

# Pressure Relief Valves – Dual Pressure Settings and Unloading

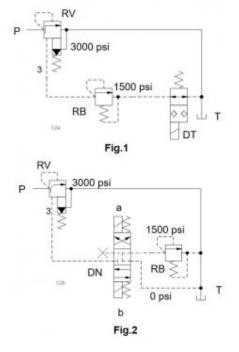
Machine: | Actuator: Pump | Function: Pressure

Prepared for :	Prepared by :

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### **Schematics**

## Summary



#### **Related Products**

#### **Cartridges**

RVBA - Ventable, pilot-operated, balanced piston relief valve DNDC - 4-way, 3-position, solenoid-operated directional spool valve

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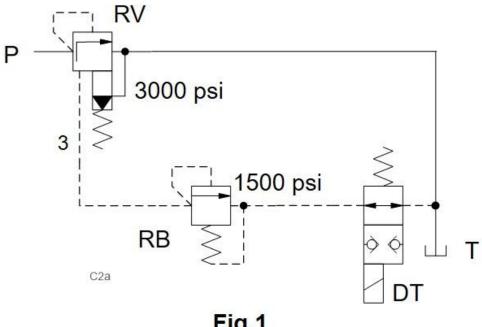


Fig.1

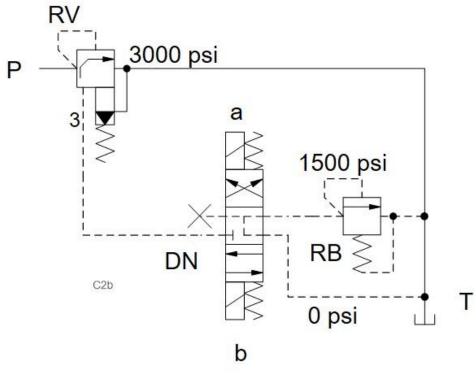


Fig.2

The examples show ventable relief valves used to either fully unload the pressure in a system, or reduce the maximum pressure setting.

Ventable relief valves: RV\*A, RBAE, RV\*T

• Directional control valves: DN\*C

Benefits of this circuit arrangement:

• Fig.1 shows a ventable pressure relief valve RV\*A. Port 3 sees a pilot relief valve RBAE with a setting (1500 psi) below the setting (3000 psi) of the RV\*A. The system pressure falls to the RBAE setting when DTDA opens. The spool-type valve RV\*A can be replaced with a poppet type RV\*S.

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- Fig. 2 shows a ventable anti-shock relief valve RV\*T. A 3/4-way valve DNDC-XYN in the vent line 3 of the RV\*T offers the following options:
- a) Sets the RV\*T to 3000 psi in its de-energized state
- b) Sets the RV\*T to 1500 psi by enerizing solenoid A
- c) Vents RV\*T to tank with 0 pressure setting by energizing solenoid B  $\,$

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