

Thermal-Fluid

Unit 04:

Piping Networks

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1. Unit 04: Piping Networks

4. Chapter: Unit 04: Piping Networks

1. Unit 04: Piping Networks Questions

4.1.1. Water flows through a narrow (ID = 750 micron) capillary at 1 ml/mi...

Author: Steve Gibbs

Water flows through a narrow (ID = 750 micron) capillary at 1 ml/min. The surface of the capillary is smooth. The capillary is 1 m long. Calculate the pressure drop over a 1 m length.

Please choose only one answer:

- 2.1 kPa
- 2.1 Pa
- 42 kPa
- 21 Pa
- 4.2 Pa

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Question: [Water flows through a narrow ID 750 micron Steve Gibbs @The Saylor](#)

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4.1.2. A fluid of density 0.78 g/cm³ and viscosity 2.2 cP flows through a ...

Author: Steve Gibbs

A fluid of density 0.78 g/cm³ and viscosity 2.2 cP flows through a 5 inch ID pipe with surface roughness $e/D = 0.005$ at a flow rate of 500 kg/min. The pipe is 100 m long. What is the pressure drop over the pipe?

Please choose only one answer:

- 7.5 Pa
- 7.5 kPa
- 750 kPa
- 750 Pa
- 75 Pa

Check the answer of this question online at QuizOver.com:

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4.1.3. Water flows through a 0.5 inch ID 90-degree elbow at 50 L/min. What...

Author: Steve Gibbs

Water flows through a 0.5 inch ID 90-degree elbow at 50 L/min. What is the associated pressure drop?

Please choose only one answer:

- 1.75 kPa
- 1.75 Pa
- 35 Pa
- 17.5 kPa
- 175 kPa

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [Water flows through a 0.5 inch ID 90-degree Steve Gibbs @The Saylor](http://www.quizover.com/question/water-flows-through-a-0-5-inch-id-90-degree-steve-gibbs-the-saylor?pdf=3044)

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4.1.4. A fluid with density 0.05 g/cm³ and viscosity 0.05 cP flows through...

Author: Steve Gibbs

A fluid with density 0.05 g/cm³ and viscosity 0.05 cP flows through a 1 inch ID pipe at a flow rate of 1 gpm. Which of the following best describes the type of flow? I. Laminar II. Turbulent III. Transitional

Please choose only one answer:

- I only
- II only
- III only
- I and III only
- II and III only

Check the answer of this question online at QuizOver.com:

Question: [A fluid with density 0.05 g/cm³ and viscosity Steve Gibbs @The Thermal](#)

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