

V-Cone Sizing Program version 3.11

file name: 94102221

sized: 12/20/94

meter identification: 94102221 tag:
application customer: ARGONNE LABS
V-Cone model number: V000A-4L

fluid: Water/water comments:

fluid boiling point: 671.800 R

Operating Conditions:
temperature: 75.000 F
pressure: 150.000 psig
fluid mass: 62.098 lb
viscosity: 0.834 cP
Z-factor: 0.003



Meter Specifications:
inside diameter: 0.438in
cone diameter: 0.299in
beta ratio: 0.7307
Fa: 1.0001

turndown: 10.0 to 1 Cf: 0.7560
- Cf is linear to flowrate -

FLOWRATE (GPM)	DIFF-PRESS (inWC)	VELOCITY (f/s)	REYNOLDS NUMBER	COEFFICIENT OF FLOW
4.0002	59.023	8.52	34394.	0.75600
3.4512	43.936	7.35	29675.	0.75600
3.1964	37.686	6.80	27483.	0.75600
2.9861	32.891	6.36	25675.	0.75600
2.7966	28.848	5.95	24046.	0.75600
2.6183	25.287	5.57	22512.	0.75600
2.4459	22.067	5.21	21030.	0.75600
2.2759	19.106	4.85	19569.	0.75600
2.1053	16.350	4.48	18102.	0.75600
1.9315	13.761	4.11	16607.	0.75600
1.7513	11.313	3.73	15058.	0.75600
1.5606	8.9841	3.32	13419.	0.75600
1.3537	6.7591	2.88	11639.	0.75600
1.1198	4.6250	2.38	9627.9	0.75600
0.83495	2.5715	1.78	7179.1	0.75600
0.40000	0.59018	0.852	3439.3	0.75600

sized by: *Cathy Feltner*, 12/22/94 approval: _____