



The accumulator sense, pump unload pilot valve is used to sense pressure in an accumulator at port 2 of the valve and when the pressure at port 2 reaches the valve setting, port 3 connects to port 4 to vent a relief valve and unload the pump. This valve has a 50% ratio between unload setting and reset; when pressure at port 2 falls below 50% of the valve setting, port 3 is blocked from port 4 and the pump will come back online to recharge the accumulator. The integral free-flow check valve is suitable for pump flows up to 12 gpm (50 L/min). For higher capacity pumps, another version of accumulator sense, pump unload cartridge, QPAD, which requires a separate check cartridge is available.

TECHNICAL DATA NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

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|--|---------------------------|
| Maximum Operating Pressure | 5000 psi |
| Check Cracking Pressure | 4 psi |
| Pilot Flow Capacity | 46 in ³ /min. |
| Pressure Drop, Port 1 to Port 2 | 100 psi@15 gpm |
| Adjustment - No. of CW Turns from Min. to Max. setting | 5 |
| Locknut Hex Size | 9/16 in. |
| Locknut Torque | 80 - 90 lbf in. |
| Seal kit - Cartridge | Buna: 990-021-007 |
| Seal kit - Cartridge | Polyurethane: 990-021-002 |
| Seal kit - Cartridge | Viton: 990-021-006 |

CONFIGURATION OPTIONS

Model Code Example: QCDDLAN

CONTROL

(L) ADJUSTMENT RANGE

(A) SEAL MATERIAL

(N)

- L Standard Screw Adjustment
- C Tamper Resistant - Factory Set
- K Handknob

- A 1000 - 3000 psi (70 - 210 bar), 1000 psi (70 bar) Standard Setting

- N Buna-N
- V Viton