

March 2014

# N600 Series Ball Valves



P1708

Figure 1. N600 Series Ball Valves



## WARNING

Failure to follow these instructions or to properly install and maintain this equipment could result in an explosion and/or fire causing property damage and personal injury or death.

Fisher® equipment must be installed, with federal, state and local codes and manufacturer's instructions. The installation in most states must also comply with NFPA No. 58 or ANSI K61.1 standards.

Only personnel trained in the proper procedures, codes, standards and regulations applicable industries should install and service this equipment.

## Introduction

### Scope of the Manual

This Instruction Manual covers installation and maintenance for Fisher N600 Series Ball valves used on LP-Gas and anhydrous ammonia (NH<sub>3</sub>) service.

### Description



## WARNING

For "Hose End" service, use Fisher N480 Series hose end valves. Excessive cycling of ball valves can cause stem thread failure resulting in uncontrolled gas discharge and personal injury.



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# N600 Series

## Specifications

SERVICE	INLET AND OUTLET CONNECTIONS	TYPE NUMBER
		N600L
LP-Gas and NH <sub>3</sub>	2 FNPT	N610L-16
	3 FNPT	N610L-24

**Maximum Operating Pressure:** 1000 psig / 68.9 bar

**Temperature Capabilities:**

N600L Series: -60 to 450°F / -51 to 232°C

Ball valves are used at bulk plants to control gas flow in the piping system, at storage tanks, on trucks and at pumps or compressors.

For LP-Gas service, a hydrostatic relief valve (Type H124) or a vent valve be installed when liquid product can be trapped in a hydrostatic state between to shutoff valves.

**Type N610L** – Steel or Stainless Steel valves for either LP-Gas or NH<sub>3</sub> service. Ranging in size from NPS 2 to 3 / DN 50 to 80 only, each valve has PTFE packing for sealing against leakage.

N600L Series configurations are suitable for low-temperature operating conditions.

Use pipe compound on the threaded joints. Make sure the compound or 'pipe dope' is suitable for the service conditions.

Pull the piping into the valve hand tight, and then wrench tighten the piping for approximately two additional turns. Do not install the piping with such extreme torque that the piping can cut threads into the valve. This can cause valve distortion and affect the internal working parts. Larger size valves may require an additional amount of torque to obtain a leak free connection.

After installation, test the inlet and outlet connections and around the stem for leaks using an approved leak detector solution.

## Installation



### CAUTION

**If the valve is to be used in service other than LP-Gas or Anhydrous Ammonia, contact the factory to determine if the valve materials are suitable for the particular service.**

### LP-Gas Equipment

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