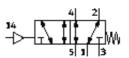
## Pneumatic valve VL-5/2-D-02-FR Part number: 161082

5/2-way function, pneumatically actuated, with spring return Type to be discontinued. Available until 2009.

## **Data sheet**

Valve function   5/2 single solenoid     Type of actuation   pneumatic     Width   18 mm     Standard nominal flow rate   500 U/min     Working pressure   -0.9 10 bar     Design structure   Piston slide     Type of reset   mechanical spring     Authorization   Germanischer Lloyd     Nominal size   6 mm     Grid dimension   19 mm     Exhaust-air function   soft     Sealing principle   soft     Assembly position   Any     Conforms to standard   VDM 24563     Manual override   None     Type of piloting   direct     Pilot ari supply   Internal     Flow direction   reversible     Switching time off   18 ms     Switching time off   18 ms     Switching time on   8 ms     Operating medium   filtered compressed air, grade of filtration 40 µm, lubricated or unlubricated     Vacuum   Corrosion resistance classification CRC   2     Pilot medium   filtered compressed air, grade of filtration 40 µm, lubricated	Feature	Value
Width 18 mm   Standard nominal flow rate 500 l/min   Working pressure -0.9 10 bar   Design structure Piston slide   Type of reset mechanical spring   Authorization Germanischer Lloyd   Nominal size 6 mm   Grid dimension 19 mm   Exhaust-air function throttleable   Sealing principle soft   Assembly position Any   Conforms to standard VDMA 24563   Manual override None   Type of piloting direct   Pilot air supply Internal   Flow direction reversible   Switching time onf 3 ms   Switching time onf 8 ms   Operating medium filtered compressed air, grade of filtration 40 µm, lubricated or unlubricated   Vacuum corrosion resistance classification CRC 2   Medium temperature -10 60 °C   Pilot medium filtered compressed air, grade of filtration 40 µm, lubricated or unlubricated   Mabeint temperature -10 60 °C   Pilot medium filtered Compressed air, grade of filtration 40 µm, lubricated or unlu	Valve function	5/2 single solenoid
Standard nominal flow rate 500 l/min   Working pressure 0.910 bar   Design structure Piston slide   Type of reset mechanical spring   Authorization Germanischer Lloyd   Nominal size 6 mm   Grid dimension 19 mm   Exhaust-air function throttleable   Sealing principle soft   Assembly position Any   Conforms to standard VDMA 24563   Manual override None   Type of piloting direct   Pilot air supply Internal   Flow direction reversible   Switching time off 18 ms   Switching time off 18 ms   Switching time on 8 ms   Operating medium filtered compressed air, grade of filtration 40 µm, lubricated or unlubricated   Vacuum 2   Corrosion resistance classification CRC 2   Pilot medium filtered compressed air, grade of filtration 40 µm, lubricated or unlubricated   Muting type with through hole   Preumatic connection, port 1 Subbase VDMA 24563 size 2   Pneumatic connection, port 2	Type of actuation	pneumatic
Working pressure -0.910 bar   Design structure Piston slide   Type of reset mechanical spring   Authorization Germanischer Lloyd   Nominal size 6 mm   Grid dimension 19 mm   Exhaust air function throttleable   Sealing principle soft   Assembly position Any   Conforms to standard VDMA 24563   Manual override None   Type of piloting direct   Pilot air supply Internal   Flow direction reversible   Switching time off 18 ms   Switching time off 18 ms   Switching time on 8 ms   Operating medium filtered compressed air, grade of filtration 40 µm, lubricated or unlubricated   Vacuum 2   Pilot memperature 10 60 °C   Pilot memperature 10 60 °C   Pilot metage 120 g   Mounting type with through hole   Mundurity type with through hole   Preumatic connection, port 1 Subbase VDMA 24563 size 2   Pneumatic connection, port 3	Width	18 mm
Design structure   Piston slide     Type of reset   mechanical spring     Authorization   Germanischer Lloyd     Mominal size   6 mm     Grid dimension   19 mm     Exhaust-air function   Soft     Assembly position   Any     Conforms to standard   VDMA 24563     Manual override   None     Type of piloting   direct     Pilot air supply   Internal     Flow direction   reversible     Pilot pressure   3 10 bar     Switching time off   18 ms     Switching time off   8 ms     Operating medium   filtered compressed air, grade of filtration 40 µm, lubricated or unlubricated     Vacuum   Corrosion resistance classification CRC   2     Medium temperature   -10 60 °C   10 unbricated or unlubricated or Unbricated Or Coresion resistance classification CRC   2     Product weight   120 g   10 60 °C	Standard nominal flow rate	500 l/min
Type of reset mechanical spring   Authorization Germanischer Lloyd   Nominal size 6 mm   Grid dimension 19 mm   Exhaust-air function throttleable   Sealing principle soft   Assembly position Any   Conforms to standard VDMA 24563   Manual override None   Type of piloting direct   Pilot air supply Internal   Flow direction reversible   Pilot pressure 3 10 bar   Switching time on 8 ms   Operating medium filtered compressed air, grade of filtration 40 µm, lubricated or unlubricated   Vacuum corrosion resistance classification CRC   Q 2   Medium temperature -10 60 °C   Product weight 120 g   Mounting type with through hole   Pneumatic connection, port 1 Subbase VDMA 24563 size 2   Pneumatic connection, port 3 Subbase VDMA 24563 size 2   Pneumatic connection, port 5 Subbase VDMA 24563 size 2	Working pressure	-0.9 10 bar
AuthorizationGermanischer LloydNominal size6 mmGrid dimension19 mmExhaust-air functionthrottleableSealing principlesoftAssembly positionAnyConforms to standardVDMA 24563Manual overrideNoneType of pilotingdirectPilot air supplyInternalFlow directionreversiblePilot pressure3 10 barSwitching time onf18 msSwitching time on8 msOperating mediumfiltered compressed air, grade of filtration 40 µm, lubricated or unlubricatedVacuum2Corrosion resistance classification CRC2Medium temperature-10 60 °CProduct weight120 gMonting typewith through holePneumatic connection, port 1Subbase VDMA 24563 size 2Pneumatic connection, port 3Subbase VDMA 24563 size 2Pneumatic connection, port 5Subbase VDMA 24563 size 2Pneumatic connection, port 5Subbase VDMA 24563 size 2	Design structure	Piston slide
Nominal size6 mmGrid dimension19 mmExhaust-air functionthrottleableSealing principlesoftAssembly positionAnyConforms to standardVDMA 24563Manual overrideNoneType of pilotingdirectPilot air supplyInternalFlow directionreversiblePilot pressure3 10 barSwitching time onf18 msSwitching time on8 msOperating mediumfiltered compressed air, grade of filtration 40 µm, lubricated or unlubricatedVacuum2Corrosion resistance classification CRC2Medium temperature-10 60 °CPilot megrature-10 60 °CProduct weight120 gMounting typewith through holePneumatic connection, port 1Subbase VDMA 24563 size 2Pneumatic connection, port 3Subbase VDMA 24563 size 2Pneumatic connection, port 4Subbase VDMA 24563 size 2Pneumatic connection, port 5Subbase VDMA 24563 size 2Pneumatic connection, port 5Subbase VDMA 24563 size 2	Type of reset	mechanical spring
Grid dimension19 mmExhaust-air functionthrottleableSealing principlesoftAssembly positionAnyConforms to standardVDMA 24563Manual overrideNoneType of pilotingdirectPilot air supplyInternalFlow directionreversiblePilot air supply18 msSwitching time on8 msOperating mediumfiltered compressed air, grade of filtration 40 µm, lubricated or unlubricatedVacuum20 °CCorrosion resistance classification CRC2Medium temperature-10 60 °CPilot mediumfiltered compressed air, grade of filtration 40 µm, lubricated or unlubricatedAmbient temperature-10 60 °CProduct weight120 gMounting typewith through holePneumatic connection, port 1Subbase VDMA 24563 size 2Pneumatic connection, port 3Subbase VDMA 24563 size 2Pneumatic connection, port 5Subbase VDMA 24563 size 2Pneumatic connection, port 5Subbase VDMA 24563 size 2	Authorization	Germanischer Lloyd
Exhaust-air functionthrottleableSealing principlesoftAssembly positionAnyConforms to standardVDMA 24563Manual overrideNoneType of pilotingdirectPilot air supplyInternalFlow directionreversiblePilot pressure3 10 barSwitching time onf18 msSwitching time on8 msOperating mediumfiltered compressed air, grade of filtration 40 µm, lubricated or unlubricatedVacuumcorrosion resistance classification CRCPilot megrature-10 60 °CPilot weight120 gMounting typewith through holePneumatic connection, port 1Subbase VDMA 24563 size 2Pneumatic connection, port 3Subbase VDMA 24563 size 2Pneumatic connection, port 4Subbase VDMA 24563 size 2Pneumatic connection, port 5Subbase VDMA 24563 size 2	Nominal size	6 mm
Sealing principle soft   Assembly position Any   Conforms to standard VDMA 24563   Manual override None   Type of piloting direct   Pilot air supply Internal   Flow direction reversible   Pilot pressure 3 10 bar   Switching time off 18 ms   Switching time on 8 ms   Operating medium filtered compressed air, grade of filtration 40 µm, lubricated or unlubricated   Vacuum Corrosion resistance classification CRC   Pilot medium filtered compressed air, grade of filtration 40 µm, lubricated or unlubricated   Vacuum 2   Medium temperature -10 60 °C   Pilot medium filtered compressed air, grade of filtration 40 µm, lubricated or unlubricated   Ambient temperature -10 60 °C   Product weight 120 g   Mounting type with through hole   Pneumatic connection, port 1 Subbase VDMA 24563 size 2   Pneumatic connection, port 3 Subbase VDMA 24563 size 2   Pneumatic connection, port 4 Subbase VDMA 24563 size 2   Pneumatic connection, port 5 Subbase VDMA 24563 siz	Grid dimension	19 mm
Assembly positionAnyConforms to standardVDMA 24563Manual overrideNoneType of pilotingdirectPilot air supplyInternalFlow directionreversiblePilot pressure3 10 barSwitching time off18 msSwitching time on8 msOperating mediumfiltered compressed air, grade of filtration 40 µm, lubricated or unlubricated VacuumCorrosion resistance classification CRC2Medium temperature-10 60 °CPilot mediumfiltered compressed air, grade of filtration 40 µm, lubricated or unlubricated VacuumCorrosion resistance classification CRC2Medium temperature-10 60 °CPilot mediumfiltered compressed air, grade of filtration 40 µm, lubricated or unlubricatedMounting typewith through holePneumatic connection, port 1Subbase VDMA 24563 size 2Pneumatic connection, port 3Subbase VDMA 24563 size 2Pneumatic connection, port 4Subbase VDMA 24563 size 2Pneumatic connection, port 5Subbase VDMA 24563 size 2	Exhaust-air function	throttleable
Conforms to standardVDMA 24563Manual overrideNoneType of pilotingdirectPilot air supplyInternalFlow directionreversiblePilot pressure3 10 barSwitching time off18 msSwitching time on8 msOperating mediumfiltered compressed air, grade of filtration 40 µm, lubricated or unlubricatedCorrosion resistance classification CRC2Medium temperature-10 60 °CPilot mediumfiltered compressed air, grade of filtration 40 µm, lubricated or unlubricatedCorrosion resistance classification CRC2Medium temperature-10 60 °CPilot mediumfiltered compressed air, grade of filtration 40 µm, lubricated or unlubricatedAmbient temperature-10 60 °CProduct weight120 gMounting typewith through holePneumatic connection, port 1Subbase VDMA 24563 size 2Pneumatic connection, port 3Subbase VDMA 24563 size 2Pneumatic connection, port 4Subbase VDMA 24563 size 2Pneumatic connection, port 5Subbase VDMA 24563 size 2	Sealing principle	soft
Manual override None   Type of piloting direct   Pilot air supply Internal   Flow direction reversible   Pilot pressure 3 10 bar   Switching time off 18 ms   Operating medium filtered compressed air, grade of filtration 40 µm, lubricated or unlubricated   Vacuum 2   Corrosion resistance classification CRC 2   Medium temperature -10 60 °C   Pilot medium filtered compressed air, grade of filtration 40 µm, lubricated or unlubricated   Ambient temperature -10 60 °C   Product weight 120 g   Mounting type with through hole   Pneumatic connection, port 1 Subbase VDMA 24563 size 2   Pneumatic connection, port 3 Subbase VDMA 24563 size 2   Pneumatic connection, port 4 Subbase VDMA 24563 size 2   Pneumatic connection, port 5 Subbase VDMA 24563 size 2	Assembly position	Any
Type of pilotingdirectPilot air supplyInternalFlow directionreversiblePilot pressure3 10 barSwitching time off18 msSwitching time on8 msOperating mediumfiltered compressed air, grade of filtration 40 µm, lubricated or unlubricated VacuumCorrosion resistance classification CRC2Medium temperature-10 60 °CPilot mediumfiltered compressed air, grade of filtration 40 µm, lubricated or unlubricatedPilot mediumfiltered compressed air, grade of filtration 40 µm, lubricated or unlubricatedPilot mediumfiltered compressed air, grade of filtration 40 µm, lubricated or unlubricatedProduct weight10 60 °CProduct weight120 gMounting typewith through holePneumatic connection, port 1Subbase VDMA 24563 size 2Pneumatic connection, port 3Subbase VDMA 24563 size 2Pneumatic connection, port 4Subbase VDMA 24563 size 2Pneumatic connection, port 5Subbase VDMA 24563 size 2	Conforms to standard	VDMA 24563
Pilot air supply Internal   Flow direction reversible   Pilot pressure 3 10 bar   Switching time off 18 ms   Switching time on 8 ms   Operating medium filtered compressed air, grade of filtration 40 µm, lubricated or unlubricated   Vacuum 2   Medium temperature -10 60 °C   Pilot medium filtered compressed air, grade of filtration 40 µm, lubricated or unlubricated   Ambient temperature -10 60 °C   Product weight 120 g   Mounting type with through hole   Pneumatic connection, port 1 Subbase VDMA 24563 size 2   Pneumatic connection, port 3 Subbase VDMA 24563 size 2   Pneumatic connection, port 4 Subbase VDMA 24563 size 2	Manual override	None
Flow direction reversible   Pilot pressure 3 10 bar   Switching time off 18 ms   Switching time on 8 ms   Operating medium filtered compressed air, grade of filtration 40 µm, lubricated or unlubricated Vacuum   Corrosion resistance classification CRC 2   Medium temperature -10 60 °C   Pilot medium filtered compressed air, grade of filtration 40 µm, lubricated or unlubricated   Ambient temperature -10 60 °C   Product weight 120 g   Mounting type with through hole   Pneumatic connection, port 1 Subbase VDMA 24563 size 2   Pneumatic connection, port 3 Subbase VDMA 24563 size 2   Pneumatic connection, port 4 Subbase VDMA 24563 size 2   Pneumatic connection, port 5 Subbase VDMA 24563 size 2	Type of piloting	direct
Pilot pressure3 10 barSwitching time off18 msSwitching time on8 msOperating mediumfiltered compressed air, grade of filtration 40 µm, lubricated or unlubricated VacuumCorrosion resistance classification CRC2Medium temperature-10 60 °CPilot mediumfiltered compressed air, grade of filtration 40 µm, lubricated or unlubricated VacuumCorrosion resistance classification CRC2Medium temperature-10 60 °CPilot mediumfiltered compressed air, grade of filtration 40 µm, lubricated or unlubricatedAmbient temperature-10 60 °CProduct weight120 gMounting typewith through holePneumatic connection, port 1Subbase VDMA 24563 size 2Pneumatic connection, port 2Subbase VDMA 24563 size 2Pneumatic connection, port 3Subbase VDMA 24563 size 2Pneumatic connection, port 4Subbase VDMA 24563 size 2Pneumatic connection, port 5Subbase VDMA 24563 size 2	Pilot air supply	Internal
Switching time off18 msSwitching time on8 msOperating mediumfiltered compressed air, grade of filtration 40 µm, lubricated or unlubricated VacuumCorrosion resistance classification CRC2Medium temperature-10 60 °CPilot mediumfiltered compressed air, grade of filtration 40 µm, lubricated or unlubricatedAmbient temperature-10 60 °CProduct weight120 gMounting typewith through holePneumatic connection, port 1Subbase VDMA 24563 size 2Pneumatic connection, port 3Subbase VDMA 24563 size 2Pneumatic connection, port 4Subbase VDMA 24563 size 2Pneumatic connection, port 5Subbase VDMA 24563 size 2	Flow direction	reversible
Switching time on8 msOperating mediumfiltered compressed air, grade of filtration 40 µm, lubricated or unlubricated VacuumCorrosion resistance classification CRC2Medium temperature-10 60 °CPilot mediumfiltered compressed air, grade of filtration 40 µm, lubricated or unlubricatedAmbient temperature-10 60 °CProduct weight120 gMounting typewith through holePneumatic connection, port 1Subbase VDMA 24563 size 2Pneumatic connection, port 3Subbase VDMA 24563 size 2Pneumatic connection, port 4Subbase VDMA 24563 size 2	Pilot pressure	3 10 bar
Operating mediumfiltered compressed air, grade of filtration 40 µm, lubricated or unlubricated VacuumCorrosion resistance classification CRC2Medium temperature-10 60 °CPilot mediumfiltered compressed air, grade of filtration 40 µm, lubricated or unlubricatedAmbient temperature-10 60 °CProduct weight120 gMounting typewith through holePneumatic connection, port 1Subbase VDMA 24563 size 2Pneumatic connection, port 3Subbase VDMA 24563 size 2Pneumatic connection, port 4Subbase VDMA 24563 size 2	Switching time off	18 ms
unlubricated VacuumCorrosion resistance classification CRC2Medium temperature-10 60 °CPilot mediumfiltered compressed air, grade of filtration 40 µm, lubricated or unlubricatedAmbient temperature-10 60 °CProduct weight120 gMounting typewith through holePneumatic connection, port 1Subbase VDMA 24563 size 2Pneumatic connection, port 3Subbase VDMA 24563 size 2Pneumatic connection, port 4Subbase VDMA 24563 size 2	Switching time on	8 ms
Corrosion resistance classification CRC2Medium temperature-10 60 °CPilot mediumfiltered compressed air, grade of filtration 40 µm, lubricated or unlubricatedAmbient temperature-10 60 °CProduct weight120 gMounting typewith through holePneumatic connection, port 1Subbase VDMA 24563 size 2Pneumatic connection, port 3Subbase VDMA 24563 size 2Pneumatic connection, port 4Subbase VDMA 24563 size 2	Operating medium	
Medium temperature-10 60 °CPilot mediumfiltered compressed air, grade of filtration 40 µm, lubricated or unlubricatedAmbient temperature-10 60 °CProduct weight120 gMounting typewith through holePneumatic connection, port 1Subbase VDMA 24563 size 2Pneumatic connection, port 2Subbase VDMA 24563 size 2Pneumatic connection, port 3Subbase VDMA 24563 size 2Pneumatic connection, port 4Subbase VDMA 24563 size 2Pneumatic connection, port 5Subbase VDMA 24563 size 2		Vacuum
Pilot mediumfiltered compressed air, grade of filtration 40 µm, lubricated or unlubricatedAmbient temperature-10 60 °CProduct weight120 gMounting typewith through holePneumatic connection, port 1Subbase VDMA 24563 size 2Pneumatic connection, port 2Subbase VDMA 24563 size 2Pneumatic connection, port 3Subbase VDMA 24563 size 2Pneumatic connection, port 4Subbase VDMA 24563 size 2Pneumatic connection, port 5Subbase VDMA 24563 size 2	Corrosion resistance classification CRC	2
Pilot mediumfiltered compressed air, grade of filtration 40 µm, lubricated or unlubricatedAmbient temperature-10 60 °CProduct weight120 gMounting typewith through holePneumatic connection, port 1Subbase VDMA 24563 size 2Pneumatic connection, port 2Subbase VDMA 24563 size 2Pneumatic connection, port 3Subbase VDMA 24563 size 2Pneumatic connection, port 4Subbase VDMA 24563 size 2Pneumatic connection, port 5Subbase VDMA 24563 size 2	Medium temperature	-10 60 °C
Ambient temperature-10 60 °CProduct weight120 gMounting typewith through holePneumatic connection, port 1Subbase VDMA 24563 size 2Pneumatic connection, port 2Subbase VDMA 24563 size 2Pneumatic connection, port 3Subbase VDMA 24563 size 2Pneumatic connection, port 4Subbase VDMA 24563 size 2Pneumatic connection, port 5Subbase VDMA 24563 size 2	Pilot medium	
Product weight120 gMounting typewith through holePneumatic connection, port 1Subbase VDMA 24563 size 2Pneumatic connection, port 2Subbase VDMA 24563 size 2Pneumatic connection, port 3Subbase VDMA 24563 size 2Pneumatic connection, port 4Subbase VDMA 24563 size 2Pneumatic connection, port 5Subbase VDMA 24563 size 2	Ambient temperature	
Mounting typewith through holePneumatic connection, port 1Subbase VDMA 24563 size 2Pneumatic connection, port 2Subbase VDMA 24563 size 2Pneumatic connection, port 3Subbase VDMA 24563 size 2Pneumatic connection, port 4Subbase VDMA 24563 size 2Pneumatic connection, port 5Subbase VDMA 24563 size 2		
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Pneumatic connection, port 4Subbase VDMA 24563 size 2Pneumatic connection, port 5Subbase VDMA 24563 size 2	-	
Pneumatic connection, port 5 Subbase VDMA 24563 size 2		12.2
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INTERNAL IN	Materials information for seals	NBR
Materials information, housing Aluminum die cast		



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