Rexroth VT-VSPA1-1-F10

Installation & Commissioning Guide

01 Job scope and safe-work boundary

Exchange of the nameplate-confirmed F10 amplifier card in a proportional pressure-valve loop.

Offered reference	Rexroth VT-VSPA1-1-F10
Installed platform	VT-VSPA1-1 proportional-valve amplifier card
Work purpose	Identify, fit, configure and verify the complete offered item
Evidence basis	Mannesmann Rexroth, Electrical Amplifiers VT-VSPA1-1 and VT-VSPA1K-1, RD 30 111/03.98

Before isolation

Identify	Acceptance before work
Nameplate	Record VT-VSPA1-1-F10, material number 00033823 and revision R09.
Valve pairing	Identify the one-solenoid proportional pressure valve controlled by the card.
Card supply	Confirm the installed 24 V DC VT-VSPA1-1 series supply.

02 Pre-installation readiness

Check	Decision criterion
Rack connector	Inspect the 32-pole slot and matching front plate.
Switch settings	Photograph DIL switches and their valve-specific positions.
Front controls	Record Gw and both ramp settings before removal.

System interface record

Amplifier family	VT-VSPA1-1, component series 1X
Control application	Proportional pressure valve with one solenoid
Supply, series data	24 V DC (+40% / -5%)
Connector, series data	32-pole DIN 41612 card connector with front plate

Go / no-go decision

The supplied nameplate establishes the complete F10 identity, material number, revision and German origin. Rexroth RD 30 111/03.98 supplies VT-VSPA1-1 series 1X data; application settings depend on the installed valve and card.

03 Installation or replacement sequence

Stage	Field action	Hold point
01 Capture	Record the F10 label, R09 revision, valve type and existing settings.	Keep F10 separate from adjacent VT-VSPA1-1 variants.
02 Isolate	Remove card power and secure the hydraulic function.	Confirm the actuator cannot move unexpectedly.
03 Compare	Check the offered card, connector and front panel against the installed unit.	Resolve any marking or revision difference.
04 Fit	Seat the card in the matching 32-pole rack connection.	Avoid forcing an incorrect slot or connector.
05 Configure	Restore approved DIL, command-input and front-control settings.	Use the valve application record.
06 Prove	Restore supply and test H2 ready status and valve response.	Record observed current and command behavior.

04 Commissioning and acceptance

Test	Acceptable observation	If not
Identity	F10, material number and revision are on the installation record.	Check the nameplate before release.
Supply	The card receives the specified VT-VSPA1-1 series supply.	Recheck rack wiring and polarity.
Ready state	H2 shows the expected ready indication.	Check supply, command input and solenoid circuit.
Command response	The valve follows the approved test command and ramp settings.	Review switch and Gw settings.
Loop record	Valve type and final settings are retained.	Complete the handover record.

Record the completed configuration

Keep the complete offered marking, installed system identity, settings and observed checks with the maintenance record.

Discuss the complete reference

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05 Fault response and handover

Observation	Review path
H2 not ready	Review supply, input signal and solenoid-line fault conditions.
Wrong valve response	Compare DIL switches and maximum-command setting with the valve record.
Unexpected ramp	Review separate upward and downward ramp controls.
Card does not seat	Recheck 32-pole connector and front-plate form before insertion.

Handover boundary

Confirm the amplifier card, front plate, connector condition and included accessories in the quotation.

Related catalog references

Portfolio navigation only. Verify every proposed configuration separately.

Rexroth VT-5006