

# **PVC & CPVC Y-STRAINERS**

YS-2-0406

# **In-Line Protection of Process Equipment**



Spears® Y-type sediment strainers are the perfect choice for in-line removal of suspended solids, sediment, dirt and debris. Convenient removable strainer allows quick cleaning with an assortment of screen mesh sizes to meet a variety of application needs. Spears® Y-Strainers are produced from PVC Gray, PVC Clear for fluid visibility and CPVC Gray for higher temperatures. Available with socket, Special Reinforced (SR) threads, flanged, or True Union socket and SR threaded end connectors in IPS sizes 1/2" - 4".

#### **In-Line Horizontal or Vertical Installation**

Line fluid flow is diverted through the interior of the strainer to fully entrap sediment, dirt and debris in either horizontal or vertical installation.

### **Rugged PVC or CPVC Construction**

Computer engineered design places strength where it's needed most. PVC or higher heat handling CPVC materials provide exceptional chemical and corrosion resistance.

#### **Special PVC Clear-Body Option**

Allows visibility of internal flow and easy monitoring of sediment accumulation in the strainer.

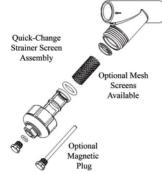
#### **Convenient Removable Strainer Basket**

Strainer easily unscrews from Y-body for quick cleaning of strainer screen.

#### **Sample Engineering Specification**

All sediment strainers shall be Y-type constructed from PVC Type I, ASTM D 1784 Cell Classification 12454 or CPVC Type IV, or ASTM D 1784 Cell Classification 23447. All O-rings shall be EPDM or Viton®. All Y-strainers shall have replaceable PVC, CPVC or Type 316 stainless steel screens and O-ring sealed drain plugs with magnetic drain plug option. All threaded Y-Strainers shall have Special Reinforced (SR) threads. All Y-Strainers, sizes 1/2" - 2" shall be pressure rated to 150 psi, sizes 3" - 4" to 90 psi for water at 73°F, as manufactured by Spears® Manufacturing Company.

Viton<sup>®</sup> is a registered trademark of Dupont Dow Elastomers.



## **EPDM** or Viton® O-ring Options

Choice of high grade EPDM or Viton® O-rings allows application specific selection for optimum chemical resistance

#### **Full Service Pressure Rating**

Sizes 1/2"- 2" Pressure Rated to 150 psi @ 73°F Sizes 3" - 4" to 90 psi @ 73°F

#### **PVC, CPVC and Stainless Steel Strainer Screen Assortment Options**

Standard Y-Strainers are assembled with 1/32" perforation (20 Mesh) PVC screens for PVC Strainers and CPVC Screens for CPVC Strainers. Optional perforation sizes and 316 Stainless Steel Mesh Screens are available.

### **Standard or Optional**

#### **Magnetic Drain Plug for Quick Flushing**

Standard plug easily removes for quick flushing of strainer or installation of a bleed-off valve. Optional magnetic plug traps ferrous metal particles inside strainer.





Strainer Screen Mesh Options

Stock Y-Strainers are assembled with standard 1/32" (20 mesh) perforated PVC or CPVC Screens. Type 316 stainless steel screws are available. PVC and CPVC screens are perforated; stainless steel screens are wire mesh. Additional stainless steel mesh screen sizes can be custom ordered, down to 400 mesh.

/III		
Mesh	Sieve Opening Size (in.)	Perforation Designation (inch)
8 Mesh	0.094	3/32
12 Mesh	0.062	1/16
20 Mesh	0.033	1/32
30 Mesh	0.024	Use Mesh No.

Socket Y-Strainer Dimensions & Weights

Nominal Size		Dimensio	Approx. Wt. (Lbs.)					
	<b>A</b> ¹	Α	В	С	D	E	Socket	
							PVC	CPVC
1/2	5	3-1/16	1-9/16	3-3/8	2-9/16	1-5/8	.31	.33
3/4	5-3/4	3-11/16	2	4	3	2	.50	.53
1	6-7/8	4-7/16	2-1/2	4-3/4	3-5/8	2-1/4	.85	.90
1-1/4	8-5/32	5-5/16	3-1/16	5-9/16	4-1/4	2-13/16	1.21	1.28
1-1/2	9-1/8	6	3-9/16	6-5/16	4-7/8	3-3/16	1.66	1.76
2	11-3/4	7-5/8	4-1/2	7-1/2	6-3/16	3-1/2	2.96	3.10
3	15	9-11/16	6-9/16	10-5/16	7-5/8	5-1/8	5.34	5.64
4	19-11/16	12-1/2	8-5/8	13-1/8	9-7/8	6-9/16	9.97	10.45

SR Threaded Y-Strainer Dimensions & Weights

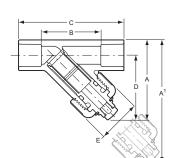
Nominal Size		Dimensio	Approx. Wt. (Lbs.)						
	<b>A</b> ¹	Α	В	С	D	E	SR Threaded		
							PVC	CPVC	
1/2	6-1/2	4-11/16	3-5/8	5-1/16	4	2-3/8	.31	.33	
3/4	7-5/8	5-7/16	4-3/8	5-13/16	4-9/16	2-3/8	.50	.53	
1	8-5/8	6-1/8	5-3/16	7	5-1/8	2-3/8	.85	.90	
1-1/4	11-1/8	7-3/4	6	7-15/16	6-1/2	3-1/2	1.21	1.28	
1-1/2	12-1/4	8-7/8	6-15/16	8-13/16	7-1/2	3-1/2	1.66	1.76	
2	14-1/16	10-3/16	8-1/8	10-1/8	8-1/2	3-1/2	2.96	3.10	
3	20	14-13/16	11	14-1/4	12-7/16	6-5/8	5.34	5.64	
4	25-13/16	18-1/2	14	14-3/4	15-5/8	7-15/16	9.97	10.45	

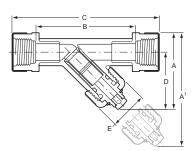
Flanged Y-Strainer Dimensions & Weights

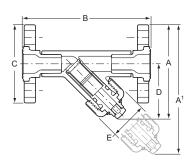
Nominal Size	ı	Approx. Wt. (Lbs.)						
	A¹		В	С	D	E	Flanged	
Oize	_ A	Α	Ь	C			PVC	CPVC
1/2	5-13/16	4-3/16	5-11/16	3-1/2	2-1/2	1-5/8	.82	.85
3/4	7-1/8	5	6-7/16	3-7/8	3-1/8	2	1.23	1.28
1	8-3/16	5-3/4	7-1/4	4-1/4	3-5/8	2-1/4	1.70	1.81
1-1/4	9-7/16	6-9/16	8-1/8	4-5/8	4-9/32	2-13/16	2.40	2.52
1-1/2	10-7/16	7-3/8	9-3/16	5	4-7/8	3-3/16	3.07	3.25
2	13-1/4	9-1/8	10-3/8	6	6-3/16	3-1/2	5.20	5.42
3	16-21/32	11-3/8	12-1/32	7-1/2	7-5/8	5-1/8	9.44	10.07
4	21-19/32	14-5/16	14-9/16	9-1/16	9-7/8	6-9/16	14.87	16.15

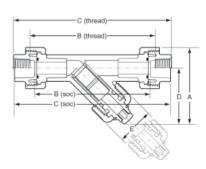
# True Union Y-Strainer Dimensions & Weights

	Dimension Reference (inches, ± 1/16)									Approx. Wt. (Lbs.)	
Nominal Size	A <sup>1</sup>	Α	В		С		D	Е	Union		
			Socket	SR Thread	Socket	SR Thread	D		PVC	CPVC	
1/2	5	3-7/16	5-1/8	5-1/2	6-7/8	7	2-1/2	1-5/8	.49	.53	
3/4	6-3/16	4-1/8	5-7/8	6-7/16	7-7/8	7-7/8	3	2	.80	.85	
1	7-5/16	4-7/8	6-1/2	7-3/8	8-3/4	9	3-5/8	2-1/4	1.13	1.20	
1-1/4	8-5/8	5-13/16	7-7/16	6-3/16	9-15/16	10-1/8	4-1/4	2-13/16	1.84	1.90	
1-1/2	9-3/4	6-5/8	8-3/16	9	10-15/16	10-15/16	4-7/8	3-3/16	2.44	2.52	
2	12-7/16	8-15/16	9-7/16	10-13/16	12-7/16	12-13/16	6-3/16	3-1/2	4.33	4.45	
3	16-1/6	10-3/4	12-3/16	13-15/16	16	16-3/4	7-5/8	5-1/8	10.35	10.55	
4	20-15/16	13-3/4	15-5/16	17-1/2	19-13/16	20-1/2	9-7/8	6-9/16	18.51	18.80	









#### NOT FOR USE WITH COMPRESSED AIR OR GASES

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