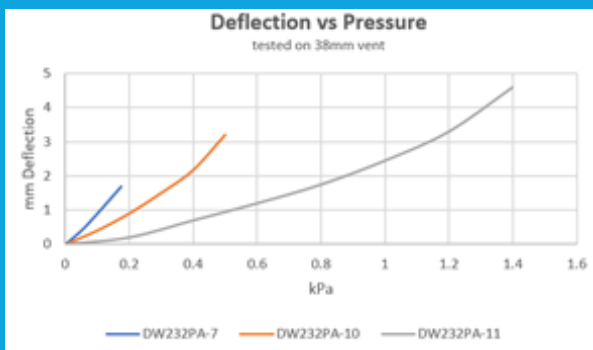
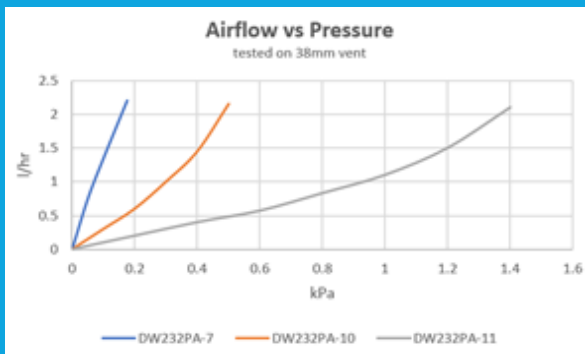


Designing a Dual Stage Vent with DeWAL® DW232PA Membranes



For good pressure equalization and appropriate burst:

1. Using your design criteria for temperature change over time for normal venting operation, the size of the vented enclosure, and your enclosure’s designed maximum pressure, use the Airflow vs. Pressure graph to determine which venting material best fits your needs. Higher airflow enables better equalization.
2. Use the Deflection vs. Pressure graph to find the deflection of your chosen vent material from Step 1, and your enclosure designed maximum pressure to predict your burst pin placement, less than the predicted deflection.
3. Test your design.

Example:

You have a 10-liter enclosure that will normally see a 27 C temperature change over an hour, and your enclosure can withstand .5 kPa pressure. You will need 1 liter/hr airflow (10 liters x 27/273 C).

Step 1: DeWAL® DW232PA-10 will allow 1 liter/hr airflow without exceeding the .5 kPa maximum.

Step 2: DeWAL® DW232PA-10 will deflect by 3mm (in a 38mm diameter vent). The burst pin should be placed closer than 3mm to the membrane.