


V-Cone Sizing Tool

Quick Reference Guide

McCrometer V-Cone Sizing Tool1 Units Of Measure Open File New File +

FILE NAME

Email Print Save

USER INFORMATION

User 2

P.O Reference

Customer 3

Market ▼

Application ▼

Mark/App Code

Date

METER IDENTIFICATION

Serial #

Tag

Model Number 4

Model Desc.

Fluid

Notes

1. Units of measure can be changed between metric system and imperial
2. Enter the name of the user completing the sizing
3. Enter the name of the end user/customer
4. For assistance, reference Lit #30122-01

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PROCESS DATA 5

Fluid GAS

Model Number Build It 6

Pressure psi G

Temperature °F

Q: Flow Rate ACF M

Beta 7

Meter I.D. in

TD 8 10

Material Expansion Factors 9 Edit

FLUID PROPERTIES

Pb psi

Tb °F

Patm psi

rho lb/ft3

Gf

Z

Zb

k

Cp

mw

Pc psi

Tc °F

mu cP

aPE D Edit Clear

aPE d Edit Clear

Cd 10

SIZING SUMMARY

DP 11 inWC

Turn Down 12 [Beta] (.05) steps DP[Beta] (.01) steps

Re 13

Y

Fa

Tv °F

Pv psi

PPL 14 inWC

V fps

Cone O.D.

5. Note that this section displays operating conditions of the application (DO NOT use design conditions)

6. Step by step build of the meter model

7. Restrictions: 0.45 - 0.85

8. Turndown ratio - ratio between minimum and maximum flow rate

9. Thermal expansion factor to be selected for appropriate material and temp. range

10. Coefficient of flow

11. Low end Dp cannot drop below 0.1 inWC

12. Toggle between turndown (TD) and beta ratio relative to flow rate

13. Oil calibration typically required for Reynolds numbers below 8,000. Consult factory when a specific accuracy is required.

14. Permanent pressure loss (PPL) = headloss