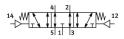
Pneumatic valve VL-5/3E-1/8-B Part number: 31309



Data sheet

Valve function5/3, exhaustedActuation typePneumaticWidth26 mmStandard nominal flow rate1000 l/minPneumatic working portG1/8Operating pressure-0.09 MPa1 MPa -0.9 bar10 barStructural designPiston gate valveReset methodMechanical springNominal width8 mmWidth dimension27 mmExhaust air functionSoftMounting positionAnyManual overrideNonePilot ar supply portExternalFlow directionQverlapPilot pressure0.3 MPa1 MPa -0.9 bar10 barSuppleSoftMounting positionAnyManual overrideNonePilot air supply portExternalFlow directionReversibleLapOverlapPilot pressure3 bar10 barMax. suitching frequency3 HzSwitching time off14 msOn switching time5 msChangeover time24 msOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-81/82-LStorage temperature-40 °C60 °CTemperature of medium-10 °C60 °C	Feature	Value
With 26 mm Standard nominal flow rate 1000 l/min Pneumatic working port G1/8 Operating pressure -0.09 MPa1 MPa -0.0 > bar10 bar Structural design Piston gate valve Reset method Mechanical spring Nominal width 8 mm Width dimension 27 mm Exhaust air function With flow control option Sealing principle Soft Mounting position Any Manual override None Type of control Direct Pilot pressure 3 bar10 bar Pilot pressure MPa 0.3 MPa1 MPa Pilot pressure MPa 0.3 MPa1 MPa Pilot pressure 3 bar10 bar Max. soitching frequency 3 Hz Switching time off 14 ms On switching time 5 ms Changeover time 24 ms Operating medium Operation with oil lubrication possible (required for further use) Corrosion resistance class (CRC) 1 - Low corrosion stress LABS (PWIS) conformity VDMA24364-AB/1B2-L Storage temper	Valve function	5/3, exhausted
Standard nominal flow rate1000 l/minPneumatic working portG1/8Operating pressure-0.9 MPa1 MPa -0.9 bar10 barStructural designPiston gate valveReset methodMechanical springNominal width8 mmWidth dimension27 mmExhaust air functionWith flow control optionSealing principleSoftMounting positionAnyManual overrideNoneType of controlDirectPilot gates and0.3 MPa1 MPaPilot pressure MPa0.3 MPa1 MPaPilot pressure MPa3 bar10 barMax. switching frequency3 HzSwitching time off14 msOn switching time5 msChangeover time24 msOperating mediumCompressed air as per ISO 8573-1:2010[7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 - Low corrosion stressLaBS (PWIS) conformityVDMA24364-B1/B2-1Storage temperature-40 °C60 °CTemperature of medium-10 °C60 °C	Actuation type	Pneumatic
Pneumatic working port G1/8 Operating pressure -0.9 MPa1 MPa -0.9 bar1 0 bar Structural design Structural design Piston gate valve Reset method Mechanical spring Nominal width 8 mm Width dimension 27 mm Exhaust air function With flow control option Sealing principle Soft Mouning position Any Manual override None Type of control Direct Pilot air supply port External Flow direction Reversible Lap Overlap Pilot pressure MPa 0.3 MPa1 MPa Pilot pressure MPa 5 ms On switching frequency 3 Hz Switching time off 14 ms On switching time 5 ms Changeover time 24 ms Operating medium Operation with oil lubrication possible (required for further use) Corrosion resistance class (CRC)	Width	26 mm
Operating pressure-0.09 MPa1 MPa -0.9 bar10 barStructural designPiston gate valveReset methodMechanical springNominal width8 mmWidth dimension27 mmExhaust air functionWith flow control optionSealing principleSoftMounting positionAnyManual overrideNoneType of controlDirectPilot pressure3 bar10 barPilot pressure3 bar10 barMax. switching frequency3 HzSwitching time off14 msOn switching time5 msChargeover time24 msOperating mediumOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B1/B2-LStructure of medium-0.9 °C60 °C	Standard nominal flow rate	1000 l/min
-0.9 bar10 barStructural designPiston gate valveReset methodMechanical springNominal width8 mmWidth dimension27 mmExhaust air functionWith flow control optionSealing principleSoftMounting positionAnyManual overrideNoneType of controlDirectPilot air supply portExternalFlow directionReversibleLapOverlapPilot pressure MPa0.3 MPa10 barAnsswitching frequency3 HzSwitching time off14 msOn switching time5 msChargeover timeQarration with oil lubrication possible (required for further use)Operating mediumOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B1/B2-LStorage temperature-40 °C60 °CTemperature of medium-00 °C	Pneumatic working port	G1/8
Reset methodMechanical springNominal width8 mmWidth dimension27 mmExhaust air functionWith flow control optionSealing principleSoftMounting positionAnyManual overrideNoneType of controlDirectPilot air supply portExternalFlow directionReversibleLapOverlapPilot pressure MPa0.3 MPa10 MPaPilot pressure MPa5 msChangeover time5 msChangeover time24 msOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B1/B2-LStorage temperature-40 °C60 °CTemperature of medium-10 °C60 °C	Operating pressure	
Nominal width8 mmWidth dimension27 mmExhaust air functionWith flow control optionSealing principleSoftMounting positionAnyManual overrideNoneType of controlDirectPilot air supply portExternalFlow directionReversibleLapOverlapPilot pressure MPa0.3 MPa1 MPaPilot pressure frequency3 HzSwitching frequency3 HzSwitching time5 msChangeover time24 msOperating mediumCompressed air as per ISO 8573-1:2010[7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B1/B2-LTemperature of medium-10 °C60 °C	Structural design	Piston gate valve
Width dimension27 mmExhaust air functionWith flow control optionSealing principleSoftMounting positionAnyManual overrideNoneType of controlDirectPilot air supply portExternalFlow directionReversibleLapOverlapPilot pressure MPa0.3 MPa1 MPaPilot pressure MPa3 bar10 barMax. switching frequency3 HzSwitching time off14 msOn switching time5 msChangeover time24 msOperating mediumCompressed air as per ISO 8573-1:2010[7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B1/B2-LStorage temperature-40 °C60 °CTemperature of medium-10 °C60 °C	Reset method	Mechanical spring
Exhaust air functionWith flow control optionSealing principleSoftMounting positionAnyManual overrideNoneType of controlDirectPilot air supply portExternalFlow directionReversibleLapOverlapPilot pressure MPa0.3 MPa1 MPaPilot pressure3 bar10 barMax. switching frequency3 HzSwitching time off14 msOperating mediumCompressed air as per ISO 8573-1:2010[7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 · Low corrosion stressLABS (PWIS) conformityVDMA24364-B1/B2-LStorage temperature-40 °C60 °CTemperature of medium-10 °C60 °C	Nominal width	8 mm
Sealing principleSoftMounting positionAnyManual overrideNoneType of controlDirectPilot air supply portExternalFlow directionReversibleLapOverlapPilot pressure MPa0.3 MPa1 MPaPilot pressure3 bar10 barMax. switching frequency3 HzSwitching time5 msChangeover time24 msOperating mediumOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B1/B2-LStorage temperature-40 °C60 °C	Width dimension	27 mm
Mounting positionAnyManual overrideNoneType of controlDirectPilot air supply portExternalFlow directionReversibleLapOverlapPilot pressure MPa0.3 MPa1 MPaPilot pressure3 bar10 barMax. switching frequency3 HzSwitching time off14 msOn switching mediumCompressed air as per ISO 8573-1:2010[7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B1/B2-LStorage temperature-40 °C60 °CTemperature of medium-10 °C60 °C	Exhaust air function	With flow control option
Manual overrideNoneType of controlDirectPilot air supply portExternalFlow directionReversibleLapOverlapPilot pressure MPa0.3 MPa1 MPaPilot pressure3 bar10 barMax, switching frequency3 HzSwitching time off14 msOn switching mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B1/B2-LStorage temperature-40 °C60 °CTemperature of medium-10 °C60 °C	Sealing principle	Soft
Type of controlDirectPilot air supply portExternalFlow directionReversibleLapOverlapPilot pressure MPa0.3 MPa1 MPaPilot pressure3 bar10 barMax. switching frequency3 HzSwitching time off14 msOn switching time5 msChangeover time24 msOperating mediumOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B1/B2-LStorage temperature-40 °C60 °CTemperature of medium-10 °C60 °C	Mounting position	Any
Pilot air supply portExternalFlow directionReversibleLapOverlapPilot pressure MPa0.3 MPa1 MPaPilot pressure3 bar10 barMax. switching frequency3 HzSwitching time off14 msOn switching time5 msChangeover time24 msOperating mediumOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B1/B2-LStorage temperature-40 °C60 °CTemperature of medium-10 °C60 °C	Manual override	None
Flow directionReversibleLapOverlapPilot pressure MPa0.3 MPa1 MPaPilot pressure3 bar10 barMax. switching frequency3 HzSwitching time off14 msOn switching time5 msChangeover time24 msOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B1/B2-LStorage temperature-40 °C60 °CTemperature of medium-10 °C60 °C	Type of control	Direct
LapOverlapPilot pressure MPa0.3 MPa1 MPaPilot pressure3 bar10 barMax. switching frequency3 HzSwitching time off14 msOn switching time5 msChangeover time24 msOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B1/B2-LStorage temperature-40 °C60 °CTemperature of medium-10 °C60 °C	Pilot air supply port	External
Pilot pressure MPa0.3 MPa1 MPaPilot pressure3 bar10 barMax. switching frequency3 HzSwitching time off14 msOn switching time5 msChangeover time24 msOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B1/B2-LStorage temperature-40 °C60 °CTemperature of medium-10 °C60 °C	Flow direction	Reversible
Pilot pressure3 bar10 barMax. switching frequency3 HzSwitching time off14 msOn switching time5 msChangeover time24 msOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B1/B2-LStorage temperature-40 °C60 °CTemperature of medium-10 °C60 °C	Lap	Overlap
Max. switching frequency3 HzSwitching time off14 msOn switching time5 msChangeover time24 msOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B1/B2-LStorage temperature-40 °C60 °CTemperature of medium-10 °C60 °C	Pilot pressure MPa	0.3 MPa1 MPa
Switching time off14 msOn switching time5 msChangeover time24 msOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B1/B2-LStorage temperature-40 °C60 °CTemperature of medium-10 °C60 °C	Pilot pressure	3 bar10 bar
On switching time5 msChangeover time24 msOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B1/B2-LStorage temperature-40 °C60 °CTemperature of medium-10 °C60 °C	Max. switching frequency	3 Hz
Changeover time24 msOperating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B1/B2-LStorage temperature-40 °C60 °CTemperature of medium-10 °C60 °C	Switching time off	14 ms
Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B1/B2-LStorage temperature-40 °C60 °CTemperature of medium-10 °C60 °C	On switching time	5 ms
Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B1/B2-LStorage temperature-40 °C60 °CTemperature of medium-10 °C60 °C	Changeover time	24 ms
Corrosion resistance class (CRC)1 - Low corrosion stressLABS (PWIS) conformityVDMA24364-B1/B2-LStorage temperature-40 °C60 °CTemperature of medium-10 °C60 °C	Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
LABS (PWIS) conformityVDMA24364-B1/B2-LStorage temperature-40 °C60 °CTemperature of medium-10 °C60 °C	Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
Storage temperature -40 °C60 °C Temperature of medium -10 °C60 °C	Corrosion resistance class (CRC)	1 - Low corrosion stress
Temperature of medium -10 °C60 °C	LABS (PWIS) conformity	VDMA24364-B1/B2-L
	Temperature of medium	-10 °C60 °C
Lompressed air as per ISU 8573-1:2010[7:4:4]	Pilot medium	Compressed air as per ISO 8573-1:2010 [7:4:4]

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Feature	Value
Ambient temperature	-10 °C60 °C
Product weight	320 g
Type of mounting	On PR rail With through-hole Optionally:
Pilot exhaust air port 82	M5
Pilot air port 12	G1/8
Pilot air port 14	G1/8
Pneumatic connection 1	G1/8
Pneumatic connection 2	G1/8
Pneumatic connection 3	G1/8
Pneumatic connection 4	G1/8
Pneumatic connection 5	G1/8
Note on materials	RoHS-compliant
Seals material	NBR
Housing material	Die-cast aluminum