The ISA Birmingham Section Executive Team sends out its best wishes and hopes that you and your family are safe from the Corona Virus (COVID-19) infection. We encourage you to follow the latest guidelines from the Center for Disease Control (CDC) and from the government/health officials and leaders.

Due to health concerns and trying to follow all the rules for the safety of our ISA Birmingham Section membership, there are several changes to our plans for the balance of the society year. They are noted in other sections of this newsletter for your reference and use.

This is the 75th Anniversary Year for ISA, and you may click on the following link to see a very interesting slide show of the history of ISA.

http://isa-5382318.hs-sites.com/75in2020

The Honors and Awards Dinner scheduled for May 12, 2020, has been cancelled. The awardees will receive their plaques and recognition later in the year when the health situation becomes safe.
The ISA Birmingham Section is proud to present the 50th Annual “Fundamentals of Industrial Automation, Instrumentation, and Control” training class. This popular and successful event will take place on May 5 – 7, 2020, in the offices of Revere Control Systems in Hoover.

All enrolled participants will be allowed to request a refund, or retain a credit for the next offering of this class. This is an unfortunate situation, but many people, businesses, and volunteer organizations are suffering during this time.

Mark Your Calendar:
All meetings and classes are cancelled until further notice of health clearances.

Anyone with suggestions as to program topics and presentations, should contact Mark Isbell at misbell@wgyates.com, with ideas and suggestions.
ISA Birmingham Leaders 2019 – 2020

Visit the ISA Birmingham web site:  www.isa.org/birmingham [isa.org]

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Matt’s – Word for the Day

Funambulist

fyoo-NAM-byoo-list

Part of speech: noun

Origin: Latin, 19th century

1. A tightrope walker
2. One who demonstrates mental agility

Examples of Funambulist in a sentence

“The star of the circus was the funambulist dancing high above the crowd on a tightrope.”

“He earned his reputation as a funambulist by winning the trivia competition 10 weeks in a row.”
Technical Brain Teaser

A control valve is to be sized for the following conditions:

Liquid flow, 50 GPM, specific gravity = .81, inlet pressure of 240 psig, with a pressure drop of 10 psi. The required flow coefficient for the valve will most nearly be:

a. 10.4  
b. 14.2  
c. 22  
d. 35.5

Scroll Down for the Correct Answer

Answer

In this case, you are only given the required flow rate, the specific gravity of the fluid, and the pressure drop across the valve. Since you do not know the vapor pressure of the liquid, there is not opportunity to check for flashing or cavitation for this situation. The pressure recovery factor, FL, can be approximated for the valve by selecting a valve body style (globe, ball, or butterfly),


but allowable pressure drop cannot be calculated without knowing the vapor pressure or the name of the liquid. Therefore, the basic control valve sizing equation may be employed to calculate the required flow coefficient for the valve. The selected valve should have this capacity at approximately 2/3 open, based on the flow coefficients shown in the valve table.

\[ C_v = Q \sqrt{\frac{G_v}{\Delta P}} \]
\[ \Delta P_{\text{ALLOW}} = F_L^2 (P_1 - F_F P_V) \]
\[ C_v = 50 \sqrt{\frac{.81}{10}} \]
\[ F_F = .96 - .28 \sqrt{\frac{P_V}{P_c}} \]
\[ C_v = 14.23 \]

Answer is B 14.2