

GDR Hydraulic/Rotation Maintenance

HYDRAULIC REQUIREMENTS

Operating the attachment below the recommended flow and/or pressure range will adversely affect performance and may damage the rotate motor.

Operating the attachment above the recommended flow and/or pressure range may damage the attachment and its hydraulic components.

Model	Flow	Pressure
150	25-40 GPM (95-151 LPM)	4500-5500 PSI (310-380 Bar)
200	40-60 GPM (151-227 LPM)	
300	60-100 GPM (227-379 LPM)	
400	80-100 GPM (303-379 LPM)	

ROTATION VALVE INPUT

For cooler and more efficient hydraulic system operation, set the input pressure and flow as indicated in the chart. The attachment rotation speed should be 3 - 4 RPM. Exceeding 4 RPM will result in rotation component damage.

The maximum case drain pressure measured at the shear while rotating and cycling the jaws must never exceed 40 PSI. Pressure increases during cold-weather operation.

Model	Flow	Supply Pressure	Crossover Relief
150	3-5 GPM (11-19 LPM)	1500-1700 PSI (103-117 Bar)	2200 PSI (152 Bar)
200			
300			
400	7-11 GPM (26-42 LPM)	1900-2100 PSI (131-145 Bar)	

GENFLOW REGENERATION VALVE

A regeneration valve features a GenFlow adjustment cartridge to control the timing of the shift between speed and power modes. When the cartridge is properly set, the processor closes rapidly until it begins to cut. The valve shifts, slowing jaw close and increasing power. You may hear a squeal or hiss as this happens. The valve shifts back into speed mode after the cut is complete.

The cartridge is factory-set, turned out approximately five turns. This setting is appropriate for most applications. However, the cartridge may be custom-set if necessary.

REGENERATION VALVE ADJUSTMENT

Regeneration valve adjustment is a two-person job. The ground crew must be in full view of the operator at all times and must stand clear of the processor jaws when cycling.

Check the cycle time when the hydraulic fluid is warmed up, timing from full open to full closed and back to full open.

To shift into power mode sooner, turn adjustment cartridge out (counter-clockwise). To shift into power mode later, turn in (clockwise).

Loosen the lock nut with a 9/16" socket.

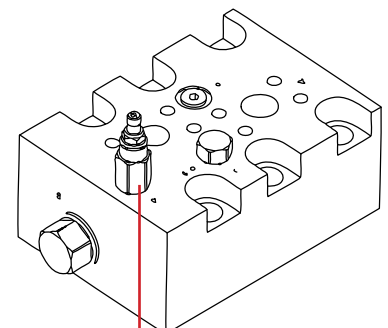
Turn cartridge 180° (half-turn, 145 PSI) with a 5/16" allenhead socket.

Tighten lock nut. Check the cycle time.

Repeat until the preferred balance of speed and power is met. Final adjustment may require less than a half-turn.



View Adjustment Cartridge



Adjustment Cartridge

NOTICE

Shut off the excavator and disable the hydraulics per OEM instructions before adjusting the cartridge.

This document is a quick reference only. It does not replace the product safety and operator's manuals, which must be followed by all operators and maintenance personnel.