

Volume (Natural Gas)

ft. ³	x	0.028317	=	m ³	x	35.3147	=	ft. ³
SCF (60° F)	x	0.026792	=	Nm ³ (0° C)	x	37.3240	=	SCF
SCFD	x	0.001116	=	Nm ³ /Hr	x	896.057	=	SCFD

Heat, Work, Energy Note : j = W-s

ft.lb.	x	1.355822	=	j	x	0.737562	=	ft.lb.
Btu	x	1055056	=	kJ	x	0.947817	=	Btu
kWh	x	3.6	=	MJ	x	0.277778	=	kWh
Btu	x	0.252	=	kCal	x	3.968254	=	Btu

Calorific Value

Btu (it)/lb.	x	2.326	=	γg	x	0.429923	=	Btu (it)/lb.
Btu (it)/ft. ³	x	37.259	=	kJ/m ³	x	0.026839	=	Btu (it)/ft. ³
Btu/lb.	x	0.555564	=	koal/kg	x	1.799972	=	Btu/lb.
Btu/SCF	x	9.405648	=	koal/Nm ³	x	0.106319	=	Btu/SCF
Btu/SCF	x	39.3789104	=	kJ/Nm ³	x	0.025394	=	Btu/SCF
Btu/SCF	x	0.03937891	=	MJ/Nm ³	x	25.3943034	=	Btu/SCF

Pressure Note : Pa = Nm⁻²

1 atmosphere	=	1.01325	Bars	=	760	mmHg (0° C)		
	=	14.696	PSI	=	30	in.Hg (60° F)		
	=	101.325	kPa	=	29.9213	in.Hg (32° F)		
Bar	x	14.504	=	PSI	x	0.068946	=	Bar
Bar	x	100	=	kPa	x	0.01	=	Bar
in.H ₂ O (60° F)	x	0.248842	=	kPa	x	4018622	=	in.H ₂ O (60° F)
in.Hg (32° F)	x	3.386388	=	kPa	x	0.2952999	=	in.Hg (32° F)
in.Hg (60° F)	x	3.377502	=	kPa	x	0.296077	=	in.Hg (60° F)
lb./in. ² (PSI)	x	6.894757	=	kPa	x	0.145038	=	lb./in. ² (PSI)
lb./ft. ²	x	47.880247	=	kPa	x	0.0208854	=	lb./ft. ²

Temperature

(° F - 32)	x	5/9	=	° C	x	9/5 + 32	=	° F
(° F + 460)			=	° R	-	460	=	° F

Based on 14.696 psia and 60° F to 101.325 kPa and 15° C

Flow (MMSCFD)	=	PD ² / 620	(PSIA, in.)
Net HV.	=	GHV (dry)	x 0.9
GHV (as is)	=	GHV (dry)	x 0.9826
Gas Density	=	0.0761289	x SG. (lb./ft. ³) = 1.226878 x SG. (kg./m ³)
PSIA	=	PSIG	+ ATM