# PO Relief and Anti-cavitation Valves

### **RVP0.M20 Valve Series**

### **METRIC Cartridge - 420 bar**

### **Pilot Operated with anticavitation - Poppet Type**

#### Description

The RVP valve combines in one compact cartridge the typical function of relief valve and anticavitation through the check valve.

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

In the free reverse flow function a light bias spring allows for ease of flow passage from side to nose (2 to 1).

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.

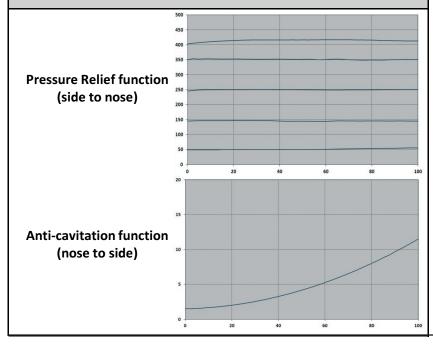
Spring range up to 420 bar (6100 psi).

Back pressure on the tank port (port 2) is directly additive to the valve setting at a 1:1 ratio.

Warning: Adjustment screw doesn't have a positive stop wich prevents it from being backed out of the valve.

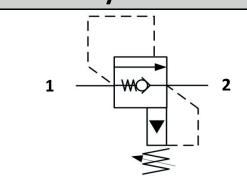
Metric cavity.

# **Performance Details**





## **Symbols**



#### Technical Data

Maximum operating pressure: 420 bar

Maximum flow: 100 l/min

Maximum internal leakage: 1 cc/min @ 100 bar Factory pressure settings established @ 10 l/min Reseat pressure: nominal 90% of crack pressure

Anti-cav cracking pressure: < 2 bar Temperature: -30°C to 110°C

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

420 cSt

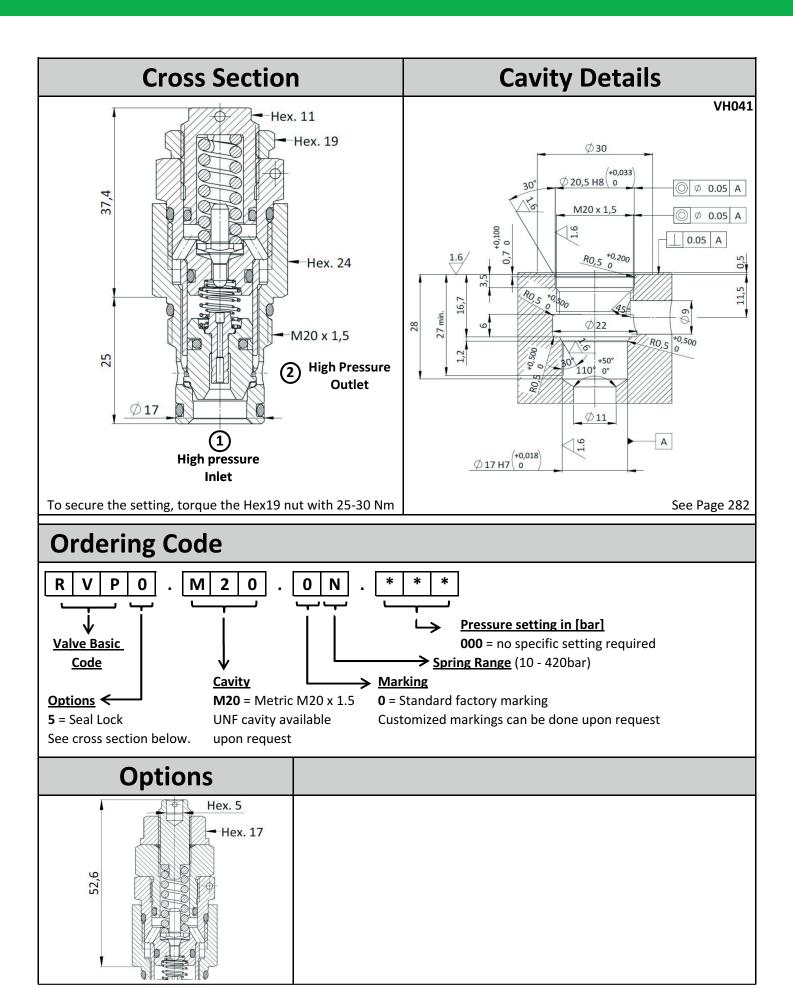
Orientation: no restrictions Installation torque: 45-55 Nm

Seal kit code: SK.053 Weight: 0.139 kg

NOTE: The performance chart illustrates flow

handling capacity at various settings.

P/Q curves are recorded at T<sub>Oil</sub> = 40°C and 46 cSt



Specifications may change without notice.