



VAT Vakuumentile AG  
CH-9469 Haag, Schweiz

## Product data sheet

**HV Gas Dosing Valve, Series 628, DN16**  
**Ordering No. 62824-KE52-000.**  
**“for external controller”**

### 1. Technical data

Flange		ISO-KF 16
Actuator		Stepper motor
Feedthrough		O-ring
Leak rate	<ul style="list-style-type: none"> <li>– Valve body</li> <li>– Valve seat</li> </ul>	<ul style="list-style-type: none"> <li>&lt; <math>1 \cdot 10^{-9}</math> mbar ls<sup>-1</sup></li> <li>&lt; <math>1 \cdot 10^{-9}</math> mbar ls<sup>-1</sup></li> </ul>
Pressure range		$1 \cdot 10^{-8}$ mbar to 3 bar (abs)
Differential pressure on the plate	– In gas flow direction	≤ 3 bar
Differential pressure at opening	– In gas flow direction	≤ 3 bar
Controllable conductance	– minimum / maximum	<ul style="list-style-type: none"> <li><math>5 \cdot 10^{-4}</math> / 900 mbar ls<sup>-1</sup> (with 1 filter)</li> <li><math>5 \cdot 10^{-4}</math> / 800 mbar ls<sup>-1</sup> (with 2 filter)</li> </ul>
Cycles until first service		100'000 leak tight cycles (clean conditions)
Temperature (ambient)		≤ 40 °C
Material	<ul style="list-style-type: none"> <li>– Valve body</li> <li>– Needle</li> <li>– Filter</li> <li>– Gate</li> </ul>	<ul style="list-style-type: none"> <li>AISI 304 (1.4301)</li> <li>AISI 304 (1.4301)</li> <li>AISI 316L (1.4404)</li> <li>AISI 316L (1.4435)</li> </ul>
Seal	<ul style="list-style-type: none"> <li>– Feedthrough</li> <li>– Gate</li> <li>– Dosing nozzle</li> <li>– Nozzle fixation</li> <li>– Filter</li> </ul>	<ul style="list-style-type: none"> <li>FKM</li> <li>FKM</li> <li>PTFE</li> <li>FKM</li> <li>FKM</li> </ul>
Mounting position		any
Input/output signals	– Digital	Through external controller 628EC-24...
Power Supply		Through external controller (24VD/38 W)
Position resolution		13'500 steps (full stroke)
Actuation time	<ul style="list-style-type: none"> <li>– Closing</li> <li>– Opening</li> </ul>	<ul style="list-style-type: none"> <li>≤ 2 s</li> <li>≤ 1.7 s</li> </ul>
Weight		1.3 kg / 2.9 lbs
Behavior in case of power failure	<ul style="list-style-type: none"> <li>– Valve closed</li> <li>– Valve open</li> <li>– Valve in motion</li> </ul>	<ul style="list-style-type: none"> <li>valve remains closed</li> <li>(with Power Fail Option, default: closing)</li> <li>depending on controller type</li> <li>(with Power Fail Option, default: closing)</li> <li>depending on controller type</li> <li>(with Power Fail Option, default: closing)</li> <li>depending on controller type</li> <li>(with Power Fail Option, default: closing)</li> </ul>
Ingress Protection		IP40

Created by: SCHMC

Release date: 04.10.2022

1/2

Modified by:

Release date:

**1015393EA**



VAT Vakuumentile AG  
CH-9469 Haag, Schweiz

## Product data sheet

**HV Gas Dosing Valve, Series 628, DN16**  
**Ordering No. 62824-KE52-000.**  
**“for external controller”**

### 2. Related products

External Controller	628EC-24..	
Valve-Controller connection cable	628CV-99LA-000. 628CV-99LB-000. 628CV-99LC-000. 628CV-99LE-000.	1m 2m 3m 5m

Note: Valve cannot be operated without related products or equivalent alternatives.

### 3. Electrical connections

Type	D-sub male
Connector	15 pin
Cable	Ø 3 – 6 mm AWG26

Created by: SCHMC	Release date: 04.10.2022	2/2
Modified by:	Release date:	<b>1015393EA</b>