

STORAGE

Store valves in a dry and cool environment, avoiding moisture and extreme temperature conditions. Valves can be stored for an indefinite period of time before commissioning into service. However, it is always good practice and is highly recommended that before commissioning any valve into service that the valve be thoroughly inspected for proper functionality and adequate lubrication. Valves stored in excess of six months will likely require re-lubrication. To inspect valve, manually adjust the curtain adjusting screw opened and closed. Open and close the core by stroking valve 100% while visually inspecting the internals through the inlet and outlet ports of the valve to assure proper operation and observe adequate lubrication. Address any issues that may be observed before commissioning into service.

To order, specify:

R400-6117-C	14.5 oz. cartridge of lithium based EP2 valve lubricant
R400-4195	1/8" NPT Alemite straight grease fitting
R400-4216	1/8" NPT Alemite 90 degree grease fitting (used on 1008A-U valves with U bracket)

Special lubricants:

R400-6205	5.3 oz. cartridge of Dow Corning #111 compound for use with steam
R400-6205-C	14.1 oz. cartridge of Dow Corning #111 compound for use with steam
R400-6155	14 oz. tube lithium #2 complex grease for use with corrosive gases

GREASE and GREASE FITTINGS

Grease fittings and grease are available from North American. Grease comes in a cartridge for insertion into a grease gun, which helps avoid waste and contamination.

LUBRICATION INSTRUCTIONS for 1008A-C and 1010A-C VALVES for OXYGEN SERVICE

Scope

This section has been created as a guide for the lubrication requirements for North American 1008A-C and 1010A-C series valves for use in oxygen service. Only *qualified technical personnel* should attempt to service this valve.

WARNING: All service required on any oxygen handling equipment should only be performed by trained and experienced personnel familiar with the potential hazards associated with oxygen systems. This document does not attempt to address these requirements. The safe operation and maintenance of oxygen systems are the responsibility of the users who should obtain qualified professional training prior to attempting to perform service.

Type of lubrication

1008A-C and 1010A-C adjustable port valves for oxygen use are factory lubricated with Perfluoro Polyether grease (PFPE). PFPE is a synthetic based lubricant designed for difficult chemical environments. It is completely insoluble in most solvents and non-reactive in the presence of concentrated oxygen and chlorine.

WARNING: If servicing for lubrication is required, use only an approved oxygen compatible lubricant such as PFPE (North American part number R400-6415) using accepted and approved oxygen clean equipment and environment standards.

Lubrication procedures

To avoid any possible contamination of an oxygen clean component, these valves do not come with grease fittings for field lubrication due to the strict standards required to prevent contamination that could lead to potential hazards. Users must supply their own temporary oxygen-approved grease fitting and greasing tools or remove valve from service to gain access for lubrication through the inlet/outlet ports. The valves are supplied with a 1/8" NPT pipe plug in the greasing port. If a grease fitting is to be used for greasing, the pipe plug needs to be removed and a oxygen-approved, properly cleaned, grease fitting and properly cleaned grease gun used.

When applying the oxygen-approved lubricant to the valve core and curtain assembly, the curtain (valve port opening) should be fully closed. Before closing curtain, note existing valve curtain position. A good method of indicating initial curtain position is to count and record the number of turns required on the adjusting screw to fully close the curtain. Turning the adjusting screw back open the same number of turns will set curtain back to its initial position.