

Plug-In Formula for Calculating Desired Line Pressure on Heat Seal Machines

1 Specified Applied Inter-Platen Pressure	25	Lbs/inch ²		1.758	Kg/cm ²
Platen Size Variable	Width	Length	in/inchs	Width	Length cm/cmsq
2 Input Platen Dimensions			inches		
Calculated Platen area	0		sq. inches	0	sq. cm
3 Input Cylinder diameter			inches		cm
Calculated Cylinder area (pi*r ²)	0.00		sq. inches	0.00	sq. cm
Calculated Results					
Spec. Applied Inter-Platen Pressure	25	Lbs/inch ²		1.75767	Kg/cm ²
Multiply by platen area from above	0		sq. inches	0	sq. cm
Total Pressure	0			0	
Divided by cylinder area (calc. above)	0.00		sq. inches	0.00	sq. cm
4 Set the Air Compressor Line Pressure to this Calculated Line Pressure Setting	#DIV/0!		psi	#DIV/0!	psi

Instructions:

- 1 This is the Applied Inter-Platen Air Pressure specified in our Label Application Instructions.
- 2 Input the width and length of the heat seal machine platen.
- 3 Input the diameter of the cylinder.
- 4 This is the Air Compressor line pressure needed to achieve the Specified Inter-Platen Pressure required for proper label application.

Example of Calculation in lbs/inches and in kg/cm

	Calculation in Pounds			Calculation in Kg.		
Inter-Platen Pressure Per Sq. Inch	25	Lbs/inch ²		1.75767	Kg/cm ²	
Desired applied Inter-Platen Pressure	25	Lbs/inch ²		1.75767	Kg/cm ²	
Platen Size Variable	Width	Length	in/inchs	Width	Length	cm/cmsq
Platen Dimensions	3.25	5	inches	10	10	cm
Calculated Platen area	16.25		sq. inches	100		sq. cm
Cylinder diameter	3		inches	5		cm
Calculated Cylinder area (pi*r ²)	7.07		sq. inches	19.64		sq. cm
Calculated Results						
Desired applied Inter-Platen Pressure	25	Lbs/inch ²		1.75767	Kg/cm ²	
Multiply by platen area from above	16.25		sq. inches	100		sq. cm
Total Pressure	406.25			175.767		
Divided by cylinder area	7.07		sq. inches	19.63		sq. cm
Calculated Line Pressure Setting	57.46		psi	8.95		psi