

The IMI Norgen 3cm Syringe line is designed to couple with IMI Norgen Cadent™ 3 Pumps and 3cm Rotary Valves. These syringes are rated to 80 psi and are suitable for use in various life science instruments serving analytical, biotechnology and diagnostic applications. These syringes are available in an array of dispense volumes, tip materials and tip styles.

Specifications

Physical

Length (Dispensed)

2.37"

Thread Type

¼-28 UNF-2A

Test Pressure

80 psi

Environmental

Operating Temperature

50°F to 104°F (10°C to 40°C)

Storage Temperature

13°F to 185°F (-25° to 85°C)

Relative Humidity

Up to 100%

Chemical

Wetted Materials

Borosilicate Glass, PCTFE, PTFE (or UHMW-PE)

Syringe tips

Lubricated with laboratory-grade Silicone

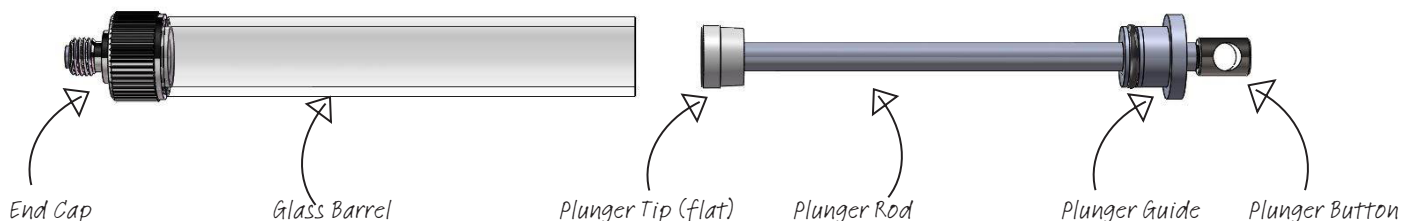


Mechanical

Syringe Sizes	50ul	100ul	250ul	500ul	1.0ml	2.5ml	5.0ml
Orifice Diameter (in)	0.023	0.023	0.031	0.031	0.073	0.073	0.073
Syringe(End Cap) Diameter (in)	0.43	0.43	0.43	0.43	0.43	0.56	0.72
Button Diameter (in)	0.25	0.25	0.25	0.25	0.3	0.3	0.3
Max Drag Force* (lbs)	PTFE	3.0	3.0	3.0	3.0	3.0	6.0
	UHMW	7.0	7.0	7.0	7.0	7.0	10.0

*Add 1 pound (lbs) drag force for non-lubricated plunger tip syringes.

Syringe Anatomy



Syringe Enhancements



Zero Dead Volume Plunger Tip

IMI Norgen Syringes are available with an enhanced Zero Dead Volume (ZDV) plunger tip. These tips have a pointed end and extend into the end cap, providing a fully swept wetted path, minimizing the presence of residual fluids and ensuring no cross contamination or carryover into subsequent operations.

Both flat and ZDV plunger tips can be supplied in either PTFE, a chemically inert material offering high durability, or UHMW-PE, offering high impact strength and suitable for use with fluids containing particulates.



Glass Barrel Shrink Wrap

For increased safety when using IMI Norgen Syringes in high pressure environments, the syringes can be supplied with a shrink-wrapped glass barrel. This enhancement is available on request and can be applied to any syringe volume dispense size.

For other customization requests, contact us at IMIKloehncustomersupport@imi-precision.com

PTFE Syringes (individually boxed):

Dispense Volume	Lubricated Syringe	Non-Lubricated Syringe	ZDV Syringe (Lubricated)	Orifice Size (in)
50µL	23164	22007	27960	0.023
100µL	23165	22008	27961	0.023
250µL	23166	22009	28006	0.031
500µL	23167	22010	28007	0.031
1.0mL	23168	22011	28008	0.073
2.5mL	23169	22012	28009	0.073
5.0mL	23170	22013	28010	0.073

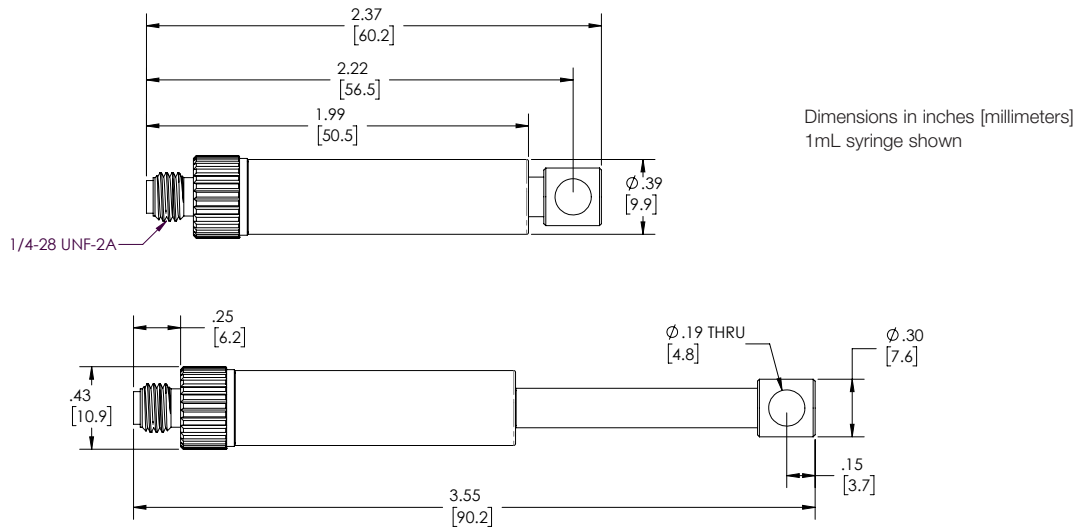
Wetted materials: Borosilicate glass, PCTFE, PTFE

UHMW Syringes (individually boxed):

Dispense Volume	Lubricated Syringe	Non-Lubricated Syringe	ZDV Syringe (Lubricated)	Orifice Size (in)
50µL	24411	*	27958	0.023
100µL	24412	*	27959	0.023
250µL	24413	*	28011	0.031
500µL	24414	*	28012	0.031
1.0mL	24415	*	28013	0.073
2.5mL	24416	*	28014	0.073
5.0mL	24417	*	28015	0.073

Wetted materials: Borosilicate glass, UHMW-PE, PTFE

* Available upon request



Warning

Improper selection, misuse, age or malfunction of components used in systems can cause failure in various modes. The system designer is warned to consider the failure modes of all component parts and to provide adequate safeguards to prevent personal injury or damage to equipment or property in the event of such failure modes. System designers and end users are cautioned to consult instruction sheets and specifications available from the factory. The system designer/end user is responsible for verifying that all requirements for the application are met.

Warranty

The products described herein are warranted subject to seller's Standard Terms and Condition of Sale, available at seller's website.

Proposition 65: These products may contain chemicals known to the state of California to cause cancer, or birth defects, or other reproductive harm.