



Vented, load reactive load control valves with pilot assist combine two valves; a check valve and a relief valve. The check valve allows free flow from the directional valve (port 2) to the load (port 1) while a direct-acting, pilot-assisted relief valve controls flow from port 1 to port 2. Pilot assist at port 3 lowers the effective setting of the relief valve at a rate determined by the pilot ratio. Backpressure at port 2 does not affect the valve setting because the spring chamber references the vent (port 4).

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

Maximum Operating Pressure	5000 psi
Pilot Ratio	1.5:1
Maximum Recommended Load Pressure	See Technical Features
Adjustment - No. of CCW Turns from Min. to Max. Setting	9
Check Cracking Pressure	25 psi
Factory Pressure Settings Established at	2 in <sup>3</sup> /min.
Maximum Valve Leakage at Reseat	5 drops/min.
Reseat	≥77% of setting
Locknut Hex Size	9/16 in.
Locknut Torque	80 - 90 lbf in.
Seal kit - Cartridge	Buna: 990-023-007
Seal kit - Cartridge	Polyurethane: 990-023-002
Seal kit - Cartridge	Viton: 990-023-006

**CONFIGURATION OPTIONS**

**Model Code Example: MWGBLHNV**

**CONTROL**

(L)

**FUNCTIONAL SETTING RANGE**

(H)

**SEAL MATERIAL**

(N)

**MATERIAL/COATING**

**L** Standard Screw Adjustment

**H** 1000 - 4000 psi (70 - 280 bar), 3000 psi (210 bar) Standard Setting

**N** Buna-N

Standard Material/Coating

**J** 2000 - 5000 psi (140 - 350 bar), 3000 psi (210 bar) Standard Setting

**V** Viton

**IAP** Stainless Steel, Passivated