

## Control Valve Sizing Calculation Worksheet for Critical and Sub-Critical Flow

Calculation Sheet No.

Project Name

Client Name

Location

Subject

S. No.	0	1	2	3
Date	20/2/2025	21/2/2025	22/2/2025	24/2/2025
Prepared By	XXXXXX	XXXXXX		
Checked By			XXXXXX	
Approved By				XXXXXX

### Summary

Design calculated Cvc	120.00
Selected Cv =	60
Cvc / Cv =	2.00
Body / Trim size/Type:	40

 Referred from control valve Catalogue  
Eg: Masonellan

 Referred from control valve Catalogue  
Eg: Masonellan

Line no. : Fcv- 2000  
Service : Flow control - CWP

**AutomationForum.Co**


### Physical properties

Phase:	1	
Operation temperature:	29	°C
Up stream Pressure P1:	14.00	bara
Down stream Pressure P2:	12.00	bara

Flowrate Q:	230	m³/h
Critical Pres Pc:	10	bara
Vapour Pres Pv:	1	bara
Density of the process ρ:	0.8	kg/m³
Viscosity of the process μ:	1.2	cP
Design factor:	20	

Check for critical flow (Based on Masonellan handbook p. 3)  
Valve dependent critical flow factor, Cf = 1 (Collected from control Valve hand Book)

$DPs = P1 - (0.96 - 0.28 \left[ \frac{Pv}{Pc} \right]^{0.5}) \cdot Pv$  or if  $Pv < 0.5 P1$   
DPs = P1 - Pv

DPs = 13.00 Design Calculations

Flow is sub-critical if,  $DP < Cf \cdot DPs$  DP = 2 bar  
 $Cf^2 \cdot DPs = 13.00$  bar

Control Valve is

## Sub-Critical Flow

Control valve sizing: (Based on Masonellan handbook p. 3)

Specific gravity at flowing temp., Gf = 0.001

Critical Flow:  $Cv = 1.16 \cdot Q / Cf \cdot \sqrt{Gf / DPs}$

Normal Cv = Not Applicable

Design Cv = N/A

Sub-critical Flow:  $Cv = 1.16 \cdot Q \cdot \sqrt{Gf / DP}$

Normal Cv = 5

Design Cv = 107

## Excel Tool - Liquid Application

# Flow Calculation For Gases Needle Valve

**D Kirk**



## **Flow Calculation For Gases Needle Valve:**

## Unveiling the Magic of Words: A Overview of "**Flow Calculation For Gases Needle Valve**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Flow Calculation For Gases Needle Valve**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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