ISOLATION VALVES
Butterfly Valves - TITAN

Single Mold Body

Hydroseal Canada's 2" through 8" all plastic TITAN Butterfly valves are rated at a full 150 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, industrial, robust 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 and Tested 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 with the need for additional gaskets, and the lever handle has a built in lock out feature. The discs are also molded and re-engineered for precise flow control, with options available for PVC, CPVC , PP or PVDF.

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.

Features

- Rated at 150 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

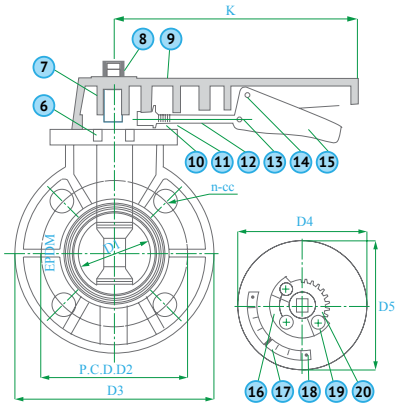
Options

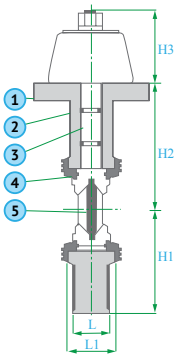
- Lug Body Design
- Worm Gear Operators
- Electric Actuators
- Pneumatic Actuators
- PVC, CPVC, PP and PVDF
- EPDM, Viton or Nitrile Liners

SIZE: 2" ~ 8"

JOINT END:
FLANGE - ASTM, DIN, JIS

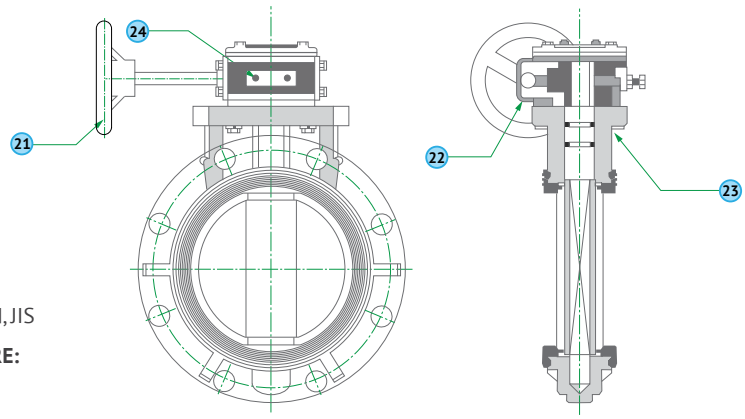
WORKING PRESSURE:
150 PSI





CONSTRUCTION			
NO	PARTS	PCS	MATERIALS
1	BODY	1	PVC, CPVC, PP
2	STEM O-RING	2	PVC, CPVC, PP
3	STEM	1	SUS 410, SUS 316
4	SEAT	1	EPDM, VITON, NBR
5	DISC	1	PVC, CPVC, PP
6	BOLT	1	BRASS, SUS 304
7	HANDLE INSERT	1	FC 0208
8	STEM BOLT	1	PVC, BRASS
9	HANDLE	1	ABS
10	HANDLE CAP	1	ABS
11	SPRING	1	SUS 304
12	LEVER	1	SUS 304

CONSTRUCTION			
NO	PARTS	PCS	MATERIALS
13	SET PIN (SHORT)	1	SUS 304
14	SET PIN (LONG)	1	SUS 304
15	LEVER	1	SUS 304
16	POSITIONER	1	PVC, CPVC, PP
17	INDICATOR	1	SUS 304
18	BOLT	1	SUS 304
19	BOLT	3	SUS 304
20	TOOTH PLATE	1	SUS 304
21	WORM GEAR	1	FC25
22	GEAR BOX	1	FC25
23	BOLT	4	SUS 304
24	ADJUSTABLE BOLT	2	SS 41



SIZE: 8" ~ 16"

JOINT END:
FLANGE - ASTM, DIN, JIS

WORKING PRESSURE:
150 PSI

PART	NOMINAL SIZE	FLANGE TYPE	LEVER HANDLE TYPE					UNIT OF MEASURE: MM							TORQUE @ 100 PSI (KG-m)	
		DN	D1	D2	D3	D4	D5	n	L	L1	H1	H2	H3	I	K	Open	Close
TIEF.0200	2"	DN 50	55	123	164	105	93	4	38	41	82	107	63	252	204	0.80	1.00
TIEF.0250	2 1/2"	DN 65	-	-	-	-	-	-	-	-	-	-	-	-	-	1.90	2.00
TIEF.0300	3"	DN 80	78	152	196	127	95	8	42	45	98	123	63	284	204	2.50	2.50
TIEF.0400	4"	DN 100	100	182	225	134	100	8	48	51	113	139	68	320	253	3.00	3.00
TIEF.0500	5"	DN 125	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TIEF.0600	6"	DN 150	152	240	286	170	101	8	51	54	143	178	86	407	297	7.50	8.00
TIEF.0800	8"	DN 200	200	290	344	191	110	12	61	64	172	212	86	470	297	10.00	10.50

PART	NOMINAL SIZE	FLANGE TYPE	LEVER HANDLE TYPE					UNIT OF MEASURE: MM							TORQUE @ 100 PSI (KG-m)	
		DN	D1	D2	D3	D4	D5	n	L	L1	H1	H2	H3	I	K	Open	Close
TIEW.0800	8"	DN 200	203	290	337	450	-	12	76	87	168	204	69	441	178	10.00	10.00
TIEW.1000	10"	DN 250	255	355	400	523	-	12	96	111	200	235	69	504	178	17.00	17.00
TIEW.1200	12"	DN 300	312	400	483	610	-	12	116	132	239	289	103	631	216	27.00	27.00
TIEW.1400	14"	DN 350	355	445	520	-	-	12	116	132	259	305	103	667	216	37.00	37.00
TIEW.1600	16"	DN 400	398	510	600	-	-	16	153	169	302	353	103	758	232	42.00	42.00

SELECTION CHART

SIZE	MATERIAL	CONNECTION	SEALS	PRESSURE RATING
2" ~ 16"	PVC CPVC PP	FLANGE	EPDM or VITON	150 PSI @ 73F Non-Shock

CV FACTORS

SIZE	FACTOR	SIZE	FACTOR
2"	120	6"	1280
2 1/2"	280	8"	2230
3"	400	10"	3870
4"	550	12"	5640

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