### TECHNICAL AND PERFORMANCE DATA

**PRESSURE DROP CHARTS WYE & BASKET STRAINERS**

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**WYE Strainers - Small Models**
Models: YS12 - YS52 - YS55 - YS56 - YS81 - YS82

**WYE Strainers - Large Models**

**WYE Strainers - High Pressure - Class 900 & 1500**

**WYE Strainers - High Pressure - Class 2500**
Models: YS70 - YS71 - YS85 - YS86

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**Legend:** Pressure Drop - PSI (y-axis) versus Flow Rate - GPM (x-axis)

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**WYE Strainers - Small Models**

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**WYE Strainers - Large Models**

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**WYE Strainers - High Pressure - Class 900 & 1500**

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**WYE Strainers - High Pressure - Class 2500**

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**Pressure Drop Equation for Liquids:**

\[
\Delta P = G \times \left( \frac{Q}{Cv} \right)^2 \times Cr
\]

- \( \Delta P \) = Pressure drop (psi)
- \( G \) = Specific gravity of liquid
- \( Q \) = Flow rate (GPM)
- \( Cv \) = Flow coefficient factor
- \( Cr \) = Correction factor for mesh and viscosity

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- These curves are theoretical; actual results may vary depending on installation conditions and other variables. Use these values for reference only.
- The above pressure drop charts are based upon 1/8" perforated screens and baskets handling clean water at 60 °F during ideal inlet and outlet conditions. Therefore, they should only be used for estimation purposes.
- For fluids other than water, multiply the pressure drop (\( \Delta P \)) obtained from the charts by the specific gravity of the fluid in question.
- For mesh lined screens, multiply the pressure drop (\( \Delta P \)) obtained from the charts by the corresponding correction factor shown in the \( Cv \) correction table.

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TECHNICAL AND PERFORMANCE DATA
PRESSURE DROP CHARTS ♦ WYE & BASKET STRAINERS

Basket Strainers - Threaded Ends & Flanged Ends
Models: BS25 - BS25F - BS35 - BS35F

Basket Strainers - Flanged Ends
Models: BS55 - BS65 - BS85 - BS86 - BS95 - BS89

Cv CORRECTION FACTOR TABLE

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Multiply the Correction Factor by the pressure drop obtained from the charts in order to calculate \( \Delta P \) for other liquids (besides water) and mesh lined screens and baskets.

Pressure Drop Equation for Liquids:

\[
\Delta P = G \times \left( \frac{Q}{Cv} \right)^2 \times Cr
\]

\( \Delta P = \text{Pressure drop (psi)} \)
\( G = \text{Specific gravity of liquid} \)
\( Q = \text{Flow rate (GPM)} \)
\( Cv = \text{Flow coefficient factor} \)
\( Cr = \text{Correction factor for mesh and viscosity} \)

- These curves are theoretical; actual results may vary depending on installation conditions and other variables. Use these values for reference only.
- The above pressure drop charts are based upon 1/8" perforated screens and baskets handling clean water at 60 °F during ideal inlet and outlet conditions. Therefore, they should only be used for estimation purposes.
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- For mesh lined screens, multiply the pressure drop (\( \Delta P \)) obtained from the charts by the corresponding correction factor shown in the Cv correction table.

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