

# The power plant for your brake system.

## Brake cylinders from BPW.

In a brake system, it is of the utmost importance to achieve an optimum interplay between the individual components. The brake cylinders have a decisive role to play in this, because they have to provide a perfectly modulated force transfer within the brake system. BPW develops and produces its own brake cylinders for drum and disc brakes – further proof of our extensive expertise when it comes to brakes. As a system supplier, our product range includes diaphragm and spring-type cylinders.

### Delivery variants of BPW brake cylinders



#### Diaphragm cylinders

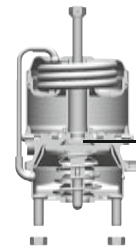
They act as a service brake and are characterised by their compact external dimensions and low weight.



Spring-type cylinder

#### Diaphragm-diaphragm (M-M) cylinders

They act both as a service brake as well as an auxiliary and parking brake. They are lighter than the diaphragm-piston cylinder.



Spring-type cylinder

#### Diaphragm-piston (M-K) cylinders

They have the same function as a diaphragm/diaphragm cylinder. Their greater spring-type accumulator force means they are suited above all for vehicles with higher axle loads and limited installation space.

For axles with drum brakes		For axles with disc brakes		
Diaphragm cylinder	Diaphragm/diaphragm cylinder	Diaphragm cylinder	Diaphragm/diaphragm cylinder	Diaphragm/piston cylinder
12 inch		14 inch	14/24 inch	
16 inch	16/24 inch	15 inch	15/24 inch	
20 inch	20/30 inch	16 inch	16/24 inch	16/16 inch
24 inch	24/30 inch	18 inch	18/24 inch	
30 inch	30/30 inch	20 inch	20/24 inch	20/24 inch
36 inch		22 inch		22/24 inch
		24 inch		24/24 inch

Refer to the BPW brake cylinder booklet (BPW-BZ-...) for more technical data. They can be supplied fully fitted to BPW axles as initial equipment. If the lever length is > 150 mm, make sure that only long-stroke diaphragm cylinders are used. Always use long-stroke cylinders with automatic slack adjusters.



### BPW brake cylinders – Features and benefits

- ▶ Sustained high quality assured by testing and continuous quality checks (FMEA, dimension test, release pressure test, functional test on the vehicle, vibration test, dirt test, dynamic strength test, hot and cold test (80 °, -40 °), force output check)
- ▶ Improved sealing using innovative flanging technique
- ▶ Optimum corrosion protection for the housing components by means of various high-quality coating procedures
- ▶ Optimum corrosion protection for the springs by means of double coating
- ▶ Inch and metric connections available
- ▶ Easy to install because of extended compressed air connection (standard in spring-type cylinders for disc brakes)
- ▶ In drum brakes, there is no need for an external return spring between the slack adjuster and air cylinder bracket (precondition: mounting on BPW axles, round hole yoke end and lever length > 100 mm)
- ▶ New ECE certificates and test reports are available from the BPW website

More information:

▶ BPW News 72131003e