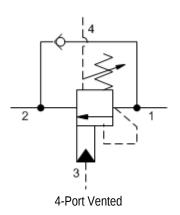
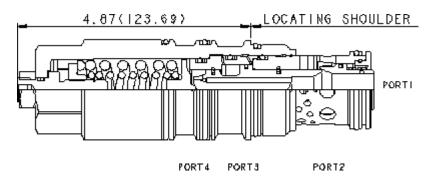
Vented, 4.5:1 pilot ratio, load reactive, load control valve

CAPACITY: 120 gpm / CAVITY: T-24A



sunhydraulics.com/model/MWIG





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.

| Cavity | T-24A |
|---|---------------------------|
| Series | 4 |
| Capacity | 120 gpm |
| Maximum Operating Pressure | 5000 psi |
| Pilot Ratio | 4.5:1 |
| Maximum Recommended Load Pressure | See Technical Features |
| Adjustment - No. of CCW Turns from Min. to Max. Setting | 8.5 |
| Check Cracking Pressure | 25 psi |
| Factory Pressure Settings Established at | 2 in³/min. |
| Maximum Valve Leakage at Reseat | 5 drops/min. |
| Reseat | ≥77% of setting |
| Valve Hex Size | 1 5/8 in. |
| Valve Installation Torque | 350 - 375 lbf ft |
| Adjustment Screw Internal Hex Size | 7/32 in. |
| Locknut Hex Size | 3/4 in. |
| Locknut Torque | 25 - 30 lbf ft |
| Seal kit - Cartridge | Buna: 990-024-007 |
| Seal kit - Cartridge | Polyurethane: 990-024-002 |
| Seal kit - Cartridge | Viton: 990-024-006 |

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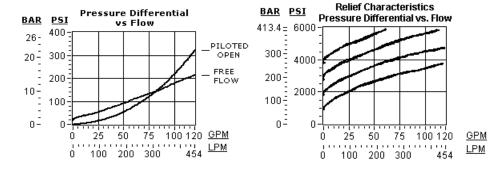
OPTION SELECTION EXAMPLE: MWIGLHN



TECHNICAL FEATURES

- Set at least 1.3 times the maximum load induced pressure (1.5 times when the setting is less than 2000 psi or 140 bar).
- The maximum recommended load pressure for the H range is 3080 psi (212 bar).
- The maximum recommended load pressure for the J range is 3850 psi (265 bar).
- Turn adjustment clockwise to decrease setting and release load.
- Full clockwise setting is 1000 psi (70 bar) for the H range and 2000 psi (140 bar) for the J range.
- These valves are capable of modulating over a broader range of flows than the pure poppet designs. The longer stroke allows us to incorporate a uni-directional damping device that smooths the opening and lets the valve close guickly.
- This valve is functionally a 4-port counterbalance valve. It seats as a poppet valve and modulates as a spool valve, offering the best of both valve types.
- All 4-port counterbalance, load control, and pilot-to-open check cartridges are physically interchangeable (i.e. same flow path, same cavity for a
 given frame size).
- Corrosion resistant cartridge valves are intended for use in corrosive environments and are identified by the model code suffix /AP for external stainless steel components, or /LH for external zinc-nickel plated components. See the CONFIGURATION section for all options. For further details, please see the Materials of Construction page located under TECH RESOURCES.
- Sun load control and counterbalance cartridges can be installed directly into a cavity machined in an actuator housing for added protection and improved stiffness in the circuit.
- This valve has positive seals between all ports.
- · This valve has full relief capacity.
- Incorporates the Sun floating style construction to minimize the possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge machining variations.

PERFORMANCE CURVES



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