

- > Designed for use with IMI Norgren V6 syringe pumps
- > Rated to 80 psi
- > Available in various volumes, materials and tip styles
- > Suitable for use in analytical, biotechnology and diagnostic applications



Specifications

Physical

Length (Dispensed)

4.37"

Thread Type

¼-28 UNF-2A

Test Pressure

80 psi

Life cycle (Minimum)

100,000*

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%

*Tested with DI Water using IMI Standard protocol

Chemical

Wetted Materials

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

Syringe Tips

Lubricated with laboratory-grade Silicone

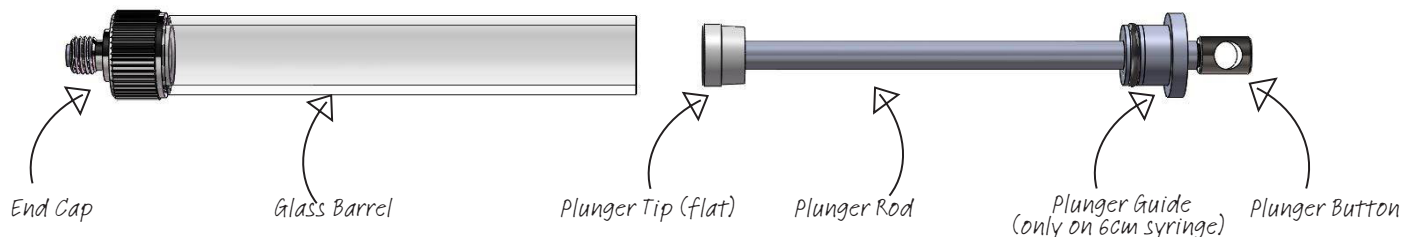
Mechanical

| Syringe Sizes | | 10µl | 25µl | 50µl | 100µl | 250µl | 500µl | 1.0ml | 1.25ml | 2.5ml | 5.0ml | 10ml | 25ml | 50ml |
|---------------------------------|------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| Orifice Diameter (in) | | 0.027 | 0.027 | 0.024 | 0.032 | 0.039 | 0.076 | 0.076 | 0.076 | 0.076 | 0.076 | 0.076 | 0.076 | 0.076 |
| Syringe (End Cap) Diameter (in) | | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.5 | 0.6 | 0.75 | 1.12 | 1.5 |
| *Max Drag Force (lbs) | PTFE | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 6.0 | 6.0 | 8.0 | 8.0 |
| | UHMW | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 10.0 | 10.0 | 15.0 | - |

*Add 1 pound drag force to non-lubricated plunger tip requests.

Installation torque = 20 oz-in

Syringe Anatomy



Syringe Enhancements



Zero Dead Volume Plunger Tip

IMI Norgren 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 Norgren 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

UHMW Syringes (individually boxed):

| Size | Orifice (in) | Standard | ZDV |
|--------|--------------|----------|-------|
| 25µL** | 0.027 | 26662 | - |
| 50µL | 0.024 | 24681 | - |
| 100µL | 0.032 | 24518 | - |
| 250µL | 0.039 | 19513 | - |
| 500µL | 0.076 | 24694 | 25427 |
| 1.0mL | 0.076 | 24690 | 25413 |
| 1.25mL | 0.076 | - | 25438 |
| 2.5mL | 0.076 | 24685 | 25388 |
| 5.0mL | 0.076 | 18857 | 24691 |
| 10.0mL | 0.076 | 19110 | 24139 |
| 25.0mL | 0.076 | 24688 | 25380 |

Wetted materials: Borosilicate glass, PCTFE, UHMW-PE, PTFE

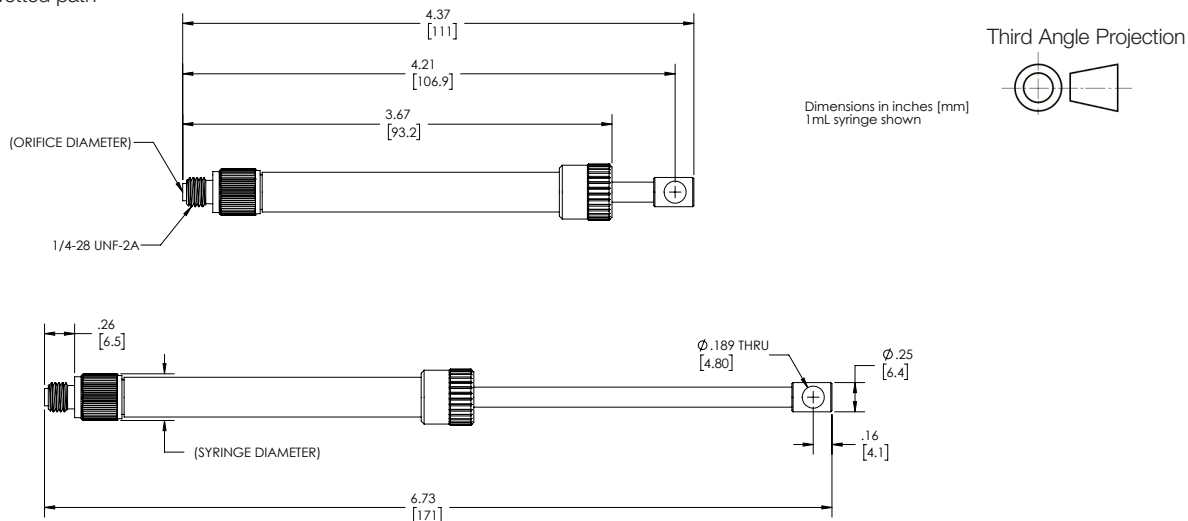
**contains stainless steel in wetted path

PTFE Syringe Assembly (individually boxed):

| Size | Orifice (in) | Standard | ZDV |
|--------|--------------|----------|-------|
| 10µL** | 0.027 | 18883 | - |
| 25µL** | 0.027 | 17591 | - |
| 50µL | 0.024 | 17592 | - |
| 100µL | 0.032 | 17593 | - |
| 250µL | 0.039 | 17594 | 19509 |
| 500µL | 0.076 | 17595 | 19537 |
| 1.0mL | 0.076 | 17596 | 25429 |
| 1.25mL | 0.076 | 17597 | 25431 |
| 2.5mL | 0.076 | 17598 | 19539 |
| 5.0mL | 0.076 | 17599 | 18463 |
| 10.0mL | 0.076 | 17600 | 18469 |
| 25.0mL | 0.076 | 17601 | 23734 |
| 50.0mL | 0.076 | 17602 | - |

Wetted materials: Borosilicate glass, PCTFE, PTFE

**contains stainless steel in wetted path

**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.