

# Parker Product Datasheet



Parker's Colorflow N series hydraulic flow control, in-line needle valves meters flow in both directions or provides a reliable shut off. This needle valve flow control is used in air and oil applications and has standard and fine metering options.

**PART NUMBER:** 9N800B  
**MAXIMUM OPERATING TEMPERATURE:** +205°F  
**MAXIMUM OPERATING PRESSURE:** 2000  
**MINIMUM OPERATING TEMPERATURE:** -40.0  
**CONNECTION TYPE:** BSPP  
**CONNECTION SIZE:** 1/2  
**BODY MATERIAL:** Brass  
**SEAL MATERIAL:** Nitrile  
**MAXIMUM FLOW RATE:** 15  
**ACTUATION TYPE:** Manual  
**KNOB OPTION:** Standard Knob  
**NEEDLE OPTION:** Standard

## PRODUCT OVERVIEW

Parker's N series valve is a two-step needle that allows fine adjustment at low flow by using the first three turns of the adjusting knob. The next three turns open the valve to full flow and provides standard throttling adjustments.

Markets:

- Factory Automation
- Machine Tools
- Marine
- Material Handling
- Mining

- Miscellaneous Industrial
- Miscellaneous Manufacturing
- Molding
- Oil & Gas
- Power Generation
- Vehicle Assembly Facilities

Features/Benefits:

- Tamperproof option available
- Set screw locks the valve on a desired setting
- Port sizes available in 8 sizes from 1/8" to 1 1/4"
- Material offerings are brass, steel and stainless steel
- Port options include ISO 6149, NPT, BSPP, BSPT and SAE
- The exclusive "Colorflow" color-band provide an accurate visual indication of setting

Applications:

- Suitable for general hydraulic applications

# TECH SPECIFICATIONS

|                                      |                                  |
|--------------------------------------|----------------------------------|
| <b>MAXIMUM OPERATING TEMPERATURE</b> | 121 °C                           |
| <b>MAXIMUM OPERATING TEMPERATURE</b> | 250 °F                           |
| <b>DIVISION</b>                      | Hydraulic Valve Systems Division |
| <b>MAXIMUM OPERATING PRESSURE</b>    | 2000 psi                         |
| <b>MINIMUM OPERATING TEMPERATURE</b> | -40 °F                           |
| <b>MINIMUM OPERATING TEMPERATURE</b> | -40 °F                           |
| <b>CONNECTION TYPE</b>               | BSPP                             |
| <b>MEDIA</b>                         | Air                              |
| <b>MEDIA</b>                         | Oil                              |
| <b>BRAND</b>                         | Colorflow                        |

|                          |              |
|--------------------------|--------------|
| <b>PRODUCT STYLE</b>     | Needle Valve |
| <b>BODY MATERIAL</b>     | Brass        |
| <b>SEAL MATERIAL</b>     | Nitrile      |
| <b>MAXIMUM FLOW RATE</b> | 15 gal/min   |
| <b>MAXIMUM FLOW RATE</b> | 57 L/min     |
| <b>MOUNTING TYPE</b>     | Inline       |
| <b>ACTUATION TYPE</b>    | Manual       |