

**SRX LP**



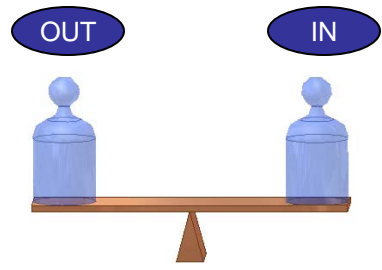
# Using Pneumatic Pumps in Vacuum Applications



DISCHARGE ACTIVATION  
LIQUID LEVEL



THE WEIGHT OF THE ATMOSPHERE OR GAS  
INSIDE THE PUMP IS THE SAME AS OUTSIDE



When the exhaust port and the well are open to atmosphere or when the exhaust line is inside the well the liquid level inside the pump to start the discharge cycle is as shown. The gas pressure inside the pump and outside the pump are the same. Only the higher liquid level outside the pump will cause it to fill to the cycle activation level

The well flange seals the top of the well and all the tubing penetrations the pump exhaust tubing is open to the atmosphere

PARCEL VACUUM  
= Z INCHES WATER

THE WEIGHT OF THE ATMOSPHERE  
OR GAS INSIDE THE PUMP IS  
GREATER THAT OUT SIDE THE  
PUMP.

NEW ACTIVATION  
LIQUID LEVEL

THE NEW ACTIVATION IS Z IN  
INCHES  
OF WATER + THE ORIGONIAL  
SET POINT.

ORIGONIAL  
LIQUID  
ACTIVATION  
LEVEL

OUT SIDE

IN SIDE



When the exhaust port is open to the atmosphere and the well is under partial vacuum the liquid level in the casing to fill the pump and activate the discharge cycle will be increased by the applied vacuum.