

Equivalent Pressure check or 12" NB 900# flange joint as per MSS SP-44  
Calc.no  
EFFECTIVE GASKET DIAMETER G 0.352 m  
NODE FLANGE RATING 900 Lbs P<sub>ALLOWABLE</sub> = 2218.5 PSIG FOR MATERIAL As per MSS SP-44 85DEG C  
Design PRESSURE(P) P 1450 PSIG 153.0 barg  
100 Barg

BASIC LOAD CASES	CASE NO.	Fx(N)	Fy(N)	Fz(N)	Mx(N.m)	My(N.m)	Mz(N.m)	F AXAIL FORCE(N)	BENDING MOMENT Mt (N.m)	P <sub>eq</sub>	P+P <sub>eq</sub>	P <sub>ALLOWABLE</sub> BLE (Psig)	RATIO	RESULT
								=Fy ie. The axis of the nozzle	=sqrt(mX^2+					
hed operating load case < Pflange rating pr								12560	75471	1302.36	2752.36	2218.5	1.24064	high stress