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so many fake sites. this is the first one which worked! Many thanks

The gauge pressure of a pneumatic cylinder reads 20 bar, when the volume is 30 in³. The cylinder is compressed until the gauge reads 60 bar. Assume standard atmospheric pressure (14.7 psi).

1. Sketch and label all known and unknown values.

Sketch

2. What is the absolute pressure before and after the cylinder gas is compressed?

Formula	Substitute / Solve	Final Answer
$P_1 = P_{gauge} + P_{atm}$	$P_1 = 20 + 14.7$	34.7 psi

Formula	Substitute / Solve	Final Answer
$P_1 V_1 = P_2 V_2$	$34.7 \times 30 = P_2 \times V_2$	74.7 psi

Fluid Power Practice Problems

3. What is the volume in the cylinder after the gas is recompressed?

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