

Installation Instructions



BENDIX® QR-1® QUICK RELEASE VALVE INSTALLATION KIT

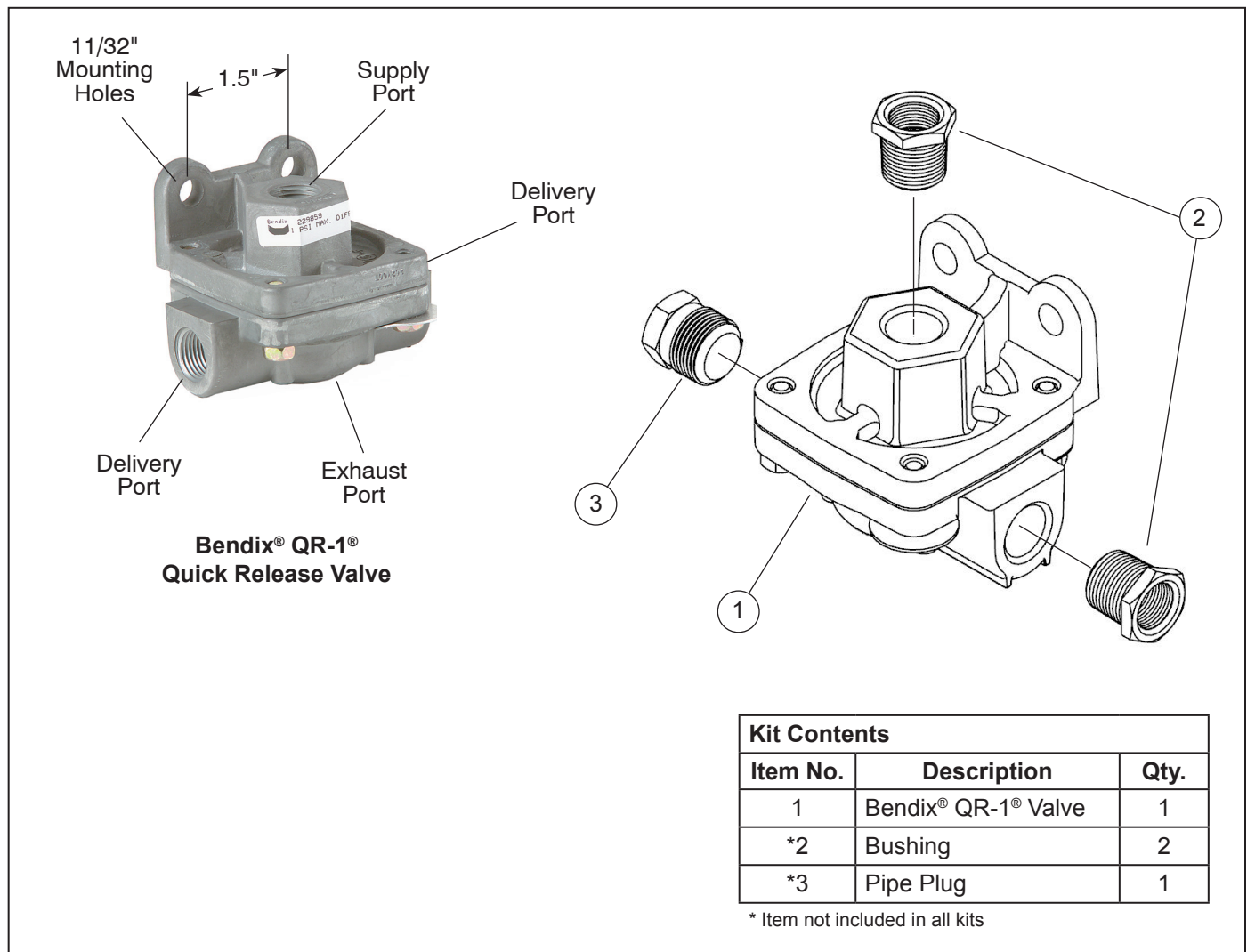


Figure 1 – Bendix® QR-1® Quick Release Valve Installation Kit

DESCRIPTION

This kit covers the installation of the Bendix® QR-1® quick release valve. Note that all items shown may not be included in each kit.

REMOVAL

Be sure to read and follow the General Safety Guidelines included in this document before performing any service.

1. Wipe away dirt and debris from the valve being replaced.
2. Identify and mark each air line connected to the valve.
3. Disconnect the air lines connected to the valve.
4. Remove and retain the mounting hardware that secures the valve to the vehicle. Remove the valve.

INSTALLATION

1. Compare the ports on the removed valve to the replacement valve (1). Some kits include bushings (2) and/or a pipe plug (3) to facilitate the installation.
2. If a bushing (2) is to be installed in the supply or delivery port, tighten the bushing to 130-170 in-lbs.
3. If pipe plug (3) is installed in a delivery port, tighten the plug to 130-170 in-lbs.
4. Install the valve (1) on the vehicle with the exhaust port pointing down. Secure the valve using the mounting hardware that was removed from the previous valve.
5. Connect the air lines to the valve as marked during the removal process. Tighten the fittings to 130-170 in-lbs.



GENERAL SAFETY GUIDELINES

WARNING! PLEASE READ AND FOLLOW THESE INSTRUCTIONS

TO AVOID PERSONAL INJURY OR DEATH:

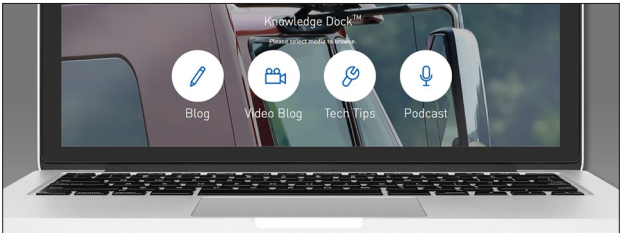
When working on or around a vehicle, the following guidelines should be observed AT ALL TIMES:

- ▲ Park the vehicle on a level surface, apply the parking brakes and always block the wheels. Always wear personal protection equipment.
- ▲ Stop the engine and remove the ignition key when working under or around the vehicle. When working in the engine compartment, the engine should be shut off and the ignition key should be removed. Where circumstances require that the engine be in operation, **EXTREME CAUTION** should be used to prevent personal injury resulting from contact with moving, rotating, leaking, heated or electrically-charged components.
- ▲ Do not attempt to install, remove, disassemble or assemble a component until you have read, and thoroughly understand, the recommended procedures. Use only the proper tools and observe all precautions pertaining to use of those tools.
- ▲ If the work is being performed on the vehicle's air brake system, or any auxiliary pressurized air systems, make certain to drain the air pressure from all reservoirs before beginning ANY work on the vehicle. If the vehicle is equipped with a Bendix® AD-IS® air dryer system, a Bendix® DRM™ dryer reservoir module, or a Bendix® AD-9si® air dryer, be sure to drain the purge reservoir.
- ▲ Following the vehicle manufacturer's recommended procedures, deactivate the electrical system in a manner that safely removes all electrical power from the vehicle.
- ▲ Never exceed manufacturer's recommended pressures.
- ▲ Never connect or disconnect a hose or line containing pressure; it may whip and/or cause hazardous airborne dust and dirt particles. Wear eye protection. Slowly open connections with care, and verify that no pressure is present. Never remove a component or plug unless you are certain all system pressure has been depleted.
- ▲ Use only genuine Bendix® brand replacement parts, components and kits. Replacement hardware, tubing, hose, fittings, wiring, etc. must be of equivalent size, type and strength as original equipment and be designed specifically for such applications and systems.
- ▲ Components with stripped threads or damaged parts should be replaced rather than repaired. Do not attempt repairs requiring machining or welding unless specifically stated and approved by the vehicle and component manufacturer.
- ▲ Prior to returning the vehicle to service, make certain all components and systems are restored to their proper operating condition.
- ▲ For vehicles with Automatic Traction Control (ATC), the ATC function must be disabled (ATC indicator lamp should be ON) prior to performing any vehicle maintenance where one or more wheels on a drive axle are lifted off the ground and moving.
- ▲ The power **MUST** be temporarily disconnected from the radar sensor whenever any tests **USING A DYNAMOMETER** are conducted on a vehicle equipped with a Bendix® Wingman® system.
- ▲ You should consult the vehicle manufacturer's operating and service manuals, and any related literature, in conjunction with the Guidelines above.

OPERATING AND LEAKAGE TEST

While holding a foot brake valve application:

1. Coat the exhaust port with a soap solution; leakage of a one inch bubble in three seconds is permitted.
2. Coat the body and cover with a soap solution. No leakage is permitted between the body and the cover.




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