

SBN-1000 Snuff-back Grease Nozzle

- Provides positive “quick close” by pulling grease back from nozzle tip after dispense
- Minimizes or eliminates oozing or drooling of grease from nozzle tip
- Makes use of nozzle motion for actuation of snuff-back
- Causes positive “quick open” by instantly supplying grease to nozzle tip at start of dispense
- Compensates for the compressibility of grease and swelling and bending hoses
- Includes “tip to part” distance control adjustment with lock nut

BEFORE

System peculiarities cause messy nozzle tips and unacceptable grease dispensing.



After-bleed or oozing caused by hose or compressible grease



Grease may not stick to part because nozzle is too far from part



Grease sticks to nozzle that is too close to part

AFTER

The snuff-back nozzle solves these problems by pulling grease back inside nozzle and precisely controlling nozzle “tip to part” distance. With the snuff-back nozzle, grease dispensing will look like this.

Perfect Dispense



Clean Nozzle Tip

Nozzle “tip to part” adjustment with jam nut

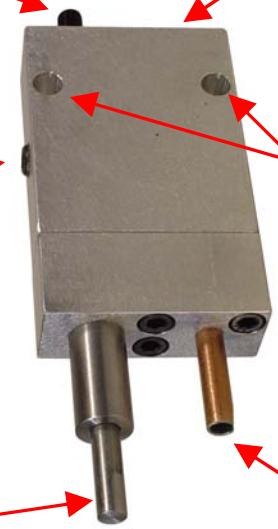
1/8 NPT grease inlet (not shown)

Bleed plug

9/32” diameter mounting holes

Snuff-back actuator

Nozzle Tip



The SBN-1000 nozzle has “tip to part” adjustment and includes spring loaded piston to pull (snuff) grease inside nozzle as nozzle is moved away from part. Nozzle has 1/8 NPT grease inlet and 1/4” OD (0.191” inside diameter) tip and functions with NLGI 000 through 3 grease with volumes between 0.040 and 3.00 cc.

TYPICAL APPLICATION:

Nozzle will mount on user’s motion device (often a non-rotating air cylinder) with a stroke of 1” or more. As cylinder extends, snuff-back actuator contacts part and stops movement at adjusted setting. When cylinder retracts, snuff-back causes clean break and clean nozzle.

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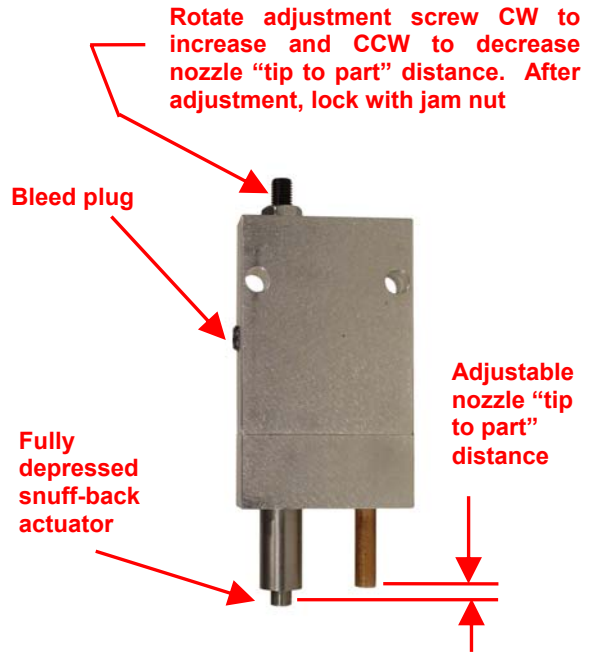
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How to bleed air and adjust "tip to part" distance

1. Connect grease IN port to positive displacement grease dispenser before bleeding.
2. Air should be bled from nozzle by removing the bleed plug, depressing the snuff-back actuator, and actuating the grease dispenser until grease begins to extrude from the bleed plug hole. After bleeding, replace bleed plug and release snuff-back actuator.
3. The snuff-back actuator stop should be adjusted to cause the nozzle tip to be the "correct" distance from part for the selected grease volume to be transferred from nozzle to part. "Correct" distance increases with grease volume and is set by "trial and error". When set "correctly", grease will look like this and will stay on part.



Snuff-Back Nozzle Sequence

User's nozzle motion device moves nozzle toward part

Nozzle Movement



1

Selected grease volume is dispensed on part

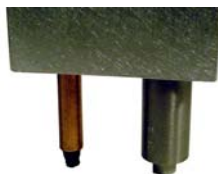
Nozzle is stationary



3

Motion is stopped at adjusted "tip to part" distance and positive displacement dispenser begins dispensing grease

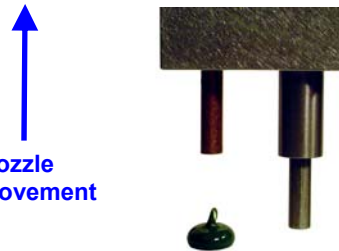
Nozzle is stationary



2

User's nozzle motion device moves nozzle away from part allowing internal spring to extend snuff-back actuator causing snuff-back

Nozzle Movement



4

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