



### 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 tube 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

### Features

- Rated at 200 PSI
- Easy 1/4-Turn Operation
- Stainless Steel Shaft
- Fully Supported Flange Bolt Holes
- V-Notch Liner
- Suitable for ASTM, DIN, JIS and CNS systems
- NSF Compliant

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 tubing 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.

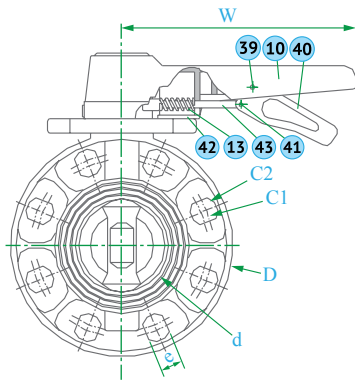
### Options

- Lug Body Design
- Worm Gear Operators
- Electric Actuators
- Pneumatic Actuators
- PVC, CPVC, PP and PVDF
- EPDM, Viton or Nitrile Liners

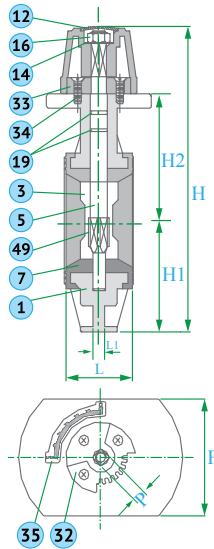
## SIZE: 2" ~ 8"

**JOINT END:**  
FLANGE - ASTM, 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

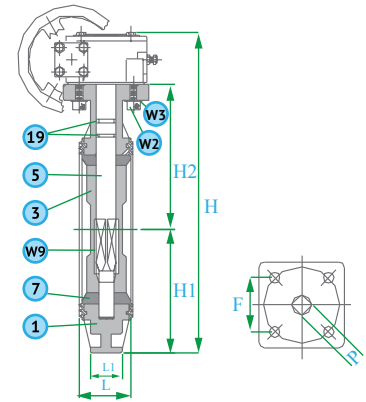
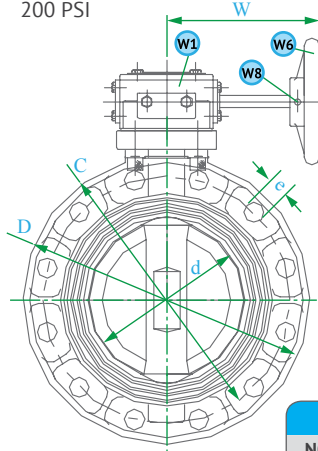


CONSTRUCTION			
NO	PARTS	PCS	MATERIALS
1	BODY	1	PVC, CPVC, PP
3	VALVE GATE	1	PP
5	VALVE STEM	1	SU410
7	SEAT	1	EPDM, VITON
10	HANDLE	1	ABS
12	HANDLE CAP	1	ABS

## SIZE: 8" ~ 12"

**JOINT END:**  
FLANGE - ASTM, DIN, JIS

**WORKING PRESSURE:**  
200 PSI



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											TORQUE @ 100 PSI (KG-m)			
			DN	d	C1	C2	H	H1	H2	L	L1	D	F	W	e	P	Open
CTEF.0200	2"	DN 50	52	120	125	229	81	93	43	10	162	92	208	19	11	0.80	1.00
CTEF.0250	2 1/2"	DN 65	66	140	145	248	89	104	52	10	179	92	208	19	11	1.90	2.00
CTEF.0300	3"	DN 80	78	150	160	263	98	110	57	10	195	92	208	19	14	2.50	2.50
CTEF.0400	4"	DN 100	100	175	191	296	112	128	60	10	225	92	208	19	14	3.00	3.00
CTEF.0500	5"	DN 125	125	210	216	331	128	144	65	12	256	110	280	23	17	-	-
CTEF.0600	6"	DN 150	143	240	240	258	140	158	70	12	282	110	280	23	17	7.50	8.00
CTEF.0800	8"	DN 200	187	290	299	450	173	204	79	15	345	120	300	23	22	10.00	10.50

PART	NOMINAL SIZE	FLANGE TYPE	WORM HANDLE TYPE											TORQUE @ 100 PSI (KG-m)			
			DN	d	C1	C2	H	H1	H2	L	L1	D	F	W	e	P	Open
CTEF.0800	8"	DN 200	187	299	295	450	173	204	79	45	345	76	199	24	108	10.00	10.00
CTEF.1000	10"	DN 250	236	362	350	523	207	242	97	55	413	76	199	25	108	17.00	17.00
CTEF.1200	12"	DN 300	283	432	400	610	246	281	107	60	491	88	250	25	136	27.00	27.00

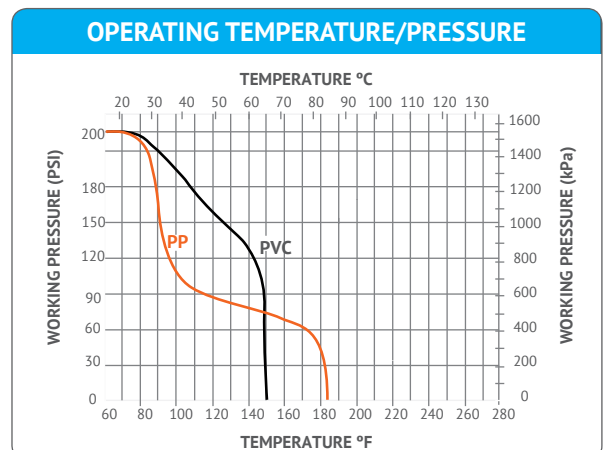
SELECTION CHART				
SIZE	MATERIAL	CONNECTION	SEALS	PRESSURE RATING
2"-12"	PVC CPVC PP	FLANGE	EPDM or VITON	200 PSI @ 73F Non-Shock

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

Pressure Loss Calculation Formula

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

$\Delta P$  = Pressure Drop  
 $Q$  = Flow in GPM  
 $C_v$  = Flow Coefficient



\* PVDF not available in 2"