V-Cone Application Sizing

Serial #	98-1642
Tag	
Model	VP04QE44N
Job Ref.	JB4358

Fluid State	LIQUID
Fluid	WATER
End User	RAECO

Description	4" V-CONE
Note	

Ind. Code	
RSM	

C_f	0.8149	
P_f	160	psiG
T_f	90	°F
ρ	62.00	lb/ft3
μ	0.7827	cP
G		
Z		
Y		
k		
C_P		
Mw	18.015	
P_b		
T_b		
P_{baro}	14.696	psiA
P_c	3198.8	psiA
T_c	1164.8	°R
F_a	1.000	
aPE	9.500e-06	⇐
P_v	0.6991	psiA

⇐ Entered value.

q	max. Flowrate	600	GPM
Re	max. Reynolds	5.980e+05	
V	max. Velocity	15.12	fps
ΔP	max. Dp	397.66	inWC
ΔP	min. Dp	3.9766	inWC
D	Meter I.D.	4.0260	in
β	Beta Ratio	0.6097	
	Turn Down	10	

McCrometer Cal.	
Third Party Cal.	
Dye. Pen. Exam.	
Hydro. Test	
X-Ray Exam.	
Mag. Part.	
CMTR Copies	
McCrometer Eng.	MBB

	Re	Velocity fps	Gas. Exp. Y	ΔP inWC	Flowrate GPM
1	5.980e+05	15.121		397.66	600.00
2	5.382e+05	13.609		322.12	540.00
3	4.784e+05	12.097		254.50	480.00
4	4.186e+05	10.585		194.86	420.00
5	3.588e+05	9.0729		143.16	360.00
6	2.990e+05	7.5607		99.417	300.00
7	2.392e+05	6.0486		63.627	240.00
8	1.794e+05	4.5364		35.790	180.00
9	1.196e+05	3.0243		15.907	120.00
10	5.980e+04	1.5121		3.9766	60.000

Table based on one flow condition (P, T ...)

Record Start Date	10-05-1998
Print Date	10-12-1998

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CERTIFIED DOCUMENT

BY

DATE

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