

O-Ring & Engineered Seals Division

Sealing Solutions for Drug Delivery Devices



ENGINEERING YOUR SUCCESS.

O-Rings and Custom Sealing Solutions for Drug Delivery Devices

Parkers O-ring and Engineered Seal (OES) division provides sealing solutions for drug delivery devices in the Life Science Market. Parker OES can provide a wide range or products due to the broad manufacturing capabilities. Whether it be a small precision O-ring/Lathe cut, a large enclosure seal, or a custom molded seal, OES can provide it.

Material Offering

Parker OES has compounds across multiple compound families that can meet all application needs. Compounds listed below carry Life Science Industry certifications and are commonly used. More compound options are available based on the needs of the application.

Please reach out to Applications Engineering or the Market Manager team for more details.

Applications:

- Insulin Delivery Devices
- Inhalers
- Nasal Sprays
- EPI Pens

Life Science Compounds	Description and Specs
EPDM	
E1244-70	Internally Lubed, USP Class VI, USP <87>, ISO10993
EJ243-45	Internally Lubed, USP Class VI
E3609-70	USP Class VI, ISO 10993
Silicone	
S0317-60	USP Class VI
S1138-70	USP Class VI, USP <87>
FKM	
VG162	USP Class VI, ISO 10993
V0680	USP Class VI
HiFluor	
HF355-65	USP Class Vi
FFKM	
FF156-75	USP Class VI

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Applications

Enclosure Seals

These seals are critical to protect internal components and electronics from outside debris. OES can provide custom designed low closure force seals to meet the toughest of environments with or without grooves.

Options: Extruded & Spliced Seals, O-Rings, and continuously molded

Internal Component Seals

Typically, Life Science devices are small. Parker can provide small precision seals to meet the tightest of tolerances. Have these seals made in our internally lubed EPDMs to remove any friction issues.

Options: O-rings, Lathe Cuts, Molded Shape





Ports/ Tube Sealing

Drug delivery devices could have multiple ports or tubing. O-rings are a great option but may cause insertion force issues. O-rings also do not retain into a groove making it difficult to manufacture. A custom designed and molded shape can help alleviate the insertion force.

Options: Molded Shapes, O-rings





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