

# Protean

Cost-effective disposable / reusable pen injector  
0 – 60 units insulin / 1.8mg and 3.0mg  
liraglutide / abaloparatide

## Specifications

Variant	P3 (3 dose)	P60 (Disposable Insulin)	PS1 (Single dose)	PR60 (Reusable Insulin)
Length	158.5mm			
Outside diameter	16mm			
Setting and actuation	Dial out and press button			
Dose size	3 doses, 0.6mg, 1.2mg and 1.8mg	1-60 IU	40uL	1-60 IU
Injection force	5-8N	5-8N	~5N	~5N
Dial extension distance	16.25mm	32.5mm	4.4mm	32.5mm
Last dose lockout	Yes - during dialling			Yes - during dosing
Dose setting and resetting	Yes			
Cartridge size	3mL	3mL	OK	3mL
Indications/feedback	Dose markings for set dose Audible dialling clicks Audible injection clicks			
Final assembly	Cartridge holder, cartridge and sub-assembly			
Intellectual property	Clean patent position with protection of key features			
Compliance	11608, EU, FDA			



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Creating innovative devices for sustainable global health



## About Shaily

### Design and Manufacturing

Shaily is a leading manufacturer specializing in the design and production of high-quality pens and auto-injectors for the pharmaceutical and medical device sectors. With a commitment to innovation and precision, we provide advanced drug delivery solutions that enhance patient care and meet the stringent requirements of the global healthcare industry.

### Quality Regulatory with Scale

Our state-of-the-art manufacturing facilities in India and UK are equipped with cutting-edge technology and automation, ensuring the highest standards of quality, reliability, and safety in every product we produce. We adhere to the ISO 15378 and 13485 Medical Device Single Audit Program (MDSAP) Quality Management System (QMS) and FEI number 3010437413, which demonstrates our dedication to maintaining rigorous quality control throughout our entire process and supporting our customers with DMF, NDA, ANDA, and 510k filings from design and development to production and post-market activities.

### Customer Support

At Shaily, our expert team of engineers, quality assurance professionals, and regulatory specialists work collaboratively to deliver products that comply with international standards and meet the evolving needs of our customers. We are committed to continuous improvement, sustainability, and delivering exceptional value, making us a trusted partner in the medical device industry.

