

## Appendix 1

### Conclusions from test report

JKF's duct system has been tested to establish its strength. System stability has been established by performing an internal water pressure test. The test was performed by JKF under the auspices of the Danish Technological Institute (material test).

### Resistance up to overpressure of 9 bar

Ducts and assemblies 2 and 3 mm thickness with welded flanges and flat gaskets up to a diameter of 600 mm.

Ducts up to L = 2000 mm

Galvanised ducts and assemblies 0.9 mm thickness with loose flanges and flat gaskets up to a diameter of 400 mm.

Ducts up to L = 2000 mm

### Resistance up to overpressure of 6 bar

Ducts and assemblies 2 and 3 mm thickness with welded flanges and flat gaskets of diameter 600 mm up to 800 mm.

Ducts up to L = 2000 mm

### Resistance up to overpressure of 3 bar

Galvanised ducts and assemblies 0.75 mm thickness with 1 pull ring and U-shaped gasket or rapid lock pull rings with U-shaped gasket up to a diameter of 200 mm.

Ducts up to L = 2000 mm

Bends 30° up to 90°

### Resistance up to overpressure of 1.5 bar

Galvanised ducts and assemblies 0.9 mm thickness with 1 pull ring and U-shaped gasket or rapid lock pull rings with U-shaped gasket up to a diameter of 400 mm.

Ducts up to L = 2000 mm

To ensure assemblies are tight, screws have to be tightened correctly (torque setting 25 Nm). Using a loose flange assembly, M10 (M12) screws have to be tightened to 40 Nm (60 Nm). The entire duct system must be checked regularly for wear and corrosion to ensure its integrity. Worn components must be replaced.

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