## Sarviculilionilisilos

## OPEL/VAUXHALL EGR VALVE

## ERROR MESSAGES WITH NEW PARTS

| Suitable for: Opel/Vauxhall | Product: EGR valve |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | Pierburg no. | Replacement for | Ref. No.* |
| Agila 1.0i/1.2i; 12V/16V, Astra G/H/Mk IV/Mk V 1.2i/1.4i; 12V/16V, | $\mathbf{7 . 2 2 8 7 5 . 1 3 . 0}$ | 7.22875 .00 .0 | 851593 |
| Corsa C 1.0i/1.2i/1.4i; 12V/16V, Meriva 1.4i 16V, Tigra B 1.4i 16V |  |  | 9157671 |

## POTENTIAL COMPLAINTS:

- Signal voltage outside tolerance
- New part with error message

Every EGR valves has a characteristic curve in the form of a hysteresis. The hysteresis has tolerances based on manufacturing technology, i.e. each EGR valve has a slightly different hysteresis. For this reason, there is a control range in the control unit into which the hysteresis must fall. An error message is displayed if any results fall outside of the control range. In the example shown in Fig. 1 this would refer to all of the red areas of the characteristic curve that fall outside the control range (for example the green area).

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## SI 1011

For technical personnel only!

## SOLUTION:

In the case of the aforementioned $E G R$ valve it is possible that the control range in the control unit has been set too small. An update of the engine control unit software can be used to extend the control range, thereby solving the problem.

## NOTE:

In simple terms, a hysteresis is a characteristic curve that takes a "different route back from the one it took to get there" (see Fig. 2).


Fig. 2: Hysteresis


[^0]:    All content including pictures and diagrams is subject to change. For assignment and replacement, refer to the current catalogues or systems based on TecAlliance.

