

D-Cryo Series

MOPD: 1000 PSI (69 Bar)

C_v Range: 0.040 to 0.770 (K_v Range: 0.034 to 0.655)

15 Watts

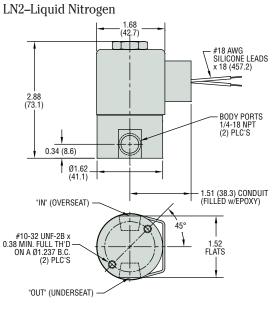
The D-Cryo Series is a 2-way, high flow, miniature Cryogenic valve designed and built for service down to -320°F (-196°C). Depending on your temperature requirements, the D-Cryo Series can be configured for liquid nitrogen (LN2), liquid carbon dioxide (LCO2), and other extreme temperature media. PTFE coated plungers, 316 Stainless Steel guide tubes and plunger springs, encapsulated coils, and PTFE or Rulon® seat seals produce a truly robust Cryogenic valve for applications requiring high cycle life and media temperature control.



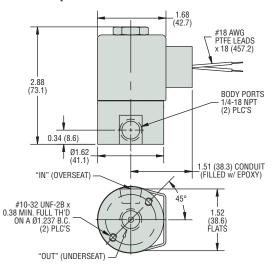
Typical Applications

- Environmental Chambers
- Food Processing
- · Laser Surgical Equipment
- Semiconductor Manufacturing

Dimensions

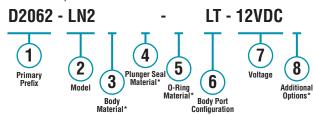


LCO2-Liquid Carbon Dioxide



How To Order

Use the **Bold** characters from the choices listed on the following page to construct a product code.



^{*} Blank entry indicates a "Standard" selection (303 Stainless Steel, Rulon® and Variseal®, in this case).

Example:

D2062-LN2-LT-12VDC

2-Way N.C. Liquid Nitrogen Class-H Encapsulated Coil with lead-wires, conduit filled housing solenoid valve, with 303 stainless steel body, Rulon® plunger seal, Variseal® o-ring, 1/8-28 BSPT female thread, operating at 12 DC with rectified coil.

Part Prefix Table 1

						1)Primary Prefix		
Orifice		MOPD		C _v	K _v	Class 180°C (H), Encapsulated Coils		
Body		psig	bar	Body		Lead Wires—Filled	Lead Wires—Unfilled	Lead Wires—
inches	mm	pary	nai	Douy		Conduit Housing	Conduit Housing	Grommet Housing
3/64	1.19	1000	69	0.040	0.034	D2061	D2021	D2011
1/16	1.59	1000	69	0.070	0.060	D2062	D2022	D2012
3/32	2.38	640	44	0.165	0.140	D2063	D2023	D2013
1/8	3.18	375	26	0.305	0.259	D2064	D2024	D2014
5/32	3.97	185	13	0.365	0.310	D2065	D2025	D2015
3/16	4.76	130	9	0.470	0.400	D2066	D2026	D2016
1/4	6.35	40	3	0.770	0.655	D2067	D2027	D2017

(2) Model

-LN2 = Liquid Nitrogen model

-LC02 = Liquid Carbon Dioxide model

3 Body Material

LN2 Only

(blank) = 303 Stainless Steel*

4 Plunger Seal Material

LN2 Only

(blank) = Rulon®*

(5) 0-Ring Material

LN2 Only

(blank) = Variseal® (PTFE material with internal spring)*

6 Body Port Configuration

LN2 Only

(blank) = 1/4-18 NPT female thread*

LC = 1/8-27 NPT female thread

LT = 1/8-28 BSPT female thread

LU = 1/4-19 BSPT female thread

BI = Bottom over-seat port, female thread

BO = Bottom under-seat port, female thread

(7) Voltage

LN2 Only

___**VDC** = DC (specify voltage)

____**VAC** = AC Rectified (specify voltage)

8 Additional Options

LN2 Only

(blank) = Chamfered and PTFE coated plunger*

(blank) = 316 Stainless Steel 1-piece guide assembly*

(blank) = 316 Stainless Steel spring*

* Standard selection; will be used unless otherwise specified. Standard selections are not referenced in final part number.

LCO2 Only

(blank) = 303 Stainless Steel*

BB = Brass

LCO2 Only

(blank) = PTFE*

MQ = Silicone (consult factory)

LCO2 Only

(blank) = Fluorosilicone*

TÓ = PTFE

LCO2 Only

(blank) = 1/4-18 NPT, bottom under-seat port, female thread*

LC = 1/8-27 NPT female thread

LT = 1/8-28 BSPT female thread

LU = 1/4-19 BSPT female thread

IL = Inline porting, 180° apart

LCO2 Only

____VDC = DC (specify voltage)

VAC = AC Rectified (specify voltage)

LCO2 Only

(blank) = Chamfered and PTFE coated plunger*

(blank) = 316 Stainless Steel 1-piece guide assembly*

(blank) = 316 Stainless Steel spring*