



### Prevention of Backflow

Hydroseal Canada's orca Swing Check Valves prevent reversal of flow in larger sized piping systems using swing action. They are ideal for trouble-free backflow prevention in any application. Swing check valves can be used in both horizontal and vertical installations.

# **Trouble-free Operation**

Hydroseal Canada Swing Check Valves operate especially well with viscous slurries that may adversely affect other types of check valves. The default position of the valve is closed - line pressure moves the solid wafer seal off its EPDM gasket allowing slurry through the body of the valve. When the inlet flow stops, swing action moves the seal back onto the seat – stopping the flow.

# Cost-effective Simplicity

These valves feature a socket, threaded or flanged design. This allows for easy installation in piping systems with minimal cost. Adequate housing and simple operation ensures years of trouble free operation without any need for maintenance.

#### 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.

## Features

- Rated at 200 PSI
- Full Port Design to 8"
- Only 3 PSI Backflow Required
- EPDM Seals
- Suitable for Vertical and Horizontal Use

## **Options**

- Socket or Threaded Pipe Connectors
- Flanged Option Available
- Suitable for ASTM, DIN, JIS systems

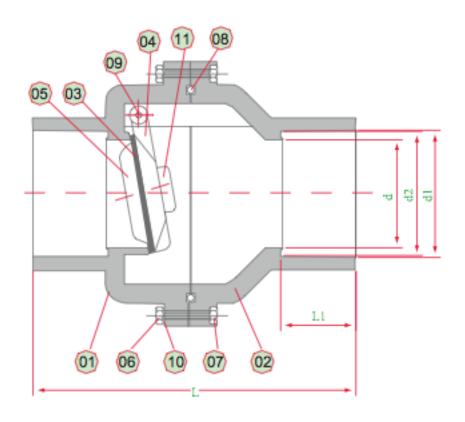
# **Technical Information**

SIZE: 2 1/2" ~ 6"(8" FLANGED TYPE)

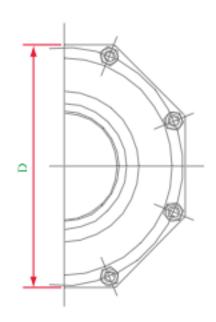
JOINT END: THREADED (PT.NPT.BSPF)

SOCKET (ASTM.DIN.JIS)

WORKING PRESSURE: 150 PSI



CONSTRUCTION					
NO.	PARTS	PCS	MATERIALS		
1	ENTRANCE BODY	1	PVC		
2	EXIT BODY	1	PVC		
3	SHEET GASKET	1	EPDM		
4	DISK	1	PVC		
5	SHEET GASKET HOLDER	1	PVC		
6	NUT	8	SUS304		
7	BOLT	8	SUS304		
8	O-RING	1	EPDM		
9	PIN	1	SUS304		
10	WASHER	8	SUS304		
11	COUNTER WEIGHT	1	PVC		



2427	NOMINAL SIZE	SOCKET, THREAD TYPE		ASTM	M DIN JIS ASTN		ASTM	M DIN	JIS	UNIT OF MEASURE: MM		
PART		DN	d	d1	d1	d1	d2	d2	d2	L	Li	D
60077	2 1/2"	DN65	63.00	73.38	75.30	76.60	72.85	75.10	75.10	212.00	49.50	168.00
60078	3"	DN80	75.00	89.31	90.10	89.60	88.70	89.30	89.30	228.00	53.00	174.00
60079	4"	DN100	100.00	114.76	110.40	114.70	114.07	110.10	110.10	270.00	61.00	208.00
60082	6"	DN150	148.00	168.83	160.00	166.20	168.00	160.10	160.10	366.00	82.00	276.00
60084	8"	DN200	-	-	-	-	-	-	-	-	-	- )

SELECTION CHART						
SIZE	MATERIAL	END CONN.	SEALS	PRESSURE RATING		
-	-	-		150 PSI		
2 1/2"~ 6"	PVC	Socket or Threaded	EPDM	@ 70F		
8"	PVC	Flanged		NON-SHOCK		

CV FACTORS						
SIZE	FACTOR	SIZE	FACTOR			
1/4"	-	2"	-			
1/2"	-	2 1/2"	330.0			
3/4"	-	3"	480.0			
1"	-	4"	600.0			
1 1/4"	-	6"	800.0			
1 1/2"	-	8"	1000.0			

Pressure Loss
Calculation Formula  $\Delta P = \left[\frac{Q}{Cv}\right]^2$   $\Delta P = \text{Pressure Drop}$  Q = Flow in GPM

Cv = Flow Coefficient

