



Operation & Service Manual

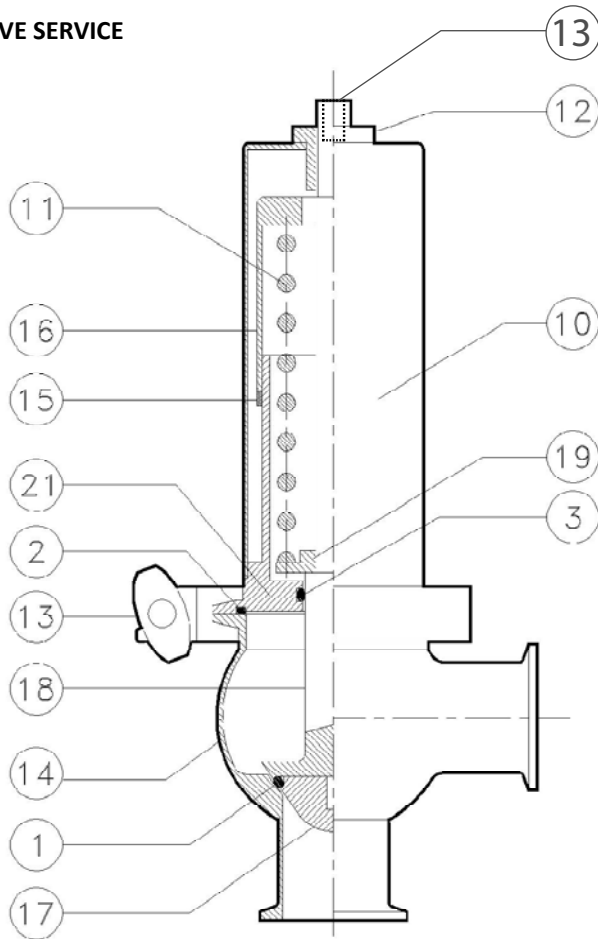
Pressure Relief Valve Model 46

REVISION: 202403

MANUAL VALVE OPENING PRESSURE ADJUSTMENT

Although the valve may be adjusted while fluid is flowing through the valve, express caution should be used. Unscrew nut (12), when applicable, and sleeve (10). Loosen lock ring (15). Turn adjusting nut (16) to change opening pressure. Tighten lock ring (15) when desired opening pressure is reached. Screw on both sleeve (10) and then nut (12) hand tight.

VALVE SERVICE



MANUAL ADJUSTABLE VALVE

Depressurize the system the valve is operating in. Isolate the valve by removing fluid from the system or isolate it by closing valves on both sides. Remove the Pressure Relief Valve from the system.

BREAKDOWN:

Unscrew nut (12), when applicable, and sleeve (10). Mark position of lock ring (15) with permanent marker. Do not damage threads. Loosen lock ring (15). Unscrew adjusting nut (16) so that spring (11) is exposed. Remove clamp (13). Separate valve body (14). O-ring (2) is now exposed and may be replaced. Pull out stem (18). O-ring (3) is now exposed and may be replaced. Place the stem in a vise and unscrew cap (17). O-Ring (1) is now exposed and may be replaced.

ASSEMBLY:

While stem is in vise, screw cap (17) onto stem (18), hand tight. Roll o-ring (1) into place and tighten cap with wrench. Slide stem into stem guide (21). Attach valve body (14) to stem guide (21) with clamp (13). Slide washer (19) onto stem, flat side down. Slide spring (11) onto washer (19). If it was removed, screw lock ring (15) onto stem guide (21) to position marked previously. Screw on adjusting nut (16). Screw on both sleeve (10) and then nut (12), when applicable, hand tight. Replace valve in system.

MANUAL LIFT ENGAGEMENT

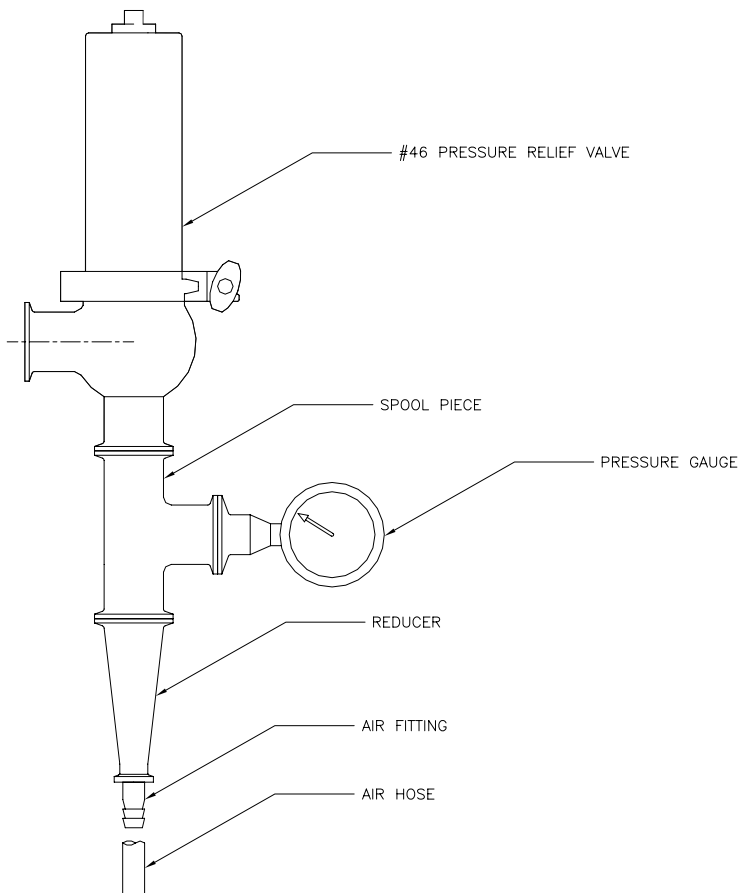
The valve may be opened manually for cleaning or bypass by tightening nut (12) with a wrench. This will lift stem (18). To return stem (18) to its original position, loosen nut (12) until it just lifts off sleeve (10). This feature is not available on the ½" and ¾" size Pressure Relief Valves.

PNEUMATIC LIFT ENGAGEMENT (Model #46A only)

Apply air pressure to the air override connection (13) located at the top of the stem (18).

USE CAUTION. VALVES ARE SPRING LOADED. UNIBLOC HYGIENIC TECHNOLOGIES assumes no responsibility for damage or injury incurred while adjusting or servicing the #46 Pressure Relief Valve. These valves are not ASME coded.

Setting the #46 Pressure Relief Valve



The following pieces will be required to adjust pressure:

- #46 Pressure Relief Valve
- T-Spool Piece
- Calibrated Pressure Gauge
- Reducer (depends on size of valve and size air tubing available)
- Air fitting
- Air hose connected to air supply

1. Assemble apparatus as shown to the left. Be sure to tighten all clamp connections.
2. Adjust air supply (compressor) to desired pressure setting.
3. Connect air hose to air fitting.
4. If air passes through the valve, remove air hose.
5. Tighten adjustment nut (#16 from Valve Manual) by turning clock-wise to compress spring.
6. Repeat step 3-5 once air does not pass valve. Proceed to step 7.
7. If air does not pass through valve, turn adjustment nut (16) counter clock-wise until just after pressure is relieved.
8. Turn locking ring (#15 from Valve Manual) to lock pressure setting.
9. Dis-Assemble apparatus.

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