



## 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"<br>(DN15 – DN25) | PVC, CPVC or Clear PVC | Socket, Threaded or True Union          | FPM and EPDM | 150 PSI @ 70°F Non-Shock |
| 1 – 1/4"<br>(DN32)         | PVC and Clear PVC      |   |              |                          |
| 1 – 1/2"<br>(DN40)         | PVC, CPVC or Clear PVC |   |              |                          |
| 2"<br>(DN50)               | PVC                    | Socket, Threaded, Flanged or True Union |              |                          |
| 2 – 1/2"<br>(DN65)         |                        |   |              |                          |
| 3 – 4"<br>(DN80 – DN100)   |                        |   |              |                          |

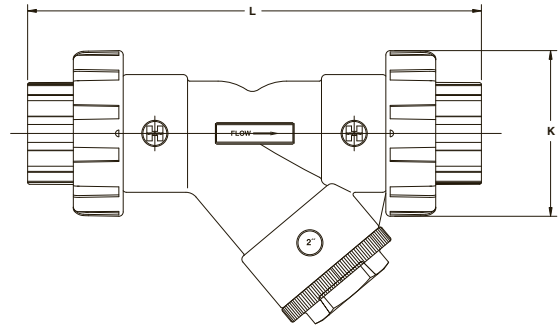
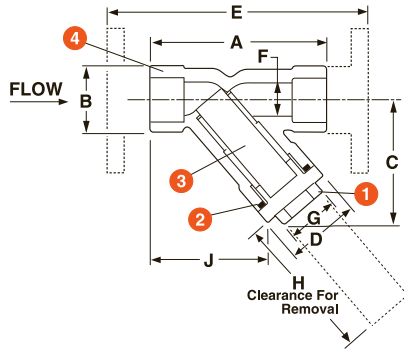
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## TECHNICAL INFORMATION, CONTINUED

### PARTS LIST

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



### DIMENSIONS

| SIZE<br>in/DN | A<br>in/mm | B<br>in/mm | C<br>in/mm | D<br>in/mm | E<br>in/mm | F<br>in/mm | G<br>in/mm | H<br>in/mm | J<br>in/mm | K<br>in/mm | L<br>in/mm | WEIGHT<br>lbs/kg |            |
|---------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------------|------------|
|               |            |            |            |            |            |            |            |            |            |            |            | SOC/<br>THD      | 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<br>in/DN | Cv VALUES | SIZE<br>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        |               |           |

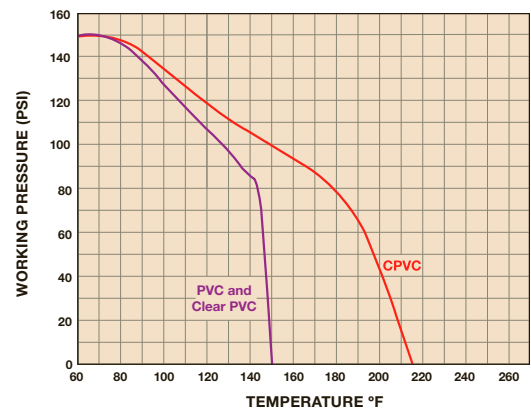
\* With 1/32" plastic screen

### PRESSURE LOSS CALCULATION FORMULA

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

$\Delta P$  = Pressure Drop  
 $Q$  = Flow in GPM  
 $Cv$  = Flow Coefficient

### OPERATING TEMPERATURE/PRESSURE



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