

ISOLATION VALVES

True Union Ball Check Valves - SHARKFELLOW

SECTION



Prevention of Backflow

Hydroseal Canada's **SHARKFELLOW** True Union Ball Check Valves prevent reversal of flow in tubing systems. They are ideal where backflow could potentially cause damage to pumps, filters, or process equipment.

Service-free Operation

Hydroseal Canada's **SHARKFELLOW** True Union Ball Check Valves operate without the need for any adjustments or settings. Line pressure moves the solid plastic ball off the elastomer seat, opening the valve. When the inlet flow stops, back pressure moves the ball back onto the seat – stopping the flow.

Features

- Rated at 200 PSI
- Full Port Design
- True Union Functionality
- Suitable for Vertical and Horizontal Installations
- 3 & 4" Cone Type Design
- Suitable for ASTM, DIN, JIS and CNS systems
- NSF Compliant

True Union Functionality

These valves feature a true union design. This allows for easy removal from a tubing system without breaking down tubing connections. Just unscrew the two assembly nuts and lift the valve body out of the system.

Corrosion-free

Because of their all-plastic construction, these valves will never jam or stick as a result of rust or corrosion. Also they will not contaminate sensitive fluids that come into contact with them.

Options

- Foot Valve Screens
- Socket or Threaded Connectors
- Spring for Horizontal Installation
- PVC, CPVC, PP and PVDF
- EPDM, Viton or Nitrile O-Rings



*screen

SIZE: 1/2" - 2 1/2"

JOINT END:

SOCKET - ASTM, DIN, JIS
THREAD - NPT, BSPT

WORKING PRESSURE:

200 PSI

SIZE: 3" - 4" (CONE TYPE)

JOINT END:

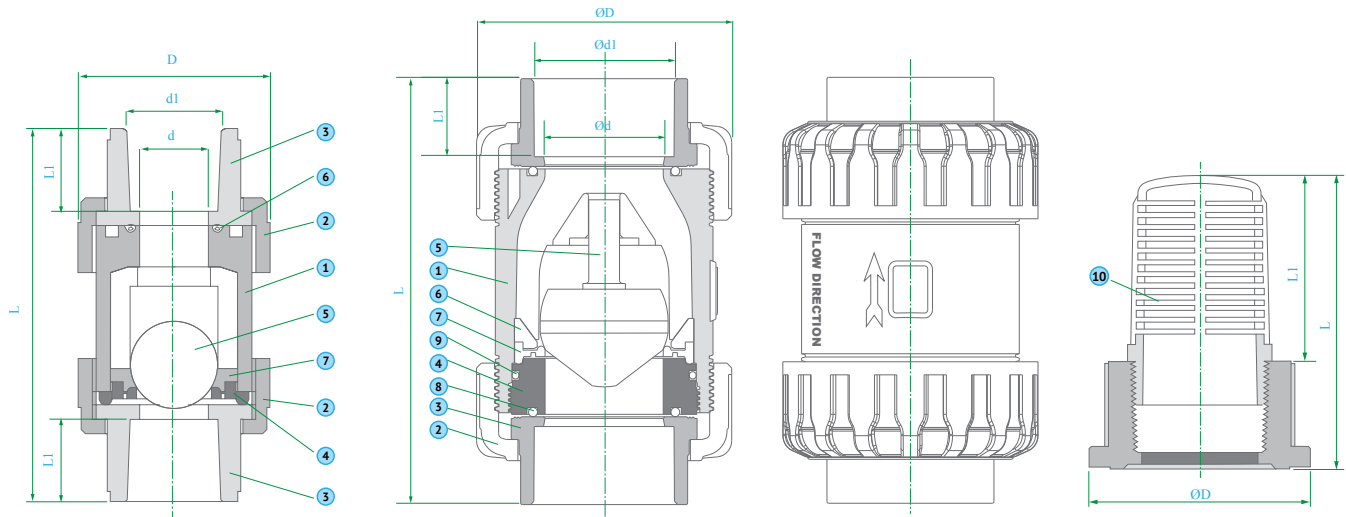
SOCKET - ASTM, DIN, JIS
THREAD - NPT, BSPT

WORKING PRESSURE:

200 PSI

CONSTRUCTION			
NO	PARTS	PCS	MATERIALS
1	BODY	1	PVC, CPVC, PVDF
2	UNION NUT	1	PVC, CPVC, PVDF
3	UNION END	1	PVC, CPVC, PVDF
4	GLAND	1	PVC, CPVC, PVDF
5	BALL/CONE	1	PVC, CPVC, PVDF

CONSTRUCTION			
NO	PARTS	PCS	MATERIALS
6	O-RING	1	EPDM, VITON
7	SEAT	1	EPDM, VITON
8	O-RING	2	EPDM, VITON
9	O-RING	2	EPDM, VITON
10	SCREEN	1	PVC, CPVC, PVDF



PART	NOMINAL SIZE	SOCKET, THREAD TYPE		ASTM			DIN		JIS		UNIT OF MEASURE: MM	
		DN	d	d1	L1	d1	L1	d1	L1	L	D	
SFES.0050	1/2"	DN 15	14.0	21.34	22.6	20.0	17.0	22.0	22.6	125.0	56.0	
SFES.0075	3/4"	DN 20	18.0	26.67	25.5	25.0	19.5	26.0	25.5	125.0	56.0	
SFES.0100	1"	DN 25	24.0	33.4	28.6	32.0	23.0	32.0	28.6	141.0	66.0	
SFES.0125	1 1/4"	DN 32	34.0	42.16	31.9	40.0	27.0	38.0	31.9	170.0	98.0	
SFES.0150	1 1/2"	DN 40	39.0	48.26	35.1	50.0	32.0	48.0	35.1	170.0	98.0	
SFES.0200	2"	DN 50	50.0	60.32	38.2	63.0	37.5	60.0	38.2	204.0	120.0	
SFES.0250	2 1/2"	DN 65	50.0	73.02	41.4	75.0	41.5	76.0	41.4	210.0	120.0	
SFES.0300	3"	DN 80	75.0	88.9	48.0	90.0	51.0	89.0	51.0	262.0	162.0	
SFES.0400	4"	DN 100	100.0	114.3	57.5	110.0	61.0	114.0	61.0	315.0	220.0	

PART	NOMINAL SIZE	FOOT VALVE SCREEN		
		D	L	L1
SFF.0050	1/2"	42.0	80.0	50.0
SFF.0075	3/4"	42.0	80.0	50.0
SFF.0100	1"	52.5	94.0	60.0
SFF.0125	1 1/4"	75.0	103.0	63.0
SFF.0150	1 1/2"	75.0	117.0	77.0

PART	NOMINAL SIZE	FOOT VALVE SCREEN		
		D	L	L1
SFF.0200	2"	95.0	123.0	78.0
SFF.0250	2 1/2"	-	-	-
SFF.0300	3"	-	-	-
SFF.0400	4"	-	-	-
SFF.0600	6"	-	-	-

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"	-
3/4"	15	3"	248
1"	29	4"	286
1 1/4"	75	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

