

Minimum Pressure Valve

Type: MPVL65FH and MPVL65FHS

Application:

For oil-injected, oil-lubricated screw compressors and oil-injected rotary compressors for high pressure application: to uphold the minimum oil pressure required for cooling and lubrication during start-up, off-load and when user ports are fully open

Function:

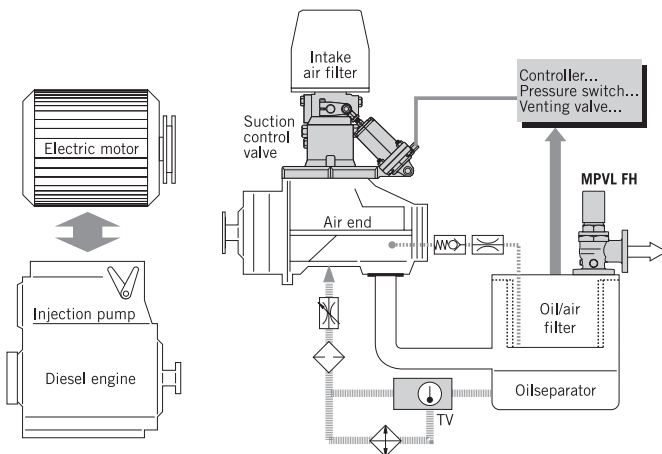
Spring loaded two way valves with built-in check-valve

Installation:

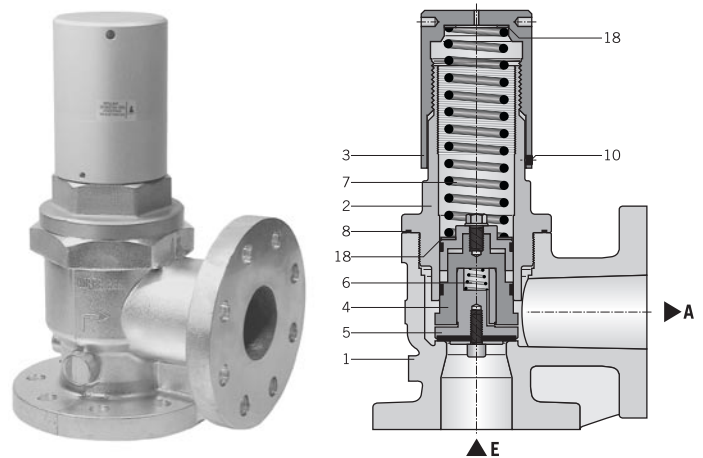
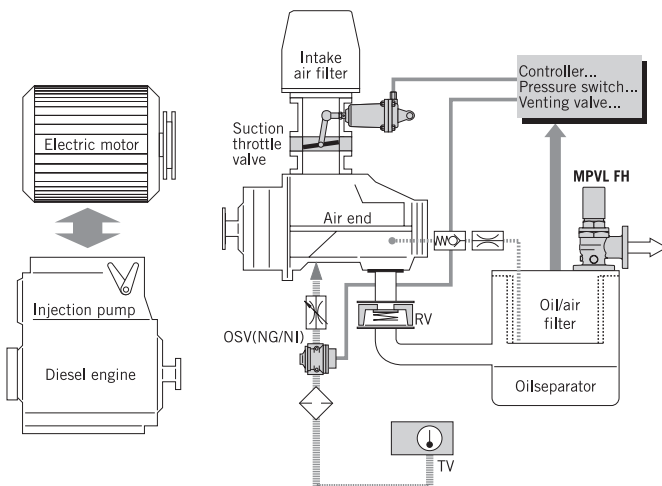
The minimum pressure valve is installed either at the outlet of the separator or in the discharge line after the separator.

Attention! Never attempt to disassemble a cylinder whilst under pressure!

Installation for air ends which can be pressurized at the suction duct



Installation for air ends which cannot be pressurized at the suction duct.



Operation:

Valve opening

MPVL65FH: The valve opens when the inlet pressure exceeds the adjusted opening pressure. Both the nonreturn (check) valve assembly (4) and the piston (5) are opened by the pressure in the oil/air separator against the force of the spring (7). The valves are adjusted in our plant, if there is no special order „function tested only“. The pressure, at which the valve starts opening is stated by the extension of the article No. on the HOERBIGER label.

MPVL65FHS: Piston (5) is opened against the force of compression spring (7) and the servo pressure at connection E. The servo pressure is e.g. the signal pressure from proportional controller P(N) - see fig.1 Load position: The minimum pressure valve is fully opened and flow characteristics and pressure drop values are as specified in the detail table, if the discharge pressure of the compressor exceeds the opening pressure plus approx. 5 bar.

Valve closing

The minimum pressure valve begins to close, when the pressure at either valve inlet or valve outlet decreases to less than the opening pressure plus approx. 0.5 to 1 bar, The MPVL's are designed and adjusted to maximum safety:

- If the compressor is loading, the oil separator will be higher than the opening pressure
- If the compressor is idling, the oil separator will be maintained at approx. the opening pressure
- If the compressor is stopped, the non-return valve will close automatically. The non-return valve closes if there is no air demand or the compressor is stopped. It is shut tight, if the pressure at the valve inlet is lower than the pressure at the valve outlet by more than 0.5 to 1 bar.

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