

ISOLATION VALVES

Butterfly Valves - titan

SECTION

5



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 pipe 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 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 150 PSI
- Stainless Steel Shaft
- Fully Supported Flange Bolt Holes
- Universal Bolt Holes suitable for ASTM, DIN and JIS systems
- V-Notch Liner

Options

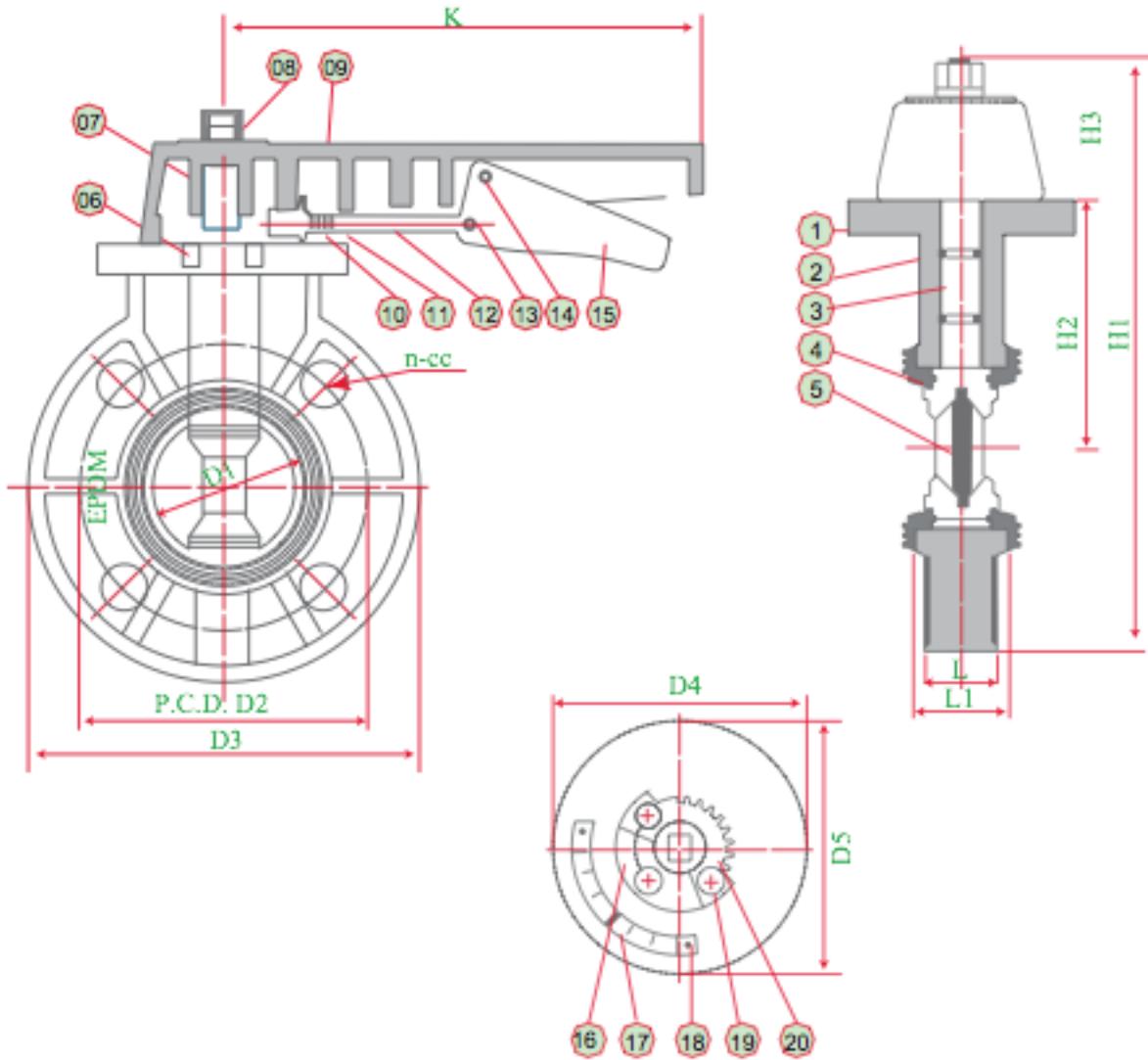
- Lug Body Design
- Worm Gear Operators
- Electric Actuators
- Pneumatic Actuators
- PVC, CPVC, PP or PVDF discs
- Viton, EPDM or Nitrile Liners

Technical Information

SIZE: 2" ~ 8"

JOINT END: FLANGE TYPE - ANSI (150 LBS)
DIN (PN10) - JIS (10K)

WORKING PRESSURE: 150 PSI



| CONSTRUCTION | | | |
|--------------|----------------|-----|------------------|
| NO | PARTS | PCS | MATERIALS |
| 1 | BODY | 1 | PVC,PP,CPVC,PVDF |
| 2 | STEM O-RING | 2 | EPDM,VITON |
| 3 | STEM | 1 | SUS 410, SUS 316 |
| 4 | SEAT | 1 | EPDM,VITON,NBR |
| 5 | DISC | 1 | PVC,PP,CPVC,PVDF |
| 6 | BOLT | 1 | BRASS,SUS304 |
| 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 |
| 13 | SET PIN(SHORT) | 1 | SUS 304 |
| 14 | SET PIN(LONG) | 1 | SUS 304 |
| 15 | LEVER | 1 | ABS |
| 16 | POSITIONER | 1 | PVC |
| 17 | INDICATOR | 1 | SUS 304 |
| 18 | BOLT | 2 | SUS 304 |
| 19 | BOLT | 3 | SUS 304 |
| 20 | TEETH PLATE | 1 | SUS 304 |

| PART | NOMINAL SIZE | FLANGE TYPE | LEVER HANDLE TYPE | | | | | | | UNIT OF MEASURE: MM | | | | | | Torque at 100 PSI (kgf.m) | |
|-------|--------------|-------------|-------------------|-------|-------|------|------|------|-------|---------------------|-------|------|-------|-------|-------|---------------------------|-------|
| | | | DN | D1 | D2 | D3 | n | L | L1 | D4 | H1 | H2 | H3 | I | K | D5 | Open |
| 60030 | 2" | DN 50 | 55.0 | 123.0 | 164.0 | 4.0 | 38.0 | 41.0 | 105.0 | 82.0 | 107.0 | 63.0 | 252.0 | 204.0 | 93.0 | 0.80 | 1.00 |
| 60031 | 2 1/2" | DN 65 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 60032 | 3" | DN 80 | 78.0 | 151.8 | 196.0 | 8.0 | 42.0 | 45.0 | 127.0 | 98.0 | 123.0 | 63.0 | 284.0 | 204.0 | 95.0 | 2.50 | 2.50 |
| 60033 | 4" | DN 100 | 100.0 | 182.0 | 225.0 | 8.0 | 48.0 | 51.0 | 134.0 | 112.5 | 139.5 | 68.0 | 320.0 | 253.0 | 100.0 | 3.00 | 3.00 |
| 60035 | 5" | DN 125 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 60036 | 6" | DN 150 | 152.0 | 240.0 | 286.0 | 8.0 | 51.0 | 54.0 | 170.0 | 143.0 | 178.0 | 86.0 | 407.0 | 297.0 | 101.0 | 7.50 | 8.00 |
| 60038 | 8" | DN 200 | 200.0 | 290.0 | 344.0 | 12.0 | 61.0 | 64.0 | 191.0 | 172.0 | 212.0 | 86.0 | 470.0 | 297.0 | 110.0 | 10.15 | 10.50 |

| 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 | 150 PSI @ 70F Non-Shock |
| | | PVC or PVDF* | SUS 316 | | | |

| CV FACTORS | | | |
|------------|--------|------|--------|
| SIZE | FACTOR | SIZE | FACTOR |
| 2" | 125.0 | 6" | 1100.0 |
| 3" | 280.0 | 8" | 2500.0 |
| 4" | 375.0 | - | - |
| 5" | N/A | - | - |

Pressure Loss Calculation Formula

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

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

