NOWPak[®] Canister System Pressure Dispense Connector

Thread-on connector with anodized aluminum body

ND-CD series pressure dispense connectors provide a clean, convenient, and completely sealed method for dispensing chemicals from NOWPak® canisters. The connectors are used together with breakseals, aluminum closures, diptubes, and replacement liners. ND-CD connectors are for use with 4- to 200-liter size canisters.



ND-CD series pressure dispense connector

APPLICATIONS

- Photoresist/color resist
- Low-viscosity material for microelectronics applications

FEATURES & BENEFITS

- Maximizes chemical utilization
- Minimizes defects associated with particles and microbubbles
- Enhances chemical compatibility performance and cleanliness

• Other liquid material coating markets

• Provides improved protection for moisture-sensitive materials



SPECIFICATIONS

Materials of construction	Wetted parts	Probe	PTFE	
		Liquid outlet fitting	PTFE, compression style	
		Primary probe O-ring seal	Chemraz®	
	Nonwetted parts	Upper connector body	Aluminum	
		Lower connector body	Aluminum	
		Retainer	Polypropylene	
		Gas inlet fitting	PBT	
		Bushing	PTFE	
		Cap screws	Stainless steel	
		Secondary probe O-ring seal	Chemraz	
		Probe to retainer O-ring seal	EPDM	
		Connector to overpack O-ring seal	EPDM	
		Cleanroom bag	Polyethylene	
Weight	0.8 kg (1.8 lbs)			
Tube connections	Per part number desig	nation on page 8		
Dispense method	Pressure or pump			
Thread type	2.25 Acme double star	t		
Performance	Operating pressure	206.8 kPa (30.0 psi) maximum		
		as regulations vary from regior	al operating pressure regulation: 1 to region. For example, in the 103.4 kPa (15.0 psig) maximum.	
	Fluid temperature	25°C (77°F)		
Manufacturing standards		in a Class 5 cleanroom as per Inter oms and associated controlled en f air cleanliness.		
Cleanliness		rom lubricants and other extraneo is' processes and procedures.	us foreign materials	

*ISO standard certification is kept up to date as necessary to remain current and effective to be able to demonstrate compliance with up-to-date ISO requirements.

DIMENSIONS

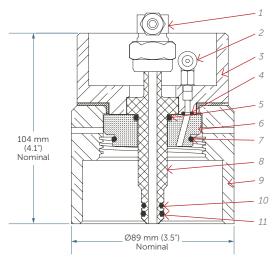
ND-CD-SA Type (Slotted)

ND-CD-SB Type (Strain Relief)



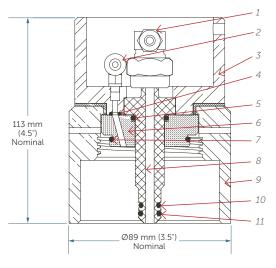
Holes in the upper connector body for the tubing to pass through. These holes prevent the fitting from being turned by the tubing.

ND-CD-SA Connector



ltem	Quantity	Description
1	1	Liquid fitting per configuration table
2	1	Gas inlet fitting per configuration table
3	1	Upper connector
4	1	Pressure in O-ring seal, EPDM
5	1	Probe to retainer O-ring seal, EPDM
6	1	Retainer
7	1	Connector to overpack O-ring seal, EPDM

ND-CD-SB Connector



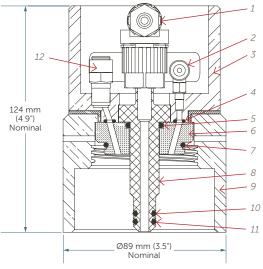
ltem	Quantity	Description
8	1	Probe
9	1	Lower connector
10	1	Secondary probe O-ring seal, Chemraz
11	1	Primary probe O-ring seal, Chemraz
12	1	Pressure relief valve (optional, not shown in images above) ND-CD-SA and ND-CD-SB: 15 psig

DIMENSIONS

ND-CD-SD Type (Slotted, Extended Height), (for use with the Flowell 80 Series liquid outlet options only)



ND-CD-SD Connector

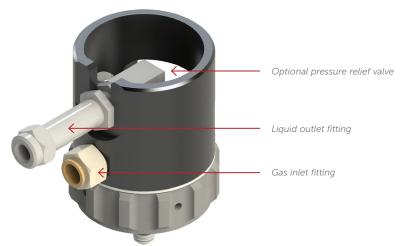


ltem	Quantity	Description
1	1	Liquid fitting per configuration table
2	1	Gas inlet fitting per configuration table
3	1	Upper connector
4	1	Pressure in O-ring seal, EPDM
5	1	Probe to retainer O-ring seal, EPDM
6	1	Retainer
7	1	Connector to overpack O-ring seal, EPDM

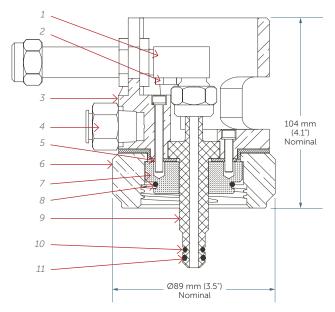
ltem	Quantity	Description
8	1	Probe
9	1	Lower connector
10	1	Secondary probe O-ring seal, Chemraz
11	1	Primary probe O-ring seal, Chemraz
12	1	Pressure relief valve standard on ND-CD-SD: 15 psig

DIMENSIONS (CONTINUED)

ND-CD-XC Type



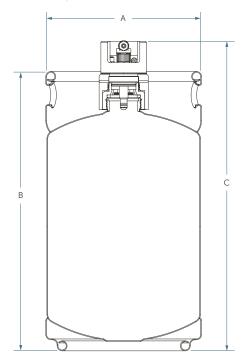
ND-CD-XC Connector



ltem	Quantity	Description
1	1	Liquid fitting per configuration table
2	1	Pressure relief valve (optional) ND-CD-XC: 35 psig
3	1	Upper connector
4	1	Gas inlet fitting per configuration table
5	1	Gasket, upper connector to retainer
6	1	Lower connector

ltem	Quantity	Description
7	1	Retainer
8	1	Connector to overpack O-ring seal, EPDM
9	1	Probe
10	1	Secondary probe O-ring seal, Chemraz
11	1	Primary probe O-ring seal, Chemraz

ND-CD Dispense Connector Dimensions with Connector Installed



Note: The "C" dimensions shown in the table below represent the maximum height for the ND-CD connector installed on a canister. Actual dimensions may be less, depending upon the specific connector configuration.

Dimensions		A B	C C		C	C		
Size	Canister part number	Liner part number	Canister Diameter	Canister only height	Total Maximum Height – Canister with ND-CD-SA installed	Total Maximum Height – Canister with ND-CD-SB installed	Total Maximum Height – Canister with ND-CD-SD installed	Total Maximum Height – Canister with ND-CD-XA installed
4 L	NO-04 NO-04-63*	NL-004-N700A-1 NL-004-N700C-1 NL-004-NS60A-1 NL-004-T420A-1	177 mm (7.0")	307 mm (12.1")	346 mm (13.6")	345 mm (13.6")	359 mm (14.1")	N/A
10 L	NO-05 NO-05-63*	NL-010-N700C-1 NL-010-T420A-1	228 mm (9.0")	385 mm (15.2")	439 mm (17.3")	438 mm (17.2")	452 mm (17.8")	N/A
18 L	NO-09 NO-09-63*	NL-018-N700C-1 NL-018-T650A-1 NL-018-T420A-1	228 mm (9.0")	618 mm (24.3")	672 mm (26.4")	671 mm (26.4")	685 mm (27.0")	N/A
19 L	NO-08 NO-08-63*	NL-019-N700C-1 NL-019-NS60A-1 NL-019-NS60C-1 NL-020-T650A-1 NL-020-T420A-1	278 mm (10.9")	461 mm (18.2")	519 mm (20.4")	518 mm (20.4")	532 mm (20.9″)	N/A
	NO-08A-63*	NL-019-N700C-1 NL-019-NS60A-1 NL-019-NS60C-1 NL-020-T650A-1 NL-020-T420A-1	280 mm (11.0")	461 mm (18.2")	519 mm (20.4")	518 mm (20.4")	532 mm (20.9")	N/A

*Canister with modified buttress 63 mm thread.

Dimensi	ions		Α	В	C	C	C	C
Size	Canister part number	Liner part number	Canister Diameter	Canister only height	Total Maximum Height – Canister with ND-CD-SA installed	Total Maximum Height – Canister with ND-CD-SB installed	Total Maximum Height – Canister with ND-CD-SD installed	Total Maximum Height – Canister with ND-CD-XA installed
20 L	NO-07*	NL-019-N700C-1 NL-020-T650B-1 NL-020-T420B-1	282 mm (11.1")	506 mm (19.9")	551 mm (21.7")	550 mm (21.7")	565 mm (22.2")	N/A
40 L	NO-40 NO-40-63* NO-40A NO-40A-63*	NL-040-N700D-1 NL-040-NS60A-1 NL-040-NS60D-1 NL-040-T650A-1	317 mm (12.5")	714 mm (28.1")	761 mm (30.0")	760 mm (29.9")	775 mm (30.5")	N/A
200 L	NO-200 NO-200A NO-200A-4	NL-200-N700F-1 NL-200-N700K-1 NL-200-NS60F-1 NL-200-NS60K-1 DL-1-T650-1 NL-200-T650K-1 NL-200-T650M-1	608 mm (23.9")	1,002 mm (39.4")	N/A	N/A	N/A	1,040 mm (41.0")

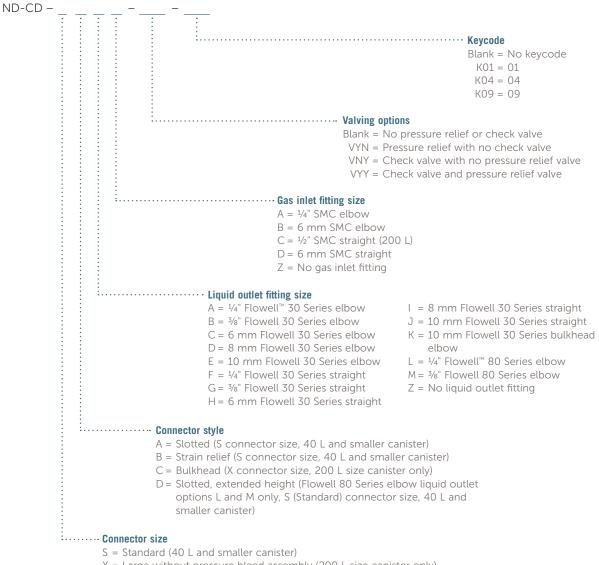
Note: Liners are also available in a liner-plus-diptube combination. Please see the individual liner data sheets for liner-plus-diptube part numbers. *Canister with modified buttress 63 mm neck thread.

SHIPPING INFORMATION

Labeling	Each connector is labeled with the part number, batch number/serial number, and date of manufacture. Each shipping carton is labeled with the part number, batch number, quantity of connectors, and date of manufacture.			
Packaging	Each connector is double bagged (cleanroom processed and heat sealed in a PE inner bag; then heat sealed in a PE outer bag), then packaged in a corrugated shipping carton, lined on top and bottom with bubble wrap.			

ORDERING INFORMATION

NOWPak Canister System Pressure Dispense Connector: part number



ORDERING INFORMATION (CONTINUED)

Accessories

Part number	Description								
NA-30*	O-ring repla	O-ring replacement kit* which contains:							
	COMPONENT QUANTITY PART NUMBER*		DESCRIPTION	ND-CD-SA, SB ITEM # (PAGE 3)	ND-CD-XC ITEM # (PAGE 4)	RECOMMENDED TIMING FOR REPLACEMENT**			
	10	200088	Primary and secondary probe O-ring, Chemraz	10, 11	10, 11	6 months			
	5	200332-C	Connector to closure seal, EPDM	7	8	6 months			
	3	200293-C	Pressure in O-ring, EPDM	4	_	12 months			
	3	200331	Probe to retainer O-ring, EPDM	5	-	12 months			
200939-C	Retainer gas	sket for 200 L size co	nnectors, quantity of 1	_	5	6 months			
NA-27	O-ring extraction/maintenance kit								
NA-06	Liner removal tool, for 4- to 40-liter canister sizes								
DA-04	Liner remov	al tool, for 200-liter s	size canisters						

*NA-30 kit components are also available for purchase separately (quantity of 1 each per part number).

**The frequency of O-ring replacement depends on the connector length of service, frequency of canister changes, chemical characteristics, and user conditions. Inspect the O-rings every time the ND-CD connector is removed from a canister. If the O-rings are worn or damaged, they should be replaced.

FOR MORE INFORMATION

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