

# ISOLATION VALVES

Spring Check Valves - **minuteman**

SECTION

5



## Prevention of Backflow

Hydroseal Canada's **minuteman** Spring Check Valves prevent reversal of flow in piping systems using spring action. They are ideal for backflow prevention in certain applications such as swimming pools and irrigation. Spring action check valves can be used in both horizontal and vertical installations.

## Trouble-free Operation

Hydroseal Canada Spring Check Valves operate especially well where large particles in water may adversely affect other types of valves. The default position of the valve is closed - line pressure moves the solid plastic seal off its EPDM gasket allowing water through the body of the valve. When the inlet flow stops, spring action moves the seal back onto the seat - effectively stopping the flow.

## Cost-effective Functionality

These valves feature a single union design. This allows for easy removal from a piping system without breaking down piping connections. Just unscrew the union nut for easy installations.

## Features

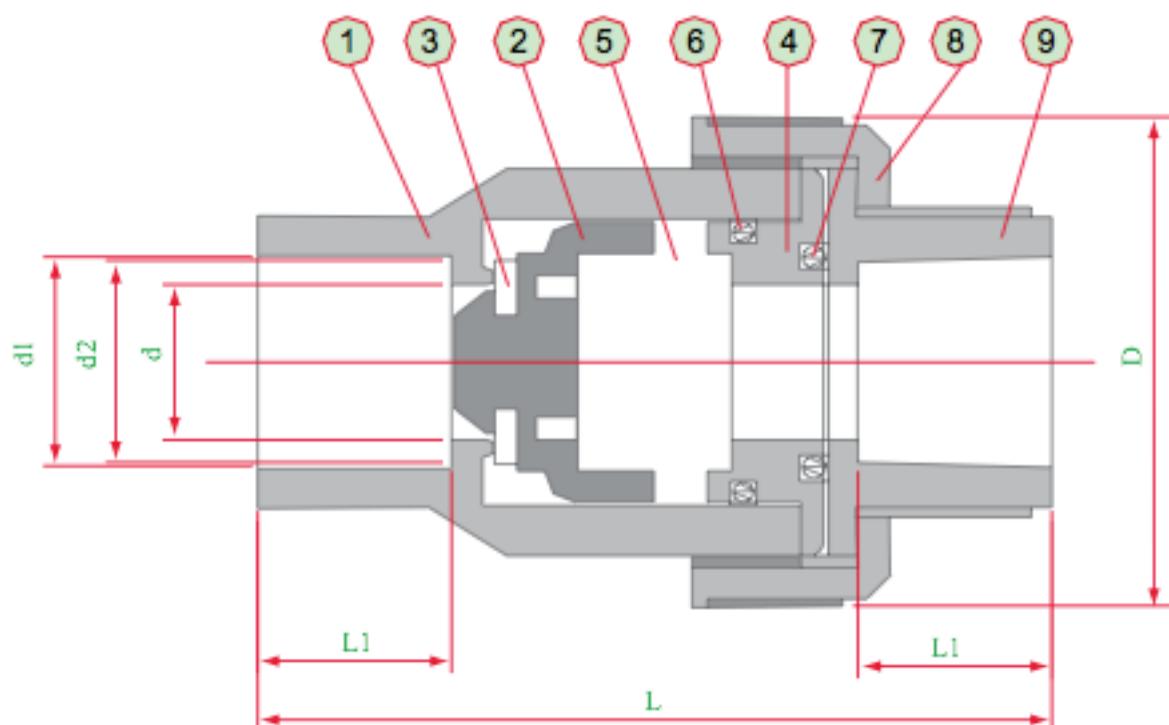
- Rated at 150 PSI
- Full Port Design to 2"
- Single Union Design
- Space Saving Design
- EPDM Seals
- Suitable for Vertical and Horizontal USE

## Options

- Socket or Threaded Pipe Connectors
- Suitable for ASTM, DIN, JIS system

# Technical Information

CONSTRUCTION			
NO.	PARTS	PCS	MATERIALS
1	BODY	1	PVC
2	SPIGOT	1	PVC
3	SEAT	2	EPDM
4	SPACER	1	PVC
5	SPRING	1	SUS304
6	SPACER SEAL	1	EPDM
7	END SEAL	1	EPDM
8	UNION NUT	1	PVC
9	UNION SOCKET	1	PVC



**SIZE:** 1/2" ~ 2"  
**JOINT END:** THREADED (PT.NPT.BSPF)  
 SOCKET (ASTM.DIN.JIS)  
**WORKING PRESSURE:** 150 PSI

PART	NOMINAL SIZE	SOCKET, THREAD TYPE	ASTM	DIN	JIS	ASTM	DIN	JIS	UNIT OF MEASURE: MM			
		DN	d	d1	d1	d1	d2	d2	d2	L	L1	D
60130	1/2"	DN 15	15.4	21.54	20.30	22.30	21.23	19.90	21.78	92.00	22.00	53.50
60131	3/4"	DN 20	20.0	26.87	25.30	26.30	26.57	24.90	25.70	105.0	25.00	61.50
60132	1"	DN 25	25.1	33.66	32.30	32.33	33.27	31.90	31.67	121.00	30.00	69.50
60133	1 1/4"	DN 32	32.0	42.42	40.30	38.43	42.04	39.85	35.57	136.00	30.00	82.50
60134	1 1/2"	DN 40	40.0	48.56	50.30	48.46	48.11	49.85	47.54	150.00	35.50	93.50
60135	2"	DN 50	49.4	60.63	63.30	60.56	60.17	62.85	59.44	178.00	44.00	114.00

SELECTION CHART				
SIZE	MATERIAL	END CONN.	SEALS	PRESSURE RATING
-	-	-	EPDM	150 PSI @ 70F Non-Shock
1/2" ~ 2"	PVC	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"	-
3/4"	15.0	3"	-
1"	29.0	4"	-
1 1/4"	75.0	6"	-

**Pressure Loss Calculation Formula**

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

$\Delta P$  = Pressure Drop  
 $Q$  = Flow in GPM  
 $Cv$  = Flow Coefficient

