WINMAN

WINMAN PO RELIEF VALVES

WVQ0.S10 Valve Series



SAE10 Cartridge - 420 bar Pilot Operated - Spool Type

Description

A screw-in, cartridge style, pilot operated (2-stage), spool 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 (spool type) that throttles oil flow to tank (2).

The cartridge offers smooth transition in response to load changes in demanding hydraulic circuits. Fast, smooth response and limited hysteresis.

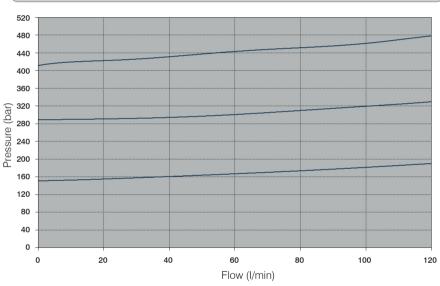
Technical Features

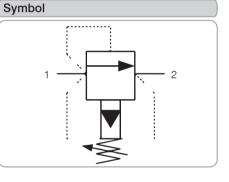
All external surfaces are zinc plated and corrosion-proof.

All valve parts are made of high strength steel. Spool and cage 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. Optional spring ranges 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. Industry common cavity.

Note: Standard sealing NBR (BUNA-N)

Performance Details



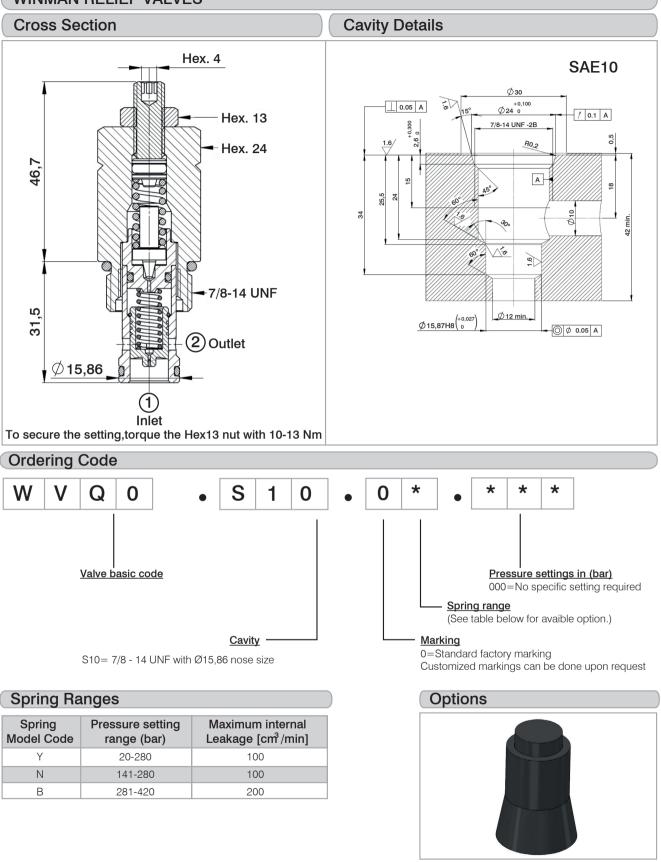


Technical Data

Maximum operating pressure: 420 bar Maximum flow: 120 l/min Maximum internal leakage checked @ 80% of nominal set point: please see the table in the next page Factory pressure settings established @5 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: 55-65 Nm Seal kit code: SK.052 Weight: 0.207 kg NOTE: The performance chart illustrates flow handling capacity at maximum setting for each spring range option. P/Q curves are recorded at TOil = 40°C and 46 cSt

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Plastic tamper proof cap. Ordering code:CTP.003