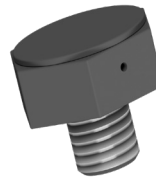


OUR PORTFOLIO FOR PRESSURE BALANCE PLUGS

KACO **Pressure Balance Plugs** are designed to equalize **pressure differences** in sealed housings caused by temperature changes, altitude variations or operating conditions. By enabling controlled air exchange, they help reduce mechanical stress on housing seals and support the long-term reliability of sensitive components. The compact plug designs can be adapted to different installation spaces and application requirements.

FIELDS OF APPLICATION

- Inverters
- Headlights
- General electronics housings
- Hybrids
- Energy storage systems



	PBP mini	PBP M12	PBP M12+	PBP eDrive
Vent Type	Standard Pressure Equalization		Pressure Equalization with advanced breathing functionality	Pressure Balance Plug for oil mist environments
Main diameter	Outer-Ø: 17 mm*	Key width 26 mm*		Outer-Ø: 24,8 mm*
Height	11,7 mm*	23 mm*		12,8 mm*
IP-Protection class	IP68, IPX9K			
Flame resistant	UL94 V0			
Temperature	up to 130 °C			

*Standard sizes, custom development for specific installation space and requirements possible

The information and values listed here were determined under model and laboratory conditions. They do not represent any assured properties, guarantees or warranties. The validation of the products in the respective application, their performance as well as their suitability for a specific purpose is the responsibility of the user.

PRESSURE BALANCE PLUG_{mini}



A summary of the benefits

- Ensuring constant pressure equalization
- Preventing water, oil and dust ingress
- Small installation space

Vent type	Standard pressure equalization
Main body material	PBT
Height	11,7 mm
Vertical stack height	4,6 mm
Main diameter	Outer-Ø: 17 mm
Installation space	
• Connection	• Snap-In assembly
• Bore	• Ø 6,4 mm
Air-Flow	> 15 l/h @ 70 mbar
Water resistance	> 30 s @ 0,6 bar
IP-Protection class	IP6K7K, IPX9K
Flame resistant	UL94 V0
Temperature	up to 130 °C

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PRESSURE BALANCE PLUG_{eDrive}



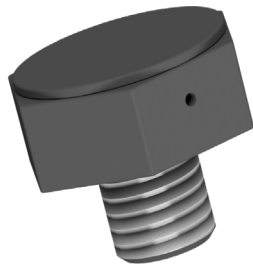
A summary of the benefits

- Ensuring constant pressure equalization even in harsh conditions
- Ensuring safe operating of seals and other systems in electric drive units
- Preventing water, oil and dust ingress
- Oil room compatibility

Vent type	Pressure Balance Plug for oil mist environment
Main body material	PA66
Height	12,8 mm
Vertical stack height	5 mm
Main diameter	Outer-Ø: 24,8 mm
Installation space	
• Connection	• Snap-In assembly
• Bore	• Ø 17,5 mm
Air-Flow	> 500 ml/min @ -70 mbar > 1,5 l/min @ 50 mbar
Water resistance	≥ 30 min @ 250 mbar
IP-Protection class	IP6K7K, IPX9K
Flame resistant	UL94 V0
Temperature	up to 130 °C

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PRESSURE BALANCE PLUG M12



A summary of the benefits

- Advanced breathing function for reduced humidity ingress or higher degassing rate
- Ensuring constant pressure equalization
- Preventing water, oil and dust ingress
- Advanced breathing functionality can be implemented for humidity reduction or large degassing rates

Vent type	Pressure Equalization optional with advanced breathing functionality
Main body material	PBT
Height	23 mm
Vertical stack height	11,5 mm
Main diameter	Key width 26 mm
Installation space	
• Connection	• Screw in or with nut
• Thread	• M12
Air-Flow	> 500 ml/min @ 50 mbar
Water resistance	≥ 30 min @ 250 mbar
IP-Protection class	IP6K7K, IPX9K
Flame resistant	UL94 V0
Temperature	up to 130 °C

