



## Description & Features:

- Excellent flow regulation and leak tight
- The one-piece body construction (no welding) provides strength, safety and corrosion resistance
- "Slow opening" prevents sudden pressure surge and instrument damage
- Materials include carbon steel, carbon steel NACE, stainless steel, stainless steel NACE
- Available in Hard Seat (6,000 and 10,000 psi)
- ASME B1.20.1 compliant
- CRN registered
- 5 year warranty

## Applications:

- Highly reliable throttle and block valve for gas or liquid service in severe duty oil and gas installations including refineries and processing plants as well as water treatment plants, power plants and hydraulic applications

## Order Codes (products in bold are normally stock in North America)

| NPT Connection               | Material        | Max. Pressure | Code    | NPT Connection               | Material                   | Max. Pressure | Code     |
|------------------------------|-----------------|---------------|---------|------------------------------|----------------------------|---------------|----------|
| 1/4" Female x<br>1/4" Female | Carbon Steel    | 6,000 psi     | NVA5020 | 1/4" Female x<br>1/4" Female | Carbon Steel<br>(NACE Tip) | 6,000 psi     | NVA5020N |
| 1/4" Male x<br>1/4" Female   |                 | 10,000 psi    | NVA6020 | 1/4" Male x<br>1/4" Female   |                            | 10,000 psi    | NVA6020N |
| 3/8" Female x<br>3/8" Female |                 | 6,000 psi     | NVA5000 | 3/8" Female x<br>3/8" Female |                            | 6,000 psi     | NVA5000N |
| 3/8" Male x<br>3/8" Female   |                 | 10,000 psi    | NVA6000 | 3/8" Male x<br>3/8" Female   |                            | 10,000 psi    | NVA6000N |
| 1/2" Female x<br>1/2" Female |                 | 6,000 psi     | NVA5024 | 1/2" Female x<br>1/2" Female |                            | 6,000 psi     | NVA5024N |
| 1/2" Male x<br>1/2" Female   |                 | 10,000 psi    | NVA6024 | 1/2" Male x<br>1/2" Female   |                            | 10,000 psi    | NVA6024N |
| 3/4" Female x<br>1/2" Female |                 | 6,000 psi     | NVA5004 | 3/4" Female x<br>1/2" Female |                            | 6,000 psi     | NVA5004N |
| 3/4" Male x<br>1/2" Female   |                 | 10,000 psi    | NVA6004 | 3/4" Male x<br>1/2" Female   |                            | 10,000 psi    | NVA6004N |
| 1" Female x<br>1" Female     |                 | 6,000 psi     | NVA5021 | 1" Female x<br>1" Female     |                            | 6,000 psi     | NVA5021N |
| 1" Male x<br>1" Female       |                 | 10,000 psi    | NVA6021 | 1" Male x<br>1" Female       |                            | 10,000 psi    | NVA6021N |
| 1/4" Female x<br>1/4" Female |                 | 6,000 psi     | NVA5001 | 1/4" Female x<br>1/4" Female |                            | 6,000 psi     | NVA5001N |
| 1/4" Male x<br>1/4" Female   |                 | 10,000 psi    | NVA6001 | 1/4" Male x<br>1/4" Female   |                            | 10,000 psi    | NVA6001N |
| 3/8" Female x<br>3/8" Female |                 | 6,000 psi     | NVA5022 | 3/8" Female x<br>3/8" Female |                            | 6,000 psi     | NVA5022N |
| 3/8" Male x<br>3/8" Female   |                 | 10,000 psi    | NVA6022 | 3/8" Male x<br>3/8" Female   |                            | 10,000 psi    | NVA6022N |
| 1/2" Female x<br>1/2" Female |                 | 6,000 psi     | NVA5002 | 1/2" Female x<br>1/2" Female |                            | 6,000 psi     | NVA5002N |
| 1/2" Male x<br>1/2" Female   |                 | 10,000 psi    | NVA6002 | 1/2" Male x<br>1/2" Female   |                            | 10,000 psi    | NVA6002N |
| 3/4" Female x<br>1/2" Female |                 | 6,000 psi     | NVA5025 | 3/4" Female x<br>1/2" Female |                            | 6,000 psi     | NVA5025N |
| 3/4" Male x<br>1/2" Female   |                 | 10,000 psi    | NVA6025 | 3/4" Male x<br>1/2" Female   |                            | 10,000 psi    | NVA6025N |
| 1" Female x<br>1" Female     |                 | 6,000 psi     | NVA5005 | 1" Female x<br>1" Female     |                            | 6,000 psi     | NVA5005N |
| 1" Male x<br>1" Female       |                 | 10,000 psi    | NVA6005 | 1" Male x<br>1" Female       |                            | 10,000 psi    | NVA6005N |
| 1/4" Female x<br>1/4" Female | Stainless Steel | 6,000 psi     | NVA5023 | 1/4" Female x<br>1/4" Female | Stainless Steel<br>NACE    | 6,000 psi     | NVA5023N |
| 1/4" Male x<br>1/4" Female   |                 | 10,000 psi    | NVA6023 | 1/4" Male x<br>1/4" Female   |                            | 10,000 psi    | NVA6023N |
| 3/8" Female x<br>3/8" Female |                 | 6,000 psi     | NVA5003 | 3/8" Female x<br>3/8" Female |                            | 6,000 psi     | NVA5003N |
| 3/8" Male x<br>3/8" Female   |                 | 10,000 psi    | NVA6003 | 3/8" Male x<br>3/8" Female   |                            | 10,000 psi    | NVA6003N |
| 1/2" Female x<br>1/2" Female |                 | 6,000 psi     | NVA2020 | 1/2" Female x<br>1/2" Female |                            | 6,000 psi     | NVA2020N |
| 1/2" Male x<br>1/2" Female   |                 | 10,000 psi    | NVA3020 | 1/2" Male x<br>1/2" Female   |                            | 10,000 psi    | NVA3020N |
| 3/4" Female x<br>1/2" Female |                 | 6,000 psi     | NVA2000 | 3/4" Female x<br>1/2" Female |                            | 6,000 psi     | NVA2000N |
| 3/4" Male x<br>1/2" Female   |                 | 10,000 psi    | NVA3000 | 3/4" Male x<br>1/2" Female   |                            | 10,000 psi    | NVA3000N |
| 1" Female x<br>1" Female     |                 | 6,000 psi     | NVA2024 | 1" Female x<br>1" Female     |                            | 6,000 psi     | NVA2024N |
| 1" Male x<br>1" Female       |                 | 10,000 psi    | NVA3024 | 1" Male x<br>1" Female       |                            | 10,000 psi    | NVA3024N |
| 1/4" Female x<br>1/4" Female |                 | 6,000 psi     | NVA2004 | 1/4" Female x<br>1/4" Female |                            | 6,000 psi     | NVA2004N |
| 1/4" Male x<br>1/4" Female   |                 | 10,000 psi    | NVA3004 | 1/4" Male x<br>1/4" Female   |                            | 10,000 psi    | NVA3004N |
| 3/8" Female x<br>3/8" Female |                 | 6,000 psi     | NVA2021 | 3/8" Female x<br>3/8" Female |                            | 6,000 psi     | NVA2021N |
| 3/8" Male x<br>3/8" Female   |                 | 10,000 psi    | NVA3021 | 3/8" Male x<br>3/8" Female   |                            | 10,000 psi    | NVA3021N |
| 1/2" Female x<br>1/2" Female |                 | 6,000 psi     | NVA2001 | 1/2" Female x<br>1/2" Female |                            | 6,000 psi     | NVA2001N |
| 1/2" Male x<br>1/2" Female   |                 | 10,000 psi    | NVA3001 | 1/2" Male x<br>1/2" Female   |                            | 10,000 psi    | NVA3001N |
| 3/4" Female x<br>1/2" Female |                 | 6,000 psi     | NVA2022 | 3/4" Female x<br>1/2" Female |                            | 6,000 psi     | NVA2022N |
| 3/4" Male x<br>1/2" Female   |                 | 10,000 psi    | NVA3022 | 3/4" Male x<br>1/2" Female   |                            | 10,000 psi    | NVA3022N |
| 1" Female x<br>1" Female     |                 | 6,000 psi     | NVA2002 | 1" Female x<br>1" Female     |                            | 6,000 psi     | NVA2002N |
| 1" Male x<br>1" Female       |                 | 10,000 psi    | NVA3002 | 1" Male x<br>1" Female       |                            | 10,000 psi    | NVA3002N |
| 1/4" Female x<br>1/4" Female | Carbon Steel    | 6,000 psi     | NVA2025 | 1/4" Female x<br>1/4" Female | Carbon Steel<br>(NACE Tip) | 6,000 psi     | NVA2025N |
| 1/4" Male x<br>1/4" Female   |                 | 10,000 psi    | NVA3025 | 1/4" Male x<br>1/4" Female   |                            | 10,000 psi    | NVA3025N |
| 3/8" Female x<br>3/8" Female |                 | 6,000 psi     | NVA2005 | 3/8" Female x<br>3/8" Female |                            | 6,000 psi     | NVA2005N |
| 3/8" Male x<br>3/8" Female   |                 | 10,000 psi    | NVA3005 | 3/8" Male x<br>3/8" Female   |                            | 10,000 psi    | NVA3005N |
| 1/2" Female x<br>1/2" Female |                 | 6,000 psi     | NVA2023 | 1/2" Female x<br>1/2" Female |                            | 6,000 psi     | NVA2023N |
| 1/2" Male x<br>1/2" Female   |                 | 10,000 psi    | NVA3023 | 1/2" Male x<br>1/2" Female   |                            | 10,000 psi    | NVA3023N |
| 3/4" Female x<br>1/2" Female |                 | 6,000 psi     | NVA2003 | 3/4" Female x<br>1/2" Female |                            | 6,000 psi     | NVA2003N |
| 3/4" Male x<br>1/2" Female   |                 | 10,000 psi    | NVA3003 | 3/4" Male x<br>1/2" Female   |                            | 10,000 psi    | NVA3003N |
| 1" Female x<br>1" Female     |                 | 6,000 psi     | NVA2020 | 1" Female x<br>1" Female     |                            | 6,000 psi     | NVA2020N |
| 1" Male x<br>1" Female       |                 | 10,000 psi    | NVA3020 | 1" Male x<br>1" Female       |                            | 10,000 psi    | NVA3020N |
| 1/4" Female x<br>1/4" Female | Stainless Steel | 6,000 psi     | NVA2000 | 1/4" Female x<br>1/4" Female | Stainless Steel<br>NACE    | 6,000 psi     | NVA2000N |
| 1/4" Male x<br>1/4" Female   |                 | 10,000 psi    | NVA3000 | 1/4" Male x<br>1/4" Female   |                            | 10,000 psi    | NVA3000N |
| 3/8" Female x<br>3/8" Female |                 | 6,000 psi     | NVA2024 | 3/8" Female x<br>3/8" Female |                            | 6,000 psi     | NVA2024N |
| 3/8" Male x<br>3/8" Female   |                 | 10,000 psi    | NVA3024 | 3/8" Male x<br>3/8" Female   |                            | 10,000 psi    | NVA3024N |
| 1/2" Female x<br>1/2" Female |                 | 6,000 psi     | NVA2004 | 1/2" Female x<br>1/2" Female |                            | 6,000 psi     | NVA2004N |
| 1/2" Male x<br>1/2" Female   |                 | 10,000 psi    | NVA3004 | 1/2" Male x<br>1/2" Female   |                            | 10,000 psi    | NVA3004N |
| 3/4" Female x<br>1/2" Female |                 | 6,000 psi     | NVA2021 | 3/4" Female x<br>1/2" Female |                            | 6,000 psi     | NVA2021N |
| 3/4" Male x<br>1/2" Female   |                 | 10,000 psi    | NVA3021 | 3/4" Male x<br>1/2" Female   |                            | 10,000 psi    | NVA3021N |
| 1" Female x<br>1" Female     |                 | 6,000 psi     | NVA2001 | 1" Female x<br>1" Female     |                            | 6,000 psi     | NVA2001N |
| 1" Male x<br>1" Female       |                 | 10,000 psi    | NVA3001 | 1" Male x<br>1" Female       |                            | 10,000 psi    | NVA3001N |
| 1/4" Female x<br>1/4" Female | Carbon Steel    | 6,000 psi     | NVA5020 | 1/4" Female x<br>1/4" Female | Carbon Steel<br>(NACE Tip) | 6,000 psi     | NVA5020N |
| 1/4" Male x<br>1/4" Female   |                 | 10,000 psi    | NVA6020 | 1/4" Male x<br>1/4" Female   |                            | 10,000 psi    | NVA6020N |
| 3/8" Female x<br>3/8" Female |                 | 6,000 psi     | NVA5000 | 3/8" Female x<br>3/8" Female |                            | 6,000 psi     | NVA5000N |
| 3/8" Male x<br>3/8" Female   |                 | 10,000 psi    | NVA6000 | 3/8" Male x<br>3/8" Female   |                            | 10,000 psi    | NVA6000N |
| 1/2" Female x<br>1/2" Female |                 | 6,000 psi     | NVA5024 | 1/2" Female x<br>1/2" Female |                            | 6,000 psi     | NVA5024N |
| 1/2" Male x<br>1/2" Female   |                 | 10,000 psi    | NVA6024 | 1/2" Male x<br>1/2" Female   |                            | 10,000 psi    | NVA6024N |
| 3/4" Female x<br>1/2" Female |                 | 6,000 psi     | NVA5004 | 3/4" Female x<br>1/2" Female |                            | 6,000 psi     | NVA5004N |
| 3/4" Male x<br>1/2" Female   |                 | 10,000 psi    | NVA6004 | 3/4" Male x<br>1/2" Female   |                            | 10,000 psi    | NVA6004N |
| 1" Female x<br>1" Female     |                 | 6,000 psi     | NVA5021 | 1" Female x<br>1" Female     |                            | 6,000 psi     | NVA5021N |
| 1" Male x<br>1" Female       |                 | 10,000 psi    | NVA6021 | 1" Male x<br>1" Female       |                            | 10,000 psi    | NVA6021N |
| 1/4" Female x<br>1/4" Female |                 | 6,000 psi     | NVA5001 | 1/4" Female x<br>1/4" Female |                            | 6,000 psi     | NVA5001N |
| 1/4" Male x<br>1/4" Female   |                 | 10,000 psi    | NVA6001 | 1/4" Male x<br>1/4" Female   |                            | 10,000 psi    | NVA6001N |
| 3/8" Female x<br>3/8" Female |                 | 6,000 psi     | NVA5022 | 3/8" Female x<br>3/8" Female |                            | 6,000 psi     | NVA5022N |
| 3/8" Male x<br>3/8" Female   |                 | 10,000 psi    | NVA6022 | 3/8" Male x<br>3/8" Female   |                            | 10,000 psi    | NVA6022N |
| 1/2" Female x<br>1/2" Female |                 | 6,000 psi     | NVA5002 | 1/2" Female x<br>1/2" Female |                            | 6,000 psi     | NVA5002N |
| 1/2" Male x<br>1/2" Female   |                 | 10,000 psi    | NVA6002 | 1/2" Male x<br>1/2" Female   |                            | 10,000 psi    | NVA6002N |
| 3/4" Female x<br>1/2" Female |                 | 6,000 psi     | NVA5025 | 3/4" Female x<br>1/2" Female |                            | 6,000 psi     | NVA5025N |
| 3/4" Male x<br>1/2" Female   |                 | 10,000 psi    | NVA6025 | 3/4" Male x<br>1/2" Female   |                            | 10,000 psi    | NVA6025N |
| 1" Female x<br>1" Female     |                 | 6,000 psi     | NVA5005 | 1" Female x<br>1" Female     |                            | 6,000 psi     | NVA5005N |
| 1" Male x<br>1" Female       |                 | 10,000 psi    | NVA6005 | 1" Male x<br>1" Female       |                            | 10,000 psi    | NVA6005N |

### Option suffix:

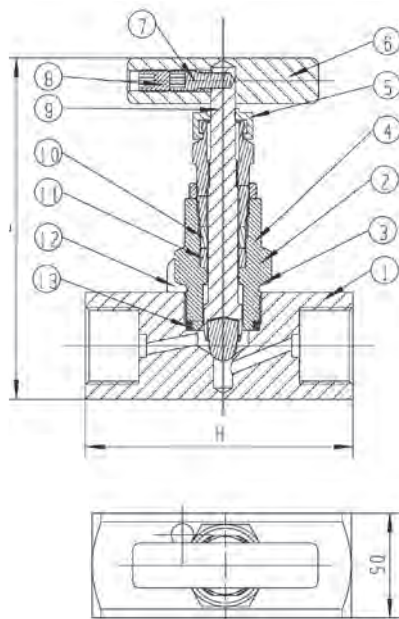
CPM = Carbon steel panel mount kit

SPM = Stainless steel panel mount kit

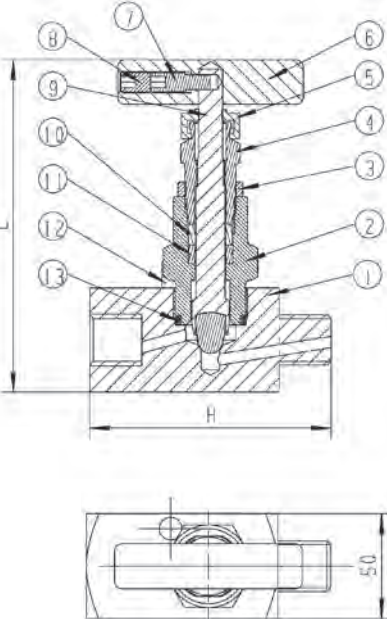
## Material

| Description         | Component Number | Carbon Steel  | Carbon Steel NACE | Stainless Steel | Stainless Steel NACE |
|---------------------|------------------|---------------|-------------------|-----------------|----------------------|
| Body                | 1                | Carbon Steel  | Carbon Steel      | 316 SS          | 316 SS NACE          |
| Bonnet              | 2                | Carbon Steel  | Carbon Steel      | 316 SS          | 316 SS NACE          |
| Adapter Locknut     | 3                | Carbon Steel  | Carbon Steel      | 304 SS          | 304 SS               |
| Adapter             | 4                | 316 SS        | 316 SS NACE       | 316 SS          | 316 SS NACE          |
| Dustcap             | 5                | Nylon         | Nylon             | Nylon           | Nylon                |
| Handle              | 6                | Carbon Steel  | Carbon Steel      | 304 SS          | 304 SS               |
| Screw               | 7                | 304 SS        | 304 SS            | 304 SS          | 304 SS               |
| Fastening Screw     | 8                | 304 SS        | 304 SS            | 304 SS          | 304 SS               |
| Needle / Needle Tip | 9                | 316 SS        | 316 SS NACE       | 316 SS          | 316 SS NACE          |
| Gland Washer        | 10               | Carbon Steel  | Carbon Steel      | 304 SS          | 304 SS               |
| Gland Packing       | 11               | PTFE/Graphite | PTFE/Graphite     | PTFE/Graphite   | PTFE/Graphite        |
| Dwell Pin           | 12               | Carbon Steel  | Carbon Steel      | 304 SS          | 304 SS               |
| Gland Packing       | 13               | PTFE/Graphite | PTFE/Graphite     | PTFE/Graphite   | PTFE/Graphite        |

## Female x Female



## Male x Female



## Dimensions

| Size                      | H            | L             | SQ           |
|---------------------------|--------------|---------------|--------------|
| 1/4" Female x 1/4" Female | 2.56" (65mm) | 3.50" (89mm)  | 1.10" (28mm) |
| 1/4" Male x 1/4" Female   | 2.56" (65mm) | 3.50" (89mm)  | 1.10" (28mm) |
| 3/8" Female x 3/8" Female | 2.56" (65mm) | 3.50" (89mm)  | 1.10" (28mm) |
| 3/8" Male x 3/8" Female   | 2.56" (65mm) | 3.50" (89mm)  | 1.10" (28mm) |
| 1/2" Female x 1/2" Female | 2.76" (70mm) | 3.50" (89mm)  | 1.10" (28mm) |
| 1/2" Male x 1/2" Female   | 2.76" (70mm) | 3.50" (89mm)  | 1.10" (28mm) |
| 3/4" Female x 1/2" Female | 2.83" (72mm) | 3.66" (93mm)  | 1.26" (32mm) |
| 3/4" Male x 1/2" Female   | 2.83" (72mm) | 3.50" (89mm)  | 1.10" (28mm) |
| 3/4" Female x 3/4" Female | 2.83" (72mm) | 3.66" (93mm)  | 1.26" (32mm) |
| 3/4" Male x 3/4" Female   | 2.83" (72mm) | 3.66" (93mm)  | 1.26" (32mm) |
| 1" Female x 1" Female     | 3.23" (82mm) | 3.98" (101mm) | 1.58" (40mm) |
| 1" Male x 1" Female       | 3.23" (82mm) | 3.98" (101mm) | 1.58" (40mm) |

## Panel Mont Kit (CPM/SPM)

