# DATASHEET W-101A

# CEM Evaporator W-101A

3-Way Mixing Valve and Evaporator



## 3-way Mixing Valve and Evaporator

Bronkhorst $^{\circ}$  model W-101A CEM 3-way Mixing Valve and Evaporator is suited for precise vapour flow delivery, composed by mixing up to 2 g/h liquid with max. 4  $I_n$ /min of carrier gas at operating pressures between vacuum and 100 bar. The temperature controlled mixing device is used in combination with a  $\mu$ -FLOW liquid flow meter and an MFC for carrier gas, together forming a Controlled Evaporation and Mixing (CEM) System.

# **Technical specifications**

#### Measurement / control system

Max. heating temperature	200 ℃
Heater capacity	10 W
Max. Kv-value	$6.6 \times 10^{-2}$

#### **Mechanical parts**

Material (wetted parts)	Stainless steel 316L or comparable
Pressure rating (PN)	100 bar a
Max. ΔP	5 40 bar (depends on Kv-value; contact your distributor for details)
Process connections	Gas and liquid inlet: compression type or face seal couplings; Vapour outlet: 1/8" tube (other options on request); Purge connection: 1/8" OD or 1/8" face seal
Seals	Metal-to-metal
Protection class	IP40
Plunger	Kalrez®; other on request
Connector	Amphenol 6-pin male

## **Electrical properties**

Power supply	Mixing valve: +1524 Vdc +/-10%; Heater: 44 Vac
Max. power consumption	Mixing valve: 4 W (max.); Heater: 150 W (nominal)

#### **Electrical connection**

## Control valve options

External actuator options to be connected to the controller

**Ex-proof specifications** 

#### Approvals / certificates

Technical specifications subject to change without notice.

For dimensional drawings and hook-up diagrams please visit the  $\underline{product\ page}$  on our  $\underline{website}$ 

#### **Recommended accessories**



#### E-8000 SERIES

#### Digital Readout / Control Systems

Bright, wide angle, 1.8" display (TFT technology)

User friendly operation, menu driven with 4 push buttons

#### **Related products**



## **CEM EVAPORATOR W-102A**

Max. 30 g/h liquid; Max. 4 ln/min gas Pressure rating 100 bar Very stable vapour flow Flexible gas/liquid ratio



#### **CEM EVAPORATOR W-202A**

Max. 120 g/h liquid; Max. 10 ln/min gas Pressure rating 100 bar Very stable vapour flow Flexible gas/liquid ratio



## CEM EVAPORATOR W-303B

Max. 1200 g/h liquid; Max. 100 ln/min gas Pressure rating 100 bar Very stable vapour flow Flexible gas/liquid ratio



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