# WINMAN

### WINMAN RELIEF VALVES

### WVR0.M28 Valve Series



METRIC Cartridge - 420 bar Pilot Operated - Poppet Type

#### Description

A screw-in, cartridge style, pilot operated (2-stage), poppet type, normally closed, hydraulic relief valve. When the pressure at the Inlet (1) reaches the valve setting, the pilot poppet starts to open from it's seat and determines the shifting of the main stage poppet that throttles oil flow to tank (2).

The cartridge offers smooth transition in response to load changes in demanding hydraulic circuits. Smooth response, reduced pressure rise and limited hysteresis.

#### **Technical Features**

All external surfaces are zinc plated and corrosion-proof.

All valve parts are made of high strength steel. Poppets are hardened and micron finished in order to guarantee minimal wear and to extend service life.Adjustment screw cannot be backed out of the valve. Spring ranges up to 420 bar (6100 psi) Back pressure on the tank port (port 2) is directly additive to the valve setting at a 1:1 ratio. Metric cavity.







#### **Technical Data**

Maximum operating pressure: 420 bar

Maximum flow: 250 l/min

Maximum internal leakage: 1.0 cc/min @ 100 bar

Factory pressure settings established @ 10 l/min

Reseat pressure: nominal 90% of crack pressure

Temperature: -30°C to 110°C

Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 7.4 to 420 cSt

Orientation: no restrictions

Installation torque: 90-100 Nm Seal kit code: SK.050

Weight: 0.265 kg

NOTE: The performance chart illustrates flow handling capacity at Various setting.

P/Q curves are recorded at TOil = 40°C and 46 cSt

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