

# Transportation Bus & Motor Coach

**Kneel &  
High Boy  
Control Solutions**



>> **Getting On The Bus Has  
Never Been So Easy**



**Additional information  
on reverse side.**



## Superior Value

Through customer interviews and application research, Parker has released a radical design aimed at assisting disabled or impaired passengers with boarding and exiting bus and coach vehicles while **providing cost savings and simplicity to the vehicle manufacturers and fleet owners**. With only one module, users are now able to achieve any of the following kneel positions; split level kneeling, left and right kneeling, complete kneeling and high boy functions. By combining multiple functions into one module, this provides cost savings through **installation time reduction, service simplicity, and inventory parts reduction** (fewer modules on a bus). In addition, the poppet design versus a spool design is **better suited for the harsh conditions** experienced in the transportation market. This, along with the higher flow rate allows the bus to raise and lower faster, thus **saving passengers and drivers time**. **Assembly labor costs have also been reduced** due to fewer components, connections, and tubing required. This compact design also allows for the Parker Kneeling Module to be **placed in tighter spaces** that may not otherwise be accessible.



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### How It Works

The use of integrated valves in a singular module allows for a compact unit with less flow restrictions due to additional tubing and fittings.

#### Ride Mode

While the bus is riding from stop to stop, all four solenoids are de-energized. This allows the two air bag valves to be normally open from the leveling valve to the air bag. In this mode, the leveling system is controlling the ride height of the bus

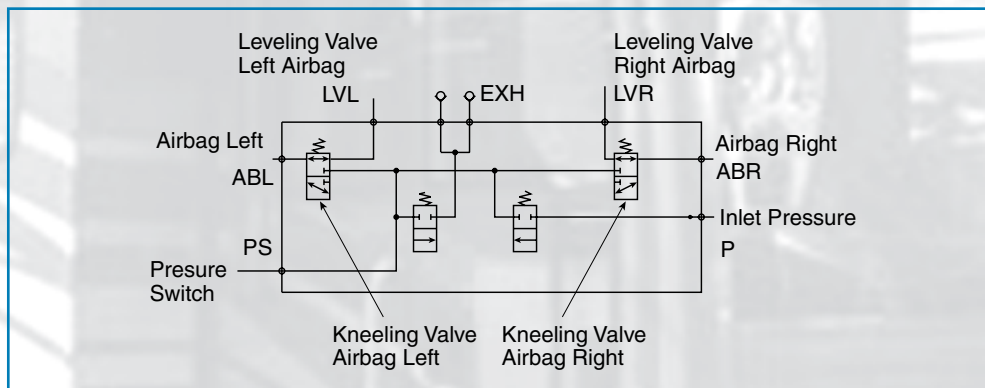
#### Kneeling

When the operator decides to kneel at a stop, he simply energizes the exhaust valve along with

the airbag valve (left, right or both). The inlet solenoid stays de-energized.

#### Raising

When raising, the process is reversed. The airbag valves stay energized, but the exhaust valve is turned off and the inlet valve is energized. In both kneeling and raising functions, the poppet valve has shut off the air supply from the leveling valve, allowing the Parker kneeling module to take over.

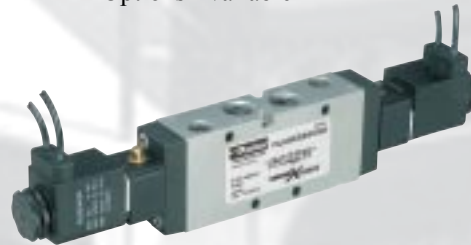


### Just Released!

Viking Xtreme valves for all mobile applications. Parker extends its transportation product offering with the release of the new Viking Xtreme Valve. This valve was specifically designed with the transportation market in mind. It's specially engineered over-molded spool is designed to withstand the harshest environmental conditions. The anodized all aluminum construction of the body and end caps, along with stainless steel screws, makes this the ideal valve if corrosion resistance is needed.

- -40 to 70°C Temperature Rating
- 16 bar Maximum Pressure Rating
- 5G Shock Force Tests with 100% Continuous Duty for Solenoid

- Numerous Solenoid Variations to Meet All Applications
- Intrinsically Safe, Hazardous Duty and ATEX Options Available



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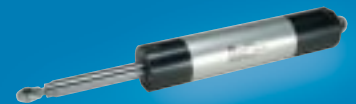
### Additional Mobile Products



Viking Xtreme  
Air Control Valves



LOADTAMER™  
Axle Lift Systems



P1L Mobile Cylinder



Manual Control Valves



Low Temp FRLs