

# KEM Pharmaceutical Industry



# **Application Spotlight**

Filling saline infusion solutions

# HIGHLY ACCURATE DOSING IN HYGIENIC APPLICATION

### **Technical Data**

Medium: Saline infusion solution

(0.9 % sodium chloride solution)

Temperature: +20 °C [68 °F]

Pressure: 5 bar [15 psi]

Measuring range: 1 l/min
Viscosity: 1 mPa\*s
Density at 20 °C: 1.005 g/cm³

## **Application**

After the production of saline infusion solutions in the pharmaceutical sector, they must be filled with high precision into special 100 millilitres or 1 litre polyethylene bottles. These are delivered to end customers such as hospitals, medical institutions, medical personnel and also patients directly in their homes

If the filling is done by a manual dosing station, the exact volume flow can be controlled by KEM Turbine Flow Meters.

#### Solution

KEM Turbine Flow Meter (HM TRI Series).

The Turbine Flow Meter made of high-quality stainless steel with TriClamp connections measures the volume flow. The frequency signal from a carrier frequency pulse amplifier is used to transmit actual values and to control the pneumatic membrane pump with integrated control valve.

## Advantages

- Clamp process connection for hygienic application
- Easy integration into a manual dosing station
- Fast, dynamic response in intermittent operation
- · Dead space optimized design with flush holes for optimal cleaning
- CIP capable



#### Certificates:

- Pressure Equipment Directive 97/23/EC, 2014/68/EU
- HP0 Certification
- Explosion protection according to 2014/34/EU
- CSA/UL Certification
- Accreditation according to ISO 17025

