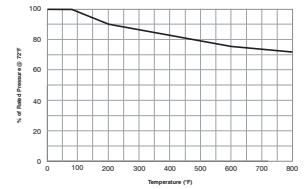


ISO-9001  
CERTIFIED



## Technical Information

**MAXIMATOR** has been designing and manufacturing high pressure equipment for more than thirty years and has a worldwide reputation for quality and reliability. Their work is based on a certified quality management system (DIN EN ISO 9001:2015) - the fundamental asset for successfully implementing technical knowledge and experience in the field of complex systems.

### Product features:

- ▶ Maximator's Quality Management System meets all requirements of DIN EN ISO 9001:2015, TÜV Certification to 9-12-2021.
- ▶ All valves, fittings and tubing are designed in accordance with the European Pressure Equipment Directive 97/23/EC.
- ▶ Pressure vs. Temperature chart for 316 cold worked stainless steel.

**MAXPRO Technologies** is the exclusive North American distributor for Maximator products. At Maxpro our industry experience is unparalleled. Whether General Industrial, Oil & Gas, Water Jet, Chemical or Petrochemical applications, our teams of experienced engineers and highly trained professionals have worked in the high pressure industry for decades and are prepared to support your needs. Our guiding principles are safety, quality, and dependability. Our comprehensive inventory will ensure quick delivery that is unmatched in today's environment.

**Note:** When selecting multiple items, the pressure rating would be that of the lowest rated component.

### Technical Information Index

Pressure vs. Temperature Chart . . . . .	2
Temperature Table . . . . .	3
TUV Certificate. . . . .	4

**Maxpro Technologies, Inc.**  
7728 Klier Drive South · Fairview Pennsylvania 16415  
Phone: 814-474-9191 · Fax: 814-474-9391  
website: www.maxprotech.com

All general terms and conditions of sale, including limitations of our liability, apply to all products and services sold.  
MT R5 1018



Printed in the USA

### Special Designs for Extreme Temperatures

The information in this section is presented as general data for assisting a user in the selection of valves, fittings and tubing for elevated pressure and/or temperature applications in liquid or gas plumbing systems.

To calculate the maximum allowable working pressure at elevated temperatures, multiply the maximum pressure rating of the pressure component at room temperature, by the elevated temperature factor (% of rated Pressure @ 72 °F). This chart represents an average value and is for reference only, other limiting factors may be seal materials and component type configuration.

Maximator's medium, high and ultra-high pressure valves, fittings and tubing are good for most services from light vacuum up to 152,000 psi, depending on the pressure series selected. Coned and threaded type tube fittings, standard on all Maximator valves and fittings, can be used for most liquids and gases including lighter gases such as Hydrogen and Helium.

Compatibility of the valve, fitting and tubing materials with the

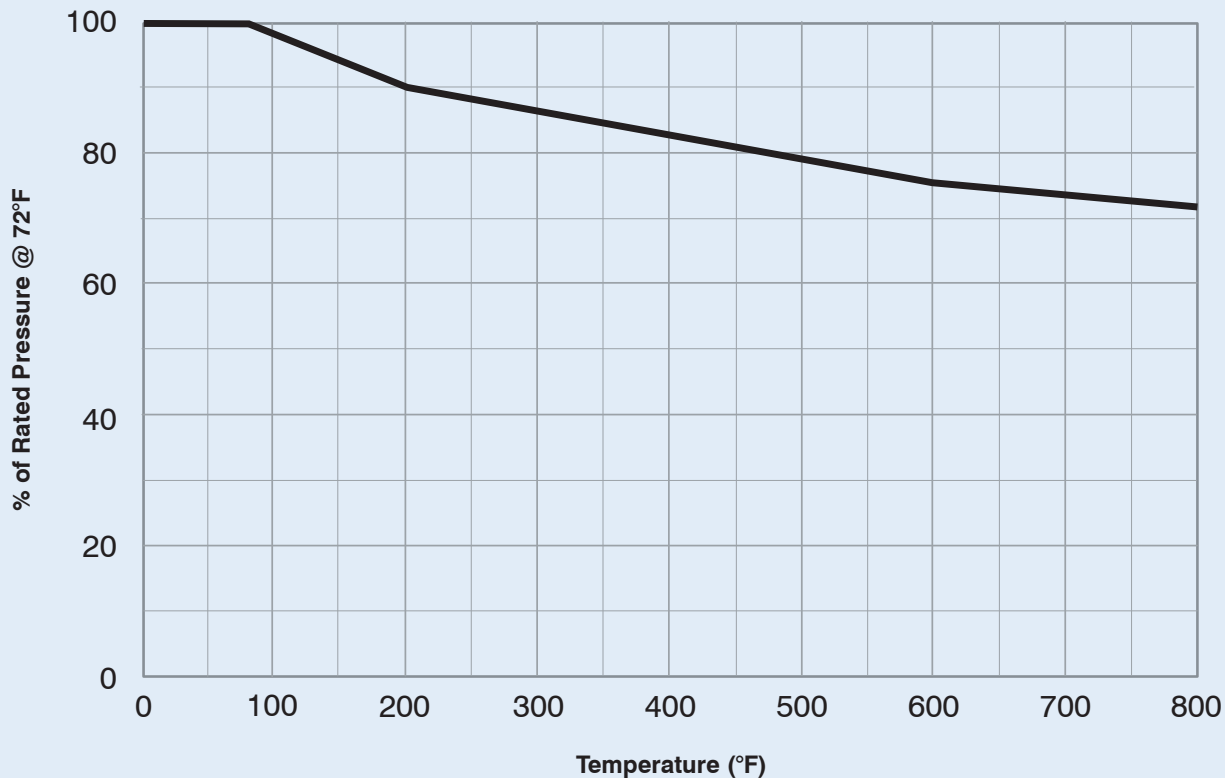
actual process fluid is ultimately the responsibility of the user. Maxpro Technologies can assist in applications but is not an authority on all process fluids.

Some special applications such as Oxygen service require special cleaning and that option is available from Maxpro Technologies.

Below is a reference chart showing the effects of pressure versus temperature of cold worked 316 stainless steel material. When operating temperatures are above 800 °F, a phenomenon called intergranular corrosion can occur. This condition can permanently change the material properties of the cold worked stainless material. Once the material has seen this elevated temperature, the material is considered to be permanently altered and a lower allowable pressure applies.

Other factors such as creep resistance, packing design and materials, corrosion resistance, cyclic conditions, and other process variables may affect the use of components at elevated temperatures. Consult factory when operating above 800 °F.

**Pressure vs. Temperature Chart  
for cold worked 316 SS**



**Note:** The above pressure temperature chart is for 316 cold worked materials, this chart does not account for the temperature rating of packing or o-ring material which could be the limiting factor. Contact factory for other material limitations.

### 316SS Pressure Components Temperature Table; Valves, Fittings and Tubings

Component Type	Component Catalog Number	Media Temperature		Remarks
		min.	max.***	
Medium Pressure, High Pressure and Ultra High Pressure series Tubing and Fittings	<b>TU, N, F, X, T, L BF, A, AVA, C, G, M, P, TC, UF</b>	-423 °F	1200 °F	
Pipe Fittings	<b>F, X, T, L, BF, P, M</b>	-330 °F	520 °F	Recommendations: 1 °F to 400 °F depending on the application (also see pipe thread sealant data for temperature limitations).
Pipe Valves	<b>15V ....</b>	-60 °F	450 °F	
	<b>15V.... - B</b>	-100 °F	300 °F	
Medium Pressure Valves, High Pressure Valves	<b>21V.... - 65V....</b>	-60 °F	450 °F	
	<b>21V....- B -65V...- B</b>	-100 °F	300 °F	
	<b>21V....- TG -65V....- TG</b>	-60 °F	600 °F	
	<b>21V....- GY 65V....- GY</b>	-60 °F	800 °F	
	<b>21V....- HT -65V....- HT</b>	-60 °F	1200 °F	
	<b>21V....- LT -65V....- LT</b>	-423 °F	450 °F	
Ball Valves	<b>..B....</b>	-4 °F	300 °F	
Check Valves	<b>...OC.. (Standard: Viton Material)</b>	-4 °F	390 °F	Depending on O-Ring material
	<b>....BC..</b>	-330 °F	660 °F	
Safety Head Assemblies	<b>....SH..</b>	-423 °F	660 °F	
Filters	<b>....DF..</b>	-423 °F	660 °F	
	<b>....CF..</b>	-423 °F	660 °F	
Rupture Discs	<b>RD - ...</b>	72 °F		Operating above or below 72 °F will affect disc burst pressure.
Air Valve Actuators Only	<b>....YM..../...YH....</b>	-20 °F	200 °F	
Ball Valve Actuators Only	<b>DA/SA</b>	-4 °F	203 °F	
	<b>EL/EH</b>	0 °F	160 °F	

\*\*\* Important: When operating above ambient temperatures (68 °F) with 316SS cold worked material pressure components, the maximum allowable working pressure must be derated per the "Pressure vs. Temperature Chart" located in this section on page 2.

# CERTIFICATE



## for the management system according to ISO 9001:2015

The proof of the conforming application with the regulation was furnished and in accordance with certification procedure it is certified for the company

**MAXIMATOR®**  
**Maximum Pressure.**

**MAXIMATOR GmbH**  
**Lange Straße 6**  
**99734 Nordhausen / Germany**

### Scope

**Design, manufacture and sale of high pressure equipment such as valves, fittings, pumps and compressors. Integration of such devices in distributors, hydraulic units and gas booster stations as well as realization of complete test and pressure systems.**

Certificate Registration No.: TIC 15 100 4011

Valid until: 2021-09-12

Valid from: 2018-09-13

Audit Report No.: 3330 20WJ T0

This certification was conducted in accordance with the TIC auditing and certification procedures and is subject to regular surveillance audits.

TÜV Thüringen e.V.  
Certification body for  
systems and personnel



Jena, 2018-09-13



Deutsche  
Akkreditierungsstelle  
D-ZM-16006-05-01



Original certificates  
are branded with a hologram.

The current validity can be demanded at our homepage [www.tuev-thueringen.de](http://www.tuev-thueringen.de)

Zertifizierungsstelle des TÜV Thüringen e.V. • Ernst-Ruska-Ring 8 • D-07745 Jena • ☎ +49 3641 388740 • ✉ [zertifizierung@tuev-thueringen.de](mailto:zertifizierung@tuev-thueringen.de)