PO8-W

PO8-W SERIES: WAFER TYPE SOFT SEATED BUTTERFLY VALVE

DESCRIPTION

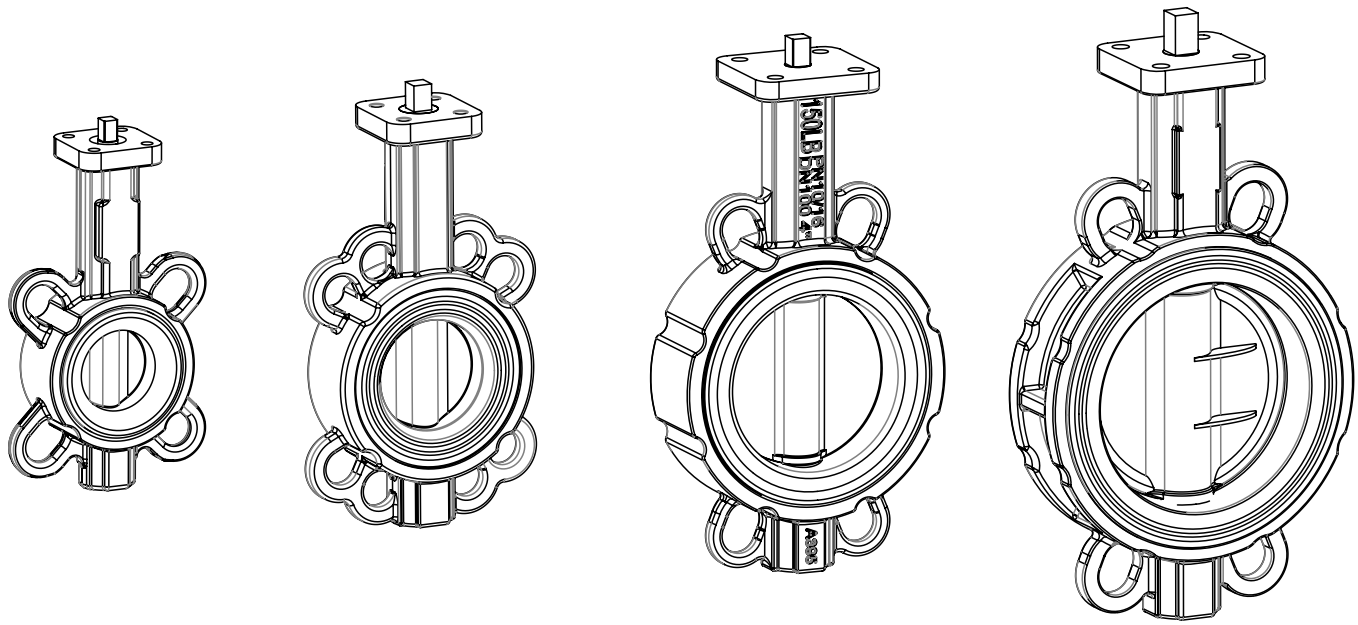
The wafer type soft seated butterfly valve is simple in structure, small in size, light in weight, and has few components on structure. Several key parts can build a butterfly valve, which is also very convenient to open.The butterfly valve can control the fluid very well, and can increase or reduce the flow at any time.

The wafer type soft seated butterfly valve has good versatility. It is installed by clamping between two flanges. The butterfly valve position is fixed through four universal connection holes. The wafer type butterfly valve has a wide range of versatility, and its valve body can be installed to the GB/JB/HG flange standard, ANSI/ASME flange standard, JIS flange standard and other uncommon or non-standard flange standards.

The butterfly valve can be controlled in many ways, such as handlever, gear operator, electric actautor, pneumatic actautor and hydraulic actautor. Multiple control requirements can be achieved in a variety of ways.

The wafer type soft seated butterfly valve has short face-to-face length, thin installation space requirements, light weight and high cost-effective, and can be used for switching and flow control of liquid, gas, powder and other media.

Soft seated butterfly valve also has a wide range of applications. If they are used to control the flow, different types and valve body sizes need to be selected, because butterfly valves are more suitable for some valves with larger diameters when they are designed. Butterfly valves are not only widely used in petroleum, gas, chemical, water treatment and other general industries, but also used in the cooling water system of thermal power plants.



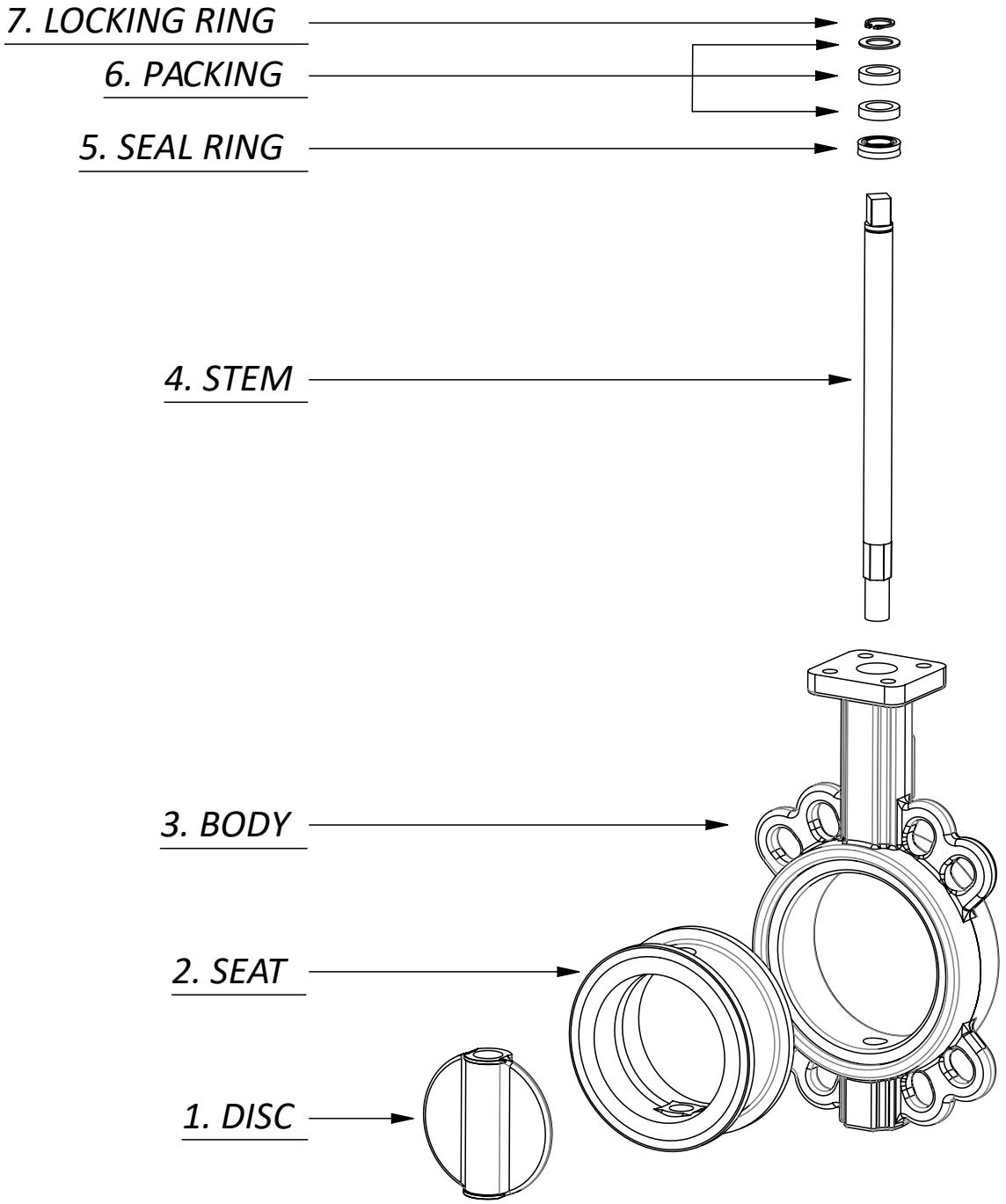
TECHNICAL PARAMETERS

- Nominal Diameter : DN32 – DN1000
- Pressure Rating : PN1.0MPa、PN1.6MPa、Class 150LBs、JIS 5K, JIS 10K
- End Connection : Wafer Type
- Flange Standard : HG/T 20592、GB/T9113、JB/T78-79、EN 1092-1、ASME B16.5、ASME B16.47、DIN 2543-2545、JIS B2220
- Valve Structure : Concentric/Center-line Type
- Body Material : Ductile Cast Iron、WCB、CF8、CF8M、CF3M、Duplex 2205
- Disc Material: Ductile Cast Iron、A216 WCB、A351 CF8、A351 CF8M、A351 CF3M、Duplex S.S. 2507、Duplex S.S. 2205、Super S.S.-1.4529、B148-C95400、B148-C95800、Halar Coated、Nylon Coated、Rubber Coated、Others
- Seat Material : EPDM、NBR、PTFE、VITON、HYPALON、POLYURETHANE、SILICON RUBBER、HIGH-TEMPERATURE EPDM、WEAR-RESISTANCE EPDM
- Stem material: SS410、SS420、SS304、SS316、etc.
- Applicable Medium : Water、Liquid、Gas、Oil、Powder、Steam、 Acid and Alkali corrosive medium
- Mounting for Actuation : ISO 5211 Direct Mounting Pad
- Functional Safety Certificate : SIL 3 as per IEC 61508 Parts 1-2 and 4-7:2010
- Operation: Handlever、Worm gear、Pneumatic actuator, Electric actuator、Hydraulic actuator
- Leakage Class : Zero Leakage
- Optional accessaries: Solenoid valve、Limit switch box、Positioenr、Air filter regulator、handwheel, etc.

SOFT SEATED BUTTERFLY VALVE

MAIN PARTS STRUCTURE AND MATERIAL

PO8-W

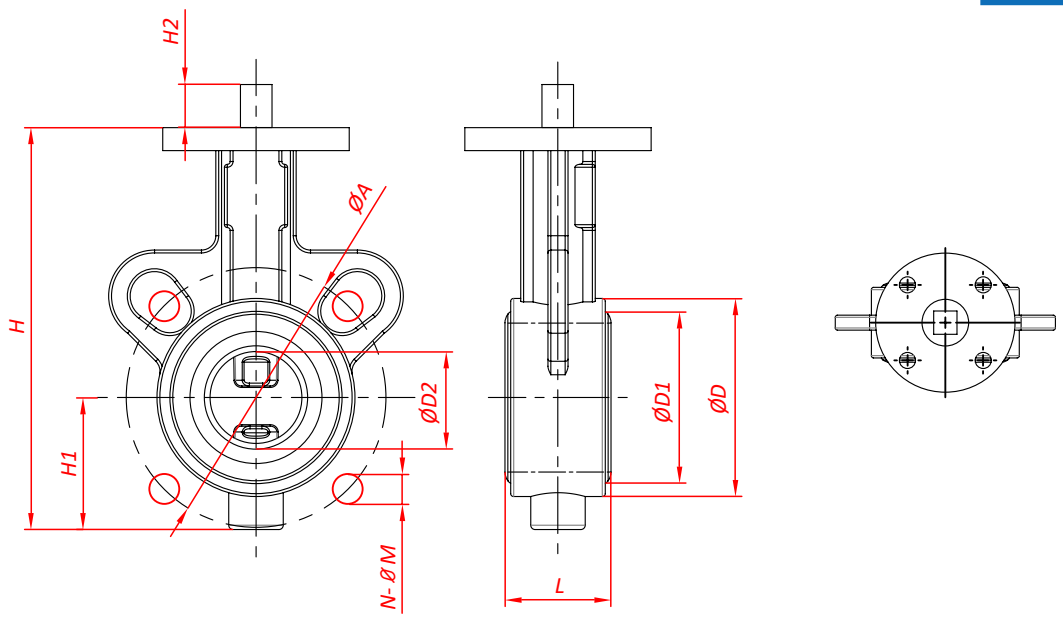


Part Number	Part Name	DI Type	WCB Type	CF8 Type	CF8M Type	CF3M Type	2205 Type
1	DISC	Ductile Cast Iron、A216 WCB、A351 CF8、A351 CF8M、A351 CF3M、Duplex S.S. 2507、Duplex S.S. 2205、Super S.S.-1.4529、B148-C95400、B148-C95800、Halar Coated、Rubber Coated、Nylon Coated and so on.					
2	SEAT	EPDM、NBR、PTFE、VITON、HYPALON、POLYURETHANE、SILICON RUBBER、HIGH-TEMPERATURE EPDM、WEAR-RESISTANCE EPDM and so on.					
3	BODY	Ductile Iron	WCB	CF8/SS304	CF8M/SS316	CF3M/SS316L	Dup. S.S. 2205
4	STEM	SS410、SS420、SS304、SS316 and so on.					
5	SEAL RING	NBR					
6	PACKING	PTFE					
7	LOCKING RING	65Mn					

SOFT SEATED BUTTERFLY VALVE

PO8-W

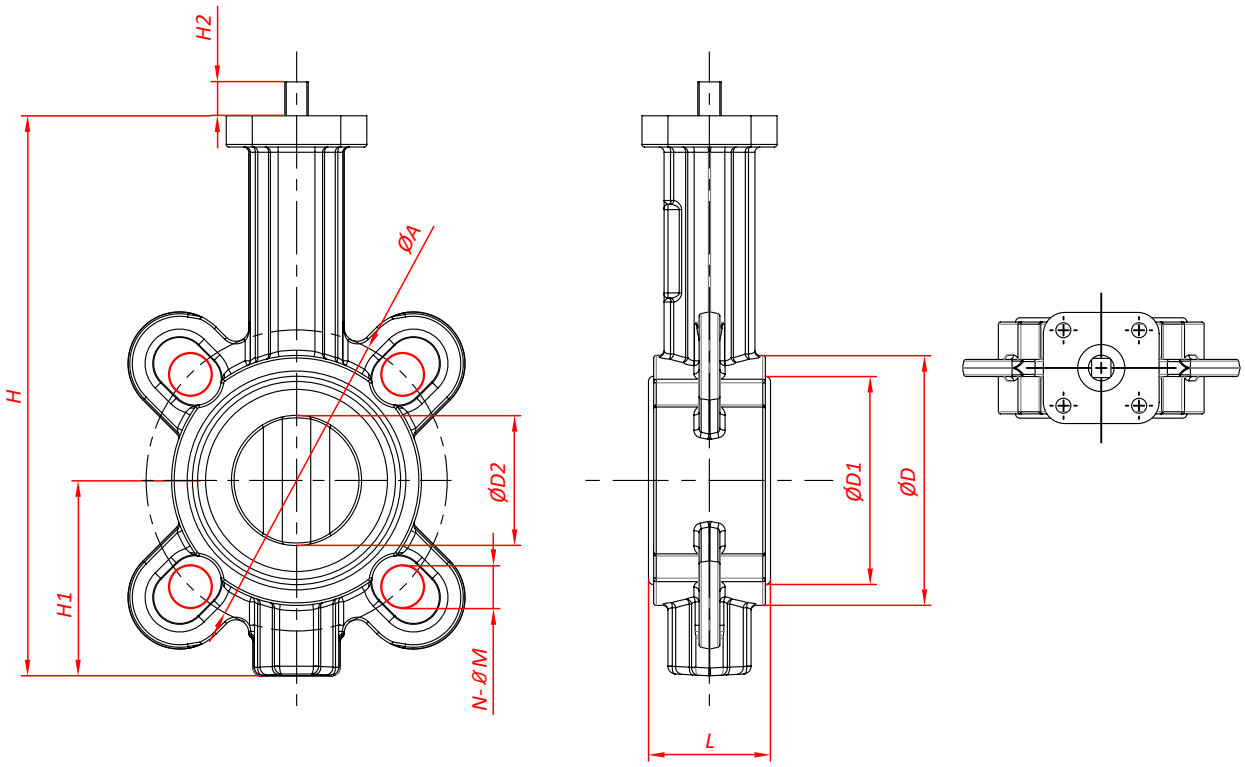
DIMENSIONS OF BARE SHAFT WAFER TYPE BUTTERFLY VALVE



SIZE DN25-DN40

DIMENSIONS OF BARE SHAFT WAFER TYPE BUTTERFLY VALVE IN SIZE DN25-DN40

Size	L	GB standard (PN10)		GB standard (PN16)		ANSI standard (CL.150LBS)		JIS standard (JIS5K)		JIS standard (JIS10K)		D	D1	D2	H	H1	H2
		ΦA	N- M	ΦA	N- M	ΦA	N- M	ΦA	N- M	ΦA	N- M						
DN25	33	85	4-12	85	4-12	79.5	4-14	75	4-10	90	4-12	69	59	34	140	46	15/27
DN32	33	100	4-16	100	4-16	88.9	4-14	90	4-12	100	4-16	69	59	34	140	46	15/27



SIZE DN50

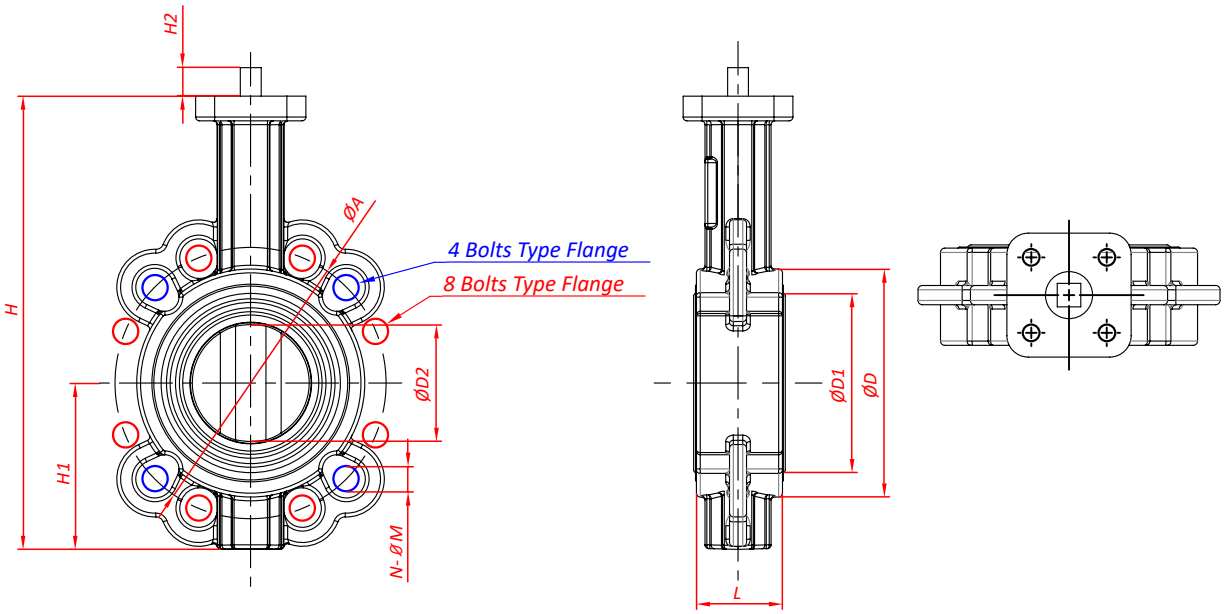
DIMENSIONS OF BARE SHAFT WAFER TYPE BUTTERFLY VALVE IN SIZE DN50

Size	L	GB standard (PN10)		GB standard (PN16)		ANSI standard (CL.150LBS)		JIS standard (JIS5K)		JIS standard (JIS10K)		D	D1	D2	H	H1	H2
		ΦA	N- M	ΦA	N- M	ΦA	N- M	ΦA	N- M	ΦA	N- M						
DN40	33	110	4-16	110	4-16	98.5	4-14	95	4-12	105	4-16	80	68	44	147	53	15/27
DN50	42	125	4-16	125	4-16	120.7	4-16	105	4-12	120	4-16	95	82	55	195	55	15/27

SOFT SEATED BUTTERFLY VALVE

PO8-W

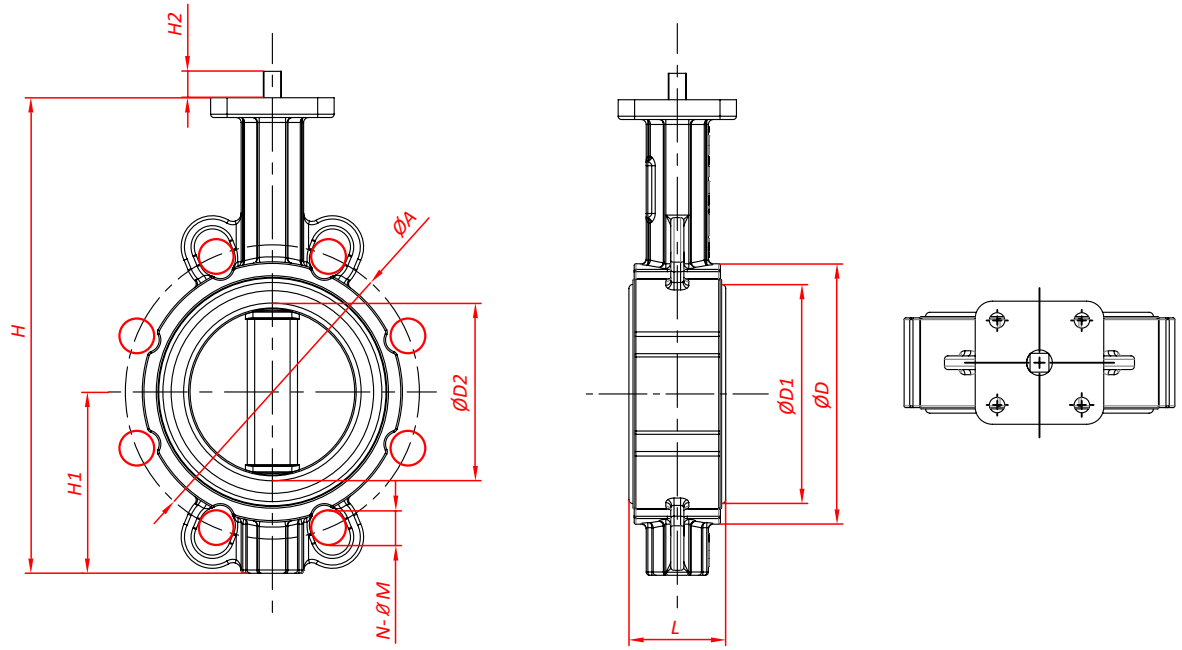
DIMENSIONS OF BARE SHAFT WAFER TYPE BUTTERFLY VALVE



SIZE DN65-DN80

DIMENSIONS OF BARE SHAFT WAFER TYPE BUTTERFLY VALVE IN SIZE DN65-DN80

Size	L	GB standard (PN10)		GB standard (PN16)		ANSI standard (CL.150LBS)		JIS standard (JIS5K)		JIS standard (JIS10K)		D	D1	D2	H	H1	H2
		ΦA	N- M	ΦA	N- M	ΦA	N- M	ΦA	N- M	ΦA	N- M						
DN65	44	145	4-16	145	4-16	139.7	4-16	130	4-12	140	4-16	114	97	69	217	64	15/27
DN80	44	160	8-16	160	8-16	152.4	4-16	145	4-16	150	8-16	126	113	81	232	73	15/27



SIZE DN100-DN250

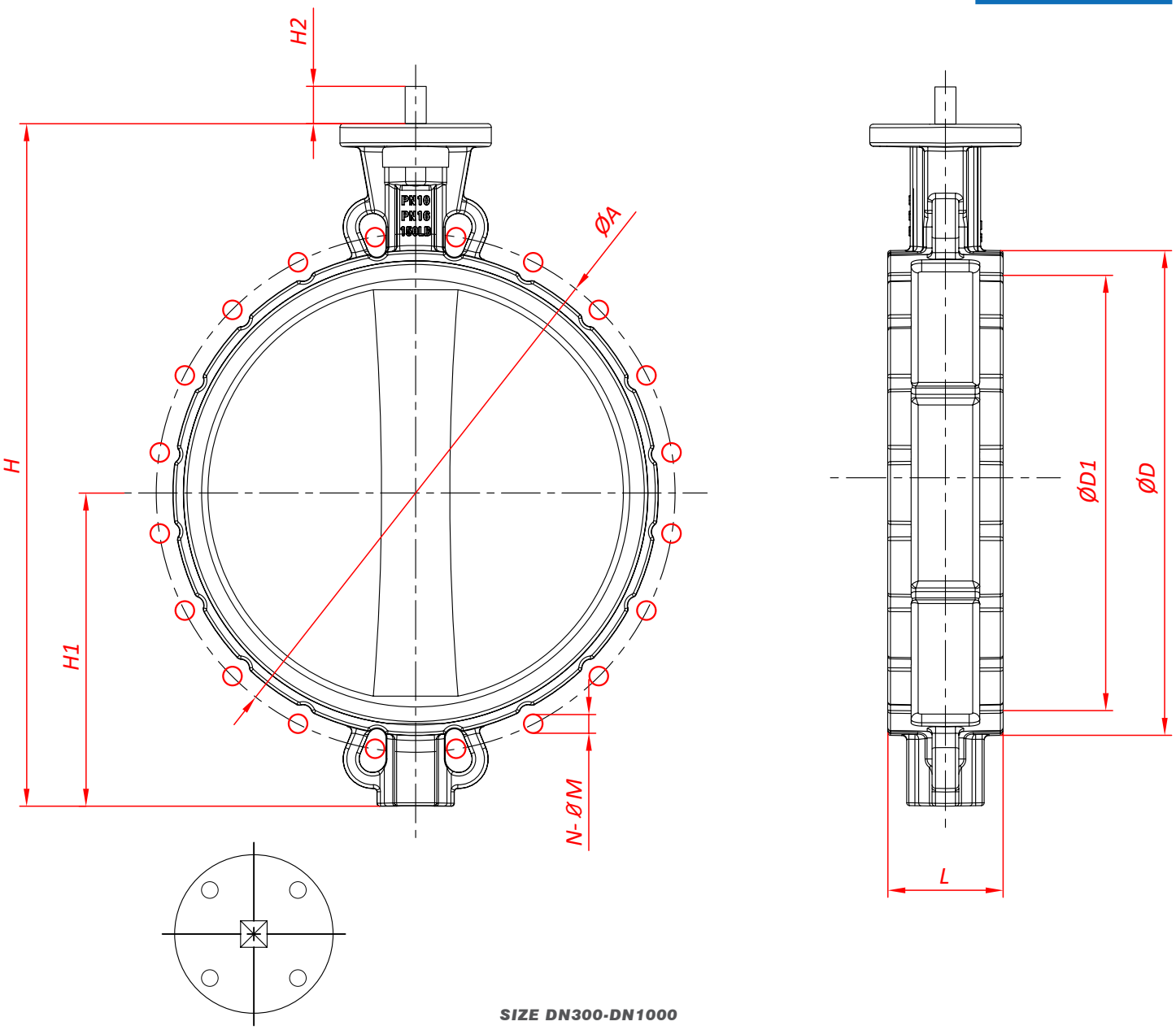
DIMENSIONS OF BARE SHAFT WAFER TYPE BUTTERFLY VALVE IN SIZE DN100-DN250

Size	L	GB standard (PN10)		GB standard (PN16)		ANSI standard (CL.150LBS)		JIS standard (JIS5K)		JIS standard (JIS10K)		D	D1	D2	H	H1	H2
		ΦA	N- M	ΦA	N- M	ΦA	N- M	ΦA	N- M	ΦA	N- M						
DN100	50	180	8-16	180	8-16	190.5	8-16	165	8-16	175	8-16	154	139	108	270	88	20/27
DN125	56	210	8-16	210	8-16	215.9	8-20	200	8-16	210	8-20	180	163	135	292	102	20/27
DN150	56	240	8-20	240	8-20	241.3	8-20	230	8-16	240	8-20	206	195	154	318	115	20/27
DN200	60	295	8-20	295	12-20	298.5	8-20	280	8-20	290	12-20	264	250	205	390	149	25/40
DN250	68	350	12-20	355	12-24	362	12-24	345	12-20	355	12-22	320	305	255	457	184	30/45

SOFT SEATED BUTTERFLY VALVE

P08-W

DIMENSIONS OF BARE SHAFT WAFER TYPE BUTTERFLY VALVE



SIZE DN300-DN1000

DIMENSIONS OF BARE SHAFT WAFER TYPE BUTTERFLY VALVE IN SIZE DN300-DN1000

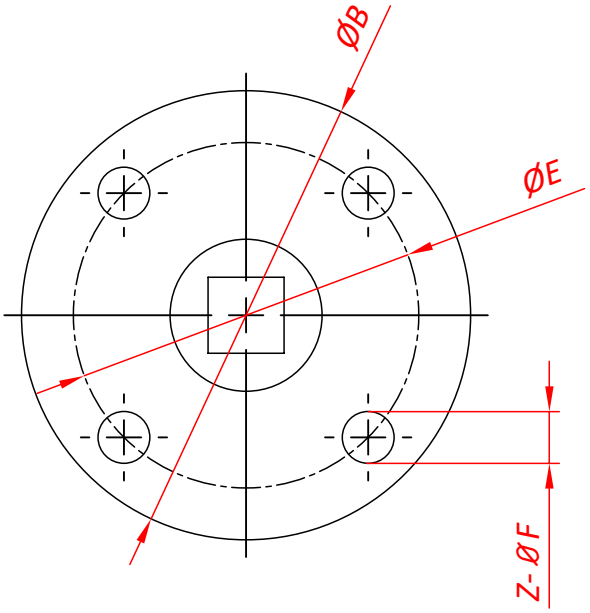
Size	L	GB standard (PN10)		GB standard (PN16)		ANSI standard (CL.150LBS)		JIS standard (JIS5K)		JIS standard (JIS10K)		D	D1	D2	H	H1	H2
		ΦA	N- M	ΦA	N- M	ΦA	N- M	ΦA	N- M	ΦA	N- M						
DN300	78	400	12-20	410	12-24	431.8	12-24	390	12-20	400	16-22	370	352	302	518	207	30/50
DN350	78	460	16-20	470	16-24	476.3	12-27	435	12-22	445	16-22	430	405	345	610	247	35/55
DN400	102	515	16-24	525	16-27	539.8	16-27	495	16-22	510	16-24	480	455	395	650	275	35/64
DN450	114	565	20-24	585	20-27	577.9	16-30	555	16-22	565	20-24	550	515	450	713	307	50/80
DN500	127	620	20-24	650	20-30	635	20-30	605	20-22	620	20-24	590	565	500	768	330	50/80
DN600	151	725	20-27	770	20-33	749.3	20-33	715	20-24	730	24-30	695	674	585	919	400	50/80
DN700	163	840	24-27	840	24-33	863.6	28-33	820	24-24	840	24-30	787	760	705	1144	520	55/82
DN800	190	950	24-30	950	24-36	977.9	28-39	930	24-30	950	28-30	905	878	810	1263	591	55/82
DN900	203	1050	28-30	1050	28-36	1085.8	32-39	1030	24-30	1050	28-30	970	955	885	1376	656	55/118
DN1000	216	1160	28-33	1170	28-39	1200.2	36-39	1130	28-30	1160	28-36	1107	1053	961	1522	722	55/148

★★★★★ Important Note:
The structure and dimensions above are mainly for the Ductile cast iron body material and non-back seat type Butterfly valve.
For other Stainless steel body type, PTFE seat type, Back seat type, and other types, they will have differences on some structure and dimensions.
Please consult POV team for more details.

SOFT SEATED BUTTERFLY VALVE

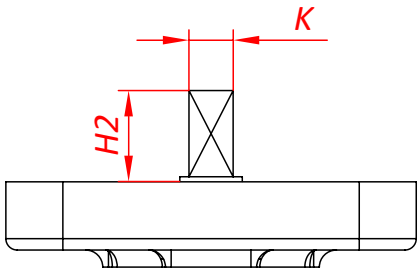
PO8-W

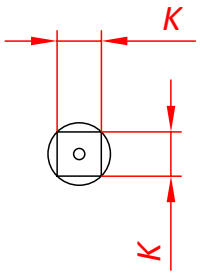
DIMENSIONS OF WAFER TYPE BUTTERFLY VALVE MOUNTING PAD



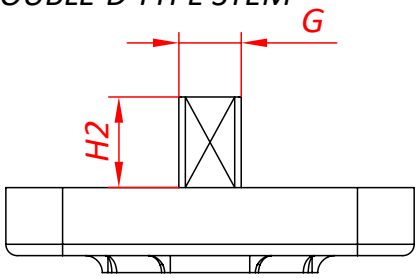
ISO5211 MOUNT PAD

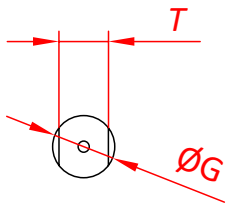
SQUARE TYPE STEM



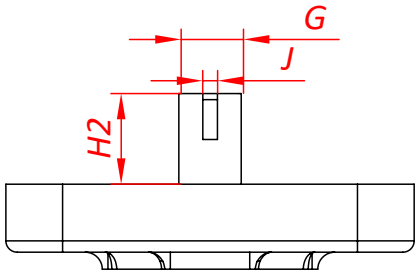


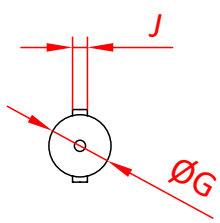
DOUBLE-D TYPE STEM





ROUND TYPE STEM WITH KEYS





DIMENSIONS OF WAFER TYPE BUTTERFLY VALVE MOUNTING PAD

Size	ΦB	ISO5211 Mounting Pad			H2	Square Stem	Double-D Stem		Round Stem c/w Keys	
		ΦE	Z-ΦF	ISO5211		K x K	G	T	G	J
DN25	65	50	4-7.5	F05	15/27	11	9.5	7	9.5	-
DN32	65	50	4-7.5	F05	15/27	11	9.5	7	9.5	-
DN40	65	50	4-7.5	F05	15/27	11	9.5	7	9.5	-
DN50	90	70	4-10	F07	15/27	11	14	10	14	1-3
DN65	90	70	4-10	F07	15/27	11	14	10	14	1-3
DN80	90	70	4-10	F07	15/27	11	14	10	14	1-3
DN100	90	70	4-10	F07	20/27	11	16	11	16	1-5
DN125	90	70	4-10	F07	20/27	14	19	13	19	1-5
DN150	90	70	4-10	F07	20/27	14	19	13	19	1-5
DN200	150	102	4-12	F10	25/40	17	22	16	22	1-5
DN250	150	102	4-12	F10	30/45	22	30	22	30	1-8
DN300	150	125	4-14	F12	30/50	22	30	22	30	1-8
DN350	150	125	4-14	F12	35/55	27	35	-	35	1-8
DN400	200	140	4-18	F14	35/64	27	40	-	40	1-10
DN450	210	165	4-22	F16	50/80	36	50	-	50	1-12
DN500	210	165	4-22	F16	50/80	36	50	-	50	1-12
DN600	210	165	4-22	F16	50/80	46	60	-	60	2-16
DN700	300	254	8-18	F25	55/82	46	60	-	60	2-18
DN800	300	254	8-18	F25	55/82	46	60	-	60	2-20
DN900	300	254	8-18	F25	55/118	55	75	-	75	2-22
DN1000	300	254	8-18	F25	148	55	85	-	85	2-25