

### Product Description

The OptiSeal incorporates reliable vessel seal technology to meet stringent process requirements in today's pharmaceutical and chemical manufacturing environments. The innovative seal technology was designed with many features that can help users establish compliance with USP and BPE guidelines. The OptiSeal designed for glass-lined reactors was developed and tested in conjunction with A.W. Chesterton, one of the world's leading seal manufacturers. The OptiSeal is available exclusively through De Dietrich Process Systems.

### OptiSeal Advantages

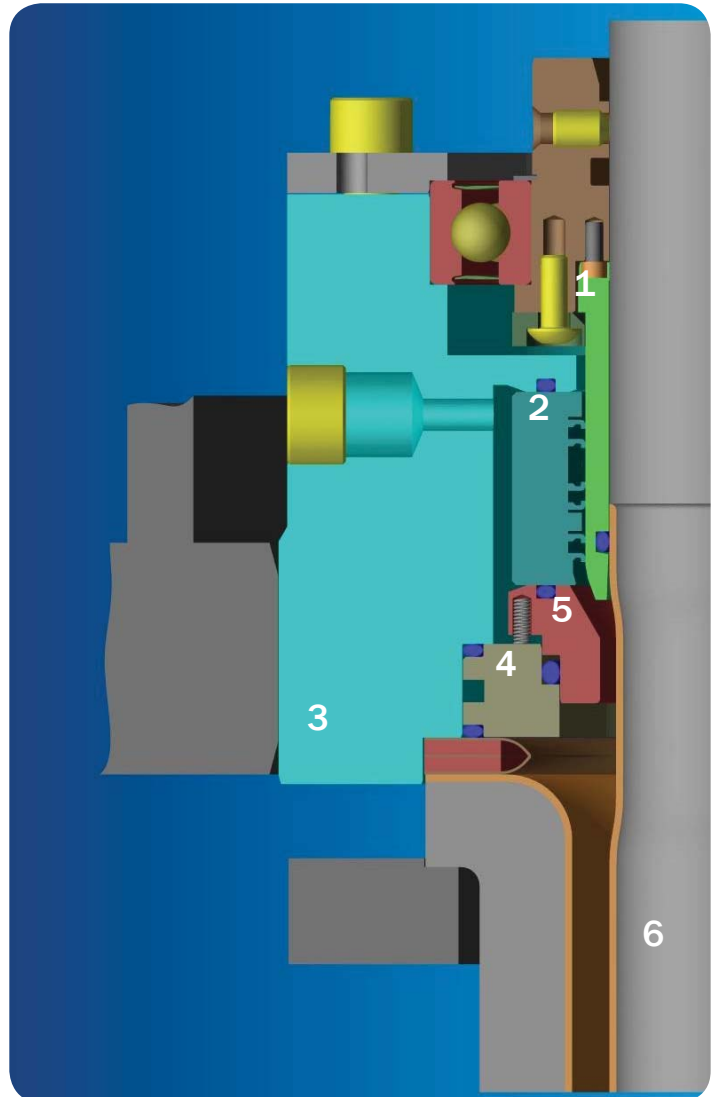
The OptiSeal offers significant performance advantages over competitive seal technologies and users employing this technology are setting process performance benchmarks. OptiSeal technology has the lowest possible consumption/leakage rate of nitrogen to process/atmosphere versus all other double seal technologies. Testing has shown that leakage/consumption of the nitrogen barrier gas can range between zero (measurable) and 1.0 SCFH. However, while negligible leakage rates are achievable, equipment and operating conditions can also affect the leakage rates.

### Performance Capabilities

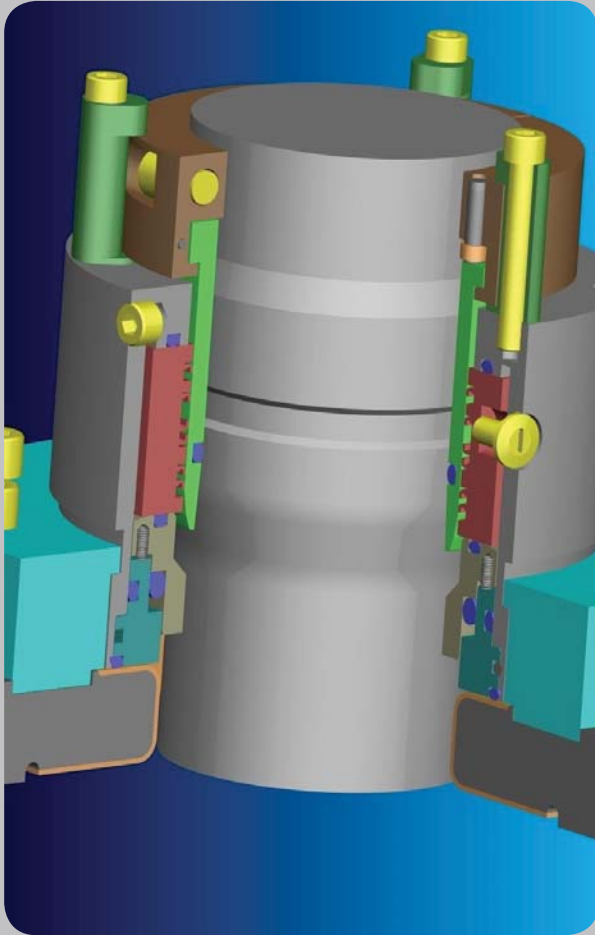
- Operating pressure up to 100 psig in the seal housing
- Operating temperature from -20 °F to 350 °F (-29 °C to 177 °C)
- Operates in Full Vacuum conditions
- The allowable leakage rate of the seal is 1.0 cubic foot per hour per inch of shaft diameter.
- Applications outside of these ranges can be permissible, consult factory.

### PRODUCT FEATURES

- No carbon dust contamination, eliminates process contamination from mechanical seal face wear
- True dry-running design, balanced double cartridge seal, can be run with a barrier fluid
- Designed to assist end users in complying with GMP standards
- Minimal maintenance after installation
- Cost effective
- Available with FDA compliant materials
- Designed to help provide sanitary integrity in CIP/SIP processes and can be customized to suit specific requirements



1 Ceramic Sleeve  
2 PTFE Sealing Element  
3 Stainless Steel Metal Seal Housing  
4 Ceramic Adapter  
5 Ceramic Balance Piston  
6 Agitator Shaft Housing



Model	Nom. Shaft Size	Part #
DD In-Line	1 1/2"	NM2375A
61Q 06	2 1/2"	NM3500A
62Q 08	3 1/8"	NM3520A
63Q 10	3 5/8"	NM3450A
63Q 12	4 1/8"	NM3560A
64Q 16	5 1/8"	NM3580A
64Q 24	6 1/8"	NM3600A
QVF 50	32mm	NM32/50
QVF 80	44.5mm	NM44.5/80
QVF 100	44.5mm	NM44.5/100
3-4 DTW	3"	NM7034
3525 SRW	2 1/2"	NM7035
5RW	3 1/2"	NM7050
2.5 DTW	1 1/2"	NM7025