

List of Symbols

symbol	Quantity	coherent
R	Constant of gas	Kj/kg.k
T	Ambient temperature	K
ρ	Density	Kg/m ³
C _d	Coefficient of discharge	-----
C _p	Specific heat at constant pressure	Kj/kg.k
D	Diameter of pipe	M
μ	Absolute viscosity of gas	Kg/m ²
ν	Kinetic viscosity	m ² /s
$\dot{m}$	Mass flow rate	Kg/s
Z	Compressibility	m ³ /m ³ .kpas
DC	Direct current	Ampere
AC	Alternative current	ampere
U	Overall heat transfer	Kj
Q	Volume flow rate	m ³ /s
H	Height	m
ϵ	Effectiveness	-----
L	Length	m
P	Pressure	Kpas
C _a	Corrosion allowance	mm
V	Speed	m/s
S _d	Allowed stress for design	Mpas
S _t	Allowed stress for hydro test	Mpas
E	Joint efficiency factor	-----
F _G	Gravitational force	N
F _B	Buoyancy force	N
F _D	Drag force	N
g	Gravitational acceleration	m/s ²
Re	Reynolds number	-----
ϕ	Shape factor	-----