Theoretical Pressure Drop Curve for Screen Clogging

Select the anticipated clogging (%) at the left of the chart. The example shows a basket 50% clogged. Then, follow that value to the right until the curve is intersected. From that point follow downward to the scale along the bottom to read the pressure drop multiplying factor, in this case 2. The resulting pressure drop across the basket at 50% clogged is twice as great as that for a clean basket. See applicable pressure drop chart in Technical Data Section for clean basket pressure drop values.

EXAMPLE: How much is the pressure drop through a 10" Y strainer for a flow of 1000 GPM of water at ambient temperature with ⅛" perforated basket which is 50% clogged? Find the pressure drop for a clean basket from curve on appropriate Pressure Drop Chart in the Technical Data Section (flanged end). At 1000 GPM of water the pressure drop is .4psi. As described above the multiplying factor for a 50% clogged basket is 2. The pressure drop is then .4psi x 2 = .8psi.