



DEACON INDUSTRIAL SUPPLY COMPANY, INC.

PRESSURE – TEMPERATURE RATINGS BRONZE – Gate, Globe, Angle And Check Valves

MANUFACTURER'S STANDARDIZATION SOCIETY (MSS) STANDARD PRACTICE SP-80.

MSS-SP 80 provides a temperature pressure chart for 125, 150, 200, 300 and 350 class bronze valves, covering temperatures from - 20° F. to 550° F.

There are some special exceptions noted such as temperatures below - 20° F. and for solder joints, but this is a chart that provides the basic temperature pressure relationships for the bronze valves themselves. The maximum recommended pressure temperature ratings for solder joints vary with the solder and the size and they are specified in ANSI B16.18.

| Press. Class End. Conn. | PRESSURE - PSI (SWP) | | | | | | | |
|----------------------------|----------------------|-----|-----|-----------|------|-----|-----|------|
| | 125 | 150 | | 200 | 300 | | | 350 |
| | THD | THD | FLG | THD | THD | THD | FLG | THD |
| Temp. deg. F | MATERIAL | | | | | | | |
| | ASTM B-62 | | | ASTM B-61 | | | | |
| -20° to 150° | 200 | 300 | 225 | 400 | 1000 | 600 | 500 | 1000 |
| 200° | 185 | 270 | 210 | 375 | 920 | 560 | 475 | 920 |
| 250° | 170 | 240 | 195 | 350 | 830 | 525 | 450 | 830 |
| 300° | 155 | 210 | 180 | 325 | 740 | 490 | 425 | 750 |
| 350° | 140 | 180 | 165 | 300 | 650 | 450 | 400 | 670 |
| 400° | --- | --- | --- | 275 | 560 | 410 | 375 | 590 |
| 406° | 125 | 150 | 150 | --- | --- | --- | --- | --- |
| 450° | 120 | 145 | --- | 250 | 480 | 375 | 350 | 510 |
| 500° | --- | --- | --- | 225 | 390 | 340 | 325 | 430 |
| 550° | --- | --- | --- | 200 | 300 | 300 | 300 | 350 |