

ISOLATION VALVES

True Union Ball Valves - **anthem** (WTF™ Series)

SECTION

5



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 piping system without breaking down pipe connections. Just unscrew the two assembly nuts and lift the valve body out of the line.

Advanced Design

Hydroseal Canada 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

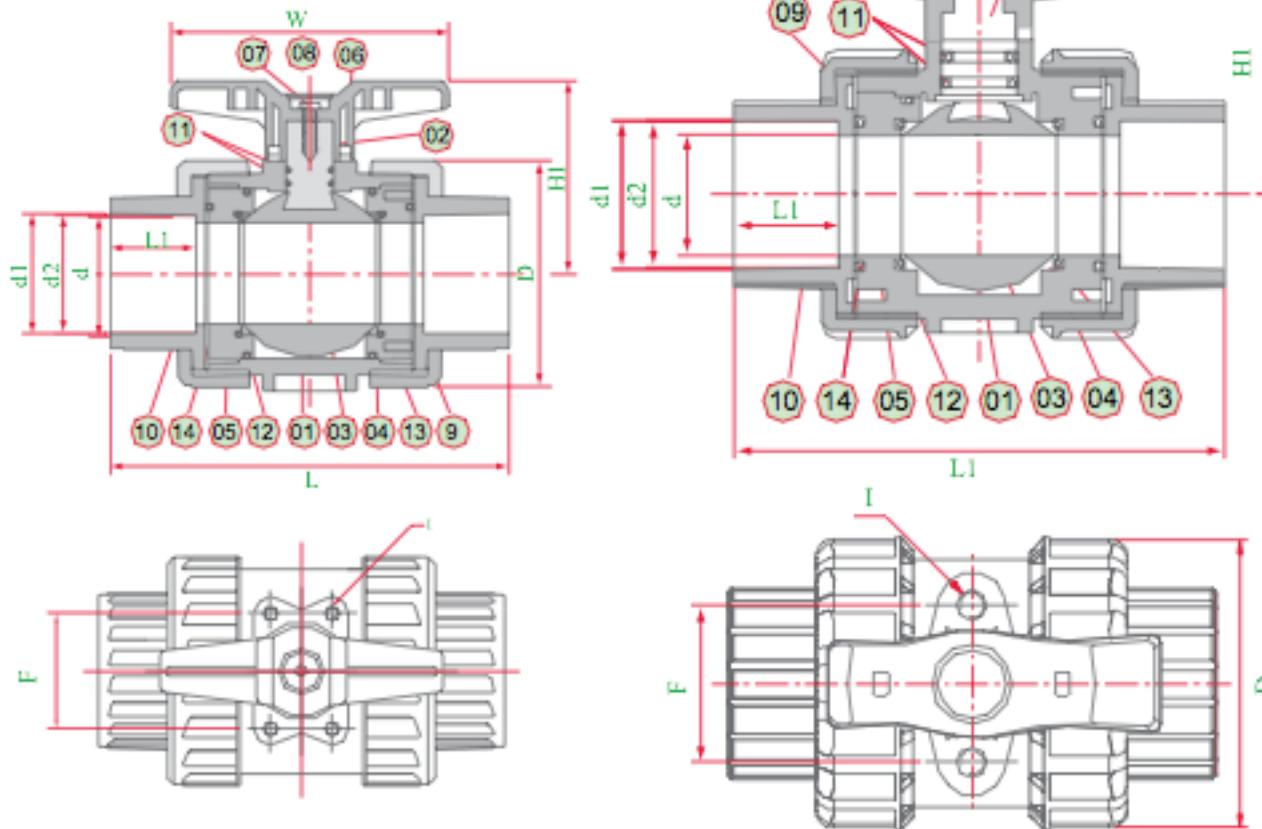
- Rated at 200 PSI
- Full Port Design
- Reversible PTFE Seats
- Easy Maintenance
- Viton or EPDM Seals
- Easily Automated
- Double O-Ring Stem Seals
- Adjustable Seat Retainer

Options

- Stem Extensions
- Lockouts
- Spring Return Handle
- Pneumatic Actuators
- Electric Actuators
- 2" Square Operating Nuts
- Socket or Threaded Connectors
- Suitable for ASTM, DIN, JIS Systems

Technical Information

SIZE: 1/2" ~ 2"
JOINT END: THREADED (PT,NPT,BSPF)
 SOCKET (ASTM,DIN,JIS)
WORKING PRESSURE: 200 PSI



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

SIZE: 2 1/2" ~ 4"
JOINT END: THREADED (PT,NPT,BSPF)
 SOCKET (ASTM,DIN,JIS)
WORKING PRESSURE : 200 PSI

PART	NOMINAL SIZE	SOCKET, THREAD TYPE		UNIT OF MEASURE: MM											
		ND	DN	D	d1	d1	d1	d2	d2	d2	L	L1	W	F	H1
60017	1/2"	DN 15	53	21.54	20.30	22.30	21.23	19.90	21.78	104	23	66	31	49	M5
60018	3/4"	DN 20	61	26.87	25.30	26.30	26.57	24.90	25.70	115	26	79	33	60	M6
60019	1"	DN 25	71	33.66	32.30	32.33	33.27	31.90	31.67	131	30	87	40	68	M6
60020	1 1/4"	DN 32	83	42.42	40.30	38.43	42.04	39.80	37.57	147	32	97	52	76	M8
60021	1 1/2"	DN 40	96	48.56	50.30	48.46	48.10	49.80	47.54	164	35	109	52	85	M8
60022	2"	DN 50	116	60.63	63.30	60.56	60.17	62.80	59.44	210	40	132	70	97	M8
60023	2 1/2"	DN 65	146	73.38	75.30	76.60	72.85	74.80	75.87	265	49	205	83.6	133	M10
60024	3"	DN 80	162	89.31	90.40	89.60	88.70	89.80	88.83	290	63	205	83.6	144	M10
60025	4"	DN 100	206	114.76	110.40	114.70	114.07	109.80	113.98	366	87	250	121	170	M10

SELECTION CHART				
SIZE	MATERIAL	END CONN.	SEALS	PRESSURE RATING
1/2"~2"	CPVC	Socket or Threaded	Viton or EPDM	200 PSI @ 70F Non-Shock
1/2"~4"	PVC or CPVC	Socket, Threaded or Flanged		
1/2"~2"	PP	Socket or Threaded		

CV FACTORS			
SIZE	FACTOR	SIZE	FACTOR
1/4"	-	1 1/2"	90.0
3/8"	-	2"	140.0
1/2"	8.0	2 1/2"	330.0
3/4"	15.0	3"	480.0
1"	29.0	4"	600.0
1 1/4"	75.0	6"	-

Pressure Loss Calculation Formula

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

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

