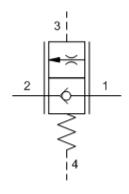
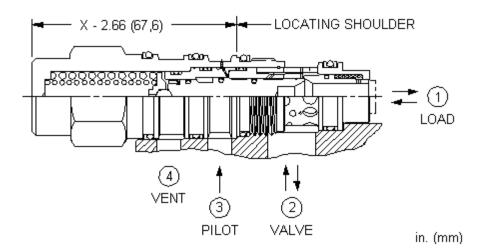
Vented, balanced, load control valve

CAPACITY: 30 gpm / CAVITY: T-22A



sunhydraulics.com/model/MWEM





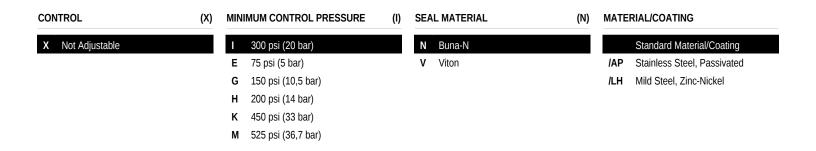
Vented, balanced load control valves combine a balanced modulating element with a reverse flow check. The check valve allows free flow from the directional valve (port 2) to the load (port 1) while the pilot to open modulating element controls flow from port 1 to port 2. Pilot pressure at port 3 determines the flow setting. Backpressure at port 2 does not affect the flow setting because the spring chamber references the vent (port 4).

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

T-22A	
2	
30 gpm	
5000 psi	
25 psi	
See Technical Features	
1 1/8 in.	
45 - 50 lbf ft	
Buna: 990-022-007	
Polyurethane: 990-022-002	
Viton: 990-022-006	

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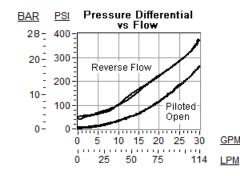
OPTION SELECTION EXAMPLE: MWEMXINV

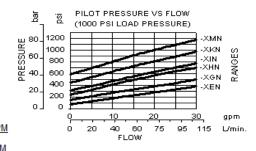


TECHNICAL FEATURES

- This valve has no relief function. Not even thermal expansion relief.
- Maximum valve leakage at reseat for I, K, M ranges is 5 drops/min. (0,3 cc/min.) at 200 psi (14 bar) below cracking pressure; E and G ranges is 3 cubic in/min. (50 cc/min.) at 50 psi (3,5 bar) below cracking pressure; H range is 3 cubic in/min. (50 cc/min.) at 75 psi (5 bar) below cracking pressure.
- E, G, H ranges are not meant for zero leak type applications.
- This valve is balanced against load pressures and therefore exhibits self-compensation. Flow is controlled by the pilot pressure. Because of dynamic seals, performance is best in the meter out mode with port 1 being the load and port 2 being tank.
- 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).
- This valve is a physical replacement for a counterbalance valve but probably won't work well in a cross-piloted cylinder application. A low pilot ratio is needed for machine stability and a balanced load control has an infinitely high pilot ratio.
- Applications that use a separate pressure source to the pilot have been successful in providing smooth and stable load control.
- 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.
- 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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