



Prevention of Backflow

Hydrosel Canada's **MINUTEMAN** Spring Check Valves prevent reversal of flow in tubing 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

Hydrosel Canada's **MINUTEMAN** 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 tubing system without breaking down tubing connections. Just unscrew the union nut for easy installations.

Features

- Rated at 150 PSI
- Full Port Design
- Space Saving Design
- Suitable for Vertical and Horizontal Installations
- Suitable for ASTM, DIN, JIS and CNS systems
- NSF Compliant

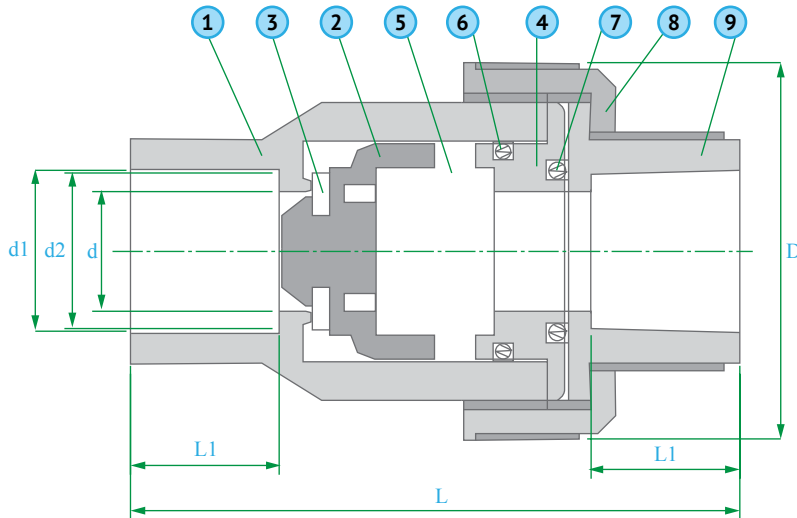
Options

- Socket or Threaded Connectors
- 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:
150 PSI



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

PART	NOMINAL SIZE	SOCKET, THREAD TYPE	ASTM			DIN			JIS			UNIT OF MEASURE: MM		
			DN	d	d1	d1	d1	d2	d2	d2	L	L1	D	
MMES.0050	1/2"	DN 15	15.4	21.5	20.3	22.3	21.2	19.90	21.8	92.0	22.0	53.5		
MMES.0075	3/4"	DN 20	20.0	26.9	25.3	26.3	26.6	24.90	25.7	105.0	25.0	61.5		
MMES.0100	1"	DN 25	25.1	33.7	32.3	32.3	33.3	31.90	31.7	121.0	30.0	69.5		
MMES.0125	1 1/4"	DN 32	32.0	42.4	40.3	38.4	42.0	39.80	37.6	136.0	30.0	82.5		
MMES.0150	1 1/2"	DN 40	40.0	48.6	50.3	48.5	48.1	49.80	47.5	150.0	35.5	93.5		
MMES.0200	2"	DN 50	49.0	60.6	63.3	60.6	60.2	62.80	59.4	178.0	44.0	114.0		

SELECTION CHART				
SIZE	MATERIAL	CONNECTION	SEALS	PRESSURE RATING
1/2" ~ 2"	PVC CPVC PP	SOCKET or THREAD	EPDM or VITON	150 PSI @ 73F Non-Shock

CV FACTORS			
SIZE	FACTOR	SIZE	FACTOR
1/2"	8	2"	50
3/4"	8	2 1/2"	-
1"	16	3"	-
1 1/4"	30	4"	-
1 1/2"	35	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

