



Specialists in Liquid Filling Systems

DUS ROLLING DIAPHRAGMS

PLATINUM LINE

MEDICAL GRADE PLATINUM CURED SILICONE DIAPHRAGMS



DUS Diaphragms are Injection Molded from Platinum Cured Silicone

Meets USP Class VI Medical Grade Specs

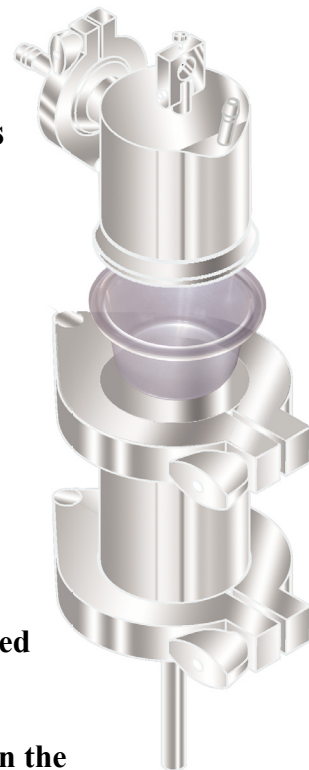
Meets FDA CFR 177.2600 Standards for contact with Food and Drugs

Meets European Pharmacopoeia Standards 3.1.9. current rev.

Meets USDA and 3A Standards

Other Features:

- Autoclaveable
- Manufactured in a Class 1000 Clean Room
- Diaphragms are packaged in the Class 1000 Clean Room within a sealed low density polyethylene (LDPE) bag to assure cleanliness and convenience. Bags are dated and identified by lot number and part number for traceability.
- Manufacturing facility handles Medical Grade Platinum Cured Silicone exclusively in the molding plant to eliminate chances for cross contamination

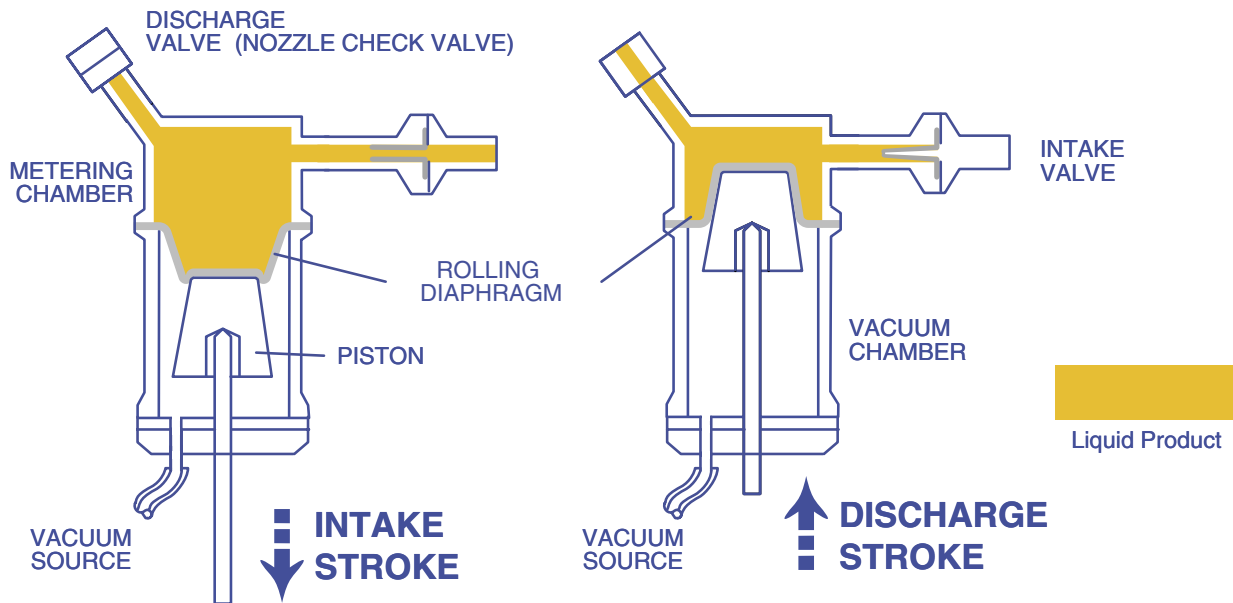


Diaphragm Part Guide

DUS PISTON PUMP SIZE	DUS-1	DUS-10	DUS-45	DUS-160	DUS-550	DUS-1100
PLATINUM DIAPHRAGMS	18-467-600	18-467-601	18-467-602	18-467-603	18-467-604	18-467-605

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DUS PISTON PUMP OPERATION DESCRIPTION



Step 1: A vacuum applied below the diaphragm pulls the diaphragm against the piston maintaining a constant contact between the piston and the diaphragm.

Step 2: Liquid fills the pump through a one-way intake check valve. The rolling diaphragm isolates the piston and cylinder from the liquid product. Liquid is prevented from draining back from the nozzle by a one-way nozzle check valve.

Step 3: The vacuum on the non-product side of the diaphragm is relieved slightly to allow the piston to proceed back into the pump body.

Step 4: While isolated completely from the liquid product, the piston moves along with the diaphragm into the metering chamber displacing liquid product through the one-way nozzle check valve. As the piston moves up and down, the diaphragm rolls evenly along the surface in a convoluting motion.

Step 5: The distance the piston rod travels into the metering chamber determines the volume of liquid product dispensed from the filling nozzle.



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