

V-Cone Flow Meter Flow Formulas

Bending Magnet # 13

Base Formula : $Q_{gpm} = 5.6748766 D^2 \beta^2 Cd (\Delta P)^{1/2} / (1-\beta^4)^{1/2}$

Component Formula	Meter I.D. (D)	Beta Ratio (β)	Discharge Coeff (Cd)	
FM1-F	0.438"	0.731	0.7653	$Q_{gpm} = 0.52672(\Delta P)^{1/2}$
BPM1-F	0.438"	0.532	0.8219	$Q_{gpm} = 0.26404(\Delta P)^{1/2}$
FM2/PS1-F	0.438"	0.731	0.7417	$Q_{gpm} = 0.51048(\Delta P)^{1/2}$
BPM2-F	0.438"	0.532	0.8182	$Q_{gpm} = 0.26286(\Delta P)^{1/2}$
FM3/PS2-F	0.438"	0.731	0.7667	$Q_{gpm} = 0.52769(\Delta P)^{1/2}$
BeW-F	0.438"	0.731	0.7580	$Q_{gpm} = 0.52170(\Delta P)^{1/2}$