



Bucket Leveling System

MCW105, KVF

BLN-95-9018-3

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DESCRIPTION

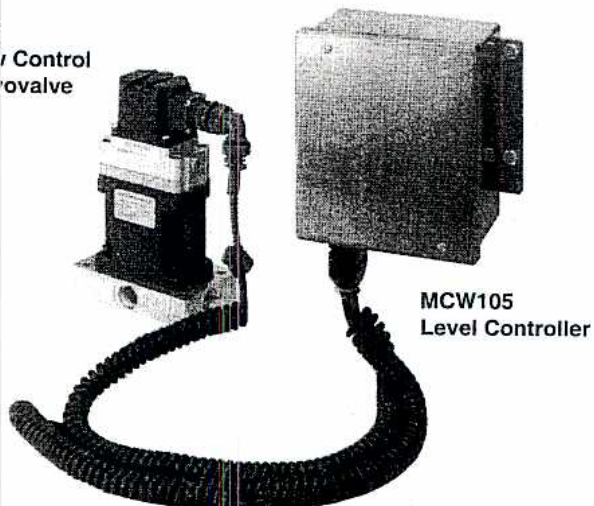
The Danfoss Bucket Levelling System consists of a KVF Flow Control Servovalve and an MCW105 Level Controller containing a level sensor and valve driver. The system is intended for leveling control of buckets on aerial lifts and truck cranes.

The DC Hall Effect Level Sensor electromagnetically measures the deviation of the Sensor from a gravity reference. The mechanism is a pendulous mass having freedom of movement in one plane about a fixed center point.

The Valve Driver produces a pulse width modulated output proportional to the input signal from the Sensor. Calibration potentiometer adjusts the output gain and neutral deadband. The unit is contained within a metal enclosure.

The Flow Control Servovalve is a two stage electrohydraulic Servovalve. It provides true proportional servo control with response suitable for precision application. The Servovalve is available in a range of flows to meet most applications.

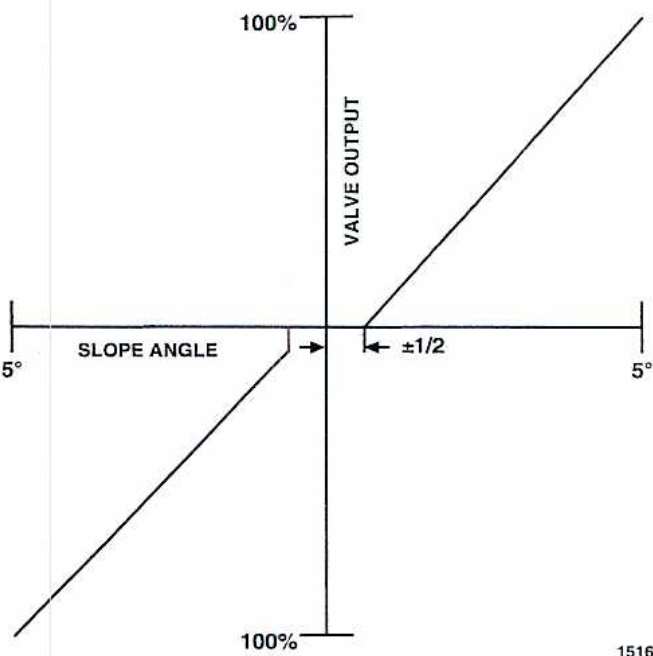
KVF
Flow Control
Servovalve



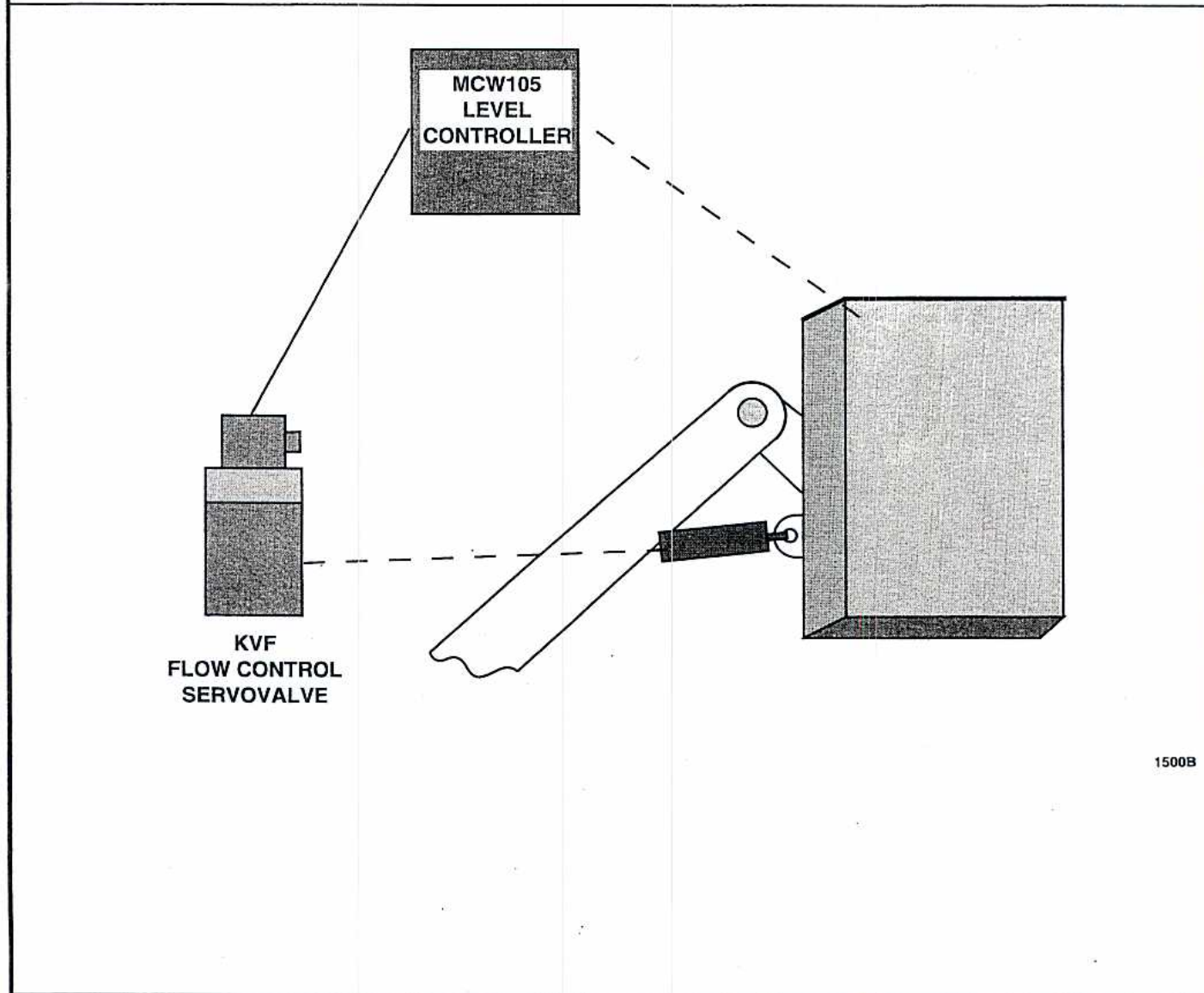
MCW105
Level Controller

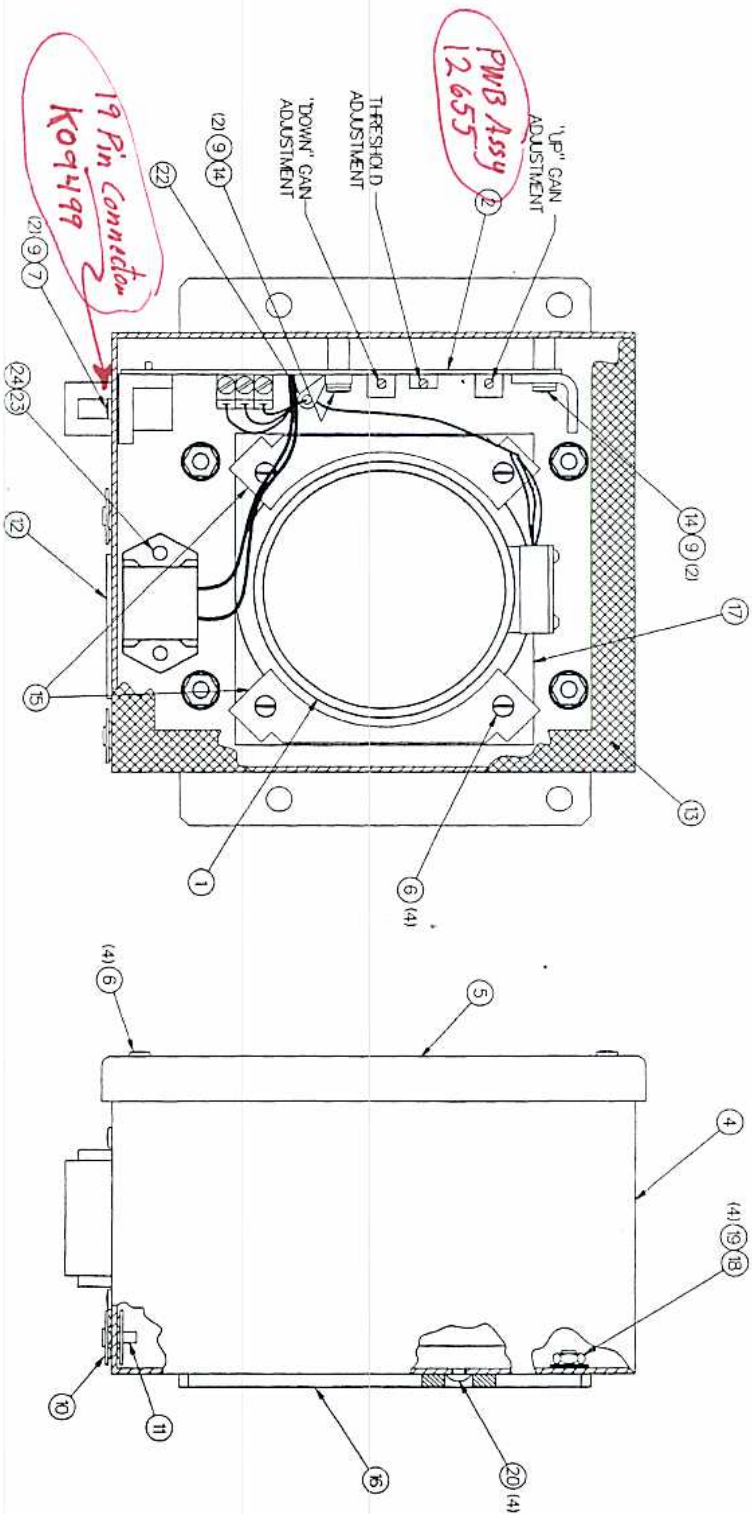
COMPONENTS AND ACCESSORIES

- MCW105, Level Controller
- KVF Flow Control Servovalve
- Valve manifold
- Valve adapter plates
- Enclosures
- Cables

RATINGS	TYPICAL CURVE
<p>SUPPLY VOLTAGE 12/24 Vdc</p> <p>NEUTRAL DEADBAND $\pm 1/2^\circ$</p> <p>INPUT RANGE TO SATURATION $\pm 5^\circ$</p> <p>OUTPUT FLOW Depends on valve selection, 2.5 gpm to 10.0 gpm at 5° input.</p>	 <p>100%</p> <p>VALVE OUTPUT</p> <p>100%</p> <p>5° SLOPE ANGLE 5°</p> <p>$\pm 1/2$</p> <p>1516</p>

BLOCK DIAGRAM





VIEW SHOWN WITHOUT COVER