



Service
Note



N0203024
2002-12

Subject: Shock Valves for Hydro-Gear BDP10A and BDP10L Hydraulic Pumps.

Effected Model Numbers: All Commercial Turf Care ZTH Riders including the Gen One.

Service Information:

Pressure relief "Shock Valves" have been added in production to all BDP10A hydraulic pumps. Shock valves can also be added to most existing BDP10A Pumps (late Generation II and all iZ's) and to all BDP10L Pumps (all Generation I, early Generation II, and all Mini's). Shock valves have been added as a product improvement, and installation of these valves on units without them does not qualify for warranty.

Parts Information:

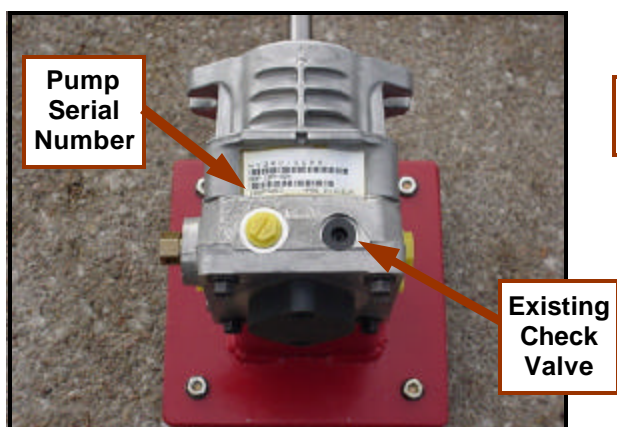
Shock valves can be ordered under the following part numbers. Valve kits contain only one shock valve and instructions, so two kits per pump are required for each unit being upgraded.

P/N 539108169 SHOCK VALVE KIT, .031 ORIFICE - Base Price \$25.00

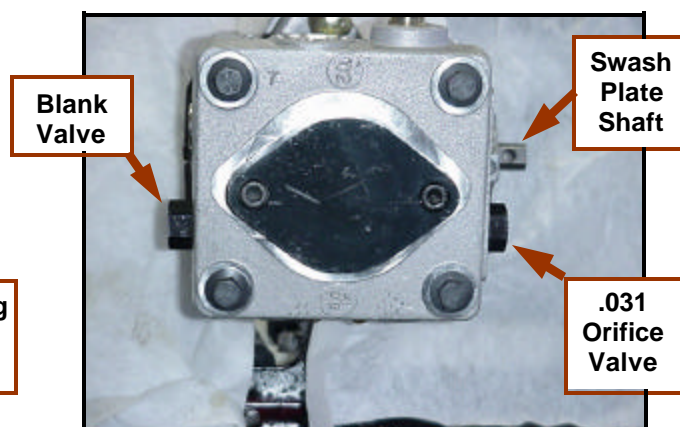
P/N 539108170 SHOCK VALVE KIT, Blank - Base Price \$25.00

IMPORTANT: BDP10A Pumps prior to Hydro-Gear S/N 1274Pxxxx CANNOT be fitted with shock valves.

NOTE: BDP10A Pumps require two each of the above kits. The blank valve is installed in the front of the pump body, on the opposite side from swash plate shaft. Shock valves are installed in the current check valve ports in the Hydro-Gear hydraulic pump. See instruction sheet 539108184 found in each kit.



Pump Serial Number Identification



Shock Valves Installed in BDP10A Pump

NOTE: BDP10L Pumps require .031 Orifice Shock Valve Kits in both check valve ports.



Hydro-Gear Hydraulic Pumps

Pressure Relief (SHOCK VALVE) Installation Instructions

Gen I, Gen II, iZ and Mini Riding Mowers

Raise the rear of the unit and place it on stable jack stands. Engage the parking brake and raise the operator's seat to expose the hydraulic pumps.

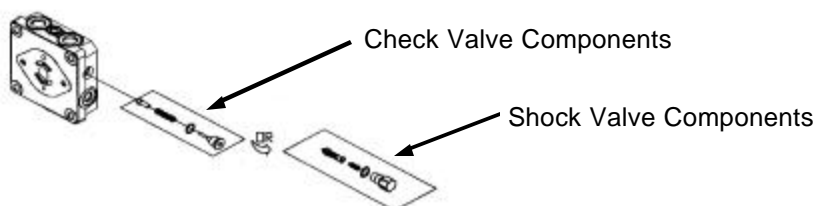
NOTE: BDP10A pumps prior to Hydro-Gear PUMP Serial Number 1274Pxxxx CANNOT be fitted with shock valves. See Husqvarna Service Note N0203024 for information on how to identify pumps.

Using a 6mm apex (allen wrench), identify and remove both check valves from one of the hydraulic pumps. Some oil will leak, so place a drain pan beneath the pump being disassembled. In some cases, the pump may have to be loosened.

IMPORTANT: Make sure all 4 parts of the check valve are removed. They are the check plug stem, the stem o-ring, the check spring, and the check poppet or ball.

BDP10A: Install a .031 Orifice Shock Valve (P/N 539108170) in the check valve port on the same side of the pump as the swash plate shaft. Install a Blank Shock Valve (P/N 539108169) in the opposite check valve port.

BDP10L: Install .031 Orifice Shock Valves (P/N 539108170) in both check valve ports on this pump.



Torque shock valves to 180 - 240 in. lbs. (14-20 N.m) Repeat instructions on the other hydraulic pump.

IMPORTANT: Air will have been introduced during shock valve installation. Following instructions found on Husqvarna Service Bulletin B0103002, completely purge air from the hydraulic system.

Raise the unit and remove the jack stands.

