JOVENTA
Die Stellantrieb-Macher

VA150.2 , VA120.1 : Motorised drive for unit valves

For controllers with a switching output (3-point control). For activating valves of the KVDN… series in conjunction with individual-room control systems (*ecos*, NRT, RDT etc.). Existing systems can be upgraded with this drive by employing the appropriate adaptors.
Two-part housing of plastic in pure white RAL 9010 on the VA120.1 and light grey RAL 7035 on the VA120.1 Integrated LED for indicating the operating state on the VA120.1 ; light-grey power cable (1.50 m in length, 3 × 0.5 mm²; 3 × 0.25 mm² on the VA120.1) fixed in the housing. Can be fitted in any position between the vertical and the horizontal.

Type	Running time [s]	Stroke [mm]	Thrust [N]	Power	Weight [kg]
VA150.2	75	4.5	150	230 V ~	0,3
VA120.1	60	4.5	120	24 V=/~	0,15

Power supply	± 15%, 50...60 Hz	Degree of protection	IP 40 (EN 60529)
Power consumption	7 VA	Protection class	II (IEC 60730)
on starting	7 VA		III (IEC 60730)
Power consumption	5 VA		
on starting	5 VA	Wiring diagram	
Max. operating temperature	100 °C at valve	Dimension drawing	
Ambient temperature	–0...50 °C		
Ambient humidity	< 75 %rh	Fitting instructions	

Operation

VA150.2 ---------- VA120.1

The motor is moved in the appropriate rotary direction by means of an ‘open’ or ‘close’ command. In the two end positions or in the event of an overload, the motor is switched off within two minutes.
If the drive is permanently connected to the power supply, a complete cycle is performed every 24 hours in order to prevent the plug from jamming or sticking. The LED lights up when power is applied to the drive, and flashes when the motor is running.
When power is applied to the red wire, the drive spindle extends, i.e. the KVDN… through valves and the KVDN… three-way valve (control passage) close, while the KVDN… three-way valve (control passage) opens.
When power is applied to the white wire, the drive spindle retracts, i.e. the KVDN… through valves and the KVDN… three-way valve (control passage) open, while the KVDN… three-way valve (control passage) closes.

Engineering and fitting notes

No tools should be used to fit the drive onto the valve. In the event of a power failure, the valve can be opened by removing the drive. When connecting or transposing the power cable, power must be switched off.
Fitting outdoors. If the devices are fitted outdoors, we recommend that additional measures be taken to protect them against the effects of the weather.

Norms and guidelines

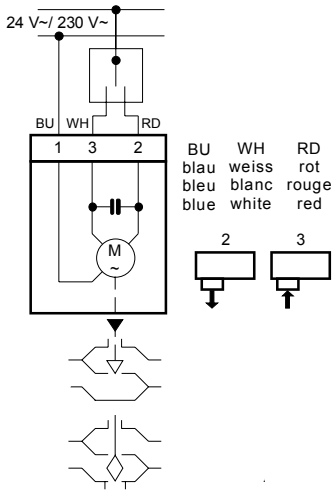
The drive conforms to the appropriate EU norms.
EMC: CE as per EN 50081-1 and EN 50082-1.

Additional technical details

VA150.2, VA120.1

Stroke	max. 4.5 mm
Running time	20 s/mm

Wiring diagram



Dimension drawing

VA150.2 , VA120.1