

## The power plant for your brake system.

### Brake cylinders from BPW

In any brake system, achieving the correct interaction between all components is essential for a safe and reliable performance. Brake cylinders play a critical role by delivering precise, controlled force transfer throughout the braking process.

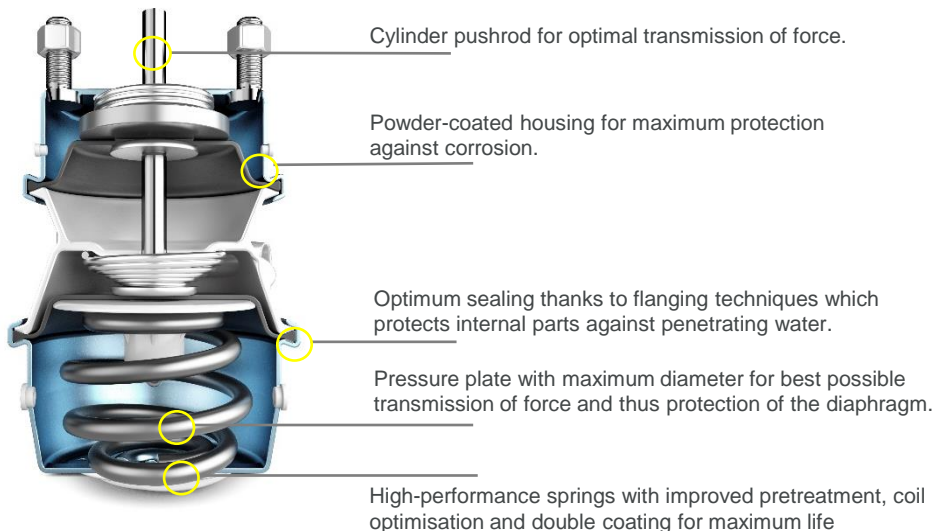
BPW designs and manufactures its own brake cylinders for both drum and disc brakes applications, demonstrating deep technical expertise in braking systems. As a complete system supplier, BPW offers a comprehensive range that includes both diaphragm and spring brake cylinders, ensuring dependable performance across a wide range of commercial vehicle requirements.



Brake cylinders for drum brakes



Brake cylinders for disc brakes



### Features and benefits

- Perfect sealing and compactness due to flanging (no screw clamps)
- Optimum corrosion protection (housing and springs).
- Easy to install thanks to compressed air connection extensions as standard for spring brake cylinders for disc brakes.
- When combining BPW spring brake cylinders supplied with round hole yokes with BPW drum brakes, no additional external return springs is required between the slack adjuster and the base plate.
- As original equipment, BPW axles can be supplied with fully assembled brake cylinders. Adjustment work for drum brakes is then not necessary.
- BPW brake cylinders are long stroke as standard equipment.



Air connection extension for disc brake spring brake cylinders



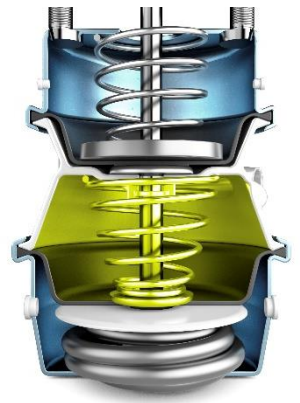
### Parking brake

The spring mechanism is vented; the spring actuates the brake via the push rod.



### Braking mode

Air pressure in the brake mechanism actuates the brake via the push rod. Air pressure in the spring mechanism holds back the spring of the parking brake.



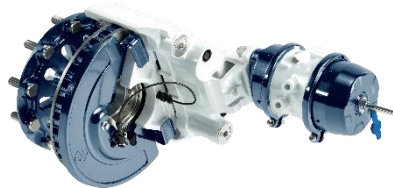
### Driving mode

Air pressure in the spring mechanism holds back the spring of the parking brake.

Brake Cylinders for Drum Brakes		
Part Number	Type	Remarks
05.444.15.01.1	24	14mm yoke pins
05.444.20.01.1	24/30	
05.444.16.01.1	30	
05.444.21.01.1	30/30	



Brake Cylinders for Disc Brakes		
Part Number	Type	Remarks
05.444.38.01.3	14/24	B
05.444.38.02.3	14/24	A
05.444.32.01.0	16	B
05.444.32.02.0	16	A
05.444.40.01.3	16/24	B
05.444.40.02.3	16/24	A
05.444.33.01.0	18	B
05.444.33.02.0	18	A
05.444.42.01.3	18/24	B
05.444.42.02.3	18/24	A



#### Did you know...

- BPW has had their own brand of long stroke brake cylinders from as early of June 1998.
- When installing brake cylinders on axles, the nuts must be torqued to 180 – 210 Nm.
- The bottom drain plugs must be removed for condensation to drain out, and to prevent a vacuum build-up in the chambers which will cause brake bind.