

6 mm ZERO LEAK PRESS-IN CHECK VALVE

The new 6 mm Zero Leak Press-In Check Valve is a miniature, cartridge-style check valve specifically designed for installation into plastic housings, manifolds, or tubing. This valve uses a soft seat to ensure efficient and leak-free operation in both hydraulic and pneumatic systems.

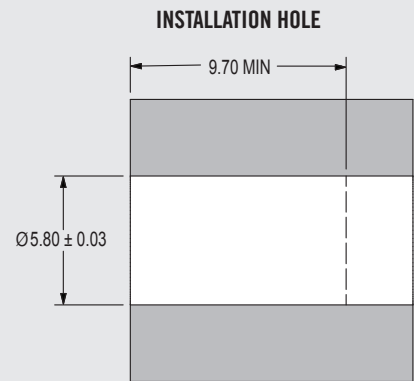
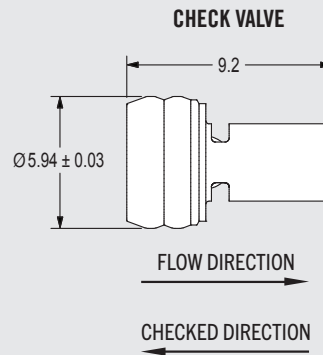
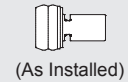
The valve's unique press-in design ensures easy installation and retention, preventing bypass leakage. It can be installed bidirectionally for both forward and reverse flow capabilities, which provides design flexibility. Its robust design and 100% performance testing guarantees long-term operation in a wide range of applications.

Standard offerings are available with either FKM or EPDM seals for a range of fluid and temperature compatibility. If the standard seal materials are not suitable for your application, other seal materials are available upon request. Please contact your local Lee Sales Engineer for more information or visit theleeco.com.

- Soft seat ensures efficient and leak-free operation in hydraulic and pneumatic systems
- 100% performance tested to eliminate rework
- Simple, bidirectional installation provides design flexibility with forward or reverse flow capabilities



ACTUAL SIZE



All dimensions are in millimeters.

SEAL MATERIAL	PART NUMBER	CRACKING PRESSURE
FKM	CZPM6001004S	4 ± 3 kPa (0.6 ± 0.4 psid)
	CZPM6001007S	7 ± 5 kPa (1 ± 0.7 psid)
	CZPM6001014S	14 ± 10 kPa (2 ± 1.4 psid)
	CZPM6001040S	40 ± 30 kPa (6 ± 4.4 psid)
	CZPM6001069S	69 ± 48 kPa (10 ± 7.0 psid)
EPDM	CZPM6002004S	4 ± 3 kPa (0.6 ± 0.4 psid)
	CZPM6002007S	7 ± 5 kPa (1 ± 0.7 psid)
	CZPM6002014S	14 ± 10 kPa (2 ± 1.4 psid)
	CZPM6002040S	40 ± 30 kPa (6 ± 4.4 psid)
	CZPM6002069S	69 ± 48 kPa (10 ± 7.0 psid)

PERFORMANCE	
Lohm Rate	250 Lohms*
Checked Direction Leakage	Zero drops/minute on hydraulic fluid. Verified on air (0.05 SCCM maximum at 150 kPa).
Maximum Working Pressure	The valve's maximum working pressure is dependent on housing material, configuration and operating conditions.
Materials	Body, cage, spring are stainless steel. Seal material is part number dependent. See table on left.

* The Lohm is a measure of flow resistance. Additional information can be found on the reverse side and at theleeco.com/Lohm.



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INSTALLATION

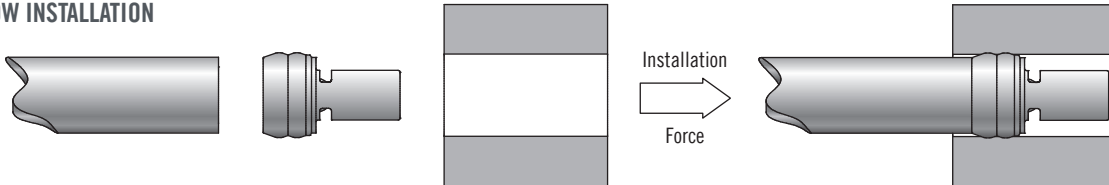
To install, simply press the valve into a plastic installation hole until the valve is, at a minimum, flush with the top of the installation hole.

The valve can be installed in either direction, providing forward or reverse flow capabilities. Lee installation tools for each flow orientation are available. See Installation Procedures "IP CZPM 6.0 F" and "IP CZPM 6.0 R" for more information, or contact your local Lee Sales Engineer for installation support.

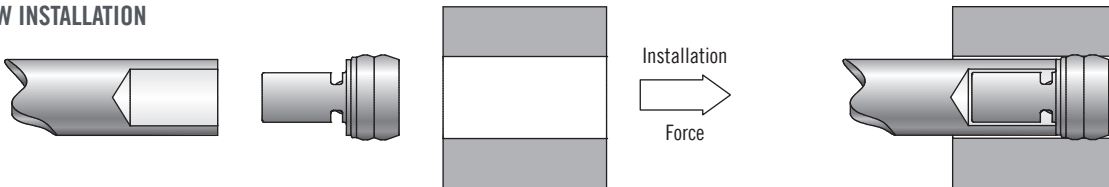
These valves can be pressed directly into plastics that have sufficient elongation such as Nylon, Polyethylene, Polypropylene, Acetal, and PEEK.

For installation into other plastics, contact your Lee Sales Engineer for more information. 6 mm Zero Leak Press-In Valves are not designed to be installed into metal.

FORWARD FLOW INSTALLATION

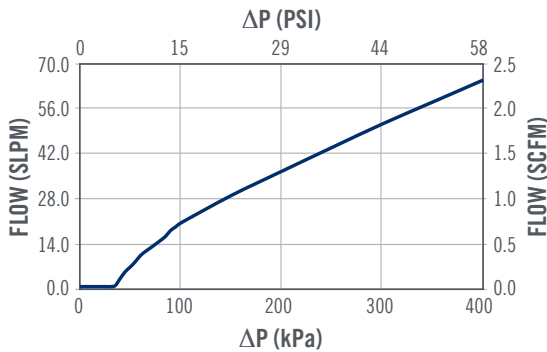


REVERSE FLOW INSTALLATION

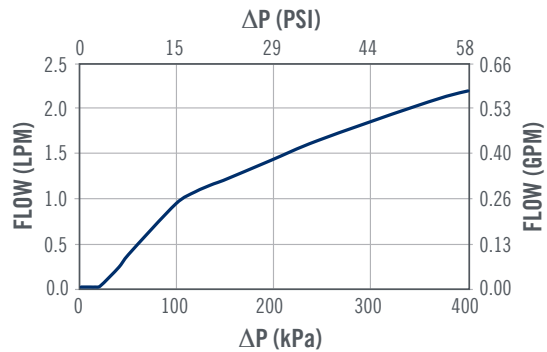


FLOW PERFORMANCE

ΔP vs. FLOW ON AIR AT 80°F (27°C)



ΔP vs. FLOW ON WATER AT 80°F (27°C)



TYPICAL FLOW CURVE FOR 40 kPa VALVE

LEE LOHM LAWS

WORKING WITH LIQUIDS & GASES

Engineers will be interested in our simple method of defining and measuring the resistance to fluid flow for hydraulic and pneumatic components. Just as the Ohm is used in electrical engineering, we find that we can use a liquid Ohm or "Lohm" to good advantage on all hydraulic and pneumatic computations.

When using the Lohm, you can forget about coefficients of discharge and dimensional tolerances on drilled holes. These factors are automatically compensated for in the Lohm calculations and confirmed

by our testing of each component to establish flow tolerances. The resistance to flow of any fluid component can be expressed in Lohms.

Due to the differences in fluid properties between gases and liquids, the equations for calculating the relationship between flow restriction, pressure differential, and flow rate are different.

For more information on Lohms, contact your local Lee Sales Engineer or visit theleeco.com/Lohm.



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