

Transmission technology

Pressure or flow activated direct electric shift control



BOSCH

Invented for life



PRODUCT BENEFITS

- ▶ Low leakage
- ▶ High accuracy
- ▶ Meets the highest requirements as regards dynamics and robustness
- ▶ High level of flexibility for mechanical and electrical interfaces

1 Connector

2 Flange



drive economically

thanks to very low leakage in the transmission hydraulics

TASK

The pressure or flow activated direct electric shift control serves as an actuator for pressure or throughput control on automatic transmissions.

FUNCTION

This pressure or flow activated direct electric shift control (DESC) has a slider design. In dual-clutch transmissions, it controls the coupling pressures and activates the gear changes. In automatic step transmissions, it controls the main pressure and modulates the switching pressure. In continuously variable transmissions, it is used mainly for shifting the transmission ratio, regulating the belt tension and controlling the starting clutch.

flexible

due to variable mechanical and electrical interfaces

TECHNICAL CHARACTERISTICS

Areas of use	automatic step transmission, continuously variable transmission, dual-clutch transmission
Inlet pressure	$\leq 6,000$ kPa
Control pressure	0–80% P_{sup}
Operating current	0–1.2 A
Leakage	10–250 ml/min
Flow rate	7.5–14 l/min
Diameter	28 mm