

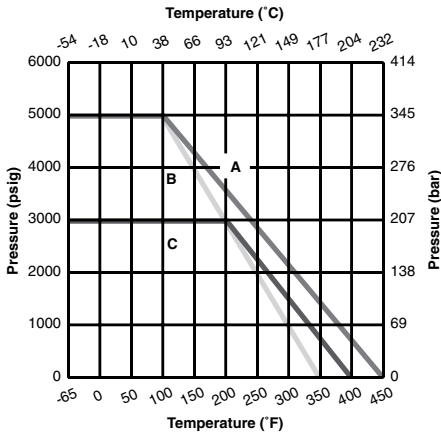
General Description: Parker V Series Needle Valves are designed for positive leak tight shut-off and regulation of fluids in process, power, and instrumentation applications. With a wide variety of port sizes and styles, temperature capabilities ranging from -65° F to 450° F and pressures to 5000 psig, V Series Needle Valves provide the user with the utmost in flexibility when designing miniaturized tubing or piping systems.

- Features:**
- Choice of three stem types:
R-Stem – All metal, blunt stem tip
N-Stem – All metal, tapered needle stem tip
K-Stem – PCTFE stem tip
 - Differential hardness between the strain hardened stem and cold formed body threads provides improved cycle life
 - Choice of PTFE packing or elastomeric O-ring stem seals
 - 316 Stainless Steel and Brass
 - Inline and angle patterns

- Specifications:**
- Pressure Ratings:
316 Stainless Steel: 5000 psig CWP
Brass: 3000 psig CWP
 - Orifice: 0.078” to 0.312”
 - Cv: 0.12 to 1.90
 - Port size: 1/8” to 3/4”
 - Temperature Ratings:
Stainless Steel: -65° F to 450° F
Brass: -65° F to 400° F
PTFE Packing: -65° F to 450° F
PCTFE Stem Tip: -65° F to 350° F
Buna-N Rubber Stem Seal: -30° F to 250° F
Fluorocarbon Rubber Stem Seal: -15° F to 400° F
Ethylene Propylene Rubber Stem Seal: -70° F to 275° F

Note: When combining body, seat and seal materials, the most restrictive temperature rating becomes the limiting factor on temperature range

PRESSURE VS. TEMPERATURE



Legend: A - Stainless Steel with N or R stems; B - Stainless Steel with K stem; C - Brass with N or R stems.

Note: To determine MPa, multiply bar by 0.1

