

NOWPak® Canister Replacement Liner

Pre-cleaned, replacement polyethylene barrier liner and diptube options for NOWPak Liner-based Canister Systems

The NS50 conformal replacement liner is designed for use with the NOWPak® Liner-based Canister System. The liner conforms to the interior of the canister, minimizing stress, improving liner strength and durability and maximizing chemical fill volume. Liners are available in 19- and 40-liter sizes.



NS50 conformal replacement 19-liter liner (shown inflated) with canister

APPLICATIONS

- NOWPak® systems are designed for applications that require containment and safe transport of high-purity liquids and liquids that are sensitive to outer environments

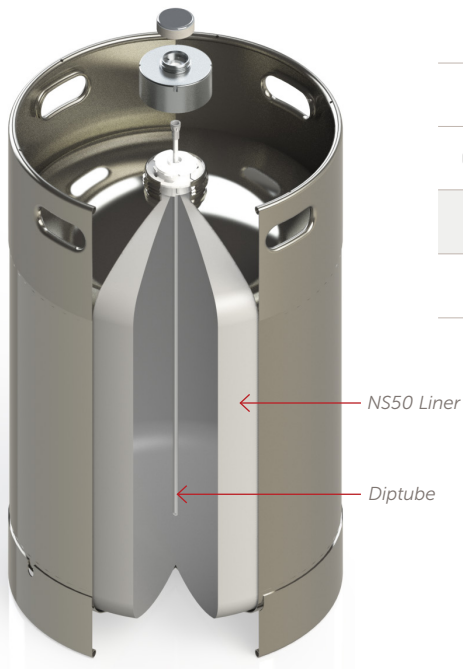
FEATURES & BENEFITS

- Unique conformal design offers improved strength and durability
- Liners are particle tested and certified
- Liner-based system minimizes risk of microbubbles
- Collapsible liner system helps maximize chemical utilization
- Liner plus diptube combination adds convenience and simplifies ordering

SPECIFICATIONS

Part numbers	<p>NL-XXX-NS50X-1 (replacement liner only)</p> <p>NLP-XXX-NS50X-1 (replacement liner and single-use diptube*)</p> <p>NLVX-XXX-NS50X-1 (replacement liner and high-viscosity FEP or PE diptube*)</p>	
Materials of construction	Film	NS50 co-extruded, virgin, PE with barrier film, translucent color
	Fitment	Injection molded, natural virgin HDPE
	Retainer	Injection molded, natural virgin HDPE
	Temporary cap	Injection molded, red pigmented LDPE
	Liner sleeve	PE
Fill opening	22.2 mm (0.88")	
Manufacturing standards	Fabricated and tested in a Class 5 Cleanroom as per International Standard ISO 14644-1:1999 Cleanrooms and associated controlled environments – Part 1: Classification of air cleanliness.	
	Film and seal defect detection	Light table visual inspection
	Liner leak detection	Pressure decay tested
	Liner integrity verification	Weld tensile strength tested
	Particle count verification	Particle tested with ultra-pure DI water
Cleanliness	Particle certified liners include a Certificate of Analysis stating lot-specific particle count data. Particle certified liners are not to exceed 10 counts per ml at $\geq 0.3 \mu\text{m}$.	
Packaging	<p>Liners only:</p> <p>For NL-XXX-NS50X-1, each liner is capped, folded, and inserted into a cleanroom sleeve (heat sealed), then bulk packaged in a corrugated carton, lined with a PE cleanroom bag, 50 liners per box. Retainers are packaged in cleanroom conditions and shipped in the same quantity as the liner.</p> <p>Liner plus PE or FEP Diptube:</p> <p>For NLX-XXX-NS50X-1, diptubes are double-bagged in cleanroom conditions, 10 diptubes per inner bag, inner bag sealed in an outer bag. Five bags of 10 diptubes are packaged in a box and then placed along with the liners and retainers into a single box for shipment.</p> <p>Liner plus High-viscosity PE or FEP Diptube:</p> <p>For NLVX-XXX-NS50X-1, diptubes are double-bagged in cleanroom conditions, 5 diptubes per inner bag, 2 bags of 5 diptubes placed in an outer bag and sealed. Five bags of 10 diptubes are packaged in a box and then placed along with the liners and retainers into a single box for shipment.</p>	
Labeling	Each liner is labeled with the part number and lot number. Each carton box and cleanroom bag is labeled with the part number, lot numbers and quantity of liners. For NLX-XXX-NS50X-1 and NLVX-XXX-NS50X-1, each diptube bag and box is labeled with the part number, lot number and quantity of diptubes.	

*Note: refer to single-use diptube and high-viscosity FEP or PE diptube datasheets for diptube specification information.



PART NUMBER			Weight of liner (1 liner) without temporary cap
Canister	Liner	Size	
NO-08	NL-019-NS50X-1	19 L	70 g
NO-40	NL-040-NS50X-1	40 L	90 g

SHIPPING INFORMATION

NL-XXX-NS50X-1 (Liner only)

Part number	Size	Box quantity (minimum order quantity)	Skid quantity (economic order quantity)	Box dimensions (L x W x H)
NL-019-NS50X-1	19 L	50	1,250 (25 boxes of 50)	667 mm x 413 mm x 394 mm (26.3" x 16.3" x 15.5")
NL-040-NS50X-1	40 L	50	1,250 (25 boxes of 50)	559 mm x 559 mm x 559 mm (22.0" x 22.0" x 22.0")

NLP-XXX-NS50X-1 (Liner plus Single-Use Diptube)

Part number	Size	Box quantity (minimum order quantity)	Box content	Skid quantity (economic order quantity)	Box dimensions (L x W x H)
NLP-019-NS50X-1	19 L	50	50 liners, individually sleeved; 50 retainers; box of 50 diptubes (5 bags of 10)	600 (12 boxes of 50)	685 mm x 560 mm x 425 mm (27.0" x 22.0" x 16.7")
NLP-040-NS50X-1	40 L	50	50 liners, individually sleeved; 50 retainers; box of 50 diptubes (5 bags of 10)	300 (6 boxes of 50)	838 mm x 660 mm x 406 mm (33.0" x 26.0" x 16.0")

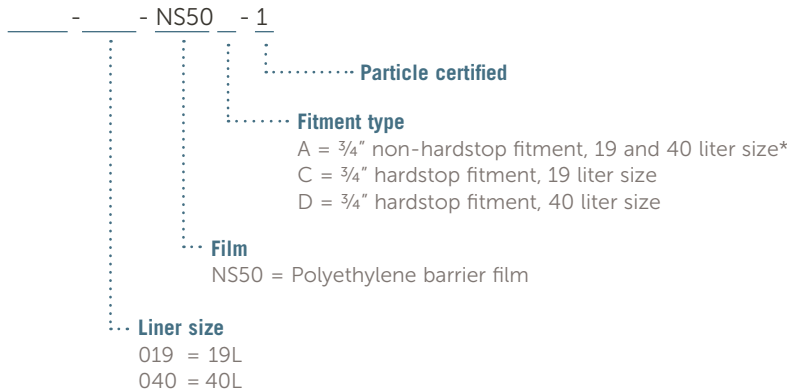
SHIPPING INFORMATION (CONTINUED)

NLVX-XXX-NS50X-1 (Liner plus High-Viscosity FEP or PE Diptube)

Part number	Size	Box quantity (minimum order quantity)	Box content	Skid quantity (economic order quantity)	Box dimensions (L x W x H)
NLVT-019-NS50A-1 NLVP-019-NS50A-1	19 L	50	50 liners, individually sleeved; 50 retainers; box of 50 diptubes (5 bags of 10)	600 (12 boxes of 50)	685 mm x 560 mm x 425 mm (27.0" x 22.0" x 16.7")
NLVT-040-NS50A-1 NLVP-040-NS50A-1	40 L	50	50 liners, individually sleeved; 50 retainers; box of 50 diptubes (5 bags of 10)	300 (6 boxes of 50)	838 mm x 660 mm x 406 mm (33.0" x 26.0" x 16.0")

ORDERING INFORMATION

NOWPak Liner-based Canister System Replacement Liner/Diptube: part number



NOWPak Liner System

- NL- = liner only
- NLP- = liner plus single-use diptube
- NLVT- = liner plus high-viscosity FEP diptube*
- NLVP- = liner plus high-viscosity PE diptube*

* High-viscosity FEP and PE diptubes require the use of liners with non-hardstop fitments.

ACCESSORIES

Part number	Description
NA-60	Liner insertion tool for 4 to 40 liter liners
NA-06	Liner removal tool for 4 to 40 liter liners
NA-17	Liner removal and drain tool
NA-13	Diptube removal tool
NA-07	Liner disposal plug, bag of 100
NF-01-FR	Automatic bag inflation fixture for 4 to 20 liter liners
NF-40-FR	Automatic bag inflation fixture for 40 liter liners
NA-41	Manual bag inflation connector for 4- to 20-liter liners, 63 mm buttress thread
NA-41-8990	Manual bag inflation connector for 4- to 20-liter liners, 2.5 – 12 UN thread

LIMITED WARRANTY

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