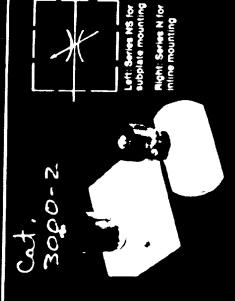
## Series N and NS

These valves provide excellent speed control and shutoff for hydraulic and pneumatic applications where a reverse-flow check valve is not required. They also take minimum space for installation, conserving space. The two-step needle valve allows fine tuning at low flow with the first three turns of the adjusting knob, with full-open flow plus conventional precision throttling with the final three turns of the knob.

Exclusive "Colorflow" color bands permit fast, accurate setting and time-saving return to a previous setting.

Available in brass and steel. Brass types are suitable for both air and oil.



### Maximum working pressures:

189-80CB

Inline 200-800 Sizes: 5000 PSI Inline 1020-2400 Sizes: 3000 P Subplate All Sizes: 3000 PSI Steel:

2000 PSI (140) Bar), except 500 PSI (34 Bar) for N1600 Brass Brass:

Standard Needle on all models. Fine needle optional on Models N400, 600, 620, 820. Needles:

# Quick Reference Data Chart

Valve	Flow, max. GPM (L/M)	Effective Orffice Area Control Flow (Sq. In.)	Effective Control Flow	Port Size, Inches
N200 ·	3 (11)	0.0102	0.230	18 NPTE
N400 • NS400 N620 •	5 (19)	.0194	.443	1/4 NPTF 1/4 1/4 9/16-18 JINE SAF 8)
N600 • NS600 • N820 •	8 (30)	.0344	787.	3/8 NPTF 3/8 3/4-16 UNF (SAE 8)
N800 • NS800 N1020 •	15 (57)	.0427	976.	1/2 NPTF 1/2 7/8-14 UNF (SAE 10)
N1200 • NS1200 N1220	25 (95)	.1080	2.470	3/4 NPTF 3/4 1-1/16:12 UNF (SAF 12)
N1420	30 (114)	.1500	3.420	1-3/16-12 UN (SAE 14)
N1600 • NS1600	40 (151)	.2300	5.250	1 NPTF 1
N1620	40 (151)	.3070	7.000	1-5/16-12 UN (SAE 16)
N2000	70 (264)	.2300	5.250	1-1/4 NPTF
N2020	70 (264)	.3710	8.470	1-5/8-12 UN (SAF 20)
N2400	100 (379)	.2300	5.250	1-1/2-11-1/2 NPTF

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Parker Fluidpower

Manatrol Division Elyria, OH 44035

8008-684

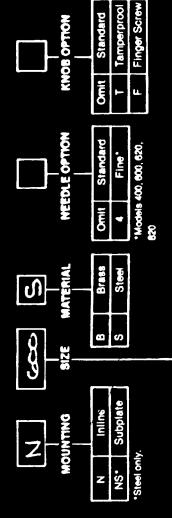
### Needle Valves Series N and NS

### Ordering Information

# Needle Valves Series N and NS

Example: "N600BV" means Inline needle valve, 3/8", brass, Viton seal, Standard needle.

189-1008



Omit Nitrile V Viton

SEAL MATERIAL

2001 - 1/8"	8201 - SAE 8	1600 – 1″
400 – 1/4"	10201 - SAE 10	16201 (SAE 16)
600 – 3/8"	1200 – 34"	20001 - 1-1/4"
6201 - SAE 6	12201 - SAE 12	20201 (SAE 20)
800 - 1/2"	14201 - SAE 14	24001 - 1-1/2"

thot Avrilable in Subplate Mounting Note: Brass valves available only in N200, 400, 600, 600, 1200 and 1600 sizes.

#### Accessories

#### Subplates

Valve	Subplate	Ports	Location
NS400	001229-2	1/4" NPTF	Bottom
NS600	004170-2	3/8" NPTF	Bottom
NS800	007111-2	1/2" NPTF	Bottom
NS1200	01065-2	34" NPTF	Bottom
NS1600	025075-2	1" NPTF	Bottom

#### **Bolt Kits**

Valve	Bot Kit	Bott Specification*	Bott Torque
NSAOO	BK01	1/4-20 x 1-1/4"	9 FtLbs.
NS600	BK02	1/4.20 x 1.1/2"	9 FtLbs.
NS800	BK02	1/4-20 x 1-1/2"	9 FtLbs.
NS1200	BKOS	5/16-18 x 1-3/4"	19 FtLbs.
NS1600	BKO	5/16-18 x 2-1/4"	19 FtLbs.

"Use SAE Grade 6 or Better

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