











Septum Insertion Force Study

Insertion Force Study of Nexus TKO®-6P Septum and other Market Leading Needleless Connectors

Insertion Force Study of Market Leading Needleless Connectors:

A calibrated digital insertion force meter was used to measure the insertion force in pounds of force (lbf) for each of the needleless connector's silicone elastomeric septums. 10 random sterile samples from a full case of 100 of the manufacturer's product were used for this study. An ISO 594 compliant male slip luer was secured in the digital force meter to measure the compression and digitally record the peak value. Each device was inserted a series of 10 times and the average was taken for each needleless connector.

Manufacturer / Model	Peak Value
Nexus TKO®-6P Anti-Reflux 	2.21 lbf
CareFusion MaxZero® 	3.20 lbf
ICU Medical Clave® 	2.22 lbf
ICU Medical MicroClave® 	2.27 lbf
ICU Medical MicroClave® Clear 	2.25 lbf

Manufacturer / Model	Dimensions
<p data-bbox="397 256 695 289">ICU Medical Neutron®</p> 	<p data-bbox="1068 317 1187 350">2.26 lbf</p>
<p data-bbox="435 457 662 491">Baxter ONE-LINK</p> 	<p data-bbox="1068 527 1187 560">3.19 lbf</p>
<p data-bbox="407 676 690 709">Carefusion Maxplus®</p> 	<p data-bbox="1068 730 1187 764">3.25 lbf</p>
<p data-bbox="391 873 706 907">RyMed / Invision-Plus®</p> 	<p data-bbox="1068 928 1187 961">3.91 lbf</p>
<p data-bbox="467 1071 630 1104">BD Q-Syte™</p> 	<p data-bbox="1068 1142 1187 1176">2.53 lbf</p>