How to guide

PERFORMING A CENTRE-PIVOT PRESSURE CHECK

HELPFUL HINT

Given the size and complexity of some farm irrigation systems, it may take up to 15 minutes to reach operating pressure.

- Use a simple pressure gauge (with a range of 0-400kPA or 58PSI) and screw onto drop tube above the pressure regulator.
- Move pivot to the highest point on the field.
- Measure pressure at the last drop tube above the regulator, as per photo.
- The pressure displayed on the gauge must be 5PSI (or 34.4kPa) higher than the regulator pressure.
- The table below outlines the required pressure for different models of pressure regulators.

Pressure regulator fitted	End pressure required at high point on field (above regulator)
10PSI	15PSI or 103.4kPa
15PSI	20PSI or 137.8kPa
20PSI	25PSI or 172.3kPa
25PSI	30PSI or 206.8kPa

- If the last span of the pivot is not at the highest point, you can apply a correction factor.

  1 meter of head to kPa = 9.80kPa. Therefore, If you are 3m lower in elevation than the highest point when completing the pressure check, there needs to be an additional (3 x 9.80kPa = **29.4kPa**) displayed on the gauge, to ensure there is sufficient pressure at the highest point.

Pressure being measured above the regulator on the last drop tube

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