



Neptune Model RV-316 and RV-C20 Relief Valves

The Neptune RV-316 and RV-C20 is a simple safety pressure relief valve. It is not intended for use as a back pressure valve. It is intended for liquid service only.

The valve is available in four pressure ranges and is adjustable within the range. Refer to the Neptune Bulletin RV for range information.

INSTRUCTION AND OPERATION

The valve is mounted to the line under pressure by the 1/2" male pipe connection. The 1/2" female pipe connection is then return-piped to a non-pressure area such as a day tank or drain.

Under normal conditions, the valve remains static. Should an over pressure situation develop, liquid passes through the orifice lifting the ball check (Figure #58) and flows back to the day tank or drain.

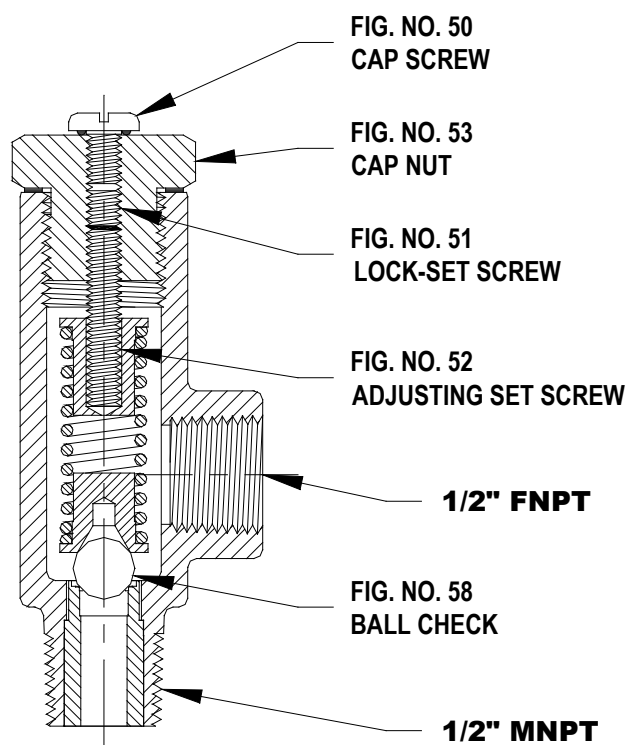
Adjusting Pressure

The set pressure of the valve is adjusted by increasing or decreasing spring pressure by moving the adjusting set screw (Figure #52). Access to the adjusting set screw is by removing BOTH the cap screw (Figure #50) and the lock screw (Figure #51).

When replacing figure #50 and #51 after adjustment, be certain that the lock set screw is tightened against the adjusting screw.

Cleaning

Foreign matter or crystalline deposits may accumulate around the ball and orifice. These particles may dislodge if the valve opens and may prevent the ball check from reseating properly. The ball and seat may be cleaned. The entire valve disassembles by removing the cap nut (Figure #53). The pressure setting should be rechecked after cleaning and re-assembly.



PSG
22069 Van Buren Street
Grand Terrace, CA 92313 USA

P: +1 (215) 699-8700 F: +1 (215) 699-0370
neptune1.com

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