

# Y Sediment Strainers



SERIES: YSA

SIZES: 1/2" – 4"

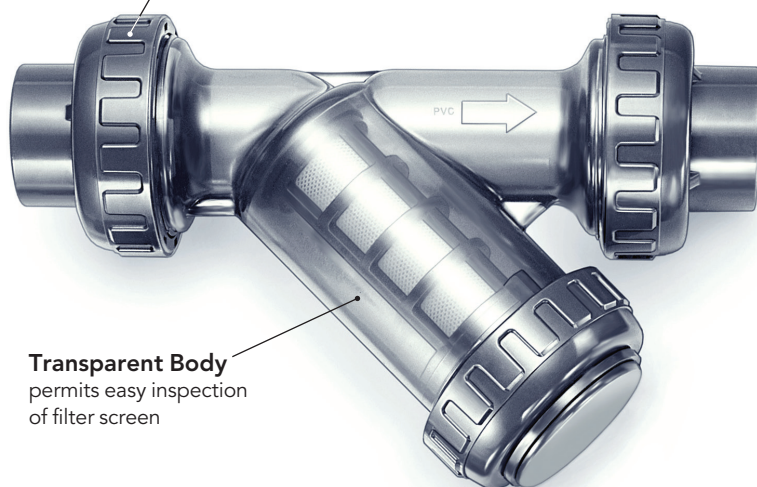
ENDS: True Union, Threaded, Socket, Flanged or ChemFlare™<sup>2</sup>

SEALS: EPDM, FKM (Viton®)<sup>3</sup>



## True Union Design

Body slips out of line.  
No need for flanges.



**Transparent Body**  
permits easy inspection  
of filter screen



## • Easily Maintained

All parts are easily  
replaceable including  
the body

The Chemline YSA Series Y Sediment Strainer is a safety filtration device designed to entrap occasional solid impurities in the line. This is to protect equipment with small orifices such as solenoid valves, and prevent damage to pumps or control valves, etc. The easily replaceable filter screen comes in a choice of meshes. The new YSA Series True Union models have greatly increased filtration areas. Pressure drops are lower and less frequent cleaning is required.

## Features

- High Capacity
- Transparent Body

### Large Filtration Capacity Low Pressure Drops

- Diameter of screens are full pipe bore. The effective filtering area is in some sizes twice the filtering area of other makes. This results in larger filtration capacities and lower pressure drops.

### Replaceable Filter Screens

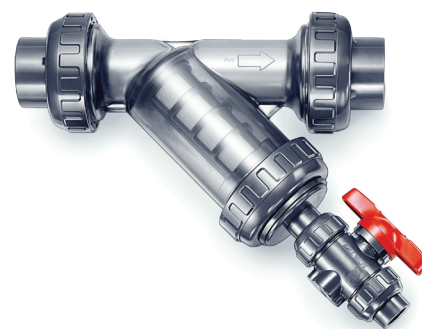
- Available with choice of PVC 24, 35 or 55 mesh filter screens
- 316 SS screens are also available

### Dual Socket and Threaded Ends

- Sizes 1/2" to 2" in PVC are supplied with socket ends plus two free threaded ends in each box

### CRN Registration numbers by province

- Ontario: OE10926.5
- Newfoundland: OE10926.50
- British Columbia: OE10926.51
- Saskatchewan/Manitoba/Quebec: OE10926.56
- New Brunswick: OE10926.57
- Nova Scotia: OE10926.58
- P.E.I.: OE10926.59
- Alberta: not required<sup>5</sup>



## • Optional Flush Valve

<sup>1</sup> Polypropylene and PVDF Strainers are available special order.

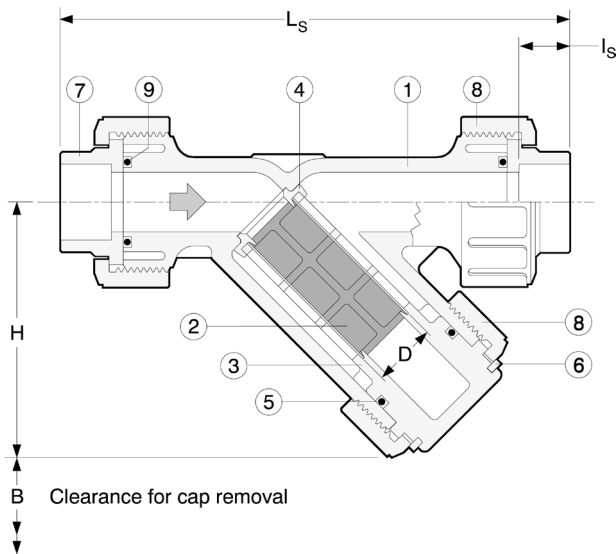
<sup>2</sup> For ChemFlare™ end connectors, consult Chemline.

<sup>3</sup> Other seal materials are available special order.

<sup>4</sup> PVC valves with EPDM or FKM (Viton®) seals are certified under NSF/ANSI Standard 61 for contact with drinking water.

<sup>5</sup> Not required for non-expandable fluids.

# Y Sediment Strainers



## PARTS

▲ Recommended Spare Parts

| No. | Part            | Pcs. | Materials          |
|-----|-----------------|------|--------------------|
| 1   | Body            | 1    | PVC                |
| 2▲  | Filter Screen   | 1    | PVC, 316SS         |
| 3   | Cap/Filter Cage | 1    | PVC                |
| 4▲  | Screen Retainer | 1    | PVC                |
| 5▲  | Cap O-Ring      | 1    | EPDM, FKM (Viton®) |
| 6   | Split Ring      | 1    | PVC                |
| 7   | End Connector   | 2    | PVC                |
| 8   | Union Nut       | 3    | PVC                |
| 9▲  | Face O-Ring     | 2    | EPDM, FKM (Viton®) |

## DIMENSIONS INCHES

| Size   | B   | D    | H<br>(Closed) | L <sub>T</sub><br>Threaded | L <sub>S</sub><br>Socket | L <sub>F</sub><br>Flanged | L <sub>S</sub><br>Socket | Exposed<br>Screen Area (in <sup>2</sup> ) |
|--------|-----|------|---------------|----------------------------|--------------------------|---------------------------|--------------------------|---|
| 1/2"   | 3.  | 0.63 | 2.8           | 6.50                       | 6.93                     | 8.1                       | 0.87                     | 2.71                                      |
| 3/4"   | 4.  | 0.83 | 3.7           | 7.95                       | 8.30                     | 10.0                      | 1.00                     | 4.57                                      |
| 1"     | 5.  | 1.1  | 4.0           | 8.82                       | 9.37                     | 11.1                      | 1.12                     | 5.98                                      |
| 1-1/2" | 6.  | 1.6  | 5.7           | 11.30                      | 12.13                    | 13.2                      | 1.38                     | 13.8                                      |
| 2"     | 7.  | 2.0  | 6.6           | 12.76                      | 13.31                    | 14.2                      | 1.50                     | 20.0                                      |
| 3"     | 8.  | 3.1  | 7.5           | 17.2                       | 17.80                    | 18.8                      | 1.87                     | 34.0                                      |
| 4"     | 11. | 3.9  | 10.1          | 23.5                       | 23.54                    | 23.9                      | 2.25                     | 54.7                                      |

## NET WEIGHTS LB.

## WORKING

**PRESSURES** PSI

## C<sub>v</sub> VALUES

| Size   | Threaded<br>Socket | Flanged | 0-50°C<br>32-122°F | USGPM Flow at 1 PSI<br>Pressure Drop |
|--------|--------------------|---------|--------------------|--------------------------------------|
| 1/2"   | 0.5                | 1.0     | 150                | 5.2                                  |
| 3/4"   | 1.0                | 1.6     | 150                | 7.5                                  |
| 1"     | 1.5                | 2.4     | 150                | 14.                                  |
| 1-1/2" | 3.4                | 4.6     | 150                | 34.                                  |
| 2"     | 4.3                | 6.0     | 150                | 50.                                  |
| 3"     | 12.7               | 14.7    | 85                 | 110.                                 |
| 4"     | 30.8               | 35.1    | 85                 | 165.                                 |

Temperature Range  
0 to 60°C (32 to 140°F)

With clean 24 mesh screen

## FILTER SCREEN DATA

| Equiv.<br>Mesh | Micron<br>Filtration | Hole<br>Area (in <sup>2</sup> ) | Holes<br>per in <sup>2</sup> | % Open<br>Area |
|----------------|----------------------|---------------------------------|------------------------------|----------------|
| 24             | 690                  | .00114                          | 135                          | 15.4           |
| 35             | 490                  | .00053                          | 258                          | 13.7           |
| 55             | 250                  | .00011                          | 774                          | 8.5            |

24 mesh is supplied as standard, 35 or 55 mesh supplied on request.

**Micron filtration** is the smallest diameter of a sphere which will be retained by the mesh.

## ORDERING EXAMPLE

|                                     |   |            |  |          |          |
|-------------------------------------|---|------------|--|----------|----------|
| <b>Chemline PVC Y Strainers YSA</b> |   | <b>020</b> |  | <b>E</b> | <b>S</b> |
| Size                                | 005 – 1/2" 007 – 3/4" 010 – 1" 012 – 1-1/4" 015 – 1-1/2" 020 – 2" 030 – 3" 040 – 4" 060 – 6" <sup>1</sup> |            |  |          |          |
| Seals                               | E – EPDM V – FKM (Viton®) C – CPE <sup>2</sup> B – Nitrile <sup>3</sup> A – Aflas®                        |            |  |          |          |
| Ends                                | S – Socket T – Threaded F – Flanged CF – ChemFlare™   |            |  |          |          |

**Example:** Chemline PVC Y Strainer, 2", EPDM o-rings, socket ends.

<sup>1</sup> 6" is 4" strainer with 6" end connections

<sup>2</sup> CPE=Chlorinated Polyethylene

<sup>3</sup> Nitrile is also called "Buna-N"

## OPTIONS

- **Alternate O-Ring materials**
- **Flush out valve installed in cap**
- **316 Stainless Steel Screens** if greater open area is required
- **Polypropylene or PVDF Construction**
  - Design is different from YSA Series. Consult Chemline.



**CHEMLINE PLASTICS**  
SUPERIOR FLOW SOLUTIONS

55 Guardsman Road, Thornhill, ON, L3T 6L2, Canada | ISO 9001:2008 Certified  
tel.905.889.7890 | fax.905.889.8553 | request@chemline.com | chemline.com