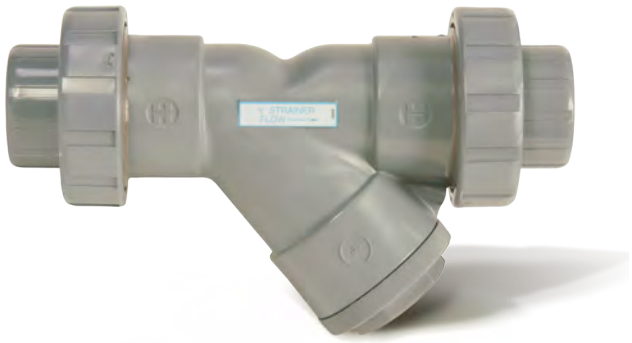


YS Series Y-Strainers

1/2″, 3/4″, 1″, 1-1/2″ AND 2″ PVC, CPVC AND CLEAR PVC, 1-1/4″ PVC AND CLEAR PVC, 2-1/2″ PVC AND 3″-4″ PVC AND CPVC

KEY FEATURES

- PVC, CPVC and Clear PVC
- Horizontal or Vertical Installation
- FPM O-Ring Seals
- 2:1 Open Area Ratio
- Hex Cap for Easy Access to Screen
- Standard Screen has 1/32″ Perforation

OPTIONS

- Stainless Steel Perforated or Mesh Strainer Screens Available in Various Sizes
- True Union Connection

MATERIALS

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

TECHNICAL INFORMATION

BASKET OPTIONS

PERFORATION SIZES	MESH SIZES	BASKET MATERIAL
1/32″	20	SSTL, Hastelloy, Monel and Titanium
1/16″	40	
1/8″	60	
5/32″	80	
3/16″	100	
1/4″	200	
3/8″	325	
1/32″	N/A	PVC, CPVC and PP
1/16″		
1/8″		
3/16″		

SELECTION CHART

SIZE	MATERIAL	END CONNECTION	SEALS	PRESSURE RATING
1/2″ – 1″ (DN15 – DN25)	PVC, CPVC or Clear PVC	Socket, Threaded or True Union	FPM and EPDM	150 PSI @ 70°F Non-Shock
1 – 1/4″ (DN32)	PVC and Clear PVC			
1 – 1/2″ (DN40)	PVC, CPVC or Clear PVC			
2″ (DN50)				
2 – 1/2″ (DN65)	PVC	Socket, Threaded, Flanged or True Union		
3 – 4″ (DN80-DN100)	PVC and CPVC			

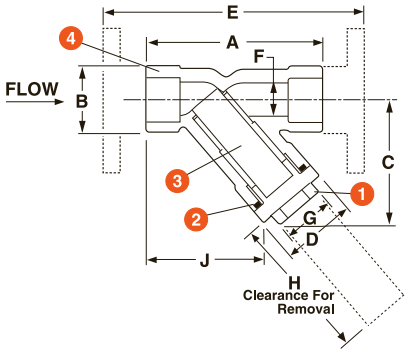
YS Series Y-Strainers

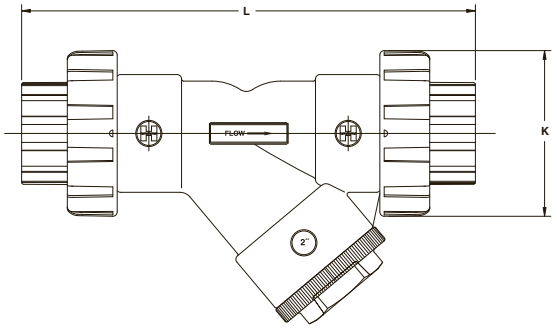
1/2″, 3/4″, 1″, 1-1/2″ AND 2″ PVC, CPVC AND CLEAR PVC, 1-1/4″ PVC AND CLEAR PVC, 2-1/2″ PVC AND 3″-4″ PVC AND CPVC

TECHNICAL INFORMATION, *CONTINUED*

PARTS LIST

1. Cap
2. O-Ring Seal
3. Screen
4. Body





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	.56/14	1.00/25	2.13/54	2.50/64	2.25/57	6.64/167	.25/.11	N/A
3/4/20	4.18/106	1.69/43	2.88/73	2.00/51	N/A	.81/21	1.25/ 32	2.75/70	3.00/76	2.63/67	7.42/188	.63/.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	3.30/84	3.32/84	3.00/76	8.97/228	.88/.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	4.50/114	4.45/113	4.75/121	13.01/330	1.75/.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	4.50/114	4.45/113	4.75/121	12.07/307	1.63/.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	5.06/129	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	5.25/133	N/A	2.90/74	3.50/89	6.60/168	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	6.60/168	6.54/166	6.40/163	16.77/426	7.50/3.40	12.25/5.56
4/100	12.81/325	5.75/146	8.88/226	6.18 /157	17.73/450	3.78/96	4.25/108	8.00/203	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	4.0	2/50	28
3/4/20	6.8	2-1/2/65	40
1/25	9.0	3/80	65
1-1/4/32	12	4/100	100
1-1/2/40	28		

* With 1/32″ plastic screen

PRESSURE LOSS CALCULATION FORMULA

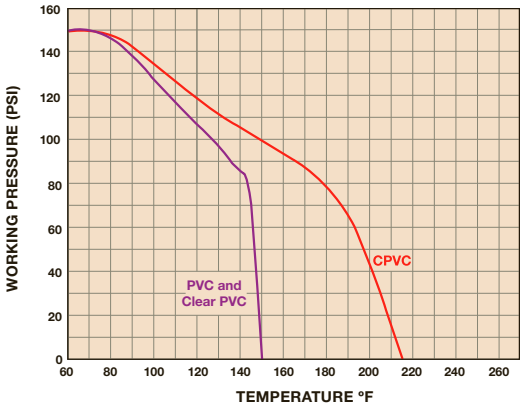
$$\Delta P = \left[\frac{Q}{Cv}\right]^2$$

ΔP = Pressure Drop

Q = Flow in GPM

Cv = Flow Coefficient

OPERATING TEMPERATURE/PRESSURE



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NEW PRODUCT PREVIEW

YS Series Y-Strainers

1/2", 3/4" AND 1" PVDF

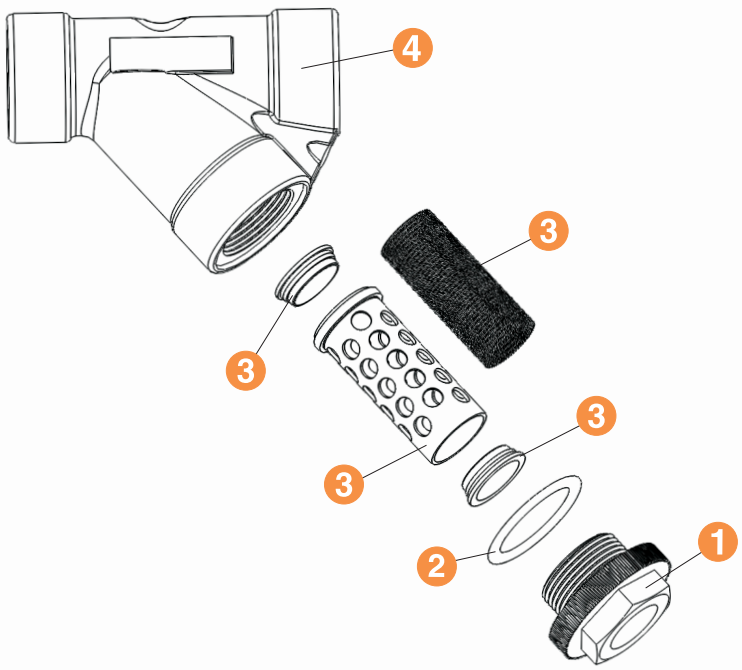
KEY FEATURES

- PVDF
- Horizontal or Vertical Installation
- FPM O-Ring Seals
- Hex Cap for Easy Access to Screen
- Standard Screen has 3/32″ Perforation

MATERIALS

- Natural PVDF per ASTM D3222 Type 1
- FPM O-Ring Seals

EXPLODED VIEW



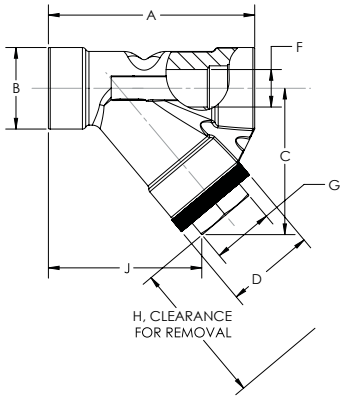
YS Series Y-Strainers

1/2", 3/4" AND 1" PVDF

TECHNICAL INFORMATION, *CONTINUED*

PARTS LIST

1. Cap
2. O-Ring Seal
3. Cartridge
4. Body



DIMENSIONS

Size in / DN	A in / mm	B in / mm	C in / mm	D in / mm	F in / mm	G in / mm	H in / mm	J in / mm	WEIGHT lbs / kg Soc / Thd
1/2 / 15	3.30 / 84	1.50 / 38	2.30 / 58	1.40 / 36	0.50 / 13	1.00 / 25	2.20 / 56	2.80 / 71	0.33 / 0.15
3/4 / 20	4.1 / 104	1.90 / 48	3.00 / 76	1.90 / 49	0.75 / 19	1.25 / 32	2.70 / 69	3.20 / 81	0.82 / 0.37
1 / 25	5.0 / 127	2.00 / 51	3.60 / 91	2.10 / 53	1.00 / 25	1.50 / 38	3.50 / 89	3.90 / 99	1.14 / 0.52

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

BASKET OPTIONS

Perforation Sizes	Basket Material
1/16″ 3/32″	PTFE / PVDF

SELECTION CHART

Size	Material	End Connection	Seals	Pressure Rating
1/2″ – 1″ (DN15 – DN25)	PVDF	Socket or Threaded	FPM	150 PSI @ 70°F Non-Shock

Cv VALUES*

Size in/DN	Cv Values
1/2/15	4.0
3/4/20	6.8
1/25	9.0

pressure loss calculation formula

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

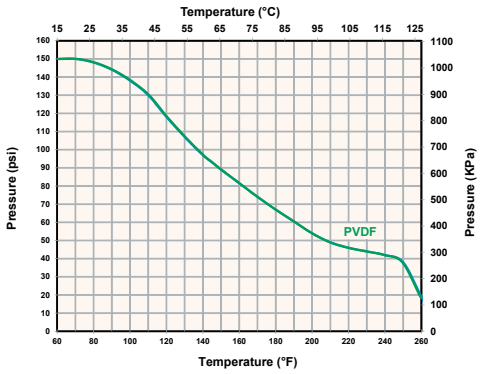
ΔP = Pressure Drop

Q = Flow in GPM

Cv = Flow Coefficient

* With standard 3/32" perforation.

OPERATING TEMPERATURE/PRESSURE



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