SAINT-GOBAIN SEALS APPLICATION CASE STUDY

Life Sciences: Case of the IVD Analyzer Plunger Pump

OmniSeal® Sealing Control

CUSTOMER CRITICAL DIFFERENCE

At the heart of the global life sciences laboratory industry, in vitro diagnostics (IVD) equipment is used in the diagnosis of infectious and chronic diseases as well as preventative care and drug therapy monitoring, testing biological specimens such as blood, cells, urine, saliva and tissue. As point-of-care medical devices, IVDs must be safe, reliable and appropriately validated to uncover critical results that directly influence patient care.

Today's IVD systems are required to run faster and longer than previous generations, leading OEMs to seek low friction and chemically resistant materials that handle the various reagents used. OEMs also want technologies that are smaller, lighter weight, easier to use and reduce cost. Our OmniSeal® spring-energized seal used in plunger pumps has successfully delivered lifetime confidence to our customers, providing longer maintenance cycles and lower overall cost of ownership due to the seal's chemical inert and heat resistant properties and precise fit.

CONNECTED APPLICATION

OmniSeal® 400A, SRII or 103A Series: Used in chemical analyzers.

Solution Team: Tokyo / Suwa, Japan

sealsmarketing@saint-gobain.com
www.seals.saint-gobain.com

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PRODUCT SOLUTION	**OmniSeal® 400A, SRII or 103A Series**
AREA	IVD Analyzer Plunger Pump (Clinical Chemistry, Coagulation, Immunoassay, Urinalysis)
MATERIAL	Fluoroloy® A09 or A28 (UHMWPE)
CRITICAL PART	Custom Spring-Energized Seal
TECHNICAL DETAILS	❑ Media: DI-Water, Reagent including surfactant ❑ Temperature: Room temp (15° to 30°C) ❑ Motion: Reciprocating ❑ Pressure: 0.5 MPa (Max) ❑ Counterface: Alumina, Zirconia or 316SS
BENEFITS AND ADDED VALUE	➢ Precise flow rate to improve analysis accuracy ➢ Low friction and wear results in longer maintenance cycles ➢ Sealing with lifetime confidence

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