

BPV Actuator (L020)

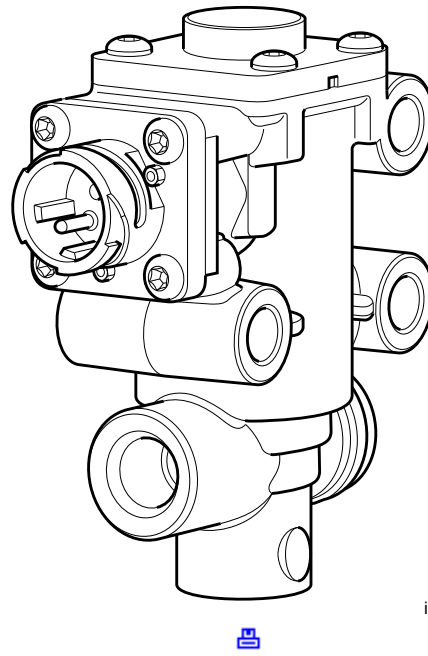
BPV: Back-pressure valve

The BPV actuator (L020) is an electropneumatic valve that transfers air pressure when it is electrically energized.

The BPV actuator (L020) is energized under the following different circumstances:

- Stationary regeneration (EAS-3)
- Mobile regeneration (EAS-3)
- PM mode
- Standard mode

The BPV actuator (L020) controls the air to the cylinder of the BPV. The back pressure valve (L020) is controlled by the electronic unit PMCI-2 (D965).



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Stationary Regeneration

The PMCI-2 unit receives a CAN message when the regeneration switch on the dashboard is pressed. The engine is in the DPF regeneration mode.

The PMCI-2 unit closes the BPV by energizing the BPV actuator (L020) and the engine speed is revved up to approximately 1450 rpm. As a result, the exhaust gas temperature rises. See the aftertreatment manual for more information about stationary regeneration.

Mobile regeneration

The engine is in the DPF regeneration mode.

The BPV is partly closed:

To generate higher exhaust gas temperature if current conditions do not make it possible to reach and maintain the correct temperature for mobile regeneration.

PM Mode

The engine is in PM mode.

The BPV is partly closed:

Fewer particulates in the exhaust, and to generate higher exhaust gas temperature for passive regeneration of the particulate filter.

Standard Mode

The engine is in standard mode.

The BPV is partly closed:

To generate more EGR flow under certain conditions.

Effect of output signal on the system:

- Higher back pressure
- Higher exhaust gas temperatures

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