ISOLATION VALVES

True Union Ball Valves - ANTHEM WTF ™ Series

Heavy Wall Plastic Construction

Stands up to the most aggressive of applications. Hydroseal Canada's ANTHEM True Union Ball Valves can take the daily abuse of industrial service and continue to function.

True Union Functionality

This makes these valves very easy to maintain by allowing for easy removal from a tubing system without breaking down tube connections. Just unscrew the two assembly nuts and lift the valve body out of the line.

Advanced Design

Hydroseal Canada's ANTHEM WTF ™ Series True Union Ball Valves are superior performers. A fine-pitch seal retainer thread allows for accurate compensation for seat wear. Reversible seats make it easy to get a damaged valve back in service. Should the seats become damaged they only need to be removed, turned over, and reinstalled to put the valve back on line. These valves feature a double o-ring stem seal for twice the leakage protection of valves with only a single stem seal.

Corrosion-free

This is because of anthem's all-plastic construction. Anthem will never rust or corrode, and can survive corrosive environments without the need for painting or expensive epoxy coatings.

Actuator-ready

Hydroseal Canada's manual True Union Ball Valves have been designed so that they can be easily converted to automated valves - in the field. To do this, just remove the compression-fit handle and install an actuator mounting bracket.

Features

- Rated at 200 PSI
- Easy 1/4-Turn Operation
- Full Port Design
- True Union Functionality
- Reversible PTFE Seats
- Double O-Ring Stem Assembly
- Breakaway Failsafe Stem Assembly
- Suitable for ASTM, DIN, JIS and CNS systems
- NSF Compliant

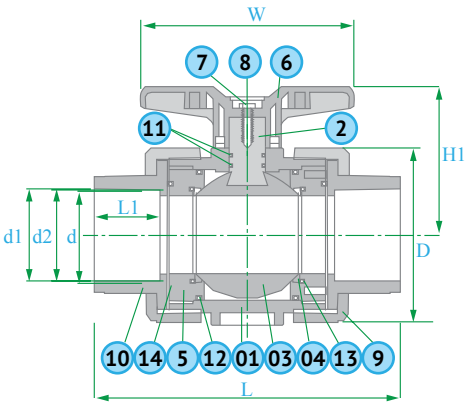
Options

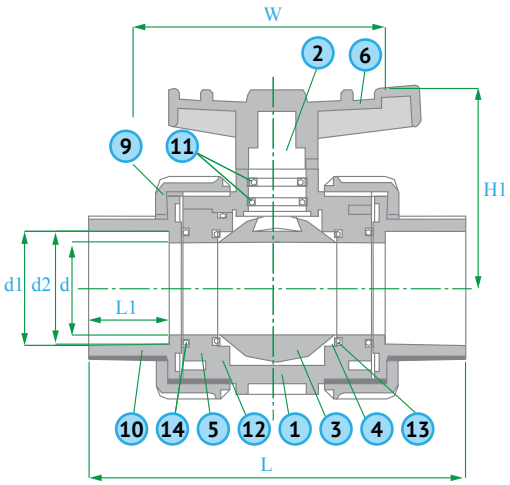
- Socket or Threaded Connectors
- Electric Actuators
- Pneumatic Actuators
- PVC, CPVC, PP and PVDF
- EPDM, Viton or Nitrile O-Rings

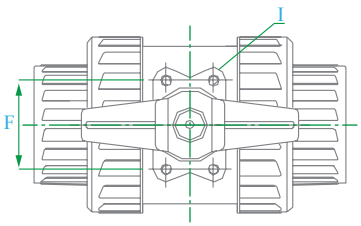
SIZE: 1/2" ~ 2"

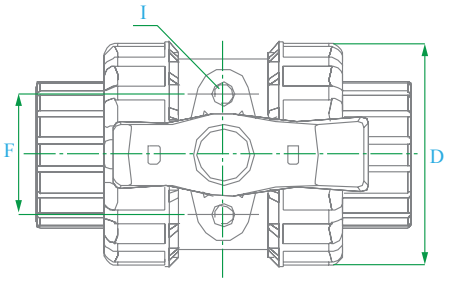
JOINT END:
SOCKET - ASTM, DIN, JIS
THREAD - NPT, BSPT

WORKING PRESSURE:
200 PSI









CONSTRUCTION			
NO	PARTS	PCS	MATERIALS
1	BODY	1	PVC, CPVC, PP
2	STEM	1	PVC, CPVC, PP
3	BALL	1	PVC, CPVC, PP
4	SEAT	2	TEFLON
5	THREADED SPACER	1	PVC, CPVC, PP
6	HANDLE	1	PVC, CPVC, PP
7	BOLT	1	SUS304
8	HANDLE CAP	1	ABS
9	UNION NUT	2	PVC, CPVC, PP
10	UNION SOCKET	2	PVC, CPVC, PP
11	STEM O-RING	2	EPDM, VITON
12	SPACER SEAL	2	EPDM, VITON
13	END SEAL	2	EPDM, VITON

SIZE: 2 1/2" ~ 4"

JOINT END:
SOCKET - ASTM, DIN, JIS
THREAD - NPT, BSPT

WORKING PRESSURE:
150 PSI

PART	NOMINAL SIZE	SOCKET THREAD TYPE	UNIT OF MEASURE: MM											
		DN	D	d1	d1	d1	d2	d2	d2	L	L1	W	F	H1	I
ANES.0050	1/2"	DN 15	53.0	21.5	20.3	22.3	21.2	19.9	21.8	104.0	23.0	66.0	31.0	49.0	M5
ANES.0075	3/4"	DN 20	61.0	26.9	25.3	26.3	26.6	24.9	25.7	115.0	26.0	79.0	33.0	60.0	M6
ANES.0100	1"	DN 25	71.0	33.7	32.3	32.3	33.3	31.9	31.7	131.0	30.0	87.0	40.0	68.0	M6
ANES.0125	1 1/4"	DN 32	83.0	42.4	40.3	38.4	42.0	39.8	37.6	147.0	32.0	97.0	52.0	76.0	M8
ANES.0150	1 1/2"	DN 40	96.0	48.6	50.3	48.5	48.1	49.8	47.5	164.0	35.0	109.0	52.0	85.0	M8
ANES.0200	2"	DN 50	116.0	60.6	63.3	60.6	60.2	62.8	59.4	210.0	40.0	132.0	70.0	97.0	M8
ANES.0250	2 1/2"	DN 65	146.0	73.8	75.3	76.6	72.9	74.8	75.9	265.0	49.0	205.0	83.6	133.0	M10
ANES.0300	3"	DN 80	162.0	89.3	90.3	89.6	88.7	89.8	88.8	290.0	63.0	205.0	83.6	144.0	M10
ANES.0400	4"	DN 100	206.0	114.8	110.3	114.7	114.1	109.8	114.0	366.0	87.0	250.0	121.0	170.0	M10

SELECTION CHART

SIZE	MATERIAL	CONNECTION	SEALS	PRESSURE RATING
1/2" ~ 4"	PVC CPVC PP	SOCKET or THREAD	EPDM or VITON	200 PSI @ 73F Non-Shock

CV FACTORS

SIZE	FACTOR	SIZE	FACTOR
1/4"	-	1 1/2"	90
3/8"	-	2"	140
1/2"	8	2 1/2"	330
3/4"	15	3"	480
1"	29	4"	600
1 1/4"	75	6"	-

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