

## Electric switch over valve 7.21895.55.0 for various applications

si 0050 **GB**

e.g.: for boost pressure control and for intake air throttling for EGR

MSI-PG 03.01

Vehicle: Audi / Ford / Seat / Skoda / VW				Product:	Electric switch over valve
Type	Engine	Power (kW)	Engine code	Pierburg-No.	O.E.-No. <sup>*)</sup>
various	1,9 D	50	various	7.21895.00.0	028 906 283F
	1,9 SDI	47	see	7.21895.13.0	028 906 283A
	1,9 TDI	66	TECDOC-CD	7.21895.30.0	028 906 283J
				7.21895.50.0	—
				7.21895.63.0	—
				Replacement: <b>7.21895.55.0</b>	—

For the aforementioned vehicles, the electric switch over valve are used, e.g. for the control/regulation of the boost pressure and intake air throttling for exhaust gas recirculation (EGR). Further details, **see si0051/si0052**. In case of replacement, electric switch over valve **7.21895.55.0**, as described under **replacement**, is used.

### General:

Electric switch over valves are used in vehicles wherever air pressure (low or excess pressure) must be controlled or regulated, in order to pneumatically actuate engine components (final controlling elements/actuators). In the above examples, these are the boost pressure control valve (Wastegate) as used on numerous TDI engines and the throttle valve for exhaust gas recirculation (EGR) as used on several SDI engines.

Electric switch over valves are electrically monitored in vehicles with on board diagnose systems. They can also be activated as part of the actuator diagnosis. They are activated at short intervals, so that their operation is noticeable.

Electrical faults in the wire harness or in the electric switch over valve itself, are usually stored as faults in the majority of applications and must be located, in the same way as for mechanical faults, such as leaks, valve sticking, etc., using conventional test equipment.

### Replacement of electric switch over valve

#### Scope of supply:

- 1 Electric switch over valve (neutral)
- 1 Cap
- 1 Insert (fitting instructions)
- 1 red code ring
- 1 blue code ring

Code rings and cap must be fitted on hose connections 1, 2 or 3 of the switch over valve, as specified in the table and as shown in the illustration. The neutral electric switch over valve is thus marked for the respective application.

Subject to change of illustrations and text.

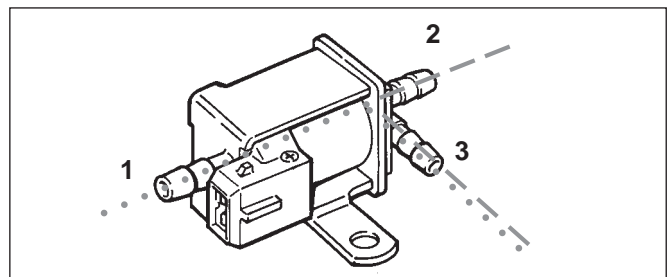
For changes with regard to respective matching and replacements, refer to the catalogs, TECDOC-CD or systems basing on TECDOC-data, which are currently in effect.

The cap must be pushed all the way on to the respective connection.

### Important:

- The cap serves for dirt-free venting and must therefore not be confused with a sealing cap.
- Positive (+) and negative (–) are marked on the electric switch over valve.
- Incorrect connection will damage the valve.
- After fitting the electric switch over valves, the hoses must be connected as shown in the hose installation plan of the vehicle manufacturer.

Electric switch over valve		Cap	Code ring	
Pierburg-No.	O.E.-No. <sup>*)</sup>	on connection	red	blue
7.21895.00.0	028 906 283F	—	—	—
7.21895.13.0	028 906 283A	1	—	—
7.21895.30.0	028 906 283J	—	1	3
7.21895.50.0	—	—	—	—
7.21895.63.0	—	1	—	—



### Electric switch over valve

Rated voltage: 12 V

Resistance: 28,5 ± 1,5 Ω

Continuity: energised .....  
not energised — — —

<sup>\*)</sup> The listed reference numbers should be listed for comparison only. They may not be used on invoices sent to final users.