

**ER5-3 Tee, 45 Degree Entry Branch [Ab/As=Ab/Ac=0.5; As=Ac], Converging
(SMACNA 1990, Sepsy 1973)**

Tel:	ASHRAE DUCT FITTING DATABASE	Wednesday, September 20,
Fax:	Version # 5. 00.00	2017

**(ER5-3) Tee, 45 Degree Entry Branch [Ab/As=Ab/Ac=0.5; As=Ac], Converging
(SMACNA 1990, Sepsy 1973)**

INPUTS

OUTPUTS

Height (H, mm)	500		Branch	
Width (W, mm)	300		Velocity (Vb, m/s)	2.2
Height (Hb, mm)	150		Vel Pres at Vb (Pvb, Pa)	3
Width (Wb, mm)	150		Loss Coefficient (Cb)	-1486.42
Flow Rate (Qs, L/s)	1050		Branch Pressure Loss (Pa)	-4419
Flow Rate (Qb, L/s)	50		Main	
Density (kg/m^3)	1.204		Velocity (Vs, m/s)	7.0
			Velocity (Vc, m/s)	7.3
			Vel Pres at Vs (Pvs, Pa)	30
			Vel Pres at Vc (Pvc, Pa)	32
			Loss Coefficient (Cs)	0.05
			Main Pressure Loss (Pa)	1

