

MANNESMANN REXROTH	Declaration on environmental compatibility in the field of EMC (as defined by EMC law dated 30th August, 1995 and directive 89/336/EEG), climate and mechanical stress	RE 29 184-U/06.98	
Product family Direct controlled proportional pressure reducing valve with integral electronics VT 13080-2X	Product type 3DREP6-2X 3DREPE6-2X	Data sheet RE 29 184 RE 29 184	
Description of the product family: Direct controlled proportional pressure reducing valve for controlling the pressure and direction of a flow.			
The above products comply with the following basic standards:			
1. EMC (electromagnetic compatibility)			
EN50082-2:1994 EN6100-4-2:1994 IEC801-2:1984 EN61000-4-4:1994 IEC801-4:1985	(VDE 0839 part 82-2) (VDE 0843-2:09.87) (VDE 0843-4:09.87)	Special basic standard ESD (electrostatic discharge) BURST (transient discharge)	Interference immunity Air discharge: Severity 2 / assessment criterion 1 Supply voltage: Severity 2 / assessment criterion 1 Data lines: Severity 2 / assessment criterion 1
Test set-up according to IEC 801-2 and IEC 801-4			
Details for VT 13080-2X			

2. Climate (details for VT 13080-2X)

EN 60068-2

Environmental test

EN 60068-2-1:1994 IEC 68-2-1:1976	Cold test	Severity – 20 °C, dwell time 2 x 2 hours
EN 60068-2-2:1993 IEC 68-2-2:1976	Dry heat test	Severity + 50 °C, dwell time 2 x 2 hours
EN 60068-... IEC 68-2-1:1976 IEC 68-2-2:1976	Storage temperature	– 20 °C, dwell time 16 hours + 80 °C, dwell time 16 hours
IEC 68-2-14:1986	Temperature cycles	2 cycles 20 °C to + 50 °C, dwell time 3 hours each at min./max. temperature
IEC 68-2-30:1985	Damp heat, cyclical	Variant 2 + 25 °C to + 40 °C, 95 % to 97 % relative humidity 2 cycles, 24 hours each

3. Mechanical stress (details for 3DREP6-2X)

Vibration test in three perpendicular axes

prEN 60068-2-6:1994 IEC 68-2-6:1990	Sine test	10 cycles, 5 to 2000 to 5 Hz at a logarithmic frequency change rate of 1 Oct./min 5 to 57 Hz, amplitude 1.5 mm (p-p) 5 to 2000 Hz, amplitude 10g dwell time 10 to 20 min at resonance frequency
IEC 68-2-36:1973	Random test	20 to 2000 Hz, amplitude $0.05g^2$ / Hz (10 g RMS) Testing time 30 min per axis
EN 60068-2-27:1993 IEC 68-2-27:1989	Shock test	Half sine 15g / 11 ms in positive / negative direction per axis, in total 18 individual shocks



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