

SAINT-GOBAIN SEALS APPLICATION CASE STUDY

Industrial: Case of the “Measuring” Fuel Dispenser Pump



CUSTOMER CRITICAL DIFFERENCE

One of the daily activities that we do without much thought is pump fuel into our car but how do we and the retailer know the right amount is being charged? This is where the flow meter comes into play as a critical part of the [fuel dispensing system](#) since it is used to measure the amount of fuel. Any variance means financial loss to either retailer or consumer, which makes sealing function important for precision and lifetime operation.

Our [Rulon® 123](#) or **AR piston cup seals** are used in the meter to provide reliable sealing and prevent fuel leakage. They retain their shape and performance in sub-zero temperatures, which cause wear and tear on the meter and degrade its accuracy over time. By controlling accuracy in their equipment, our customers ensure they abide by specifications, tolerances, and other technical requirements from worldwide federal institutions as well as keep their end users happy!

CONNECTED APPLICATION

- **Rulon® piston cup seal:** Used in compressors for [portable oxygen concentrators](#).

Solution Team: Bangalore, India Site

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Critical parts
making THE difference



SEALS

SAINT-GOBAIN





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PRODUCT SOLUTION

Rulon® 123 or AR

AREA

Fuel Dispenser Pump Flow Meter

MATERIAL

PTFE (Color: Black or Maroon)

CRITICAL PART

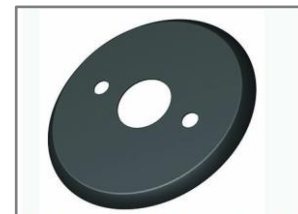
Formed Piston Cup Seal

TECHNICAL DETAILS

- Media: Gasoline, Diesel
- Speed: 550-600 in/min
- Temperature: -40°F (-40°C) to 122°F (50°C)
- Counterface: Aluminum

BENEFITS AND ADDED VALUE

- Sealing with lifetime confidence, leakage control
- Retains shape and performance in sub-zero temperatures
- Low friction and wear
- Wide range of chemical resistance against aggressive substances in motor fuels



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