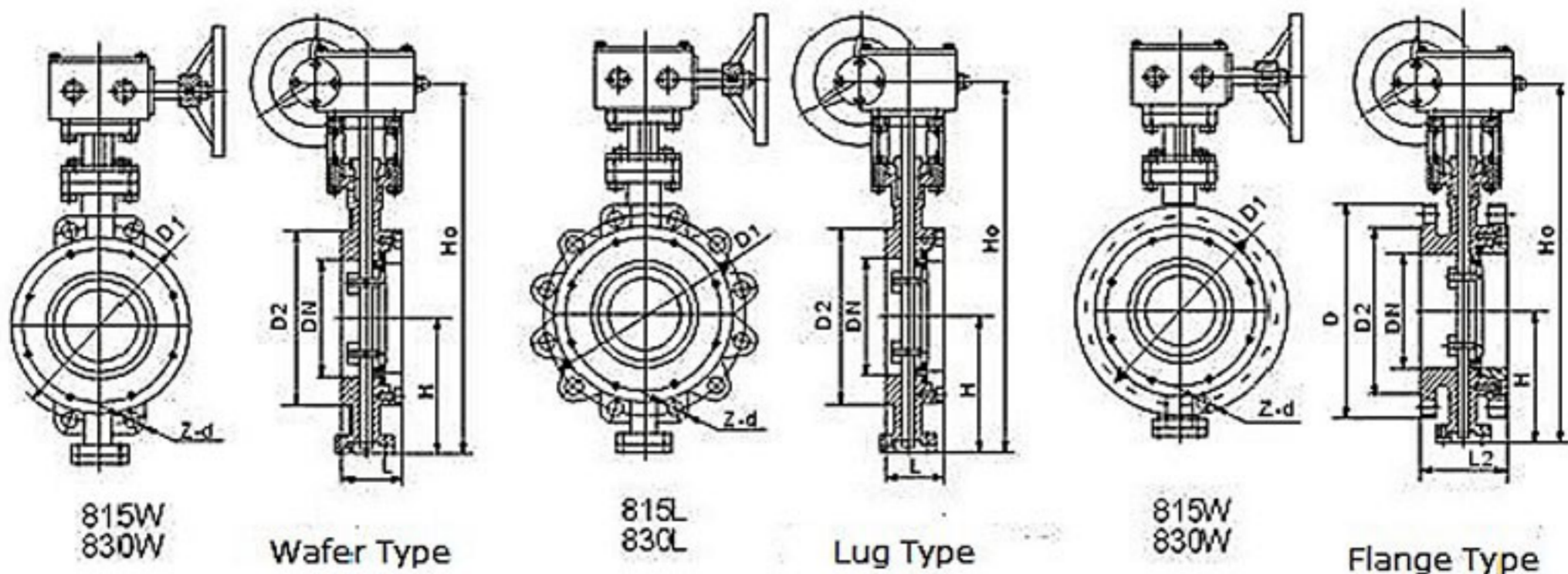
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**List of Parts Name and Materials:**

NO	Parts Name	Material				
		ASTM A216 WCB	ASTM A351 CF8	ASTM A351 CF3	ASTM A351 CF8M	ASTM A351 CF3M
1	Body	ASTM A216 WCB	ASTM A351 CF8	ASTM A351 CF3	ASTM A351 CF8M	ASTM A351 CF3M
2	Pin	ASTMA29-1035/A276 304	ASTM A276 304	ASTM A276 304L	ASTM A276 316	ASTM A276 316L
3	Stem	420/304/316	304	304L	316	316L
4	Disc	WCB/CF8/CF8M	A351 CF8	A351 CF3	A351 CF8M	A351 CF3M
5	O-ring	304/316+Graphite/PTFE	304+Graphite/PTFE	304L+Graphite/PTFE	316+Graphite/PTFE	316+Graphite/PTFE
6	Gland Ring	A105/A182/F304/F316	F304	A182 F304L	A182 F316	A182 F316L
7	Screw	B7/B8/B8M	B8	B8	B8M	B8M
8	Screw	B7	B8	B8	B8M	B8M
9	Bottom Cover	A105	A182 F304	A182 F304L	A182 F316	A182 F316L
10	Gasket	Graphite	Graphite	Graphite	Graphite	Graphite
11	Lower Shaft Sleeve	Luberized bronze 304 Nitriding	304 Nitriding	304L Nitriding	316Nitriding	316L Nitriding
12	Upper Shaft Sleeve					
13	Packing Gasket	A105/304	304	304L	316	316L
14	Packing	Graphite	Graphite	Graphite	Graphite	Graphite
16	Packing Gland	WCB	CF8	CF3	CF8M	CF3M
17	Nut	A194 2H	A194 8	A194 8	A194 8M	A194 8M
18	Bolt	A193 B7	A193 B8	A193 B8	A193 B8M	A193 B8M
19	Yoke	WCB	WCB, Galvanized, CF8			
Drive Device		Manual, Electric, Pneumatic, Worm Wheel				

**Note:** The listed parts materials are changeable upon requested.

**Outline Dimensions & Reference Weights:**



**型号 Model No: 815W (Wafer & Flange Type)**

DN		Structure Length				Outline Sizes (Ref.)				Connection Size (Standard)						Weight			
		L		L1		H		H0		D		D1		D2		M	Z-Φd	kg	
Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm			Wafer	Flange
2"	50	1.69	43	4.25	108	4.33	110	13.58	345	6.00	152	4.75	120.5	3.62	92	M18	4-19		

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2 1/2"	65	1.69	46	4.40	112	4.64	118	14.25	362	7.00	178	5.49	139.5	4.13	105	M18	4-19		
3"	80	1.94	48	4.50	114	4.92	125	14.96	380	8.50	190	6.00	152.5	5.00	127	M18	4-19		
4"	100	2.19	54	5.00	127	5.70	145	16.34	415	9.00	229	7.50	190.5	6.19	157	M18	8-19		
5"	125	2.50	55	5.50	140	6.50	165	17.91	455	10.00	254	8.50	216	7.32	186	M20	8-22		
6"	150	2.75	57	5.50	140	6.89	175	21.45	545	11.00	279	9.50	241.5	8.50	216	M20	8-22		
8"	200	2.81	64	5.90	150	8.26	210	24.21	645	13.50	343	11.75	298.5	10.62	270	M20	8-22		
10"	250	3.00	71	6.30	160	9.84	250	27.36	695	16.00	406	14.25	362	12.75	324	M22	12-25		
12"	300	3.18	81	7.00	178	11.24	285	32.78	830	19.00	483	17.00	432	15.00	381	M22	12-25		
14"	350	3.63	92	7.50	190	12.60	320	35.43	900	21.00	533	18.75	476	16.25	413	M27	12-29		
16"	400	4.00	102	8.50	216	13.98	355	38.58	980	23.50	597	21.25	540	18.50	470	M27	16-29		
18"	450	4.50	114	8.74	222	14.96	380	40.55	1030	25.00	635	22.75	578	21.00	533	M30	16-32		
20"	500	5.00	127	9.00	229	16.34	415	43.70	1110	27.50	699	25.00	635	23.00	584	M30	20-32		
2"	600	6.06	154	10.50	267	18.70	475	51.37	1305	32.00	813	29.50	749.5	27.25	692	M33	20-35		
30"	750	6.50	165	11.50	292	22.38	580	60.03	1525	38.75	985	36.00	914	33.75	857	M33	28-35		
32"	800	7.50	190	12.50	318	24.80	630	62.40	1585	41.75	1060	38.50	978	36.00	914	M39	28-41		
36"	900	8.00	200	13.00	330	26.77	680	69.48	1765	46.00	1168	42.75	1085	40.25	1022	M39	32-41		

## Model No: 815L (Lug Type)

DN		Structure Length		Outline Sizes(Ref.)				Connection Size(Standard)						Weight kg	
		L		H		H0		D1		D2		M	Z-d		
Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm				
2"	108	1.72	43	4.33	110	13.58	345	4.75	120.5	3.62	92	M20	8-19		
3"	114	1.93	49	4.92	125	14.69	380	6.00	152.5	5.00	127	M20	8-22		
4"	127	2.20	56	5.70	145	16.34	415	7.50	190.5	6.19	157	M20	8-22		
5"	140	2.50	64	6.30	165	17.91	455	8.50	216	7.32	186	M20	8-22		
6"	150	2.75	57	6.89	175	21.45	545	9.50	241.5	8.50	216	M20	8-22		
8"	200	2.81	64	8.26	210	24.21	615	11.75	298.5	10.62	270	M20	8,22		
10"	250	3.00	71	9.84	250	27.36	695	14.25	362	12.75	324	M22	12-25		
12"	300	3.18	81	11.24	285	32.78	830	17.00	432	15.00	381	M22	12-25		
14"	350	3.63	92	12.60	320	35.43	900	18.75	476	16.25	413	M27	12.29		
16"	400	4.00	102	13.98	355	38.58	980	21.25	540	18.50	470	M27	16-29		
18"	450	4.50	114	14.96	380	40.55	1030	22.75	578	21.00	533	M30	16-32		
20"	500	5.00	127	16.34	415	43.70	1110	25.00	635	23.00	584	M30	20.32		
24"	600	6.06	154	18.70	475	51.37	1305	29.50	749.5	27.25	692	M33	20.35		
30"	750	6.50	165	22.38	580	60.03	1525	36.00	914	33.75	857	M33	28.35		
36"	900	8.00	200	26.77	680	69.48	1765	42.75	1085	40.25	1022	M39	32.41		

## Model No: 830W (Wafer & Flange Type)

DN		Structure Length				Outline Sizes(Ref.)				Connection Size(Standard)						Weight KG			
		L		L1		H		H0		D		D1		D2				M	Z-d
Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm				
2"	50	1.69	43	4.25	150	4.33	110	13.58	345	6.50	165	5.00	127	3.62	92	M18	8.19		

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2 1/2"	65	1.69	46	4.50	170	4.64	118	14.25	362	7.48	190	5.86	149	4.13	105	M18	8-19		
3"	80	1.88	48	4.50	180	4.92	125	14.96	380	8.26	210	6.63	168	5.00	127	M20	8-22		
4"	100	2.12	54	5.00	190	5.70	145	16.34	415	10.00	254	7.87	200	6.19	157	M20	8-22		
5"	125	2.16	55	5.50	200	6.50	165	17.91	455	11.00	279	9.25	235	7.32	186	M20	8-22		
6"	150	2.32	59	5.50	210	6.89	175	21.45	545	12.50	318	10.63	270	8.50	216	M20	12-22		
8"	200	2.87	73	5.90	230	8.26	210	24.21	645	15.00	381	13.00	330	10.62	270	M24	12-26		
10"	250	3.26	83	6.30	250	9.84	250	27.36	695	17.50	445	15.24	387	12.75	324	M27	16-29		
12"	300	3.62	92	7.00	270	11.24	285	32.78	830	20.50	521	17.76	451	381	M30	16-32	79		
14"	350	4.60	117	7.50	290	12.60	320	35.43	900	23.00	584	20.24	514	16.25	413	M30	20-32		
16"	400	5.23	133	8.50	310	13.98	355	38.58	980	25.50	648	22.50	571	18.50	470	M33	20-35		
18"	450	5.86	149	8.74	330	14.96	380	40.55	1030	28.00	711	24.72	628	21.00	533	M33	24-35		
20"	500	6.25	159	9.00	350	16.34	415	43.70	1110	30.50	775	27.00	686	23.00	584	M33	24-35		
24"	600	7.12	181	10.50	390	18.70	475	51.37	1305	36.00	914	32.00	813	27.25	692	M39	24-41		
30"	750	9.01	229	11.50	430	22.38	580	60.03	1525	43.00	1092	39.25	997	33.75	857	M45	28-49		
36"	900	9.48	241	13.00	510	26.77	680	69.48	1765	50.00	1270	46.00	1168	40.25	1022	M50	32-53		

## Model No: 830L (Lug Type)

DN		Structure Length		Outline Sizes(Ref.)				Connection Size(Standard)						Weight kg
		L		H		H0		D1		D2		M	Z-d	
Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm			
6"	150	3.00	59	6.89	175	21.45	545	10.63	270	8.50	216	M20	12-22	
8"	200	2.87	73	8.26	210	24.21	615	13.00	330	10.62	270	M24	12-26	
10"	250	3.26	83	9.84	250	27.36	695	15.24	387	12.75	324	M27	16-29	
12"	300	3.62	92	11.24	285	32.78	830	17.76	451	15.00	381	M30	16-32	
14"	350	4.60	117	12.60	320	35.43	900	20.24	514	16.25	413	M30	20-32	
16"	400	4.44	133	13.98	355	38.58	980	22.30	591	18.50	470	M33	24-35	
18"	450	5.86	149	14.96	380	40.55	1030	24.72	628	21.00	533	M33	24-35	
20"	500	6.25	159	16.34	415	43.70	1110	27.00	686	23.00	584	M33	24-35	
24"	600	7.12	181	18.70	475	51.37	1305	32.00	813	27.25	692	M39	24-41	
30"	750	9.01	229	22.38	580	60.03	1525	39.25	997	33.75	857	M45	28-49	
36"	900	9.88	241	26.77	680	69.48	1765	46.00	1168	40.25	1022	M50	32-52	

### Please Note:

1. This catalogue mainly includes the valve with USA standards; the other products please contact us.
2. The sizes in this catalogue are just for reference, they are subject to our final confirmation.

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