



Triple offset butterfly valve feature and principle

Triple offset butterfly valve material

API/MSS Flange triple offset butterfly valve

API/MSS Wafer and lug triple offset butterfly valve

DIN Flange Triple offset butterfly valve

DIN Wafer and lug triple offset butterfly valve

API/MSS/DIN Butt weld triple offset butterfly valve

Double offset soft seal butterfly valve material

API/MSS Flange double offset soft seal butterfly valve

API/MSS Wafer and lug double offset soft seal butterfly valve

DIN Flange double offset soft seal butterfly valve

DIN Wafer and lug double offset soft seal butterfly valve

Middle line soft sealing butterfly valve material

ANSI Wafer and lug middle line soft sealing butterfly valve

DIN Wafer and lug middle line soft sealing butterfly valve

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Butterfly Valve

Triple offset butterfly valve

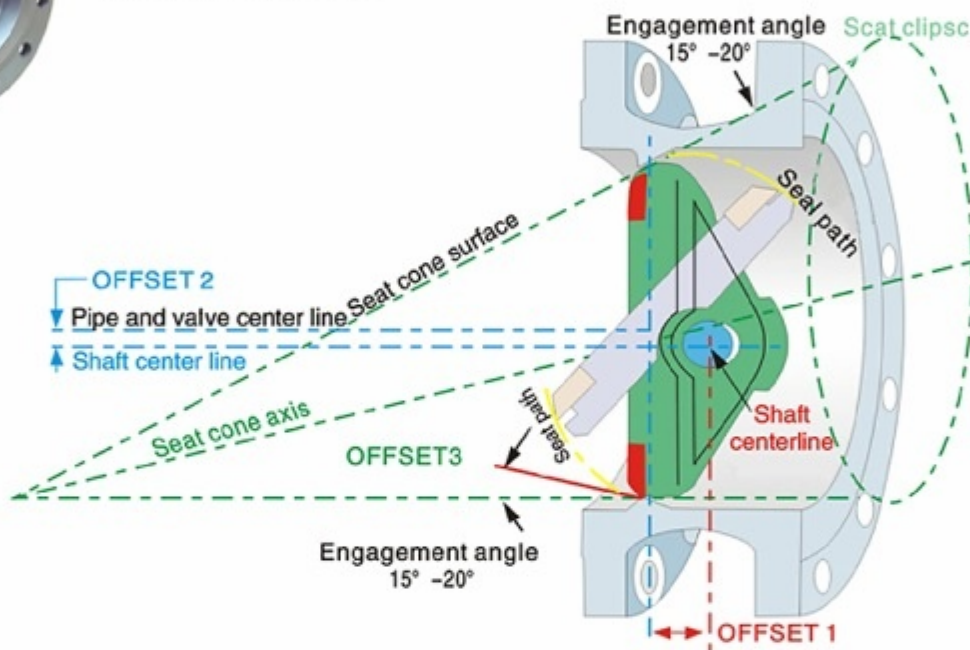
Trait and purpose:

Hard Seal Butterfly Valve triple offset series are our company 's leading products, which are used in such fields as metallurgy, light industry, electric power, petrochemistry, coal gas channel etc.



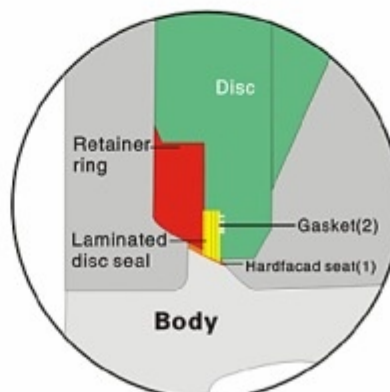
The seal principle of hard Seal Butterfly Valve triple offset:

The Triple Offset Butterfly Valve provides a bi-directional bubble tight shut-off. This geometry ensures that the disc seal contacts the body seat only at the final shut-off position without rubbing or galling, providing a torque generated resilient seal with sufficient "wedging" to ensure uniform seal contact.



The triple offset geometry

- OFFSET1 The shaft is offset behind the seat axis to allow complete sealing contact around the entire seat
- OFFSET2 The shaft centerline is offset from the pipe and valve which provides interference free opening and closing of the valve
- OFFSET3 The seat cone axis is offset from the shaft centerline to eliminate friction during closing and opening and to achieve uniform compressive sealing around the entire seat.



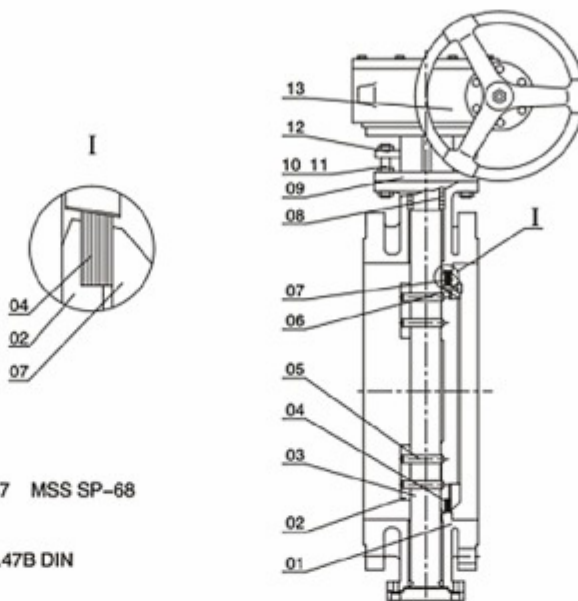
Friction free sealing for long cycle life

- (1) Seat is Cr13 Metal alloy or hardfaced with Stellite as standard.
- (2) The gasket is spiral wound SS/Graphite for zero leakage
- (3) Seat ring forces are generated by the torque during closing uniformly around the entire circumference. The resilient seal flexes and energizes, assuming the shape of the seat. The compression forces equally distributed around the perimeter provide a tight bi-directional shut off. The resiliency of the seal allows the valve body and disc to contract or expand, without the risk of jamming due to temperature fluctuations. It is self-adjusting.

Triple offset butterfly valve material

Butterfly Valve

Triple offset butterfly valve main parts materials and specification



(Adopt Standard):

- 1.Design Standard :API609 MSS SP-67 MSS SP-68
- 2.Face To Face:ISO5752
- 3.Tubing Flange:ANSI B16.5 ANSI B16.47B DIN
- 4.Inspection and Test:API598

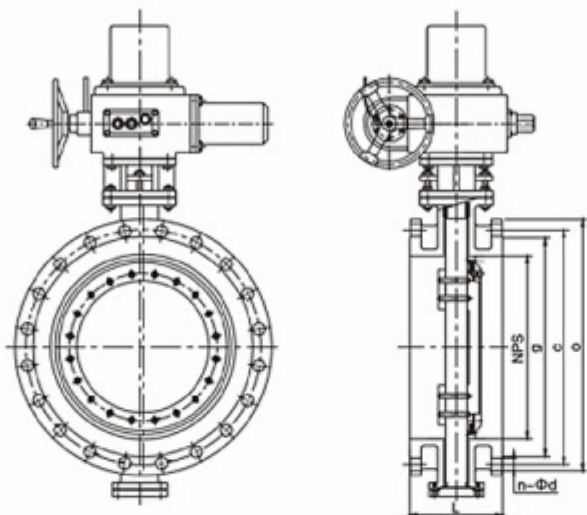
Main parts materials

Part Name		Material				
01	Body	ASTM A216 WCB	ASTM A351 CF8	ASTM A351 CF3	ASTM A351 CF8M	ASTM A351 CF3M
02	Disc	WCB	CF8	CF3	CF8M	CF3M
03	Stem	A276 420 or 304 or 316	A276 304	A276 304L	A276 316	A276 316L
04	Seal Ring	SS 304 or 316+Graphite or PTFE	SS 304+Graphite or PTFE	SS 304L+Graphite or PTFE	SS 316+Graphite or PTFE	SS 316+Graphite or PTFE
05	Spin	A276 420 or 304 or 316	A276 304	A276 304L	A276 316	A276 316L
06	Capscrew	A193 B7 or B8 or B8M	A193 B8	A193 B8	A193 B8M	A193 B8M
07	Retaining ring	A105 or A182 F304 F316	A182 F304	A182 F304L	A182 F316	A182 F316L
08	Packing	Soft graphite				
09	Yoke	WCB	WCB GALVAN CF8	WCB GALVAN CF8 or CF3	WCB GALVAN CF8 or CF8M	WCB GALVAN CF8 or CF3M
10	Bolt	A193 B7	A193 B8	A193 B8	A193 B8M or B8	A193 B8M or B8
11	Nut	A194 2H	A194 8	A194 8	A194 8M or B8	A194 8M or 8
12	Gland	WCB	CF8	CF8	CF8M	CF3M
13	Drive actuator	Hand actuator, Electric actuator, Worm gear actuator, Pneumatic actuator				

Note: The chart above only lists out some common composition of valve parts, We may provide other different parts material composition according to the customer's request or the actual valve working condition.

Butterfly Valve

API/MSS Flange triple offset butterfly valve main connection dimension



Main connection dimension

Unit: mm

Type	NPS (in)	DN (mm)	o	g	c	n-Φd	L
Class 150							
D343H-150LbC D643H-150LbC D943H-150LbC D343Y-150LbC D643Y-150LbC D943Y-150LbC D343W-150LbP D343W-150LbP D943W-150LbP D343Y-150LbP D643Y-150LbP D343W-150LbR D643Y-150LbR D943Y-150LbR D343Y-150LbR D643Y-150LbR	2	50	150	92	120.5	4-18	108
	2 1/2	65	180	105	139.5	4-18	112
	3	80	190	127	152.5	4-18	114
	4	100	230	157.5	190.5	8-18	127
	5	125	255	186	216	8-22	140
	6	150	280	216	241.5	8-22	140
	8	200	345	270	298.5	8-22	152
	10	250	405	324	362	12-26	165/203
	12	300	485	381	432	12-26	178/203
	14	350	535	413	476	12-29.5	190
	16	400	600	470	540	16-29.5	216
	18	450	635	533.5	578	16-32.5	222
	20	500	700	584	635	20-32.5	229
	24	600	815	692	749.5	20-35.5	267
	28	700	837	762	795	40-22	292
	30	750	887	813	846	44-22	318
	32	800	941	864	900	48-22	318
	36	900	1057	972	1010	44-26	330
	40	1000	1175	1080	1121	44-29.5	410
	44	1100	1276	1181	1222	52-29.5	440
48	1200	1392	1289	1335	44-32.5	470	
52	1300	1494	1391	1437	52-32.5	500	
56	1400	1600	1492	1543	60-32.5	530	
60	1500	1726	1600	1662	52-35.5	565	

API/MSS Flange triple offset butterfly valve

Butterfly Valve

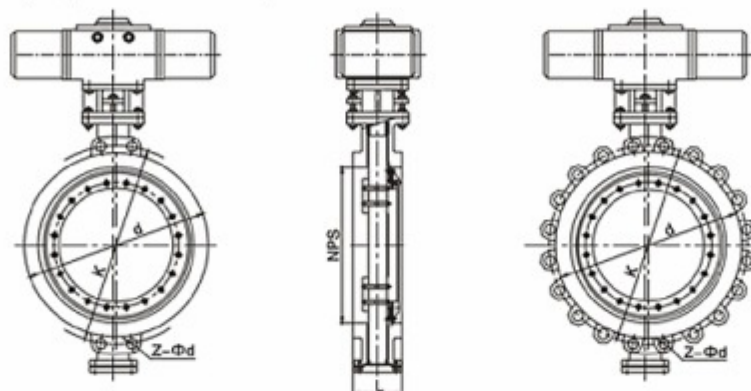
Main connection dimension

Unit: mm

Type	NPS (in)	DN (mm)	o	g	c	n-Φd	L
Class 300							
D343H-300LbC D643H-300LbC D943H-300LbC D343Y-300LbC D643Y-300LbC D943Y-300LbC D343W-300LbP D343W-300LbP D943W-300LbP D343Y-300LbP D643Y-300LbP D343W-300LbR D643Y-300LbR D943Y-300LbR D343Y-300LbR D643Y-300LbR	3	80	210	127	168.5	8-22	114
	4	100	255	157.5	200	8-22	127
	5	125	280	186	235	8-22	140
	6	150	320	216	270	12-22	140
	8	200	380	270	330	12-26	152
	10	250	445	324	387.5	16-29.5	165
	12	300	520	381	451	16-32.5	178
	14	350	585	413	514.5	20-32.5	190
	16	400	650	470	571.5	20-35.5	216
	18	450	710	533.5	628.5	24-35.5	222
	20	500	775	584	686	24-35.5	229
	24	600	915	692	813	24-42	267
	28	700	921	787	857	36-35.5	292
	32	800	1054	902	978	32-42	318
	36	900	1172	1010	1089	32-45	330
	40	1000	1273	1114	1191	40-45	410
	Class 600						
D343H-600LbC D643H-600LbC D943H-600LbC D343Y-600LbC D643Y-600LbC D943Y-600LbC D343W-600LbP D343W-600LbP D943W-600LbP D343Y-600LbP D643Y-600LbP D343W-600LbR D643Y-600LbR D943Y-600LbR D343Y-600LbR D643Y-600LbR	4	100	275	157.5	216	8-26	190
	5	125	330	186	267	8-29.5	200
	6	150	355	216	292	12-29.5	210
	8	200	420	270	349	12-32.5	230
	10	250	510	324	432	16-35.5	250
	12	300	560	381	489	20-35.5	270
	14	350	605	413	527	20-39	290
	16	400	685	470	603	20-42	310
	18	450	745	533.5	654	20-45	350
	20	500	815	584	724	24-45	390
	24	600	940	692	838	24-51	430
	28	700	837	784	795	40-22	470
	32	800	941	895	900	48-22	510

Butterfly Valve

API/MSS Wafer and lug triple offset butterfly valve main connection dimension



Main connection dimension

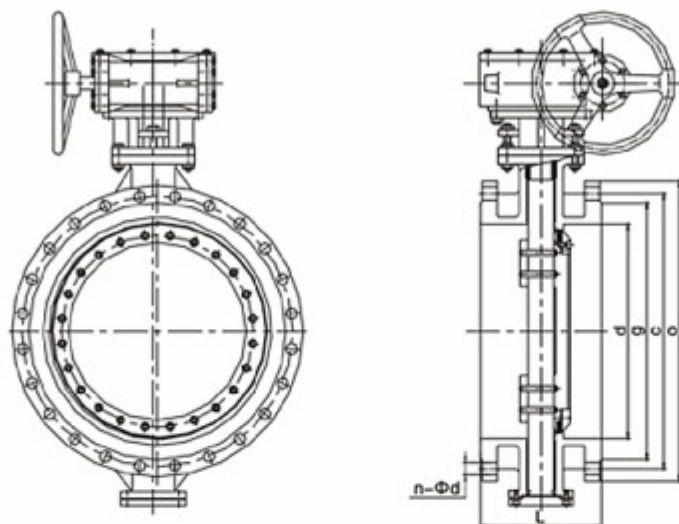
Unit: mm

Type	NPS (in)	DN (mm)	L	K	Z-Φd	d
Class 150						
	2	50	43	120.5	4-18	92
	2½	65	46	139.5	4-18	105
	3	80	48	152.5	4-18	127
	4	100	54	190.5	8-18	157.5
D673H-150C	6	150	57	241.5	8-22	216
	8	200	64	298.5	8-22	270
D673Y-150C	10	250	71	362	12-26	324
	12	300	81	432	12-26	381
D673W-150 ^P _R	14	350	92	476	12-29.5	413
	16	400	102	540	16-29.5	470
D673Y-150 ^P _R	18	450	114	578	16-32.5	533.5
	20	500	127	635	20-32.5	584
D673Y-150 ^P _R	24	600	154	749.5	20-32.5	692
	28	700	165	795	40-22	762
D673F-150 ^C _R	30	750	190	846	44-22	813
	32	800	190	900	48-22	864
	36	900	200/203	1010	44-26	972
	40	1000	216	1121	44-29.5	1080
	42	1100	250	1172	48-29.5	1130
	48	1200	276	1335	44-32.5	1289
	56	1400	279	1543	60-32.5	1492
Class 300						
D673H-300C	3	80	48	168.5	8-22	127
	4	100	54	200	8-22	157.5
D673Y-300C	6	150	59	270	12-22	216
	8	200	73	330	12-26	270
D673W-300 ^P _R	10	250	83	387.5	12-29.5	324
	12	300	92	451	16-32.5	381
D673Y-300 ^P _R	14	350	117	514.5	20-32.5	413
	16	400	133	571.5	20-35.5	470
D673Y-300 ^P _R	18	450	149	628.5	24-35.5	533.5
	20	500	159	686	24-35.5	584
D673F-300 ^C _R	24	60	181	813	24-42	692
	30	750	241	921	36-39	845
	36	900	241	1089	32-45	1010
Class 600						
D673H-600C	3	80	54	168.5	8-22	127
	4	100	64	216	8-26	157.5
D673Y-600C	6	150	78	292	12-29.5	216
	8	200	102	349	12-32.5	270
D673W-600 ^P _R	10	250	118	432	16-35.5	324
	12	300	140	489	20-35.5	381
D673Y-600 ^P _R	14	350	156	527	20-39	413
	16	400	178	603	20-42	470
D673F-600 ^C _R	18	450	200	654	20-45	533.5
	20	500	216	724	24-45	584
	24	600	232	838	24-51	692

DIN Flange Triple offset butterfly valve

Butterfly Valve

Flange triple offset butterfly valve main connection dimension



Main connection dimension

Unit: mm

Type	DN (mm)	o	g	c	n-Φd	L
PN10						
	50	165	99	125	4-18	108
	65	185	118	145	4-18	112
	80	200	132	160	8-18	114
	100	220	156	180	8-18	127
D343H-PN10LbC	125	250	184	210	8-18	140
D643H-PN10LbC	150	285	211	240	8-22	140
D943H-PN10LbC	200	340	266	295	8-22	152
D343Y-PN10LbC	250	395	319	350	12-22	165
D643Y-PN10LbC	300	445	370	400	12-22	178
D943Y-PN10LbC	350	505	429	460	16-22	190
D343W-PN10LbP	400	565	480	515	16-26	216
D343W-PN10LbP	450	615	530	565	20-26	222
D343W-PN10LbP	500	670	582	620	20-26	229
D943W-PN10LbP	600	780	682	725	20-30	267
D343Y-PN10LbP	700	895	794	840	24-30	292
D643Y-PN10LbP	800	1015	901	950	24-33	318
D343W-PN10LbR	900	1115	1001	1050	28-33	330
D643Y-PN10LbR	1000	1230	1112	1160	28-36	410
D943Y-PN10LbR	1200	1455	1328	1380	32-39	470
D343Y-PN10LbR	1400	1675	1530	1590	36-42	530
D643Y-PN10LbR	1600	1915	1750	1820	40-48	600
	1800	2115	1950	2020	44-48	670
	2000	2325	2150	2230	48-48	760

Butterfly Valve

Main connection dimension

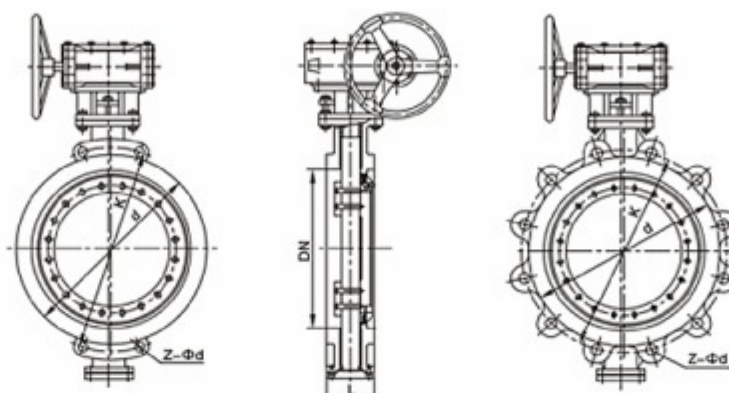
Unit: mm

Type	DN (mm)	o	g	c	n-Φd	L
PN16						
	50	165	99	125	4-18	108
	65	185	118	145	4-18	112
	80	200	132	160	8-18	114
D343H-PN16LbC	100	220	156	180	8-18	127
D643H-PN16LbC	125	250	184	210	8-18	140
D943H-PN16LbC	150	285	211	240	8-22	140
D343Y-PN16LbC	200	340	266	295	12-22	152
D643Y-PN16LbC	250	405	319	355	12-26	165
D943Y-PN16LbC	300	460	370	410	12-26	178
D343W-PN16LbP	350	520	429	470	16-26	190
D343W-PN16LbP	400	580	480	525	16-30	216
D943W-PN16LbP	450	640	548	585	20-30	222
D943W-PN16LbP	500	715	609	650	20-33	229
D343Y-PN16LbP	600	840	720	770	20-36	267
D643Y-PN16LbP	700	910	794	840	24-36	292
D343W-PN16LbR	800	1025	901	950	24-39	318
D643Y-PN16LbR	900	1125	1001	1050	28-39	330
D943Y-PN16LbR	1000	1255	1112	1170	28-42	410
D343Y-PN16LbR	1200	1485	1328	1390	32-48	470
D643Y-PN16LbR	1400	1685	1530	1590	36-48	530
	1600	1930	1750	1820	40-55	600
	1800	2130	1950	2020	44-55	670
	2000	2345	2150	2230	48-60	760
PN25						
	50	165	99	125	4-18	108
	65	185	118	145	8-18	112
	80	200	132	160	8-18	114
D343H-PN25LbC	100	235	156	190	8-22	127
D643H-PN25LbC	125	270	184	220	8-26	140
D943H-PN25LbC	150	300	211	250	8-26	140
D343Y-PN25LbC	200	360	274	310	12-26	152
D643Y-PN25LbC	250	425	330	370	12-30	165
D943Y-PN25LbC	300	485	389	430	16-30	178
D343W-PN25LbP	350	555	448	490	16-33	190
D343W-PN25LbP	400	620	503	550	16-36	216
D943W-PN25LbP	450	670	548	600	20-36	222
D943W-PN25LbP	500	730	609	660	20-36	229
D343Y-PN25LbP	600	845	720	770	20-39	267
D643Y-PN25LbP	700	960	820	875	24-42	292
D343W-PN25LbR	800	1085	928	990	24-48	318
D643Y-PN25LbR	900	1185	1028	1090	28-48	330
D943Y-PN25LbR	1000	1320	1140	1210	28-55	410
D343Y-PN25LbR	1200	1530	1350	1420	32-55	470
D643Y-PN25LbR	1400	1755	1560	1640	36-60	530
	1600	1975	1780	1860	40-60	600
	1800	2195	1985	2070	44-68	670
	2000	2425	2210	2300	48-68	760

DIN Wafer and lug triple offset butterfly valve

Butterfly Valve

DIN Wafer and lug triple offset butterfly valve main connection dimension



Main connection dimension

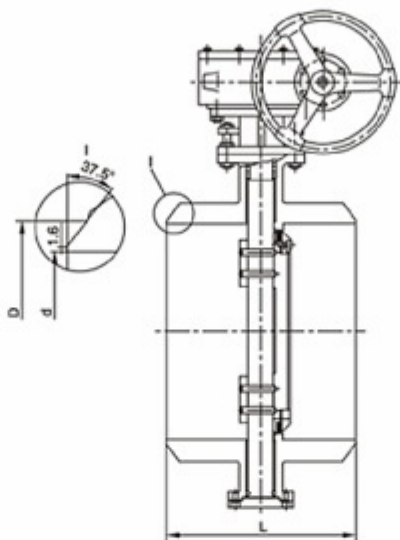
Unit: mm

Type	NPS (in)	DN (mm)	L	K	Z-Φd	d
PN10						
	2	50	43	125	4-18	99
D673H-10C	2 1/2	65	46	145	4-18	118
	3	80	48	160	8-18	132
D673Y-10C	4	100	54	180	8-18	156
	6	150	57	240	8-22	211
D673W-10 ^P _R	8	200	64	295	8-22	266
	10	250	71	350	12-22	319
D673Y-10 ^P _R	12	300	81	400	12-22	370
	14	350	92	460	16-22	429
D673F-10 ^C _R	16	400	102	515	16-26	480
	18	450	114	565	20-26	530
D673F-10 ^P _R	20	500	127	620	20-26	582
	24	600	154	725	20-30	682
PN16						
	2	50	43	125	4-18	99
D673H-16C	2 1/2	65	46	145	4-18	118
	3	80	48	160	8-18	132
D673Y-16C	4	100	54	180	8-18	156
	6	150	57	240	8-22	211
D673W-16 ^P _R	8	200	64	295	12-22	266
	10	250	71	355	12-26	319
D673Y-16 ^P _R	12	300	81	410	12-26	370
	14	350	92	470	12-26	429
D673F-16 ^C _R	16	400	102	525	16-30	480
	18	450	114	585	20-30	548
D673F-16 ^P _R	20	500	127	650	20-33	609
	24	600	154	770	20-36	720
PN25						
	2	50	43	125	4-18	99
D673H-25C	2 1/2	65	46	145	8-18	108
	3	80	48	160	8-18	132
D673Y-25C	4	100	54	190	8-22	156
	6	150	57	250	8-26	211
D673W-25 ^P _R	8	200	64	310	12-26	274
	10	250	71	370	12-30	330
D673Y-25 ^P _R	12	300	81	430	16-30	389
	14	350	92	490	16-33	448
D673F-25 ^C _R	16	400	102	550	16-36	503
	18	450	114	600	20-36	548
D673F-25 ^P _R	20	500	127	660	20-36	609
	24	600	154	770	20-39	720

API/MSS/DIN Butt weld triple offset butterfly valve

Butterfly Valve

API/MSS/DIN Butt weld triple offset butterfly valve connection dimension



- (Adopt Standard) :
- 1 (Butt-weld End Size) : ANSI B16.25 DIN 3239
 - 2 (Face To Face Dimension) : ISO5752
 - 3 (Inspection And Test) : API598

Main connection dimension

Unit: mm

Type	NPS	DN	L	D	d
Class 150					
D363H-150LbC D663H-150LbC D963H-150LbC D363Y-150LbC D663Y-150LbC D963Y-150LbC D363W-150LbP D663W-150LbP D963W-150LbP D363Y-150LbP D363W-150LbR D663W-150LbR D963W-150LbR D363Y-150LbR D663Y-150LbR D963Y-150LbR	3	80	114	88.9	80
	4	100	127	114/108	100
	5	125	140	140/133	125
	6	150	140	168/159	150
	8	200	152	219	200
	10	250	165	273/267	250
	12	300	178	324	300
	14	350	190	356/368	350
	16	400	216	406/419	400
	18	450	222	457	450
	20	500	229	508	500
	24	600	267	610	600
	28	700	292	711	700
	30	750	318	762	750
	32	800	318	813	800
	36	900	330	914	900
	40	1000	410	1016/1020	1000
	44	1100	440	1118	1100
48	1200	470	1220	1200	
52	1300	500	1320	1300	
56	1400	530	1420	1400	
60	1500	565	1524	1500	

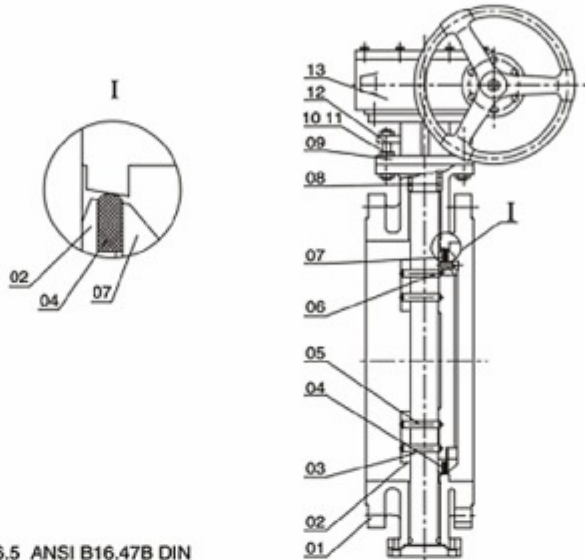
Asper client's requirement

BUTTERFLY VALVE

Double offset soft seal butterfly valve material

Butterfly Valve

Double offset soft seal butterfly valve main parts materials and specification



(Adopt Standard):

1. Design Standard:API609
2. Face To Face:ISO5752
3. Tubing Flange:ANSI B16.1 ANSI B16.5 ANSI B16.47B DIN
4. Inspection And Test:API598

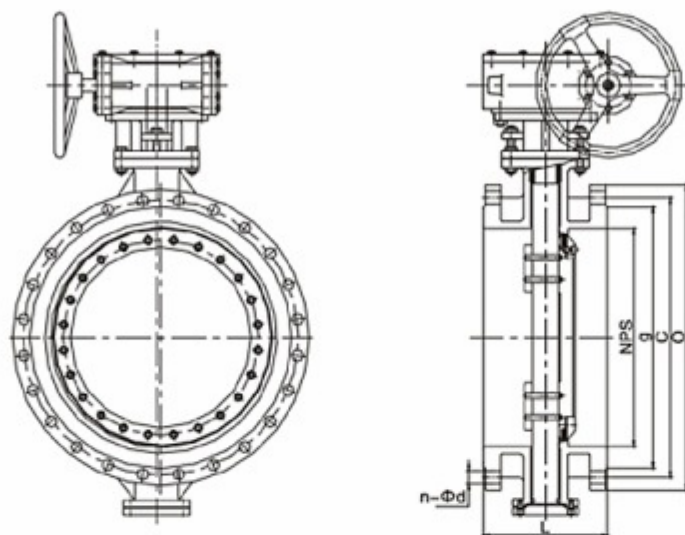
Main parts materials

Part Name		Material				
01	Body	ASTM A126	ASTM A536	ASTM A216 WCB+SS304	ASTM A351 CF8	ASTM A351 CF8M
02	Disc	ASTM A126 or A536 or CF8	A536	WCB or CF8 CF8M	CF8	CFM
03	Stem	A276 420 or 304 or 316	A276 420 or 304 or 316	A276 420	A276 304	A276 316
04	Seal Ring	NR, EPDM, NBR, SI, FPM, PTFE, CR Or HR				
05	Spin	A276 420	A276 420 A307B	A276 420 or 304 316	A276 304	A276 316
06	Capscrew	A193 B8 or B7	A193 B8 or B7	A193 B8 or B7	A193 B8	A193 B8M
07	Retaining ring	A182 F304 A105 or 105 GALVAN	A182 F304 A105 or 105 GALVAN	A182 F304 A105 or 105 GALVAN	A182 F304	A182 F304L
08	Packing	Soft graphite				
09	Yoke	WCB	WCB	WCB	WCB GALVAN or CF8	WCB GALVAN CF8 or CF8M
10	Bolt	A307 B	A307 B	A193 B7	A193 B8	A193 B8 or B8M
11	Nut	A307 B	A307 B	A194 2H	A194 8	A194 8 or 8M
12	Gland	ASTM A126	A536	WCB	CF8	CF8M
13	Drive actuator	Hand actuator, Electric actuator, Worm gear actuator, Pneumatic actuator				

Note: The chart above only lists out some common composition of valve parts. We may provide other different parts material composition according to the customer's request or the actual valve working condition.

Butterfly Valve

API/MSS Flange double offset Soft seal butterfly valve connection dimension



Main connection dimension

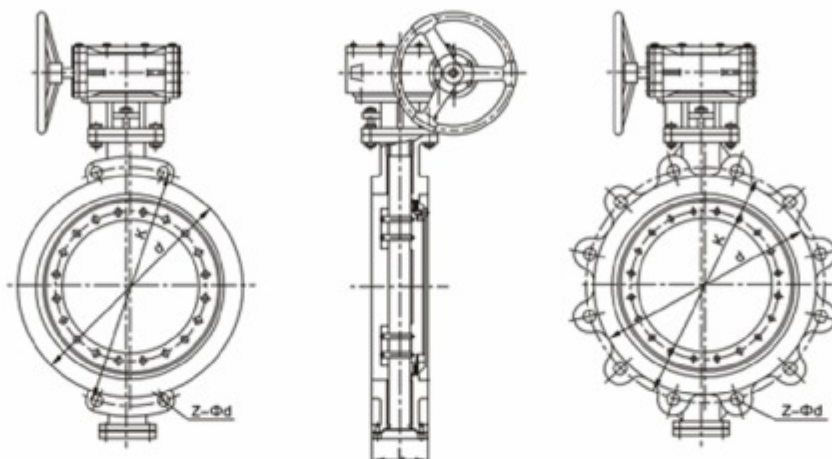
Unit: mm

Type	NPS (in)	DN (mm)	o	g	c	n-Φd	L
Class 150							
D341X-150LbC D641X-150LbC D941X-150LbC D341X-150LbZ D641X-150LbZ D941X-150LbZ D341X-150LbQ D341X-150LbP D341F-150LbC D641F-150LbC D941F-150LbC D341F-150LbZ D341F-150LbQ D341F-150LbP	2	50	150	92	120.5	4-18	108
	2 1/2	65	180	105	139.5	4-18	112
	3	80	190	127	152.5	4-18	114
	4	100	230	157.5	190.5	8-18	127
	5	125	255	186	216	8-22	140
	6	150	280	216	241.5	8-22	140
	8	200	345	270	298.5	8-22	152
	10	250	405	324	362	12-26	165/203
	12	300	485	381	432	12-26	178/203
	14	350	535	413	476	12-29.5	190
	16	400	600	470	540	16-29.5	216
	18	450	635	533.5	578	16-32.5	222
	20	500	700	584	635	20-32.5	229
	24	600	815	692	749.5	20-35.5	267
	28	700	837	762	795	40-22	292
	30	750	887	813	846	44-22	318
	32	800	941	864	900	48-22	318
	36	900	1057	972	1010	44-26	330
	40	1000	1175	1080	1121	44-29.5	410
	44	1100	1276	1181	1222	52-29.5	440
48	1200	1392	1289	1335	44-32.5	470	
52	1300	1494	1391	1437	52-32.5	500	
56	1400	1600	1492	1543	60-32.5	530	
60	1500	1726	1600	1662	52-35.5	565	

API/MSS Wafer and lug double offset soft seal butterfly valve

Butterfly Valve

API/MSS Wafer and lug double offset soft seal butterfly valve connection dimension



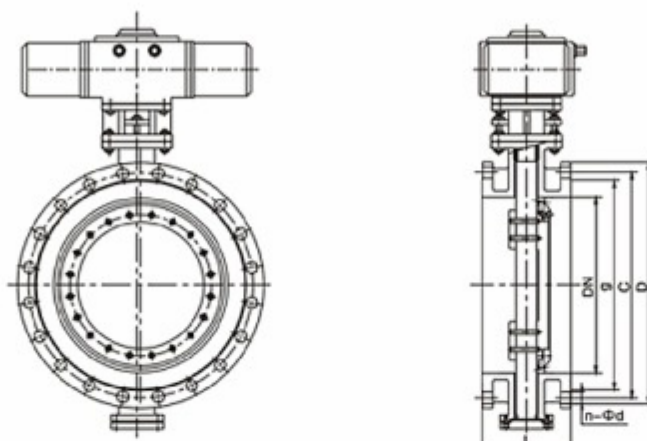
Main connection dimension

Unit: mm

Type	NPS (in)	DN (mm)	L	K	Z-Ød	d
Class 150						
D371X-150LbC D671X-150LbC D971X-150LbC D371X-150LbZ D671X-150LbZ D971X-150LbZ D371X-150LbQ D371X-150LbP D371F-150LbC D671F-150LbC D971F-150LbC D371F-150LbZ D371F-150LbQ D371F-150LbP	3	80	48	152.5	4-19	127
	4	100	54	190.5	8-19	157.5
	6	150	57	241.5	8-22	216
	8	200	64	298.5	8-22	270
	10	250	71	362	12-26	324
	12	300	81	432	12-26	381
	14	350	92	476	12-29.5	413
	16	400	102	540	16-29.5	470
	18	450	114	578	16-32.5	533.5
	20	500	127	635	20-32.5	584
	24	600	154	749.5	20-32.5	692
	30	750	191	846	44-22	813
	36	800	203	1010	44-26	972

Butterfly Valve

DIN Flange double offset soft seal butterfly valve connection dimension



Main connection dimension

Unit: mm

Type	DN (mm)	o	g	c	n-Φd	L
PN6						
	50	140	88	110	4-14	108
	65	160	108	130	4-14	112
	80	190	124	150	4-18	114
	100	210	144	170	4-18	127
D341X-PN6LbC	125	240	174	200	8-18	140
D641X-PN6LbC	150	265	199	225	8-18	140
D941X-PN6LbC	200	320	+254	280	8-18	152
D341X-PN6LbZ	250	375	309	335	12-18	165
D641X-PN6LbZ	300	440	363	395	12-22	178
D941X-PN6LbZ	350	490	413	445	12-22	190
D341X-PN6LbQ	400	540	463	495	16-22	216
D341X-PN6LbP	450	595	518	550	16-22	222
D341F-PN6LbC	500	645	568	600	20-22	229
D641F-PN6LbC	600	755	667	705	20-26	267
D941F-PN6LbC	700	860	772	810	24-26	292
D341F-PN6LbZ	800	975	878	920	24-26	318
D341F-PN6LbQ	900	1075	978	1020	24-30	330
D341F-PN6LbP	1000	1175	1078	1120	28-30	410
	1200	1405	1295	1340	32-33	470
	1400	1630	1510	1560	36-36	530
	1600	1830	1710	1760	40-36	600
	1800	2045	1918	1970	44-39	670
	2000	265	2125	2180	48-42	760

DIN Flange double offset soft seal butterfly valve

Butterfly Valve

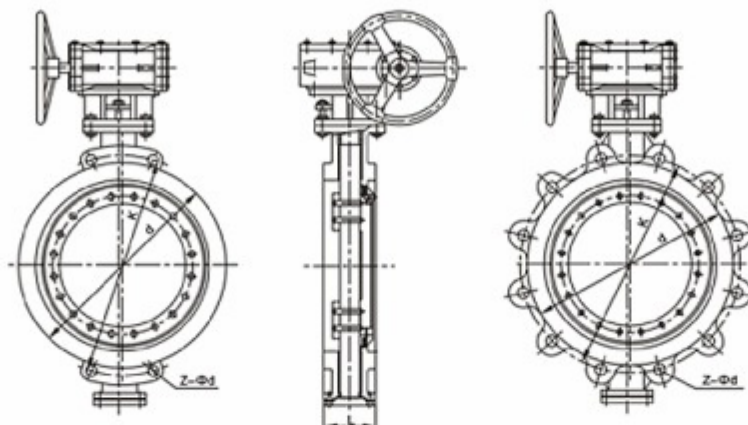
Main connection dimension

Unit: mm

Type	DN (mm)	o	g	c	n-Φd	L
PN10						
D341X-PN10LbC D641X-PN10LbC D941X-PN10LbC D341X-PN10LbZ D641X-PN10LbZ D941X-PN10LbZ D341X-PN10LbQ D341X-PN10LbP D341F-PN10LbC D641F-PN10LbC D941F-PN10LbC D341F-PN10LbZ D341F-PN10LbQ D341F-PN10LbP	50	165	99	125	4-18	108
	65	185	118	145	4-18	112
	80	200	132	160	8-18	114
	100	220	156	180	8-18	127
	125	250	184	210	8-18	140
	150	285	211	240	8-22	140
	200	340	266	295	8-22	152
	250	395	319	350	12-22	165
	300	445	370	400	12-22	178
	350	505	429	460	16-22	190
	400	565	480	515	16-26	216
	450	615	530	565	20-26	222
	500	670	582	620	20-26	229
	600	780	682	725	20-30	267
	700	895	794	840	20-30	292
	800	1015	901	950	24-33	318
	900	1115	1001	1050	28-33	330
	1000	1230	1112	1160	28-36	410
	1200	1455	1328	1380	32-39	470
	1400	1675	1530	1590	36-42	530
1600	1820	1750	1820	40-48	600	
1800	1820	1950	2020	44-48	670	
2000	2020	2150	2230	48-48	760	
PN16						
D341X-PN16LbC D641X-PN16LbC D941X-PN16LbC D341X-PN16LbZ D641X-PN16LbZ D941X-PN16LbZ D341X-PN16LbQ D341X-PN16LbP D341F-PN16LbC D641F-PN16LbC D941F-PN16LbC D341F-PN16LbZ D341F-PN16LbQ D341F-PN16LbP	50	165	99	125	4-18	108
	65	185	118	145	4-18	112
	80	200	132	160	8-18	114
	100	220	156	180	8-18	127
	125	250	184	210	8-18	140
	150	285	211	240	8-22	140
	200	340	266	295	12-22	152
	250	405	319	355	12-26	165
	300	460	370	410	12-26	178
	350	520	429	470	16-26	190
	400	580	480	525	16-30	216
	450	640	548	585	20-30	222
	500	715	609	650	20-33	229
	600	840	720	770	20-36	267
	700	910	794	840	24-36	292
	800	1025	901	950	24-39	318
	900	1125	1001	1050	28-39	330
	1000	1255	1112	1170	28-42	410
	1200	1485	1328	1390	32-48	470
	1400	1685	1530	1590	36-48	530
1600	1930	1750	1820	40-55	600	
1800	2130	1950	2020	44-55	670	
2000	2345	2150	2230	48-60	760	

Butterfly Valve

DIN Wafer and lug double offset soft seal butterfly valve connection dimension



Main connection dimension

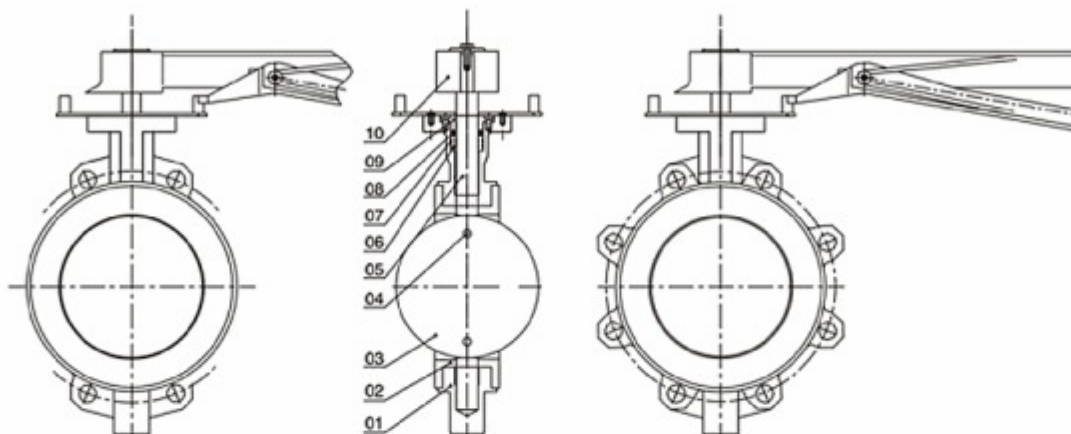
Unit: mm

Type	NPS (in)	DN (mm)	L	K	Z-Φd	d
PN10						
D371X-PN10LbC	2	50	43	125	4-18	99
D671X-PN10LbC	2 1/2	65	46	145	4-18	118
D971X-PN10LbC	3	80	48	160	8-18	132
D371X-PN10LbZ	4	100	54	180	8-18	156
D671X-PN10LbZ	6	150	57	240	8-22	211
D971X-PN10LbZ	8	200	64	295	8-22	266
D371X-PN10LbQ	10	250	71	350	12-22	319
D371X-PN10LbP	12	300	81	400	12-22	370
D371F-PN10LbC	14	350	92	460	16-22	429
D671F-PN10LbC	16	400	102	515	16-26	480
D371F-PN10LbZ	18	450	114	565	20-26	530
D371F-PN10LbQ	20	500	127	620	20-26	582
D371F-PN10LbP	24	600	154	725	20-30	682
PN16						
D371X-PN16LbC	2	50	43	125	4-18	99
D671X-PN16LbC	2 1/2	65	46	145	4-18	118
D971X-PN16LbC	3	80	48	160	8-18	132
D371X-PN16LbZ	4	100	54	180	8-18	156
D671X-PN16LbZ	6	150	57	240	8-22	211
D971X-PN16LbZ	8	200	64	295	12-22	266
D371X-PN16LbQ	10	250	71	355	12-26	319
D371X-PN16LbP	12	300	81	410	12-26	370
D371F-PN16LbC	14	350	92	470	12-26	429
D671F-PN16LbC	16	400	102	525	16-30	480
D371F-PN16LbZ	18	450	114	585	20-30	548
D371F-PN16LbQ	20	500	127	650	20-33	609
D371F-PN16LbP	24	600	154	770	20-36	720
PN25						
D371X-PN25LbC	2	50	43	125	4-18	99
D671X-PN25LbC	2 1/2	65	46	145	8-18	108
D971X-PN25LbC	3	80	48	160	8-18	132
D371X-PN25LbZ	4	100	54	190	8-22	156
D671X-PN25LbZ	6	150	57	250	8-26	211
D971X-PN25LbZ	8	200	64	310	12-26	274
D371X-PN25LbQ	10	250	71	370	12-30	330
D371X-PN25LbP	12	300	81	430	16-30	389
D371F-PN25LbC	14	350	92	490	16-33	448
D671F-PN25LbC	16	400	102	550	16-36	503
D371F-PN25LbZ	18	450	114	600	20-36	548
D371F-PN25LbQ	20	500	127	660	20-36	609
D371F-PN25LbP	24	600	154	770	20-39	720

Middle line soft sealing butterfly valve material

Butterfly Valve

Main parts materials and specification



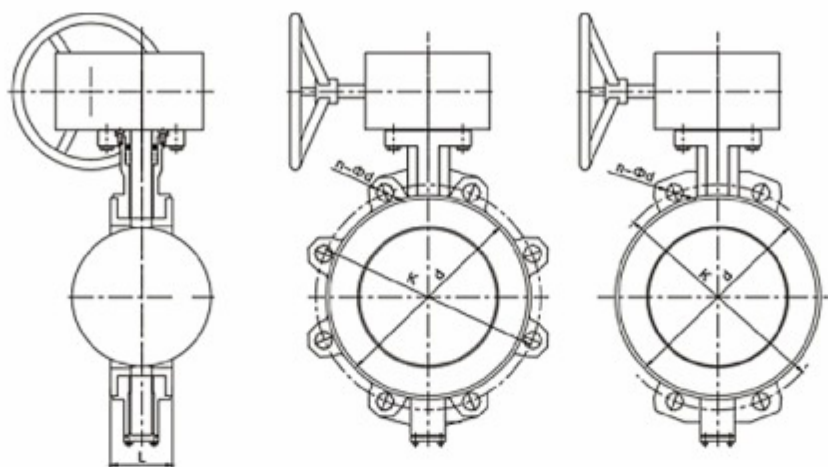
(Adopt Standard):

1. Design Standard: API609
2. Face To Face: ISO5752
3. Tubing Flange: ANSI B16.1 ANSI B16.5 ANSI B16.47B DIN
4. Inspection And Test: API598

Main parts materials

Part Name		Material		
01	Body	ASTM A216 WCB	ASTM A126	ASTM A536
02	Seat	NR, EPDM, NBR, FPM, PTFE, CR, HR		
03	Disc	CF8 or CF8M or A536	CF8 or CF8M or A536 or A126	CF8 or CF8M or A536
04	Spln	SS304 or SS420 or SS316	SS304 or SS420 or SS316	SS304 or SS420 or SS316
05	Stem	A276-420, 304 or 316	A276-420, 304 or 316	A276-420, 304 or 316
06	Bushing	SS304 or SS420 or SS316	SS304 or SS420 or SS316	SS304 or SS420 or SS316
07	O Ring	NR, EPDM, NBR, FPM, CR, HR		
08	Packing	NR, EPDM, NBR, FPM, PTFE, CR, HR, Graphite		
09	Gland flange	WCB, CF8, A536	WCB, CF8, A536, A126	WCB, CF8, A536
10	Drive actuator	Hand actuator, Electric actuator, Worm gear actuator, Pneumatic actuator		

Butterfly Valve

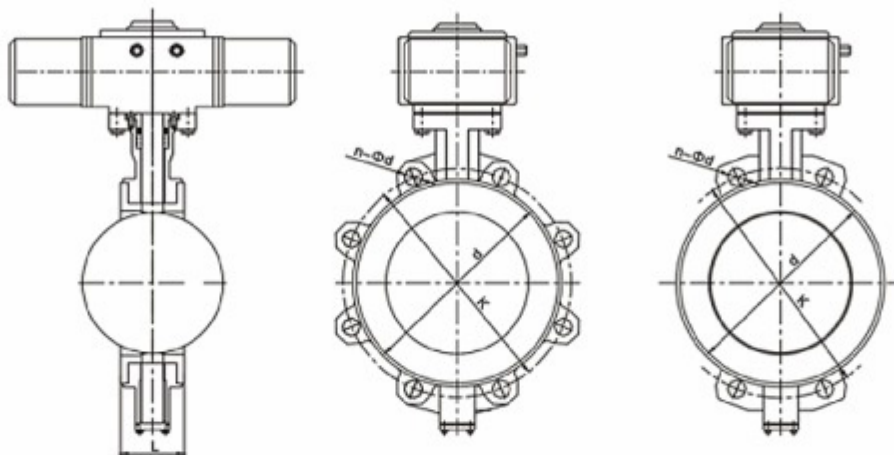
**Main connection dimension**

Unit: mm

Type	NPS (in)	DN (mm)	L	Class 150	
				K	n-Φd
D371X-150LbC D671X-150LbC D971X-150LbC D371X-150LbZ D671X-150LbZ D971X-150LbZ D371X-150LbQ D371F-150LbC D671F-150LbC D971F-150LbC D371F-150LbZ D371F-150LbQ	2	50	43	120.5	4-18
	2½	65	46	139.5	4-18
	3	80	46	152.5	4-18
	4	100	52	190.5	8-18
	5	125	56	216	8-22
	6	150	56	241.5	8-22
	8	200	60	298.5	8-22
	10	250	68	362	12-26
	12	300	78	432	12-26
	14	350	78	476	12-29.5
	16	400	102	540	16-29.5
	18	450	114	578	16-32.5
	20	500	127	635	20-32.5
	24	600	154	749.5	20-35.5
	28	700	165	795	40-22
	32	800	190	900	48-22
	36	900	203	1010	44-26
	40	1000	216	1121	44-29.5
42	1200	254	1172	48-29.5	

DIN Wafer and lug middle line soft sealing butterfly valve

Butterfly Valve



Main connection dimension

Unit: mm

Type	NPS (in)	DN (mm)	L	PN6		PN10		PN16	
				K	n-Φd	K	n-Φd	K	n-Φd
D371X-PN ⁶ ₁₀ LbC	2	50	43	110	4-14	125	4-18	125	4-18
	2½	65	46	130	4-14	145	4-18	145	4-18
D671X-PN ⁶ ₁₆ LbC	3	80	46	150	4-18	160	8-18	160	8-18
D971X-PN ⁶ ₁₆ LbC	4	100	52	170	4-18	180	8-18	180	8-18
	5	125	56	200	8-18	210	8-18	210	8-18
D371X-PN ⁶ ₁₆ LbZ	6	150	56	225	8-18	240	8-22	240	8-22
	8	200	60	280	8-18	295	8-22	295	12-22
D671X-PN ⁶ ₁₆ LbZ	10	250	68	335	12-18	350	12-22	355	12-26
	12	300	78	395	12-22	400	12-22	410	12-26
D971X-PN ⁶ ₁₆ LbZ	14	350	78	445	12-22	460	16-22	470	16-26
	16	400	102	495	16-22	515	16-26	525	16-30
D371F-PN ⁶ ₁₆ LbC	18	450	114	550	16-22	565	20-26	585	20-30
	20	500	127	600	20-22	620	20-36	660	20-33
D671F-PN ⁶ ₁₆ LbC	24	600	154	705	20-26	725	20-30	770	20-36
	28	700	165	810	24-26	840	24-30	840	24-36
D971F-PN ⁶ ₁₆ LbC	32	800	190	920	24-30	950	24-33	950	24-39
	36	900	203	1020	24-30	1050	28-33	1050	28-39
D371F-PN ⁶ ₁₆ LbZ	40	1000	216	1120	28-30	1160	28-36	1170	28-42
	42	1200	254	1340	32-33	1380	32-39	1390	32-48