

# SAMPLE VALVE EPV 25 with heating jacket and sample cup holder

## ► Main Features

- Simple and reliable
- Low maintenance
- Free of dead space
- Constant sample volume
- Vacuum/pressure tight
- Safe operation

## ► For use in the production of synthetic resins

## ► Retrofit into existing plant or use in new plant construction

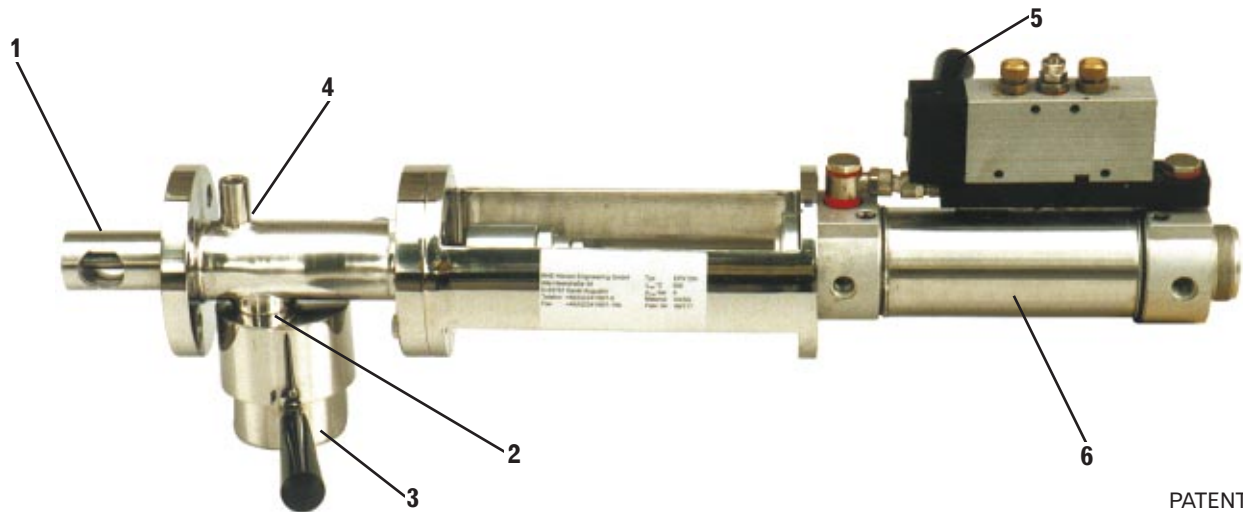


## FREE TRIAL PROGRAM

See back for details.

**RHE** AMERICA<sub>LLC</sub>

# Sample Valve – Specifications – Trial Program



PATENT PENDING

## Problem

Conventional sample valves:

- may not be suitable to draw samples from a production vessel operated under pressure or vacuum
- may plug due to product hardening in dead spaces
- may provide non-representative samples as the result of inadequate flushing
- may be inconvenient to operate and/or pose an operator hazard when sampling hot material.

## Solution

The EPV 25 Sample Valve is designed and marketed by RHE AMERICA. The primary feature of the EPV 25 sample valve is a pneumatically operated piston with a sample chamber of defined volume (1 on photo above).

Before the sampling operation, the sample chamber is located inside the reactor vessel and is therefore continually immersed in the product. This immersion guarantees a representative sample. The double sealing by the circular slit metallic packing and the valve seat allows for sampling during both pressurized and vacuum operation of the reactor. By using the hand lever (5) the piston moves to the right by means of a pneumatic cylinder (6) so that the sample leaves the chamber gravimetrically at the exit nozzle (2). The valve is equipped with a sample cup holder (3), screwed to the exit nozzle suitable for the use with standard one-way cups.

For special requirements the sample valve can be equipped with a jacket for heating (4) with steam or thermal oil.

## Technical Data

Pressure range

for sampling: 0 - 10 bar effective (0-150 psig)

Sample

temperature: 0 - 300°C (32 - 575°F)

Sample volume

per stroke: 12 ml (0.4 oz)

Material:

Product

wetted parts: 1.4571 (SS 316Ti)

O-rings: Kalrez

Other parts: 1.4571/1.4541 (SS 316Ti/SS 321)

Connection

Flange: DN25 (1" Dia.), PN16 (ANSI 300 lbs)

(will connect to existing flanges)

Installation

orientation: Horizontal

## Trial Program

RHE AMERICA is confident that the EPV 25 sample valve will improve the operations at most resin manufacturing facilities. In many applications, RHE AMERICA will allow the customer to try out the valve free of charge for 30 days. If the customer is pleased with the EPV 25 valve performance at the end of the 30 day trial period, the customer pays RHE AMERICA for the valve. If the customer is not satisfied with the results, the customer may return the valve. Please contact RHE AMERICA for details of this program.

**RHE AMERICA** LLC

2525 Cabot Drive, Suite 205  
Lisle, IL 60532-3628  
Tel: 630-577-0400 • Fax: 630-577-0401  
Email: info@rhe-america.com  
Website: www.rhe-america.com