

VDH040-U / VDE040-U / VCE500

All-Metal Dosing Valves and System

ADVANTAGES

- Minimal dead volume
- Controlled routing of the gas flow using capillaries
- Operating temperature 200 °C
- Control of total pressure or gas flow
- Automatic control in conjunction with VDE40-U and VCE500



SELECTION DATA

Actuator	manual	manual and thermo-mechanical
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ORDERING INFORMATION VDH040-U / VDE040-U

Type	VDH040-U	VDE040-U
Valve	250-700	250-720

SPECIFICATIONS

Connection flange			
Input		DN 16 CF-R	DN 16 CF-R
Output		DN 40 CF-F	DN 40 CF-F
Gas flow, controllable			
Min.	mbar/l/s	1×10^{-10}	1×10^{-10}
Max.	mbar/l/s	600	100 ¹⁾
Tightness	mbar/l/s	1×10^{-11}	1×10^{-11}
Pressure absolute min/max	mbar/l/s	$1 \times 10^{-11}/30$	$1 \times 10^{-10}/30$
Conductance for molecular flow	l/s	0.7	0.7
Operating temperature	°C	200	200
Bakeout temperature	°C	350	350 ²⁾
Valve plate		sapphire	sapphire
Valve seat		copper	copper
Housing		stainless steel	stainless steel
Weight	kg	1.4	1.4

1) Can be regulated with the VCE500 Controller

2) Without cable

ACCESSORIES

Type	VDH040-U	VDE040-U
Capillary complete, vacuum side, 1 m	215-708	215-708
Heater, 200 °C	250-701	250-701
Adapter DN 40/16 CF	213-071	213-071

OPTION

Tool kit	215-707	215-707
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SPARE PARTS

Valve plate, sapphire	215-715	215-715
Valve seat		
Standard	215-716	215-716
Gold plated	215-717	215-717

ORDERING INFORMATION VCE500

Controller	VCE500
Part No.	250-920

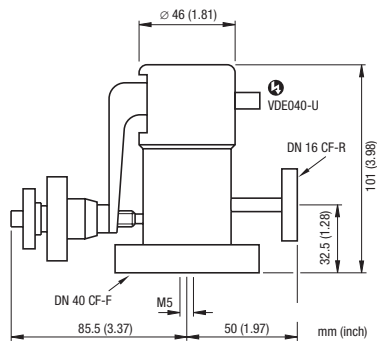
SPECIFICATIONS

Power supply	V	115 / 230
Frequency	Hz	50 - 60
Power consumption	VA	20
Regulating characteristic		proportional-integral (PI)
Reset time	s	2 - 30
Proportional gain		2 - 1000
Internal nominal value		
Scale divisions		0 - 1000
External nominal value	VCD/100 kΩ	0 - +10
Protection class		IP 20

CABLE

Standard, 80°C		
3 m	Part No.	202-914
12 m	Part No.	202-916
Extension, 200°C		
2 m	Part No.	202-924

DIMENSIONS



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