



SLC Series Spring-Loaded Y-Check Valves

1/2" TO 4" PVC

KEY FEATURES

- PVC
- Full Flow Design
- Closes with No Back Pressure
- Adjustable – Opens From 2 to 15 PSI
- Easy Maintenance
- Opens in Any Position

OPTIONS

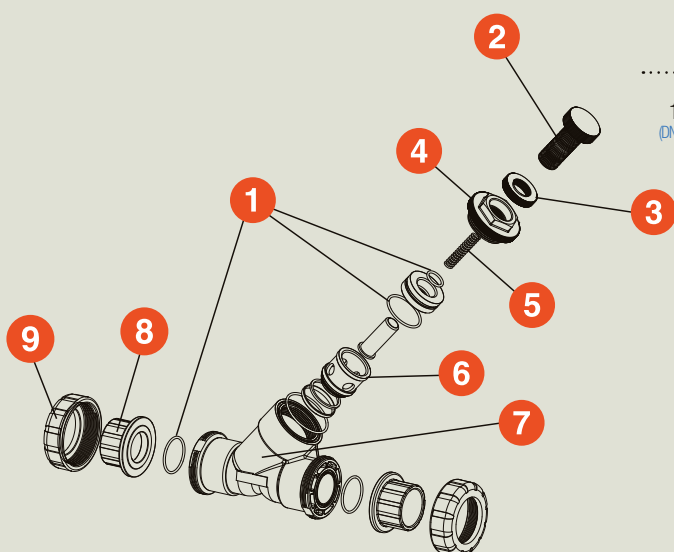
- True Union End Connections

MATERIALS

- PVC Cell Class 12454 per ASTM D1784
- FPM and EPDM O-Ring Seals

TECHNICAL INFORMATION

EXPLODED VIEW



SELECTION CHART

SIZE	MATERIAL	END CONNECTION	SEALS	PRESSURE RATING
1/2" – 4" (DN15 – DN100)	PVC	Socket, Threaded or True Union	FPM or EPDM	150 PSI @ 70°F Non-Shock

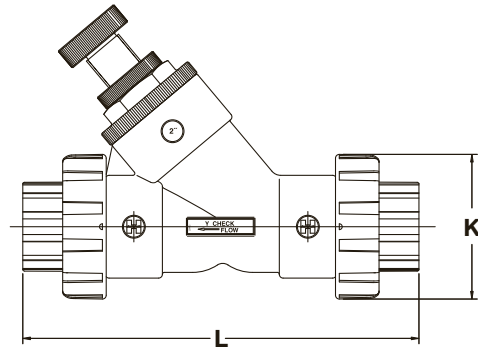
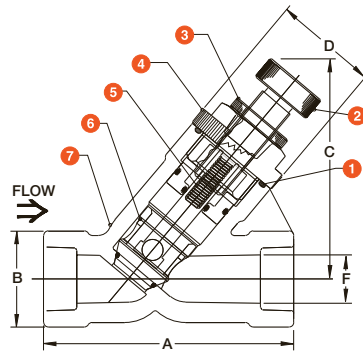
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TECHNICAL INFORMATION, CONTINUED

PARTS LIST

1. O-Ring Seal
2. Adjustment Screw
3. Lock Nut
4. Hex Cap
5. Stainless Steel Spring
6. Cartridge Assembly
7. Body
8. End Connector (True Union)
9. Assembly Nut (True Union)

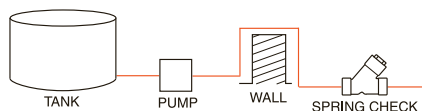


DIMENSIONS

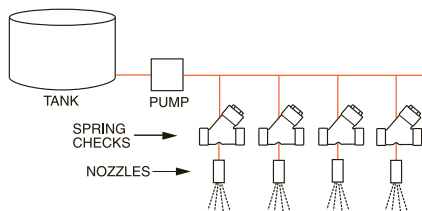
SIZE in/DN	A in/mm	B in/mm	C in/mm	D in/mm	F in/mm	K in/mm	L in/mm	WEIGHT lbs/kg SOC/THD
1/2/15	6.19/158	2.00/51	4.58/116	2.13/54	1.00/25	2.25/57	6.64/169	0.88/0.40
3/4/20	6.19/158	2.00/51	4.58/116	2.13/54	1.00/25	2.63/67	7.42/188	0.88/0.40
1/25	5.19/132	2.00/51	4.58/116	2.13/54	1.00/25	3.00/76	8.97/228	0.88/0.40
1-1/2/40	8.63/219	3.38/86	7.28/185	3.75/95	2.00/51	4.75/121	12.07/307	3.00/1.36
2/50	7.63/194	3.38/86	7.28/185	3.75/95	2.00/51	4.75/121	13.05/331	3.00/1.36
3/80	10.31/262	4.69/119	8.88/226	5.25/133	2.94/75	6.40/163	16.77/426	7.50/3.40
4/100	12.75/324	5.75/146	10.08/256	6.00/152	3.81/97	8.56/217	21.23/539	9.50/4.31

Dimensions are subject to change without notice – consult factory for installation information

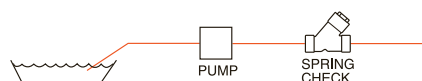
TYPICAL APPLICATIONS



PREVENT SIPHONING OF TANK WHEN PUMP SHUTS OFF



PREVENT LOSS OF PROCESS FLUID WHEN PROCESS FLOW IS STOPPED



MINIMIZE RISK OF WATER HAMMER RESULTING FROM STARTING PUMP IN AN OPEN LINE

Cv VALUES

SIZE in/DN	Cv VALUES	SIZE in/DN	Cv VALUES
1/2/15	0.8	2/50	65.0
3/4/20	3.0	3/80	110.0
1/25	9.0	4/100	240.0
1-1/2/40	45.0		

PRESSURE LOSS CALCULATION FORMULA

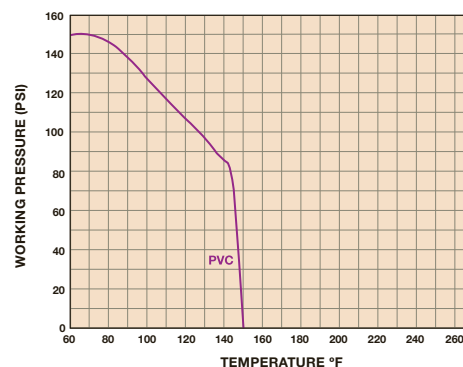
$$\Delta P = \left[\frac{Q}{C_v} \right]^2$$

ΔP = Pressure Drop

Q = Flow in GPM

C_v = Flow Coefficient

OPERATING TEMPERATURE/PRESSURE



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