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Solution We are to decide if the specific weight is an extensive or intensive property. Analysis The original specific weight is 1 = W γ V If we were to divide the system into two halves, each half weighs W/2 and occupies a volume of V /2. The specific weight of one of these halves is == 1 /2 /2 W γ γ V which is the same as the original specific weight.

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Solution. Assumptions. 1 The fluid is a Bingham plastic with τ = τ y + μ (du dr) where τ y is the yield stress. 2 The flow through the. pipe is one-dimensional.

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