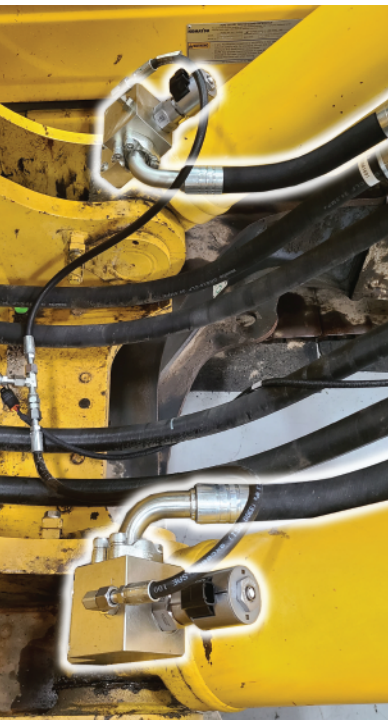
HYDRAULIC KITS
ENGINEERED SOLUTIONS

ELECTRONIC LOAD HOLD/HOSE BURST KIT

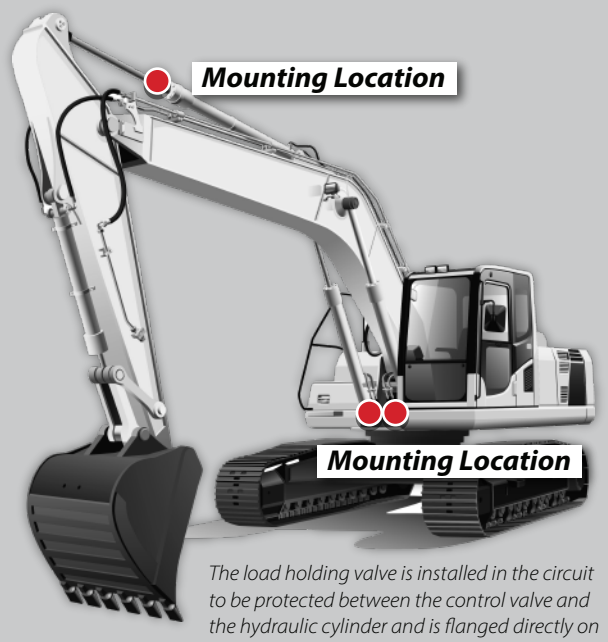



IMPROVED OVERALL EFFICIENCY

ELECTRONIC LOAD HOLD AND HOSE BURST KITS

Improve excavator performance in lift applications where loads need to be held for extended periods of time and where extra precision is required. HKX's kit solution utilizes an electrohydraulic valve designed with superior Load-Hold Capability, Overload Relief, Hose Burst Protection, and Best in Class Controllability.

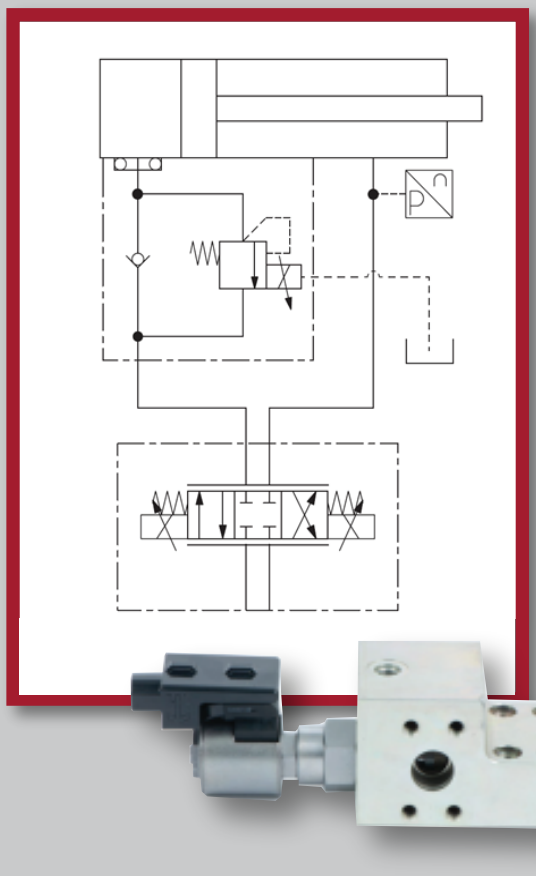
- Controls the load at the cylinder base by electronically monitoring the resistance to movement of the incoming fluid on the rod.
- Rod side pressure is used to determine downward force. System adjusts the ratio to maintain stability and pressure setting for optimal efficiency.
- HKX's solution varies both pilot ratio and relief pressure dynamically throughout the operating cycle. This results in a lower pressure drop when compared to counterbalance valves or hydraulically piloted boom lock valves.



The load holding valve is installed in the circuit to be protected between the control valve and the hydraulic cylinder and is flanged directly on the hydraulic cylinder part.

- **Complete kit & installation instructions ensure a quick & easy install.**
- **Electronic Controlled.**
- **Relief protection against overloads.**
- **Prevents un-commanded boom & arm movement.**
- **Electrohydraulic emergency lower.**
- **Complies with hose burst requirements of standards DIN 24093, ISO 8643 & EN 474.**

Electronic Load Hold Circuit



HYDRAULIC SYSTEMS

ENGINEERED SOLUTIONS

Electrohydraulic control in boom and arm cylinder lock valves serve several purposes. First, as the industry moves toward electronic pilot control as a standard, HKX electronic valve solutions provide an avenue for integration into these systems without cumbersome and costly work arounds. Second, electrohydraulic control provides opportunities for gaining efficiency and energy savings that cannot be achieved with piloted systems. Third, the HKX on-board electronics play a significant role in system performance, allowing for complete control of feel and performance. Finally, the HKX solution eliminates the need for operator input to control a falling load in the event of a hose rupture, further enhancing worker safety.

- **Consistent and Improved Operator Feel**
- **No Boom Drift**
- **Reduced Power Loss**
- **Energy Recovery for Hybrid Systems**
- **Meets ISO 8643 hose-burst testing requirements**

HKX SOLUTION CONFIGURATION

- **Attached directly to the boom cylinder(s) via Code 61 or Code 62 flange mount.**
- **Pressure sensor feeds rod-end pressure to the control unit.**
- **Check valve allows free flow into the base end of the cylinder when raising**
- **When lowering, the proportional pressure relief valve meters flow out at a pressure set by the control unit.**

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