74-100 Series
Chemical Resistant Nickel Ball Valve

Threaded, 800 psig WOG, Cold Non-Shock. 150 psig Saturated Steam.
Vacuum Service to 29 inches Hg.

FEATURES
- Investment cast components
- Reinforced
- SS lever and nut
- Blow-out-proof stem design
- Adjustable packing gland
- (-24) Certified to API 607
  4th Edition

STANDARD MATERIAL LIST

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CHEMICAL RESISTANT NICKEL BALL VALVE

For Pressure/Temperature Ratings,
Refer to Page M-16, Graph No. 22

H-8
COPYRIGHT ©2011 APOLLO VALVES, MANUFACTURED BY CONBRACO INDUSTRIES – PRINTED IN U.S.A.
FLOW DATA
For Apollo® Ball Valves

The listed Cv “factors” are derived from actual flow testing, in the Apollo® Ball Valve Division, Conbraco Industries, Inc., Pageland, South Carolina. These tests were completed using standard “off the shelf” valves with no special preparation and utilizing standard schedule 40 pipe. It should be understood that these factors are for the valve only and also include the connection configuration. The flow testing is done utilizing water as a fluid media and is a direct statement of the gallons of water flowed per minute with a 1 psig pressure differential across the valve/connection unit. Line pressure is not a factor. Because the Cv is a factor, the formula can be used to estimate flow of most media for valve sizing.

Flow of Liquid

\[ Q = \frac{\Delta P}{\sqrt{S_p Gr}} \]

or \[ \Delta P = \left(\frac{Q}{C_v}\right)^2 \times (S_p Gr) \]

Flow of Gas

\[ Q = 1360 \frac{C_v \sqrt{\Delta P \left(\frac{P_2 - P_1}{T}\right)}}{10^7 \left(S_p Gr\right) \left(T + 460\right)} \]

or \[ \Delta P = 5.4 \times 10^7 \left(\frac{S_p Gr}{C_v} \left(T + 460\right)^2 \right) \]

Where:
- \( Q \): flow in US gpm
- \( \Delta P \): pressure drop (psig)
- \( S_p Gr \): specific gravity at flowing temperature
- \( C_v \): valve constant

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