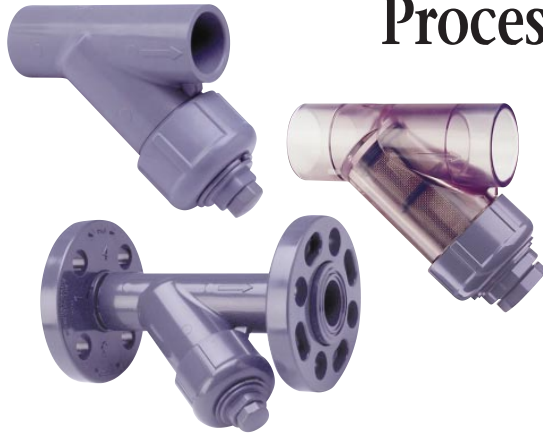




# PVC & CPVC Y-STRAINERS

YS-2-0599

## 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 basket 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 or flanged end connectors in IPS sizes 1/2" through 2".

### In-Line Horizontal or Vertical Installation

Line fluid flow is diverted through the interior of the strainer basket 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. (socket style only)

### Convenient Removable Strainer Basket

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

### EPDM or Viton® O-Ring Options

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

### Full 150 psi Pressure Rating

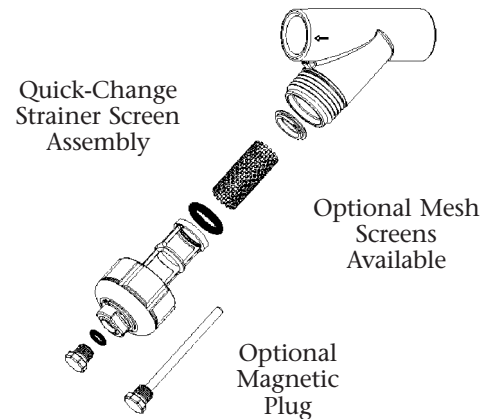
Pressure rated to a maximum internal pressure of 150 psi at 73°F.

### 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.



### Sample Engineering Specification

All sediment strainers shall be Y-type constructed from PVC Type I Cell Classification 12454 or CPVC Type IV Cell Classification 23447. 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 Y-STRAINERS shall be pressure rated at 150 psi for water at 73°F, as manufactured by Spears Manufacturing Company.

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Quality Systems Certificate No. 293  
Corporate Facilities, Sylmar, CA  
Assessed to ISO 9001

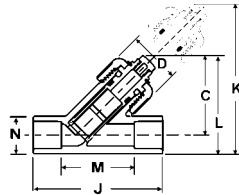
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## Strainer Screen Mesh Options

Stock Y-Strainers are assembled with standard 1/32" (20 mesh) perforated PVC or CPVC Screens. PVC, CPVC and 316 stainless steel screens are available in the following standard mesh size designations. 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.

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

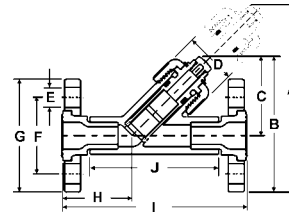


Socket Style

Size	C	D	J	K	L	M	N
1/2	2-1/2	1-5/8	3-3/8	4-5/8	3-1/16	1-5/8	1-3/16
3/4	3-1/8	2	4	5-3/4	3-11/16	2	1-3/8
1	3-5/8	2-1/4	4-3/4	6-7/8	4-7/16	2-1/2	1-3/4
1-1/4	4-1/4	2-13/16	5-9/16	8-1/8	5-5/16	3-1/16	2-1/16
1-1/2	4-7/8	3-3/16	6-5/16	8-7/8	5-3/4	3-9/16	2-5/16
2	6-3/16	3-1/2	7-1/2	11-5/8	7-9/16	4-1/2	2-13/16

## Drain Plug Tap Size for Bleed-Off Valve

Y-Strainer Size	Tap Size (NPT)
1/2	1/4 - 18
3/4	1/4 - 18
1	3/8 - 18
1-1/4	1/2 - 14
1-1/2	1 - 11-1/2
2	1 - 11-1/2



Flanged Style

Size	A	B	C	D	E	F	G	H	I
1/2	5-13/16	4-3/16	2-1/2	1-5/8	5/8	2-3/8	3-1/2	2-3/32	5-9/16
3/4	7-1/8	5-1/16	3-1/8	2	5/8	2-3/4	3-7/8	2-5/16	6-5/16
1	8-3/16	5-3/4	3-5/8	2-1/4	5/8	3-1/8	4-1/4	2-11/16	7-1/8
1-1/4	9-7/16	6-9/16	4-1/4	2-13/16	5/8	3-1/2	4-5/8	2-31/32	8
1-1/2	10-7/16	7-3/8	4-7/8	3-3/16	5/8	3-7/8	5	3-15/16	9-1/8
2	13-1/4	9-1/8	6-3/16	3-1/2	3/4	4-3/4	5-15/16	3-7/8	10-5/16

## Temperature Pressure Rating

System Operating Temperature °F (°C)		100 (38)	110 (43)	120 (49)	130 (54)	140 (60)	150 (66)	160 (71)	170 (77)	180 (82)	190 (88)	200 (93)	210 (99)
Strainer Pressure Rating psi (MPa)	PVC	150 (1.03)	135 (.93)	110 (.76)	75 (.52)	50 (.34)	-0- (-0-)	-0- (-0-)	-0- (-0-)	-0- (-0-)	-0- (-0-)	-0- (-0-)	-0- (-0-)
	CPVC	150 (1.03)	140 (.97)	130 (.90)	120 (.83)	110 (.76)	100 (.70)	90 (.62)	80 (.55)	70 (.48)	60 (.41)	50 (.34)	-0- (-0-)

## NOT FOR USE WITH COMPRESSED AIR OR GASES

Spears Manufacturing Company DOES NOT RECOMMEND the use of thermoplastic piping products for systems to transport or store compressed air or gases, or the testing of thermoplastic piping systems with compressed air or gases in above and below ground locations. The use of our product in compressed air or gas systems automatically voids any warranty for such products, and its use against our recommendation is entirely the responsibility and liability of the installer.

**WARNING: DO NOT USE COMPRESSED AIR OR GAS TO TEST ANY PVC OR CPVC THERMOPLASTIC PIPING PRODUCT OR SYSTEM, AND DO NOT USE DEVICES PROPELLED BY COMPRESSED AIR OR GAS TO CLEAR SYSTEMS. THESE PRACTICES MAY RESULT IN EXPLOSIVE FRAGMENTATION OF SYSTEM PIPING COMPONENTS CAUSING SERIOUS OR FATAL BODILY INJURY.**



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