



Relief Valve

Brass with NBR seals



Photograph for guidance only—appearance may vary

FEATURES

- Pressure Relief Valve for use with Cat Pumps high-pressure positive displacement pumps.
- Commonly used as a Secondary Pressure Protection Device in conjunction with a Pressure Regulator Valve or Regulating Unloader Valve.
- By-passes pump flow in the event of a component or system failure, or user error.

BENEFITS

- Provides additional protection for pump and system against over-pressure damage.
- Can provide required safety protection in accordance with the CE Pressure Equipment Directive (PED) and Safety of Machinery Directive (subject to full Risk Assessment and Certification).
- This is not a Safety Valve according to PED.

Model

39440

SPECIFICATIONS

Pump Flow rate - maximum	24 L/min
Pump Flow Rate - minimum	8 L/min
Relief (Set) Pressure* - maximum	240 bar
Relief (Set) Pressure* - minimum	130 bar
Maximum Liquid Temperature (Intermittent)	60 °C
Maximum Liquid Temperature (Continuous)	40 °C
Inlet ports (1) size	3/8" NPTM
By-Pass (1) size	
Weight	140 g
Product Dimensions L x W x H	9 x 3 x 3 cm

APPLICATIONS

- Pressure washing
- Vehicle cleaning
- Water Mist Cooling, Odour Control and Dust Suppression
- Hydrostatics and Hydraulics
- Most high-pressure pump systems

SELECTION

* Typically the valve will need to be set 15% above the desired system working pressure.

Select the correct Relief Valve to suit the maximum pump & system flow rate and relief pressure.

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INSTALLATION GUIDELINES FOR PRESSURE RELIEF VALVES

Cat Pumps high-pressure pumps are designed and manufactured to exceptionally high quality standards and have an unequalled reputation for reliability and long life. The most common cause of pump failure is not the pump itself, it is poor installation. A good pump will not perform well if it is badly installed. If in doubt, always ask for advice. This document does not over-rule specific instructions provided elsewhere.

⚠ It is the user's responsibility to carry out the necessary risk assessment and ensure that a suitable secondary protective device is fitted, such as a Pressure Relief Valve, to assure pump protection e.g. should the primary Pressure Regulator or Unloader Valve malfunction. Failure to install such relief devices could result in personal injury or damage to the pump or to system components. Cat Pumps does not assume any liability or responsibility for the design, installation and operation of a customer's high pressure system.

⚠ CAUTION – Take care to work safely in accordance with good practice. Ensure all installations meet all relevant safety rules, laws, directives, standards, regulations and codes of practice. All work must be carried out by competent people who are appropriately trained and qualified.

Installation when used as a Relief Valve

This Relief Valve may be mounted in any orientation. It must be fitted as close as possible to the pump, with no other valves or components e.g. isolator valve in line. In multiple pump installations, fit one Relief Valve on each pump.

Plumbing to and from the Relief Valve should be equal in diameter to, or larger than, the size of the valve ports.

The bypass from this valve must not be restricted and should discharge safely, but where it can be monitored or observed.

Bypass flow from a Relief Valve indicates a fault condition and must be investigated immediately.

Pressure Adjustment– Relief Valve

Before starting the pump, fully loosen the Relief Valve adjustment screw anti-clockwise.

Start pump to purge the system of air, then close all valves, trigger guns etc. whilst pump is running to divert full pump flow through the Relief valve.

Turn the Relief Valve adjustment nut clockwise only until the required set pressure is shown on the pressure gauge. Typically this should be 15% above the system intended working pressure but must not exceed the safe pressure of any of the system components. Do not exceed the maximum working pressure of the pump as this may damage the pump, drive motor or engine.

Tighten the locking nut provided to secure the setting and/or apply suitable paint to the adjuster thread to provide evidence of tampering.

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