

V-Cone Sizing Program version 3.11 (10/93)

11/17/1994

file name:94100329

sized:11/17/1994

meter identification: 94100329 tag:
application customer: ARGONNE LABS.
V-Cone model number: V000A -AL

fluid: Water/water

comments:

fluid boiling point: 671.800 R

Operating Conditions:

temperature: 75.000 F
pressure: 150.000 psiG
fluid mass: 62.098#/ft3
viscosity: 0.834 cP
Z-factor: 0.003

CERTIFIED: J Am

Meter Specifications:

inside diameter: 0.438in
cone diameter: 0.371in
beta ratio: 0.5315
Fa: 1.0001

turndown: 10.0to1 Cf: 0.8110

- Cf is linear to flowrate -

FLOWRATE (GPM)	DIFF-PRESS (inWC)	VELOCITY (f/s)	REYNOLDS NUMBER	COEFFICIENT OF FLOW
2.0000	58.952	4.26	17197.	0.81100
1.7256	43.883	3.67	14837.	0.81100
1.5981	37.641	3.40	13741.	0.81100
1.4930	32.851	3.18	12837.	0.81100
1.3982	28.814	2.98	12022.	0.81100
1.3091	25.256	2.79	11256.	0.81100
1.2229	22.040	2.60	10515.	0.81100
1.1379	19.083	2.42	9783.9	0.81100
1.0526	16.330	2.24	9050.8	0.81100
0.96571	13.745	2.06	8303.4	0.81100
0.87560	11.299	1.86	7528.6	0.81100
0.78029	8.9733	1.66	6709.2	0.81100
0.67681	6.7510	1.44	5819.3	0.81100
0.55985	4.6194	1.19	4813.8	0.81100
0.41746	2.5684	0.889	3589.4	0.81100
0.19999	0.58947	0.426	1719.6	0.81100

sized by: C. J. Parker, 11/17/94, approval: _____

Ketema/McCrometer Division
warnings: .low flow.

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