



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) | PVC | Socket, Threaded, Flanged or True Union | | |
| 2 – 1/2" (DN65) | | | | |
| 3 – 4" (DN80 – DN100) | | | | |

YS Series Y-Strainers

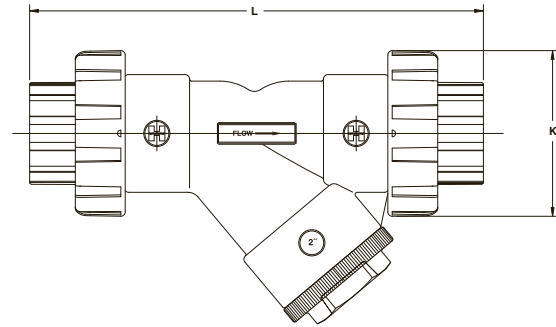
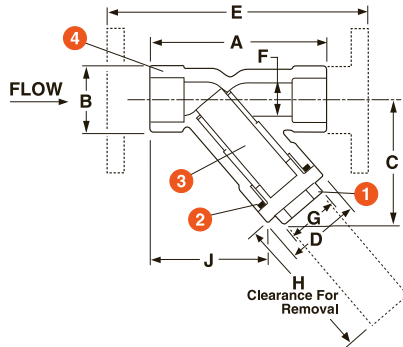
1/2", 3/4", 1", 1-1/2" AND 2" PVC, CPVC AND CLEAR PVC, 1-1/4" PVC AND CLEAR PVC, 2-1/2" PVC AND 3"-4" PVC AND CPVC



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 | 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

