ISOLATION VALVES
Butterfly Valves - carrot top

Single Mold Body
Hydroseal Canada's 2" through 12" all-plastic carrot top Butterfly Valves are rated at a full 200 PSI. Hydroseal Canada valves are constructed from a one piece body that incorporates fully supported flanged bolt holes to prevent stressing of the mating pipe flanges. Their heavy duty construction stands up to the most demanding applications. The integral mounting pad ensures that the valve operator is used, lever handle, worm gear or actuator.

Advanced Design
Hydroseal Canada Butterfly Valves feature stainless steel stems and a unique, full body liner that has a V-notch retention design. This assures positive sealing of the liner to the valve body without the use of adhesives or thermal bonding. An integrally molded face seal provides positive sealing against the mating flange without the need for additional gaskets, and the lever handle has a built in lockout feature.

Easy Compatibility
Hydroseal Canada Butterfly Valves can be easily fitted into a metal piping system. All valve sizes meet industry face-to-face standards allowing simple retrofit.

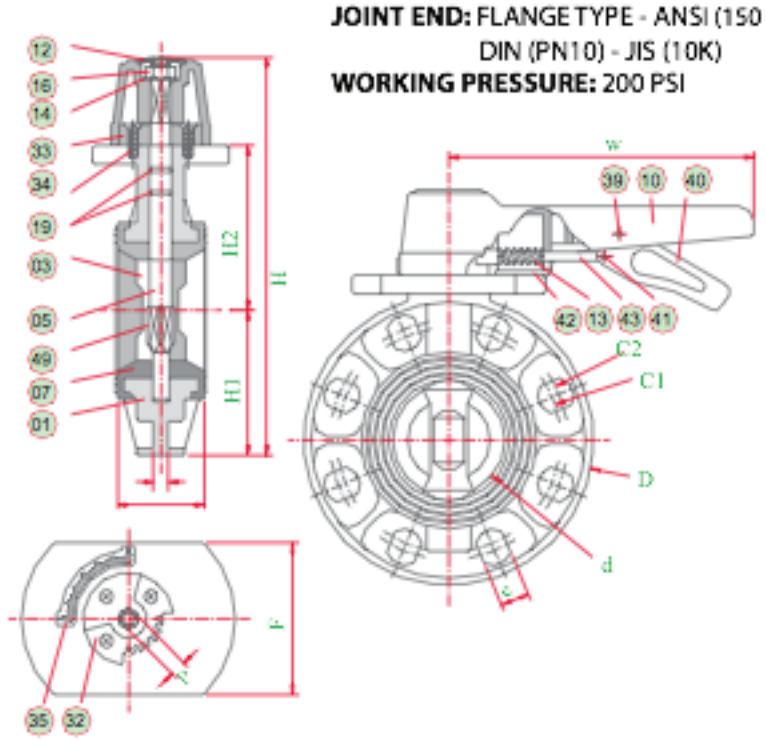
No Metal, No Corrosion
These valves have no metal in contact with the process media. They cannot corrode or rust, nor will they contaminate sensitive fluids flowing through them.

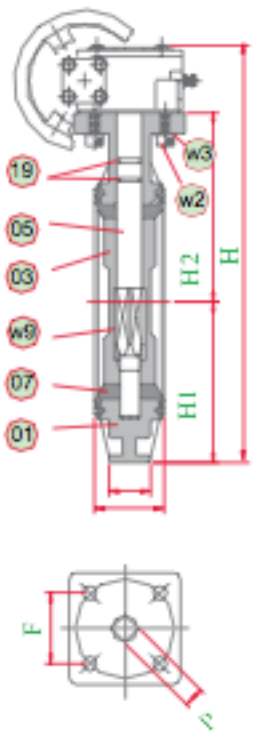
Features
- Rated at 200 PSI
- Stainless Steel Shaft
- Fully Supported Flange Bolt Holes
- Bolt Holes suitable for ASTM, DIN and JIS systems
- V-Notch Liner
- Viton, EPDM or Nitrile Liners

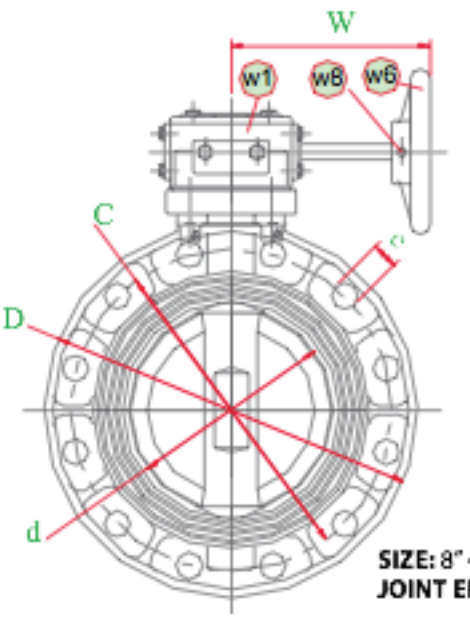
Options
- Lug Body Design
- Worm Gear Operators
- Electric Actuators
- Pneumatic Actuators
- PVC, PP or PVDF Discs

Technical Information

SIZE: 2" ~ 8"
JOINT END: FLANGE TYPE - ANSI (150 LBS)
DIN (PN10) - JIS (10K)
WORKING PRESSURE: 200 PSI







SIZE: 8" ~ 12"
JOINT END: FLANGE TYPE
(ANSI.DIN.JIS)
WORKING PRESSURE: 200 PSI

CONSTRUCTION			
NO	PARTS	PCS	MATERIALS
W1	WORM GEAR	1	FC20
W2	BOLT	4	SUS27
W3	WASHER	4	SUS27
W6	HANDLE	1	FC20
W8	PIN	1	SUS410
W9	GATE BUSHING	1	SUS410

CONSTRUCTION			
NO	PARTS	PCS	MATERIALS
1	BODY	1	PVC,PP
3	VALVE GATE	1	PP
5	VALVE STEM	1	SU410
7	SEAT	1	EPDM.NBR.BUNA
10	HANDLE	1	ABS
12	HANDLE CAP	1	ABS

CONSTRUCTION			
NO	PARTS	PCS	MATERIALS
13	SPRING	1	SUS316
14	HANDLE WASHER	1	SUS27
16	HANDLE NUT	1	SUS27
19	STEM O-RING	2	EPDM
32	LOCKING PLATE	1	SUS304
33	GEAR SEAT	1	ABS
34	BOLT	3	SUS27
35	LEVEL	1	ALUMINUM
39	PIN	1	SUS27
40	SMALL HANDLE	1	ABS
49	GATE BUSHING	1	SUS304

PART	NOMINAL SIZE	FLANGE TYPE	LEVER HANDLE TYPE								UNIT OF MEASURE:MM					
		DN	d	C1	C2	H	H1	H2	L	L1	D	F	W	e	P	*OPERATING TORQUE (LBF-IN)
60030	2"	DN 50	52.0	120.0	125.0	229.0	81.0	93.0	52.0	10.0	162.0	92.0	208.0	19.0	11.0	87.0
60031	2 1/2"	DN 65	66.0	140.0	145.0	248.0	89.0	104.0	43.0	10.0	179.0	92.0	208.0	19.0	11.0	104.0
60032	3"	DN 80	78.0	150.0	160.0	263.0	98.0	110.0	57.0	10.0	195.0	92.0	208.0	19.0	14.0	104.0
60033	4"	DN 100	100.0	175.0	190.5	296.0	112.0	128.0	60.0	10.0	225.0	92.0	208.0	19.0	14.0	130.0
60035	5"	DN 125	125.0	210.0	216.0	331.0	128.0	144.0	65.0	12.0	256.0	110.0	280.0	23.0	17.0	190.0
60036	6"	DN 150	143.0	240.0	240.0	358.0	140.0	158.0	70.0	12.0	282.0	110.0	280.0	23.0	17.0	217.0
60038	8"	DN 200	187.0	290.0	298.5	450.0	172.5	203.5	79.0	15.0	345.0	120.0	300.0	23.0	22.0	260.0

PART	NOMINAL SIZE	FLANGE TYPE	WORM GEAR TYPE								UNIT OF MEASURE:MM					
		DN	d	C	C	H	H1	H2	L	L1	D	F	W	e	P	*OPERATING TORQUE (LBF-IN)
60038	8"	DN 200	187.0	298.5	295.0	450.0	172.5	203.5	79.0	45.0	345.0	76.0	199.0	24.0	107.5	260.0
60040	10"	DN 250	236.0	362.0	350.0	523.0	206.5	241.5	97.0	55.0	413.0	76.0	199.0	25.0	107.5	303.0
60042	12"	DN 300	283.0	431.5	400.0	610.0	245.5	280.5	107.0	60.0	491.0	88.4	250.0	25.0	136.0	434.0

SELECTION CHART
Lever Handle Operator and Gear Box Operator

SIZE	BODY MATERIAL	DISC MATERIAL	SHAFT MATERIAL	LINER	OPERATOR	PRESSURE RATING
2" to 8"	PVC	PP	SUS 410	Viton, EPDM or Nitrile	Lever or Gear Box	200 PSI @ 70F Non-Shock
		PVC or PVDF*	SUS 410			
10" to 12"	PPL	PVC or PPL				

CV FACTORS

SIZE	FACTOR	SIZE	FACTOR
2"	125	6"	1100
3"	280	8"	2500
4"	375	10"	4700
5"	N/A	12"	7100

* PVDF not available in 2"

Pressure Loss Calculation Formula

$$\Delta P = \left[\frac{Q}{Cv}\right]^2$$

ΔP = Pressure Drop
Q = Flow in GPM
Cv = Flow Coefficient

OPERATING TEMPERATURE/PRESSURE