

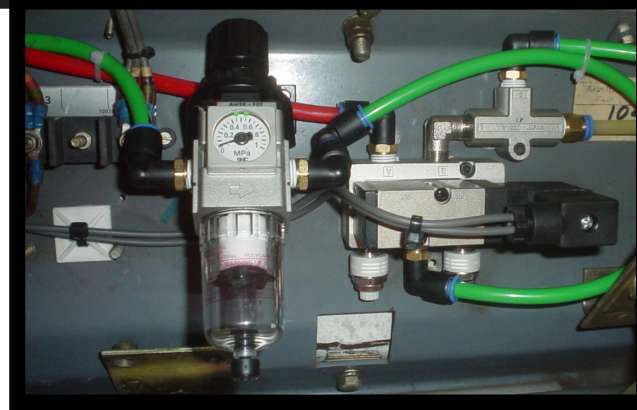


CLASS 156

Door Control Upgrade

Northern Rail, London Midland, Abellio ScotRail.

Completed: 2012



OVERVIEW

Train Door Solutions (TDS) has designed and supplied key parts for upgrading Class 156 passenger door and toilet door systems.

All new components have service proven history and are manufactured on behalf of TDS by the industries top suppliers.

The parts from TDS have improved the reliability and performance of the door system by introducing the latest pneumatic valve and actuator technology. Functionality and safety of the system has been maintained. Interfleet Technology has independently reviewed the door system upgrade against mandatory requirements and have granted engineering acceptance.

The parts are provided with a full 12 month warranty.

COMPONENTS

- PASSENGER DOOR ACTUATOR
- PASSENGER DOOR CONTROL VALVE
- AIR SUPPLY FILTER/REGULATOR MODULE
- TRACTION INTERLOCK SWITCH
- NEW IMPROVED LOWER FLOOR GUIDE DESIGN
- TOILET DOOR ACTUATOR
- LOCK ACTUATOR
- DOOR CONTROL VALVE (LDV)
- DOOR LOCK VALVE (LLV)
- ALL NECESSARY FITTINGS AND TUBING



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TECHNICAL SPECIFICATION

VALVE MODULE: 5 port 2 position single solenoid pilot operated valve complete with speed control and shuttle valve. Long life rubber seal technology.

ACTUATORS: 40mm x 740mm double acting piston rod cylinder with adjustable end stroke cushioning. Long life seal and tube technology.

FILTER/REGULATOR: Combined filter and regulator unit saves space and requires less piping. Integrated pressure gauge and locking adjuster knob on regulator. Filtration rating 5µm.

TRACTION SWITCH: Snap action roller switch with self-wiping contacts that greatly improves the life of the switch and reduces maintenance times.

TOILET DOOR (LDV & LLV) VALVES: 5 port, 2 position single direct solenoid valve complete with integrated switch to provide the door status signals.

FITTINGS & TUBE: All pneumatic connections are push-in quick release type. All tubing is nylon in accordance with BS5409.

CONTROL	ELECTRO-PNEUMATIC
INPUT VOLTAGE	24 VDC
VOLTAGE RANGE	+/- 30% OF INPUT VOLTAGE
TEMPERATURE RANGE	-10°C TO +65°C
OPERATING PRESSURE	3 BAR

