



Air Powered Hydraulic Rate Control Allows for Smooth, Adjustable Movement

Challenge:

A bus manufacturer desired a cylinder that could open and close bus doors using a remote control device, powered by an air compressor. A standard air cylinder was not a practical solution, because the speed was too difficult to control. Auto-bypass capabilities were also required for those users that wanted to open the door manually. In addition, the device was to reside in a slim dashboard, providing a challenging space constraint.

Solution:

Bimba developed a compact rate control cylinder that provided an air-driven, hydraulically controlled stainless steel body cylinder allowing for automatic and manual door opening. The optional speed control could be adjusted by the turn of a screw. The design was also small enough to fit in the narrow dashboard, meeting the tight space requirements.



Benefits:

- Corrosion resistant exterior.
- No exposed metal.
- Proven actuator performance with internal materials.

Other Applications:

- Air/Oil Cylinder Replacements
- Feeders
- Presses
- Fillers

