

HYDRAULIC/HYDROSTATIC SCHEMATIC

B250 "B SERIES"

(S/N 572211001 AND ABOVE)

(PRINTED DECEMBER 2003)

V-0360legend

LEGEND

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| <p>① HYDRAULIC RESERVOIR
Capacity 54 Qts. (51 L)</p> <p>② SCREEN (Suction)
W/By-Pass 4 PSI (0.28 kBar)</p> <p>③ HYDRAULIC FILTER ELEMENT</p> <p>④ FILTER BY-PASS 36 PSI (2.5 kPa)</p> <p>⑤ DIFFERENTIAL PRESSURE SWITCH
Normally Closed</p> <p>⑥ CHARGE BUILD-UP</p> <p>⑦ BREATHER/FILL CAP</p> <p>⑧ OIL COOLER</p> <p>⑨ RELIEF VALVE 2465 PSI (170 Bar)</p> <p>⑩ PORT RELIEF VALVE
TILT CYLINDER (Rod & Base) 4060 PSI (280 Bar)</p> <p>⑪ PORT RELIEF VALVE
AUXILIARY (Male & Female) 3625 PSI (250 Bar)</p> <p>⑫ PORT RELIEF VALVE
BACKHOE SWING CYLINDER (Rod & Base)
2320 PSI (160 Bar)</p> <p>⑬ PORT RELIEF VALVE
BACKHOE BOOM CYLINDER (Rod & Base)
4060 PSI (280 Bar)</p> <p>⑭ PORT RELIEF VALVE
BACKHOE BUCKET CYLINDER (Rod)
3480 PSI (240 Bar)</p> <p>⑮ ORIFICE (Boom Rod) 0.12 inch (3,0 mm)</p> <p>⑯ LOAD CHECK VALVE (2)</p> <p>⑰ PORT RELIEF VALVE
BACKHOE ARM CYLINDER (Rod & Base)
4060 PSI (280 Bar)</p> <p>⑱ ORIFICE (Lift Base) 0.15 inch (3,7 mm)</p> <p>⑲ RELIEF/REPLENISHING VALVE - HIGH
PRESSURE 3625 PSI (250 Bar)</p> <p>⑳ RELIEF VALVE - Charge Pressure
377 PSI (26 Bar)</p> | <p>㉑ CHARGE PUMP
8.2 GPM (31,05 L/min) at 3000 RPM</p> <p>㉒ SHUTTLE VALVE - Control Pressure</p> <p>㉓ RELIEF VALVE - Control Pressure</p> <p>㉔ SHUTTLE RELIEF VALVE</p> <p>㉕ DRIVE MOTOR SHUTTLE VALVE</p> <p>㉖ NEUTRAL PRESSURE SWITCH</p> <p>㉗ TOW VALVE</p> <p>㉘ PRIORITY VALVE - Steering</p> <p>㉙ RELIEF VALVE</p> <p>㉚ RELIEF VALVE (2)</p> <p>㉛ VARIABLE CAPACITY DISPLACEMENT BI-
DIRECTIONAL HYDROSTATIC PUMP</p> <p>㉜ SERVO PISTON - Swash Plate</p> <p>㉝ ORIFICE - 0.04 inch (1,0 mm)</p> <p>㉞ GEAR PUMP
11,76 GPM (44,6 L/min) at 3000 RPM</p> <p>㉟ SOLENOID ACTIVATED DIRECTIONAL CONTROL
VALVE - SAPR BRAKE</p> <p>㊱ SAPR BRAKE - SPRING APPLIED - HYDRAULIC
PRESSURE RELEASE</p> <p>㊲ SOLENOID ACTIVATED DIRECTIONAL CONTROL
VALVE - FRONT AUXILIARY COUPLERS</p> <p>㊳ CHECK VALVE</p> |
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NOTE: Unless otherwise specified
springs have NO significant
pressure value.