

# NOWPak<sup>®</sup> Canister Replacement Liner

*Pre-cleaned, replacement polyethylene barrier liner and diptube options for NOWPak liner-based canister systems*

The NS60 conformal replacement liner is designed for use with the NOWPak<sup>®</sup> 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 the 200-liter size.

## 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

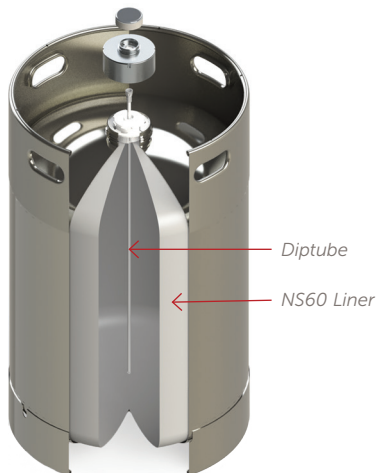


*NS60 Conformal Replacement 200-liter liner, inflated*

## SPECIFICATIONS

<b>Part numbers</b>	NL-200-NS60X-1 (replacement liner only) NLP-200-NS60F-1 (replacement liner and single-use diptube)* NLVX-200-NS60X-1 (replacement liner and high-viscosity FEP or PE diptube)*	
<b>Materials of construction</b>	Film	PE with barrier film, translucent color
	Fitment	Injection molded, natural virgin HDPE
	Fitment adapter	Injection molded, natural virgin HDPE with choice of EPDM TFE/P, or semi-perfluorinated o-ring
	Retainer	Injection molded, natural virgin HDPE
	Temporary cap	Injection molded, red pigmented LDPE
	Liner sleeve	PE
<b>Fill opening</b>	2" fitment: 50.7 mm (2.00")	
<b>Manufacturing standards</b>	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	Visual inspection using room light
	Liner leak detection	Pressure decay tested
	Liner integrity verification	Weld tensile strength tested
	Particle count verification	Particle tested with ultrapure DI water
<b>Cleanliness</b>	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 $\geq 300$ nm in ultrapure DI water.	

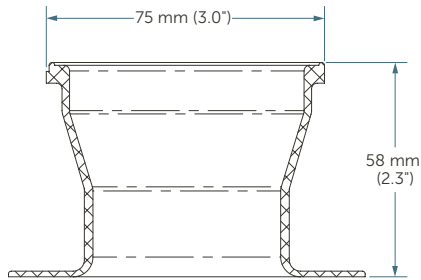
\*Note: Refer to Single-Use PE Diptube and High-Viscosity FEP or PE Diptube datasheets for diptube specification information.



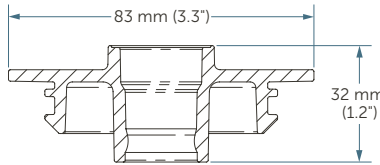
Canister	PART NUMBER		Size	Weight of liner (1 liner) without temporary cap
	Liner			
NO-200	NL-200-NS60X-1		200L	0.30 kg

## DIMENSIONS

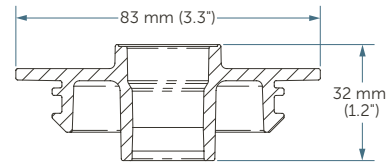
### 2" Fitment



### 2" Fitment Adapter, Hardstop



### 2" Fitment Adapter, Non-hardstop



## SHIPPING INFORMATION

### 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 NLP-200-NS60X-1 and NLVX-200-NS60X-1, each diptube bag and box is labeled with the part number, lot number and quantity of diptubes.

### Packaging

#### Liners only:

For NL-200-NS60X-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 bag, 10 liners per box. Retainers and fitment adapters are packaged in cleanroom conditions. Adapters are packaged separately, 10 to a bag. Retainers are packaged separately, 2 sleeves of 5 per box. Adapters and retainer packages are placed into the shipping carton along with the liners.

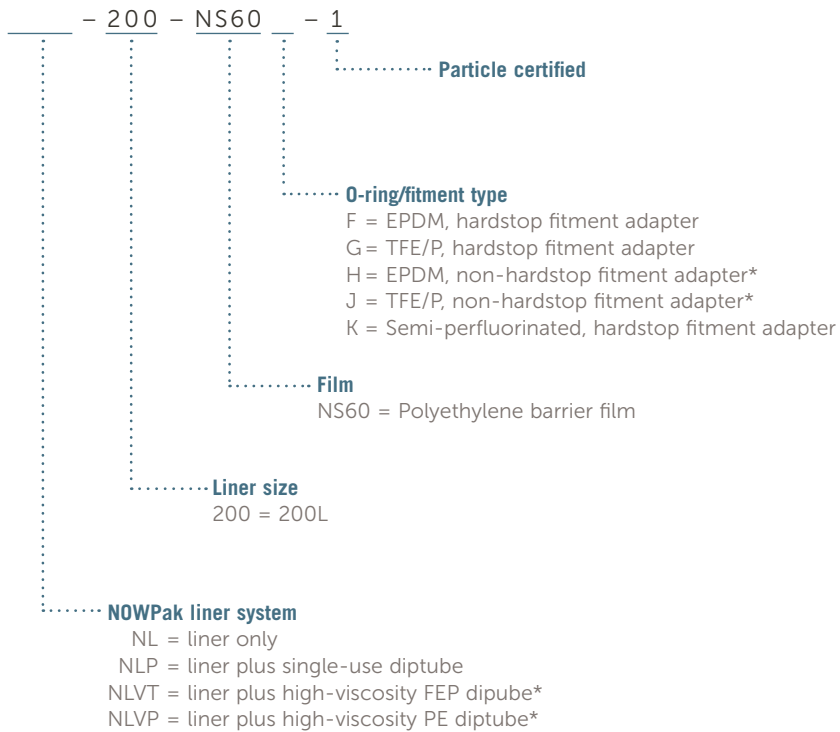
#### Liner plus Diptube:

For NLP-200-NS60X-1 and NLVX-200-NS60X-1, diptubes are double-bagged in cleanroom conditions, 5 diptubes per inner bag, then sealed in an outer bag. Two bags of 5 diptubes (10 total) are packaged in a diptube box. The diptube box is placed along with the liners, retainers and fitment adapters into a single box for shipment.

Part number	Size	Box quantity (minimum order quantity)	Box content	Skid quantity (economic order quantity)	Box dimensions (L x W x H)
NL-200-NS60X-1	200 L	10	10 liners, individually sleeved; 10 retainers; 10 adapters	140 (14 boxes of 10)	1003 mm x 508 mm x 273 mm (39.5" x 20.0" x 10.7")
NLP-200-NS60X-1	200 L	10	10 liners, individually sleeved; 10 retainers; 10 adapters; box of 10 diptubes	120 (12 boxes of 10)	1003 mm x 711 mm x 305 mm (39.5" x 28.0" x 12.0")
NLVX-200-NS60X-1	200 L	10	10 liners, individually sleeved; 10 retainers; 10 adapters; box of 10 diptubes	120 (12 boxes of 10)	1003 mm x 711 mm x 305 mm (39.5" x 28.0" x 12.0")

## ORDERING INFORMATION

### NOWPak Liner-based Canister System Conformal Replacement Liner: part number



\* High-viscosity FEP and PE diptubes require the use of liners with non-hardstop fitment adapters

## ACCESSORIES

Part number	Description
NA-60-200	Liner insertion tool for 200-liter liners
DA-04	Liner removal tool for 200-liter liners
NA-27	O-ring maintenance tool kit; General purpose o-ring handling tools to facilitate o-ring removal and replacement
NA-17	Liner removal and drain tool
NA-07	Liner disposal plug, bag of 100
NF-180/200-FR	Automatic bag inflation fixture for 200-liter liners
NA-41-200	Manual bag inflation connector for 200-liter liners
NA-41-200-2	Manual bag inflation connector for 200-liter liners, 2" fitment

#### LIMITED WARRANTY

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