



TECHNICAL DATA SHEET & SAFETY INSTRUCTIONS

Brass Fuel Non-Return (Check) Valves
Models: PMP043, PMP044, PMP045

1. PRODUCT DESCRIPTION & APPLICATION

High-quality professional spring-loaded check valves designed to prevent fuel backflow in combustion engine supply lines. Ideal for use in automotive, agricultural, marine, and industrial fuel systems. The integrated internal spring structure ensures immediate closing when reverse pressure occurs, maintaining system prime.

2. TECHNICAL SPECIFICATIONS

Product Symbol	Hose Barb Diameter (External)	Body Material	Internal Valve Seal
PMP043	8 mm	High-Grade Brass	NBR Rubber (Fuel Resistant)
PMP044	10 mm	High-Grade Brass	NBR Rubber (Fuel Resistant)
PMP045	12 mm	High-Grade Brass	NBR Rubber (Fuel Resistant)

General Operating Parameters:

- **Compatible Fluids:** Diesel, Gasoline (Petrol), Bio-diesel, Oils, Water, and Low-pressure air.
- **Cracking (Opening) Pressure:** Approx. 0.2 Bar (20 kPa)
- **Operating Temperature Range:** -30°C to +120°C
- **Maximum Operating Pressure:** 10 Bar (1.0 MPa)

3. INSTALLATION GUIDE

1. **Verify Flow Direction:** Locate the cast arrow on the brass valve body. The arrow **MUST** point exactly in the direction of the desired fuel flow (towards the engine/pump).
2. **Prepare Fuel Lines:** Ensure the fuel hoses are cleanly cut at a right angle and are free of debris, old rubber fragments, or cracks.
3. **Hose Attachment:** Push the fuel hoses completely onto the hose barbs until they meet the central hex collar.

4. **Secure the Connection:** Always secure both sides using appropriate worm-drive hose clamps or spring clips to avoid air leaks or fuel leakage under pressure.
5. **System Priming:** Bleed the fuel system according to the vehicle/machine manufacturer guidelines before starting the engine.

4. SAFETY INSTRUCTIONS & BHP GUIDELINES

- **Fire Hazard Precaution:** Ensure the engine is completely turned off and cooled down before installation. Work only in well-ventilated areas away from any open flames, sparks, or smoking zones.
- **Leak Inspection:** Immediately after installation and before regular operation, run the fuel pump or engine briefly to inspect all connections visually for any signs of fuel sweating or leaks.
- **Application Constraints:** This product is strictly prohibited for use in high-pressure gas installations (such as LPG/CNG vehicle systems), brake fluid systems, or domestic drinking water grids.
- **Chemical Compatibility:** Avoid exposure to highly acidic media or aggressive solvents that may degrade the internal NBR rubber seal or brass casing over extended periods.
- **Maintenance:** Periodically check the tightness of the hose clamps. If fuel flow drops significantly, check the internal valve mechanism for contamination or debris accumulation.

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