YC Series Y-Check Valves

1/2″ TO 4″ PVC AND CPVC

KEY FEATURES

- PVC and CPVC
- Full Flow Design
- Minimum Pressure Drop
- PVC or CPVC Coil to Guide Piston to a Positive Seat
- Minimal Back Pressure Required to Seat Piston

OPTIONS

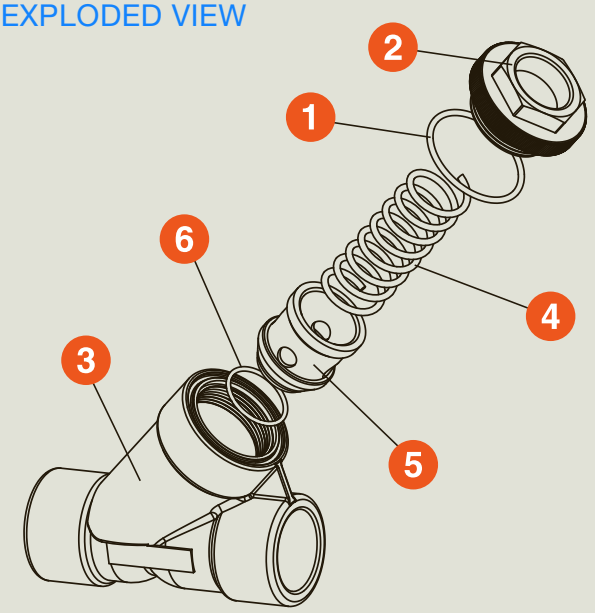
- Drilled Cap for Easy Drainage
- True Union End Connections

MATERIALS

- PVC Cell Class 12454 per ASTM D1784
- CPVC Cell Class 23447 per ASTM D1784
- FPM and EPDM O-Ring Seals

TECHNICAL INFORMATION

EXPLODED VIEW



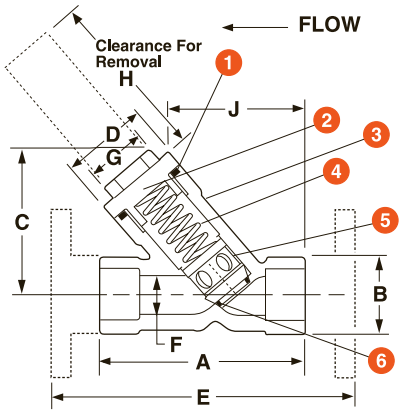
SELECTION CHART

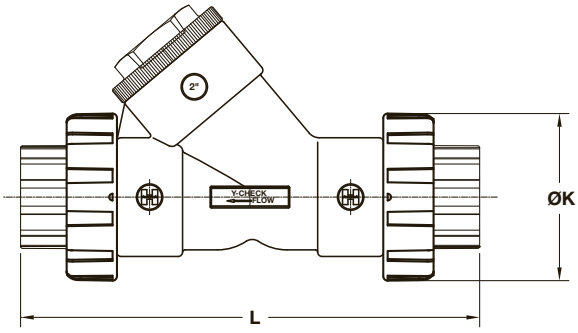
SIZE	MATERIAL	END CONNECTION	SEALS	PRESSURE RATING
1/2″ – 4″ (DN15 – DN100)	PVC or CPVC	Socket, Threaded or True Union	FPM or EPDM	150 PSI @ 70°F Non-Shock

TECHNICAL INFORMATION, *CONTINUED*

PARTS LIST

1. O-Ring Seal
2. Hex Cap
3. Body
4. Coil
5. Disc
6. O-Ring Disc Seal





DIMENSIONS

SIZE in/DN	A in/mm	B in/mm	C in/mm	D in/mm	E in/mm	F in/mm	G in/mm	H in/mm	J in/mm	K in/mm	L in/mm	WEIGHT lbs/kg SOC/THD	WEIGHT lbs/kg FLANGED
1/2/15	3.38/86	1.38/35	2.25/57	1.50/38	N/A	0.56/14	1.00/25	1.50/38	2.50/64	2.25/57	6.64/169	0.25/0.11	N/A
3/4/20	4.18/106	1.69/43	2.88/73	2.00/51	N/A	0.81/21	1.25/32	1.75/44	3.00/76	2.63/67	7.42/188	0.63/0.29	N/A
1/25	5.19/132	2.00/51	3.63/92	2.16/55	N/A	1.00/25	1.50/38	2.25/57	3.32/84	3.00/76	8.97/228	0.88/0.40	N/A
1-1/4/32	6.63/168	2.63/67	4.50/114	2.94/75	N/A	1.25/32	2.00/51	3.00/76	4.45/113	4.75/121	13.01/330	1.75/0.79	N/A
1-1/2/40	6.63/168	2.63/67	4.50/114	2.94/75	N/A	1.56/40	2.00/51	3.00/76	4.45/113	4.75/121	12.07/307	1.63/0.74	N/A
2/50	7.63/194	3.38/86	5.38/137	3.75/95	11.00/279	2.00/51	2.38/60	3.25/83	4.88/124	4.75/121	13.05/331	3.00/1.36	5.00/2.27
2-1/2/65	10.31/262	4.69/119	7.25/184	5.50/140	N/A	2.90/74	3.50/89	4.25/108	6.54/166	6.40/163	16.77/426	7.75/3.52	N/A
3/80	10.31/262	4.69/119	7.25/184	5.50/140	14.37/365	2.90/74	3.50/89	4.25/108	6.54/166	6.40/163	16.77/426	7.50/3.40	12.50/5.67
4/100	12.81/325	5.75/146	8.88/226	6.18/157	17.73/450	3.78/96	4.25/108	5.00/127	8.58/218	8.56/217	21.23/539	9.50/4.30	17.50/7.94

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

Cv VALUES

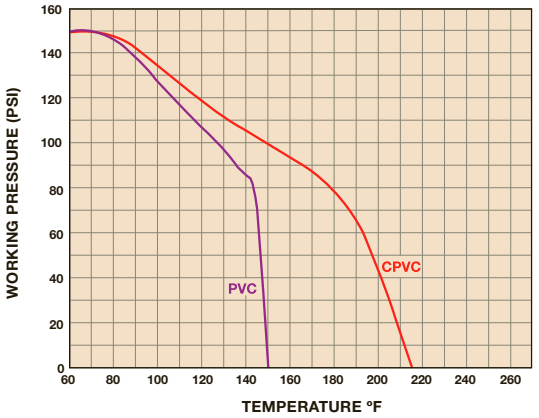
SIZE in/DN	Cv VALUES	SIZE in/DN	Cv VALUES
1/2/15	0.8	2/50	65.0
3/4/20	3.0	2-1/2/65	75.0
1/25	9.0	3/80	110.0
1-1/4/32	26.0	4/100	240.0
1-1/2/40	45.0		

PRESSURE LOSS CALCULATION FORMULA

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

ΔP = Pressure Drop
Q = Flow in GPM
Cv = Flow Coefficient

OPERATING TEMPERATURE/PRESSURE



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