

# Standard Nozzles



When it comes to nozzles, "standard" doesn't mean off-the-shelf. While NLB standard nozzles are designed for general use (instead of specialized uses like pipe cleaning or abrasive cutting), each is customized to suit your application. When ordering, be sure to consider not only the pressure and flow rate of your pump unit, but the actual pressure at the nozzle, which is always lower (ref. Page 97).

Our **standard nozzles** have a single orifice that can provide

either a tightly focused 0° stream or a 15° fan spray, depending on your requirements. The five shown below are designed for a maximum pressure of 20,000 psi (1,400 bar), and simply screw on the end of any NLB lance (and other tools) rated for that pressure.

For pressures up to 40,000 psi (2,800 bar), we offer **UHP 0° and 15° nozzle assemblies**. Both attach easily to our NCG40-286 lance.

## DESIGNED AND MANUFACTURED TO THE HIGHEST STANDARDS — YOURS.






For decades, NLB's OEM nozzles have set the standard in the high-pressure water jet industry. They are specially designed for peak performance and made of hardened steel or stainless steel for durability. For even longer

life, orifices can be made of state-of-the-art materials like carbide and sapphire.

Although some people may claim that all nozzles are pretty much the

same, don't settle for imitations. Only NLB nozzles are specifically designed and manufactured to work with NLB high-pressure pumps and accessories.

## Up to 20,000 psi (1,400 bar)

Part No.	Thread	Orifice	Spray Pattern	Description - Benefit
 S-1	1/4" MNPT	Carbon Steel	0°	Longer orifice - cohesive jet pattern over long range
 S-2	1/4" MNPT	Carbon Steel	0°	Carbon steel orifice - improves nozzle life and performance
 S-3	1/4" MNPT	Carbon Steel	15°, 25°, 40°, 50°, 65°	Fan nozzle - widens jet coverage
 S-7M	1/4" MNPT	Carbide	0°	Carbide insert - longer nozzle life
 SA	1/4" MNPT	Sapphire	0°	Sapphire insert - the ultimate in nozzle life

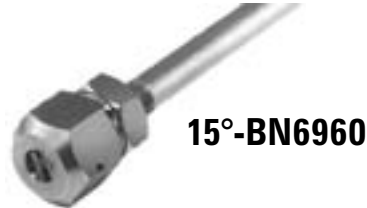
## Nozzle Assemblies

A 0° nozzle assembly delivers a high-impact, solid stream spray... ideal for precision cutting and other applications requiring a tightly-focused pattern. It uses NLB



sapphire nozzle inserts (also used in rotating lance applications and UHP SPIN JET® systems).

A 15° fan nozzle assembly removes



loose material over a wider area than a solid stream, requiring less overlap and providing a more uniform impact across the cleaning path.

Nozzle	Part No.	Use With Lance
0°	BL7864	NCG40-286
15°	BN6960	NCG40-286
0°	BA11110	NCG8450
15°	BA11117	NCG8450

## Nozzle Inserts

Nozzle inserts differ from standard nozzles in that they are held in place by a nozzle retaining assembly. Inserts are used in some of NLB's most popular accessories, including our SRH24 and SRH40 SPIN-NOZZLE® heads, the NLB3750 family of 3-D tools, and our NCG8450 UHP rotating lances.

The chart presented here contains basic pressure, spray pattern and application information for all NLB nozzle inserts, with cross-references to help you choose the best insert for your requirements.



Part No.	Max. Pressure	Orifice	Spray Pattern	Description - Benefit	Reference Page
S-8-15-XXXX	40,000 psi (2,800 bar)	Stainless Steel	15°	Wider coverage results in larger impact area	97
BN11XX	20,000 psi (1,400 bar)	Carbide	0°	Used on many NLB 2-D and 3-D nozzles	92-93
BM19048-X.XX	20,000 psi (1,400 bar)	Carbide	0°	For high-flow applications, like hydrodemolition	96
BN3539-XX	40,000 psi (2,800 bar)	Sapphire	0°	For UHP applications, with sapphire orifice for extended life	94-95
BN10095-XX	40,000 psi (2,800 bar)	Sapphire	0°	The ultimate in long life: high cohesive with an engineered flow path for superior impact force	94-95