

DEPA[®]

DEPA Nopped S⁴[®] Diaphragm

www.cranepharmasolutions.com

The DEPA Nopped S⁴[®] Diaphragm offers a range of features and benefits for air-operated pump applications including:

- 1 **Innovative:** Pioneered the nopped design utilizing a thermoplastic elastomer (TPE) for diaphragm material
- 2 **Durable and Efficient:** Improved energy efficiency compared to standard TPE diaphragms, the innovative nopped design offers excellent performance, and enables longer service life
- 3 **Cost Effective:** Provides lower costs of operation, reduces spare parts inventory, maintenance downtime, and increases plant capacity
- 4 **Versatile:** Interchangeable among the DEPA[®] pumps ranges (modular design)



CRANE[®]

ChemPharma Flow Solutions

Applications

- Excellent resistance to mild sodium hydroxide, sulphuric or hydrochloric acids; many solvents and bases
- Abrasive fluids and slurries
- Ideal for high viscosity and shear sensitive materials, e.g. paint, coatings, sludge, and sewage
- Wide temperature range

Sizes

DL15 through DL80 (½" through 3")

| Pump Size | DL15 (½") | DL25 (1") | DL40 (1 ½") | DL50 (2") | DL80 (3") |
|-------------|-----------|-----------|-------------|-----------|-----------|
| DEPA® Pumps | ● | ● | ● | ● | ● |

Temperature Range

- 20°C through + 110°C (-4°F through 230°F)

Pressure Range

Maximum 7 bar operating pressure

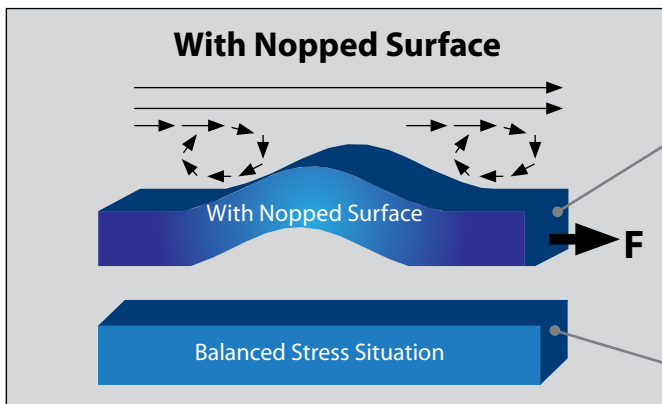
Material Features and Benefits

- Santoprene® material combines elastomer (EPDM) and polypropylene (PP); thus, it possesses the same flexibility and durability that is characteristic of elastomer components
- Injection molded process provides consistent quality and excellent flex life
- The TPE used to manufacture the diaphragms provide excellent dimensional accuracy and tensile characteristics
- No additional fabric reinforcement is needed
- Excellent durability and performance
- Excellent abrasion resistance
- Very good chemical and mechanical resistance

Certifications

In compliance with Machinery Directive 2006/42/EC

Santoprene® is a registered trademark of Exxon Mobil.



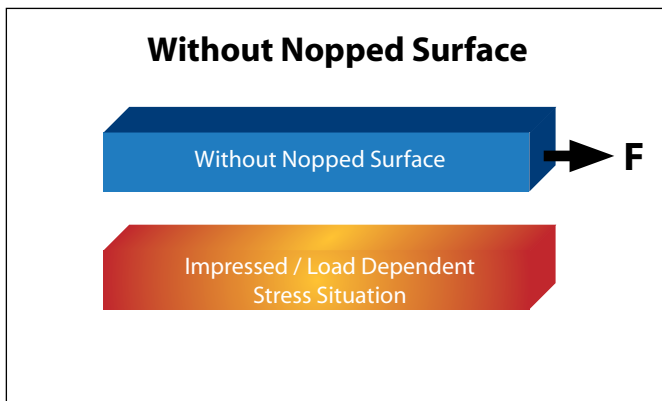
The DEPA Nopped S⁴® Diaphragm Provides:

Increased Efficiency

The nopped surface creates turbulent boundary layers, resulting in advantageous flow conditions (similar to golf ball dimples) and thus improved energy efficiency.

Increased Durability

- Nopped design reduces mechanical stress by providing greater flexibility
- Lower mechanical stress in nopped design provides greater durability
- Wear resistant surface provides added durability when pumping fluids with higher solid content



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