

WATER SEAL VALVE

WATER SEALING TYPE

FEATURE

Water seal valve is available to design and manufacture according to **Maker standard**

FLANGE DIMENSION KS B 1511, ASME B 16.5

FACE TO FACE DIMENSION Maker standard

MATERIAL

- **BODY / BONNET / DISC** Carbon Steel, Ductile cast Iron
- **SPINDLE** Carbon Steel
- **SEAT** VITON, NBR, EPDM

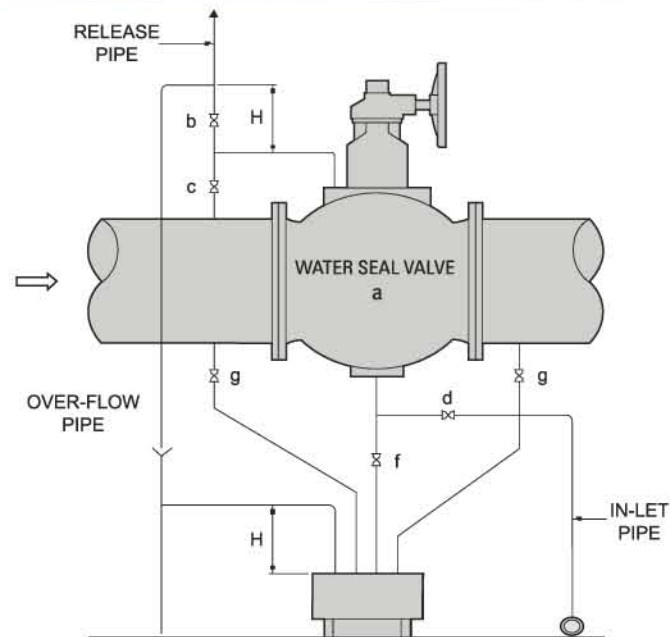
TEST ITEM (SPEC : Maker Standard)

- Pressure Test

GENERAL APPLICATIONS

- Gas

WATER SEAL PIPING DIAGRAM



1. When Water Seal Valve being shut (inlet water)

NO	SYMBOL	VALVE'S NAME	STATE	REMARK
1	a	Water Seal Valve	Shut	
2	f	Drain Valve	Shut	
3	c	Gas Inlet Valve	Shut	
4	b	Overflow Valve	Open	Gas exhaust
5	d	Water Inlet Valve	Open	Inlet Water Start
6	d	Water Inlet Valve	a little Open	When the water it is discharged being started from the overflow pipe, it closes the valve and it opens in small quantity.

SPECIFICATION

SIZE RANGE	200mm~3,000mm
PRESSURE CLASS	MAX 2kgf/cm ²
OPERATING	Manual, Electric, Pneumatic, Hydraulic

ADVANTAGE

- Complete shutoff (Zero Leakage)
- Safety (Double shut construction)
- In Case of Emergency, It's Shut off by Water seal
- Less Pressure Loss (Sphere Body)
- Less Trouble and Easy repair

PRESSURE TEST SPEC

TEST PRESSURE

Seat	MAX 1kgf/cm ²
Body	MAX 1.5kgf/cm ²



2. When Water Seal Valve being open (draining)

NO	SYMBOL	VALVE'S NAME	STATE	REMARK
1	d	Water Inlet Valve	Shut	Inlet Water stop
2	b	Overflow Valve	Shut	
3	c	Gas Inlet Valve	Open	
4	f	Drain Valve	Open	Drain Start (even after drain completing in condition which is opened)
5	c	Gas Inlet Valve	Shut	after drain completing, It is shut.
6	a	Water Seal Valve	Open	after drain completing, full open.

* Drain Valve (g) is always open.

Unit : mm

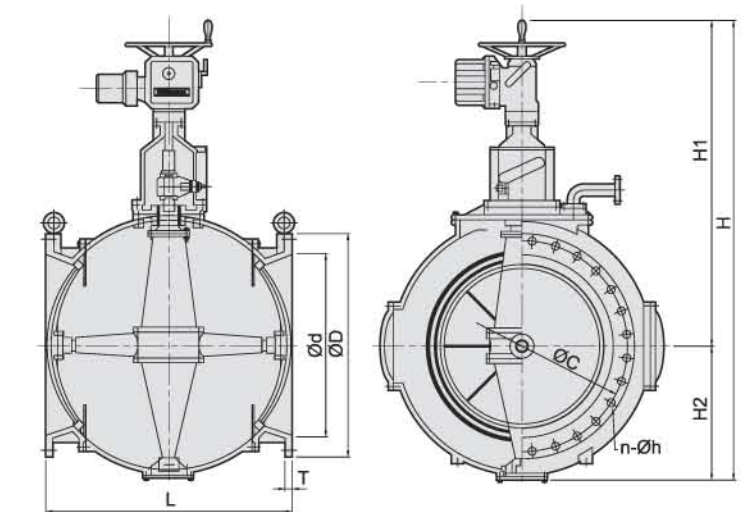
Size d	H1	H2	H	L	Weight (kg)	Flange Rating				
						D	C	T	h	n
200	720	227	947	420	200	320	280	24	23	8
250	916	249	1135	420	210	385	345	26	23	12
300	946	234	1180	480	240	430	390	28	23	12
350	991	284	1275	550	255	480	435	30	25	12
400	1082	309	1391	580	333	540	495	30	25	16
450	1122	354	1476	650	420	605	555	30	25	16
500	1142	381	1523	720	565	655	605	32	25	20
600	1219	431	1650	900	710	770	715	32	27	20
700	1427	535	1962	1000	1080	875	820	30	25	24
800	1483	589	2072	1150	1420	995	930	32	27	24
1000	1595	734	2329	1350	2020	1195	1130	34	27	28
1200	1720	824	2544	1740	3570	1420	1350	36	27	32
1300	1853	1030	2883	1800	3200	-	-	-	-	-
1350	1927	1050	2977	1900	3850	1575	1505	26	27	32
1400	2037	1150	3187	2000	3970	-	-	-	-	-
1500	2037	1150	3187	2000	4000	1730	1660	28	27	36
1600	2065	1300	3365	2150	4900	1790	1730	26	30	40
1800	2205	1448	3653	2500	6700	1990	1930	26	30	44
2000	2370	1550	3920	2700	8000	2190	2130	26	30	48
2200	2442	1720	4162	2900	10600	2405	2340	28	33	52
2400	2590	1850	4440	3240	13000	2605	2540	28	33	56
2600	2808	1980	4788	3400	16800	2805	2740	28	33	60
2800	3000	2080	5080	3700	19000	3030	2960	30	36	64
3000	3107	2250	5357	4000	24000	3230	3160	30	36	68
3400	3684	2589	6273	4400	35000	3760	3640	42	36	76

Unit : mm

Size d	H1	H2	H	L	Weight (kg)	Flange Rating				
						D	C	T	h	n
200	894	227	1121	420	268	320	280	24	23	8
250	983	262	1245	480	285	385	345	26	23	12
300	1445	234	1679	480	325	430	390	28	23	12
350	1481	284	1765	550	349	480	435	30	25	12
400	1552	309	1861	580	380	540	495	30	25	16
450	1597	354	1951	650	498	605	555	30	25	16
500	1778	381	2159	720	620	655	605	32	25	20
600	1833	431	2264	900	880	770	715	32	27	20
700	1848	534	2382	1000	1100	875	820	30	25	24
800	1904	589	2493	1150	1150	995	930	32	27	24
1000	2161	734	2895	1350	1350	1195	1130	34	27	28

NOTE Flange Rating is Maker Standard, but other standard are available on request.

ELECTRIC TYPE



PNEUMATIC TYPE

