

Consolidated* 2700 Series Safety Valve

fact sheet

Overview

The Consolidated Type 2700 safety valve from GE Energy is designed to meet the needs of the fast-growing cogeneration and waste-to-energy segments.

Valve Operation

In Figure 1, the upper adjusting ring (G) is positioned to attain full lift at pop and to control the pressure at which the valve will begin to close. The lower adjusting ring (O) ensures a sharp pop action at the set pressure and cushions the valve on closing.

When full lift is attained (Figure 2), the lift stop (M) rests against the yoke (T) to eliminate hunting, adding stability to the valve. When the valve discharges in an open position, steam is bled into the chamber (H) through two bleed holes (J) in the roof of the disc holder. The steam escapes to the atmosphere through the pipe discharge connection (R).

Figure 1: Closed

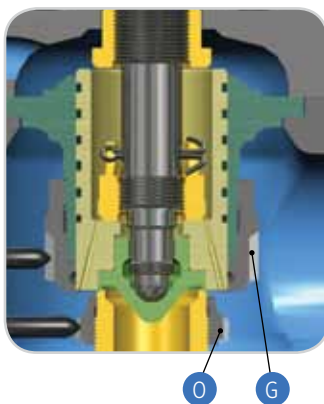
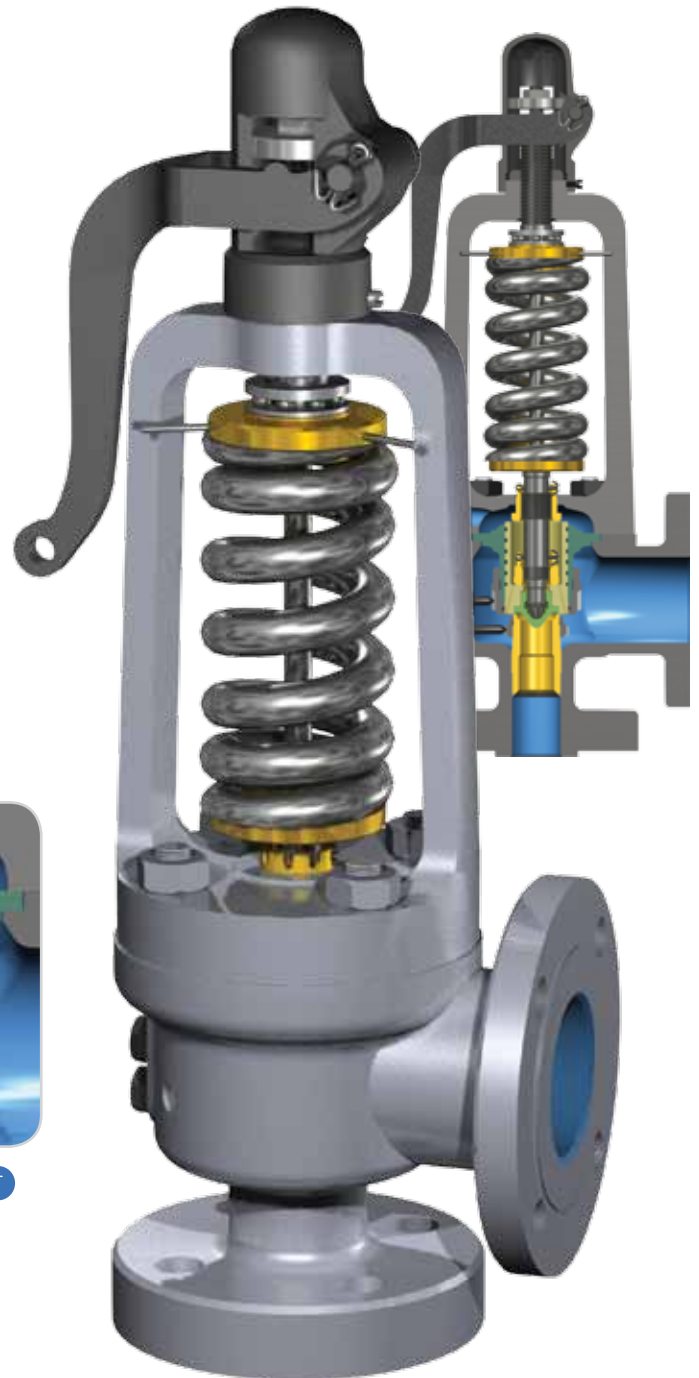
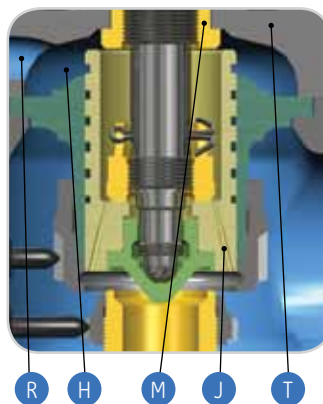


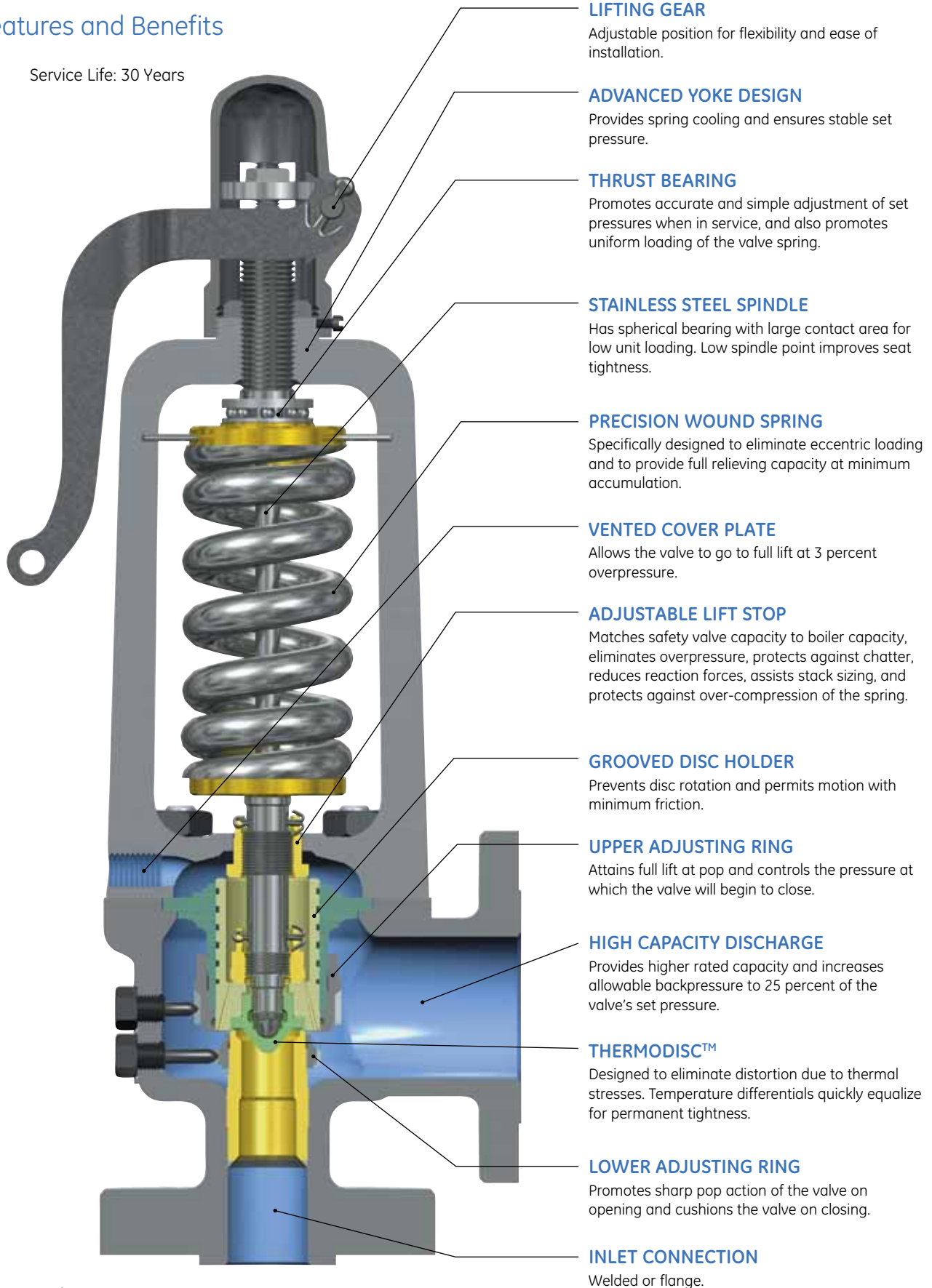
Figure 2: Full Lift



Consolidated* 2700 Series Safety Valve

Features and Benefits

Service Life: 30 Years



fact sheet

Specifications

INLET SIZES	1.5" (38.1 mm) through 6" (152.4 mm) in either flanged or weld neck design
INLET RATINGS	ANSI Class 600, 900 and 1500
OUTLET SIZES	3" (76.2 mm) through 8" (203.2 mm) flanged.
OUTLET RATINGS	ANSI Class 150 and 300
ORIFICE SIZES	Seven sizes: 1 through Q.
TEMPERATURE RANGE	-20°F (-28.9°C) to 1050°F (565.6°C)
MATERIALS	Alloy and carbon steel cast body with stainless steel trim is standard. Special alloys are available for specific applications
CERTIFICATION	ASME B and PVC Section I and VIII
BLOWDOWN	4 percent
BACK PRESSURE LIMIT	25 percent of set pressure



* Consolidated is a registered trademark of the General Electric Company.
Other company names and product names used in this document are the registered trademarks
or trademarks of their respective owners.

© 2012 General Electric Company. All rights reserved.

GEAxxxxx Month/2012
[Formerly Consolidated Doc ID 00/00]