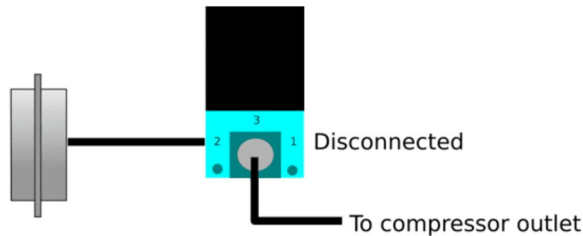


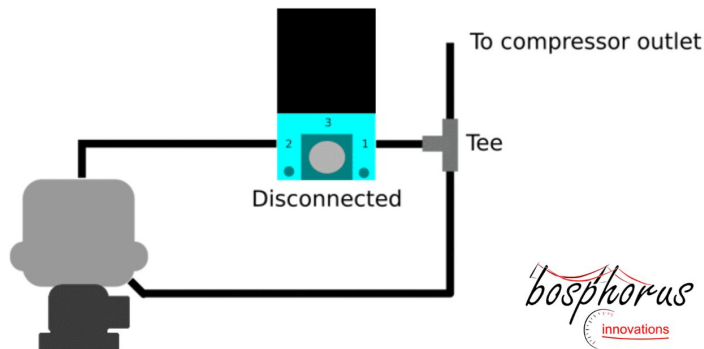
Electronic Boost Control Solenoid Valve - Installation Guide

This guide explains the recommended plumbing configurations shown in the supplied diagram for the electronic boost control solenoid valve. Always verify the final hose routing and control strategy against your turbocharger actuator and ECU/controller documentation.

SINGLE PORT WASTEGATE



DUAL PORT WASTEGATE



Supplied reference diagram – Single-port and dual-port wastegate plumbing

Port routing shown above follows the supplied Bosphorus Innovations diagram.

1. Product Overview

- 12V normally closed electronic solenoid valve designed for electronic boost control and other PWM-controlled pressure applications.
- 1/8" NPT ports, supplied with two nickel-plated 1/8" NPT to 1/4" (6 mm) barb fittings.
- PWM-compatible operation up to 35 Hz; 5.4 W coil with 25.4 Ω resistance.
- Maximum operating pressure: 145 psi (10 bar).
- Suitable for aftermarket ECU/controller applications including HKS, MoTeC, Haltech, AEM and comparable systems.

2. Single-Port Wastegate Configuration

- Port 1: Connect to the compressor outlet / boost pressure source, as shown in the diagram.
- Port 2: Connect to the wastegate actuator pressure line.
- Port 3: Leave disconnected/vented as shown in the supplied diagram. Keep the vent clean and protected from water, dust and debris.
- Secure all hose connections and make sure the pressure source is free from leaks.

3. Dual-Port Wastegate Configuration

- Port 1: Connect to the tee in the compressor outlet / boost pressure source line.
- Port 2: Connect to the appropriate wastegate actuator port.
- Port 3: Leave disconnected/vented as shown in the supplied diagram.
- Use the actuator manufacturer's recommended pressure routing and verify the configuration before applying boost.

4. Electrical Connection

- Use a stable 12V supply appropriate for the 5.4 W solenoid coil.
- Control the valve using a compatible PWM output from an aftermarket ECU or electronic boost controller.
- Follow the controller manufacturer's wiring diagram for power, ground and PWM signal connections.
- Use appropriate fuse protection and wiring for the vehicle installation.

5. Installation & Setup Checklist

- Mount the solenoid securely away from excessive heat, moving parts and direct water exposure.
- Use suitable boost/vacuum hose with secure clamps or fittings.
- Confirm the valve port numbers before connecting hoses.
- Pressure-test the system and inspect every connection for leaks.
- Start with conservative ECU/controller settings and verify wastegate operation before increasing boost.
- After installation, check all connections again after the first heat cycle.

6. Important Notes

- The supplied diagram is the reference for the single-port and dual-port configurations in this guide.
- Do not exceed the valve's maximum operating pressure of 145 psi (10 bar).
- Improper boost control plumbing or calibration can cause overboost, engine damage or unsafe vehicle behavior.
- Installation and ECU calibration should be performed by a qualified technician familiar with turbocharged systems.

Technical Specifications

Parameter	Specification
Voltage	12 V DC
Power	5.4 W
Coil resistance	25.4 Ω
Max. frequency	35 Hz
Max. operating pressure	145 psi / 10 bar
Port type	1/8" NPT
Valve state	Normally Closed