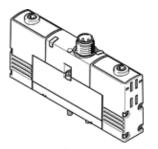
## solenoid valve **VSVA-B-B52-H-A2-1R2L** Part number: 534776

**FESTO** 

with central plug, round design M8x1.



## **Data sheet**

Valve function  Type of actuation  Relectrical  Width  18 mm  Standard nominal flow rate  Operating pressure  3 8 bar  Design structure  Authorisation  C-Tick  C CSA us (OL)  C Ut us - Recognized (OL)  CE mark (see declaration of conformity)  To EU directive for EMC  Protection class  IP65  Som  Som  Som  Exhaust-air function  Conforms to standard  Conforms to standard  Conforms to standard  ISO 15407-1  VDMA 24563  Manual override  Pilot air supply  Internal  Flow direction  Overlap  Signal status display  Flow rate of valve on individual sub-base  Flow rate of valve no individual sub-base  Sob Uymin  Flow rate of valve no individual sub-base  Flow rate of valve no individual sub-base  Sob Uymin  Flow rate of valve no individual sub-base  Sob Uymin  Flow rate of valve no individual sub-base  Sob Uymin  Compressed air in accordance with ISOS573-1:2010 [7:4:4]  Note on operating and pilot medium  Lubricated operation possible (subsequently required for further operation)  Vibration resistance	Feature	Value
Width Standard nominal flow rate Operating pressure Design structure Authorisation C.Tick C.SA us (OL) C.U. us - Recognized (OL) CE mark (see declaration of conformity) To EU directive for EMC Protection class IP65 Nominal size S nm Exhaust-air function Sealing principle Soft Assembly position Any Conforms to standard ISO 15407-1 VDMA 24563 Manual override Pilot directive Piloted Pilot directive Piloted Pilot directive Positing Piloted Pilot directive Positing Piloted Pilot directive Positing Piloted Pilot directive Positive overlap Signal status display IED Flow rate of valve Flow rate of valve Flow rate of valve on individual sub-base Flow rate of pneumatically linked valve Switching time reversal Doperating voltage range DC Duty cycle Max. negative test pulse with logic 1 Soo us Lubricated operation possible (subsequently required for further operation) Lubricated operation opersition possible (subsequently required for further operation) Lubricated operation operation Lubricated operation operation and pilot medium Lubricated operation operation Lubricated operation operation and pilot medium Lubricated operation opessible (subsequently required for further operation)	Valve function	5/2 bistable
Standard nominal flow rate Operating pressure Design structure Authorisation C-Tick C CSA us (OL) C UL us - Recognized (OL) CE mark (see declaration of conformity) To EU directive for EMC Protection class IP65 Nominal size S fmm Exhaust-air function Sealing principle Soft Assembly position Conforms to standard ISO 15407-1 VDMA 24563 Manual override Type of piloting Piloted Plot air supply Internal Flow direction Overlap Signal status display ILED Flow rate of valve on individual sub-base Flow rate of valve on individual sub-base Flow rate of pneumatically linked valve Switching time reversal Operating voltage range DC Operating will be sub-sub-supply (Compared to the sub-sub-supple with logic 0 Max. negative test pulse with logic 1 Max. negative test pulse with logic 1 Soo perating medium Compersed air in accordance with ISO8573-1:2010 [7:4:4] Note on operating and pilot medium Unbricked operation possible (subsequently required for further operation)	Type of actuation	electrical
Operating pressure     3 8 bar       Design structure     Piston slide       Authorisation     C.Tick c CSA us (OL) c UL us - Recognized (OL)       CE mark (see declaration of conformity)     to EU directive for EMC       Protection class     IP65       Nominal size     5 mm       Exhaust-air function     throttleable       Sealing principle     soft       Assembly position     Any       Conforms to standard     ISO 15407-1 VDMA 24563       Manual override     Pushing       Type of piloting     Piloted       Pilot air supply     Internal       Flow direction     non reversible       Overlap     Positive overlap       Signal status display     LED       Flow rate of valve on individual sub-base     750 I/min       Flow rate of valve on individual sub-base     550 I/min       Flow rate of pneumatically linked valve     550 I/min       Switching time reversal     10 ms       Operating woltage range DC     21.6 26.4 V       Duty cycle     100 %       Max. negative test pulse with logic 0     500 µs       Max. negative test pulse with logic 1     500 µs       Characteristic coil data     Compressed air in accordance with ISO8573-1:2010 [7:4:4]       Note on operating and pilot medium     Lubricated operation possible (subse	Width	18 mm
Design structure Authorisation  C-Tick C-Tick C CSA us (OL) CUL us - Recognized (OL) CE mark (see declaration of conformity)  to EU directive for EMC Protection class IP65 Nominal size S mm Exhaust-air function Sealing principle Sealing principle Assembly position Conforms to standard Size S mm  Exhaust-air function Sealing principle Soft Assembly position Conforms to standard Size S mm  Exhaust-air function Sealing principle Soft Assembly position Conforms to standard Size S mm  Exhaust-air function Sealing principle Soft Assembly position Conforms to standard Size S mm  Exhaust-air function Any Conforms to standard Size S mm  Exhaust-air function Soft Assembly position Conforms to standard Size S mm  Exhaust-air function Any Conforms to standard Size S mm  Filout act supply Internal Filot air supply Internal Filot air supply Internal Filot air supply Internal Filow direction Non reversible Overlap Signal status display Filow rate of valve T So I/min Filow rate of valve on individual sub-base Filow rate of valve on individual sub-base Size I/min Filow rate of valve on individual sub-base Size I/min Switching time reversal In ms Operating voltage range DC Duty cycle 100 % Max. positive test pulse with logic 0 Max. positive test pulse with logic 0 Max. positive test pulse with logic 0 Max. positive test pulse with logic 1 Size S in accordance with ISO8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation possible (subsequently required for further operation)	Standard nominal flow rate	550 l/min
Authorisation  C-Tick c CSA us (OL) c UL us - Recognized (OL) CE mark (see declaration of conformity)  To EU directive for EMC  Protection class IP65 Nominal size 5 mm Exhaust-air function Sealing principle Soft Assembly position Any Conforms to standard ISO 15407-1 VDMA 24563 Manual override Pushing Type of piloting Piloted Pilot air supply Internal Flow direction Overlap Signal status display IED Flow rate of valve on individual sub-base Flow rate of valve on individual sub-base Flow rate of pneumatically linked valve Sistiching time reversal Operating voltage range DC Duty cycle Max. positive test pulse with logic 0 Max. negative test pulse with logic 1 Compressed air in accordance with ISO8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation possible (subsequently required for further operation)	Operating pressure	3 8 bar
c CSA us (OL) c UL us - Recognized (OL)  CE mark (see declaration of conformity)  Protection class  IP65  Nominal size 5 mm  Exhaust-air function  Sealing principle Assembly position  Conforms to standard  ISO 15407-1  VDMA 24563  Manual override Type of piloting Pilota dir supply Internal  Flow direction  Overlap  Signal status display  IED  Flow rate of valve  Flow rate of valve on individual sub-base Iow rate of pneumatically linked valve  Switching time reversal  Operating time reversal  Operating to the sub-sub-sup value with logic 0  Max. negative test pulse with logic 1  Compressed air in accordance with ISO8573-1:2010 [7:4:4]  Note on operating and pilot medium  Compressed air in accordance with ISO8573-1:2010 [7:4:4]  Lubricated operation)  To Sull direction possible (subsequently required for further operation)	Design structure	Piston slide
c UL us - Recognized (OL)  CE mark (see declaration of conformity)  Protection class  IP65  Nominal size  5 mm  Exhaust-air function  throttleable  Sealing principle Assembly position  Conforms to standard  ISO 15407-1  YDMA 24563  Manual override  Type of piloting  Piloted  Pilot air supply  Internal  Flow direction  Overlap  Positive overlap  Signal status display  LED  Flow rate of valve on individual sub-base  Flow rate of valve on individual sub-base  Flow rate of pneumatically linked valve  Switching time reversal  Operating voltage range DC  Duty cycle  Max. positive etst pulse with logic 0  Max. negative test pulse with logic 1  Compressed air in accordance with ISO8573-1:2010 [7:4:4]  Lubricated operation)  Lubricated operation possible (subsequently required for further operation)	=	C-Tick
CE mark (see declaration of conformity)       to EU directive for EMC         Protection class       IP65         Nominal size       5 mm         Exhaust-air function       throttleable         Sealing principle       soft         Assembly position       Any         Conforms to standard       ISO 15407-1         VDMA 24563       Pushing         Type of piloting       Piloted         Pilot air supply       Internal         Flow direction       non reversible         Overlap       Positive overlap         Signal status display       LED         Flow rate of valve       750 l/min         Flow rate of valve on individual sub-base       550 l/min         Flow rate of pneumatically linked valve       550 l/min         Switching time reversal       10 ms         Operating voltage range DC       21.6 26.4 V         Duty cycle       100 %         Max. positive test pulse with logic 0       500 μs         Max. negative test pulse with logic 1       500 μs         Characteristic coil data       24 V DC: low-current phase 1 W, high-current phase 2.4 W         Operating medium       Compressed air in accordance with ISO8573-1:2010 [7:4:4]         Note on operating and pilot medium       Lub		c CSA us (OL)
Protection class IP65  Nominal size 5 mm  Exhaust-air function throttleable  Sealing principle soft  Assembly position Any  Conforms to standard ISO 15407-1  VDMA 24563  Manual override Pushing  Type of piloting Piloted Internal  Flow direction non reversible  Overlap Positive overlap  Signal status display IED  Flow rate of valve on individual sub-base 550 I/min  Flow rate of valve on individual sub-base 550 I/min  Flow rate of pneumatically linked valve 550 I/min  Switching time reversal 10 ms  Operating voltage range DC 21.6 26.4 V  Duty cycle 100 %  Max. positive test pulse with logic 0 500 µs  Max. negative test pulse with logic 1 500 µs  Compressed air in accordance with ISO8573-1:2010 [7:4:4]  Note on operating and pilot medium cushors as for the concertain operation possible (subsequently required for further operation)		c UL us - Recognized (OL)
Nominal size 5 mm  Exhaust-air function throttleable Sealing principle soft Assembly position Any Conforms to standard ISO 15407-1 VDMA 24563  Manual override Pushing Type of piloting Piloted Pilot air supply Internal Flow direction non reversible Overlap Positive overlap Signal status display LED Flow rate of valve 750 I/min Flow rate of valve on individual sub-base 550 I/min Flow rate of pneumatically linked valve 550 I/min Switching time reversal 10 ms Operating voltage range DC 21.6 26.4 V Duty cycle 100 % Max. positive test pulse with logic 0 500 µs Max. negative test pulse with logic 1 500 µs Characteristic coil data 24 V DC: low-current phase 1 W, high-current phase 2.4 W Operating medium Comperating and pilot medium coperation)	CE mark (see declaration of conformity)	to EU directive for EMC
Exhaust-air function throttleable soft soft Assembly position Any Conforms to standard ISO 15407-1 VDMA 24563 Manual override Pushing Piloted Pilot air supply Internal Flow direction non reversible Overlap Positive overlap Positive overlap Positive overlap Pilot at at subject of pilotidial sub-base Flow rate of valve 750 l/min Flow rate of valve on individual sub-base 550 l/min Flow rate of pneumatically linked valve 550 l/min Switching time reversal 10 ms Operating voltage range DC 21.6 26.4 V Duty cycle 100 % Max. positive test pulse with logic 0 500 µs Max. negative test pulse with logic 1 500 µs Compressed air in accordance with ISO8573-1:2010 [7:4:4] Note on operating and pilot medium Logication in soft subsequently required for further operation)	Protection class	IP65
Sealing principle Assembly position Any Conforms to standard ISO 15407-1 VDMA 24563 Manual override Pushing Type of piloting Piloted Piloted Piloted Piloted Piloted Positive overlap Flow direction Overlap Positive overlap Signal status display LED Flow rate of valve Flow rate of valve on individual sub-base Flow rate of pneumatically linked valve Switching time reversal Operating voltage range DC Duty cycle Max. positive test pulse with logic 0 Max. negative test pulse with logic 1 Characteristic coil data Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Note on operating and pilot medium  South Any Sout	Nominal size	5 mm
Assembly position  Any  Conforms to standard  ISO 15407-1  VDMA 24563  Manual override  Pushing  Type of piloting  Piloted  Piloted  Piloted  Piloted  Positive overlap  Signal status display  IED  Flow rate of valve on individual sub-base  Flow rate of pneumatically linked valve  Switching time reversal  Operating voltage range DC  Duty cycle  Max. positive test pulse with logic 0  Max. negative test pulse with logic 1  Characteristic coil data  Operating medium  Note on operating and pilot medium  Any  Elso 150 15407-1  VDMA 24563  Pushing  Ploted  Pushing  Positive overlap  LED  750 1/min  550 1/min  Sim 10 ms  Operating voltage range DC  21.6 26.4 V  Duty cycle  100 %  Max. negative test pulse with logic 0  500 µs  Max. negative test pulse with logic 1  Compressed air in accordance with ISO8573-1:2010 [7:4:4]  Note on operating and pilot medium  Lubricated operation possible (subsequently required for further operation)	Exhaust-air function	throttleable
Conforms to standard  ISO 15407-1 VDMA 24563  Manual override Type of piloting Piloted Pilot air supply Ploted Positive oversible Overlap Signal status display Flow rate of valve Flow rate of valve on individual sub-base Flow rate of pneumatically linked valve Switching time reversal Operating voltage range DC Duty cycle Max. positive test pulse with logic 0 Max. negative test pulse with logic 1 Characteristic coil data Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Note on operating and pilot medium  Internal Pushing Piloted Pushing Positive overlap Signal status display LED Positive overlap Signal status display LED Flow rate of valve 750 l/min Souling Internal Positive overlap Signal status display LED Flow rate of valve 750 l/min Souling Internal Positive overlap Signal status display LED Flow rate of valve Topolitive overlap Signal status display LED Flow rate of valve Topolitive overlap Signal status display Lebricated operation possible (subsequently required for further operation)	Sealing principle	soft
VDMA 24563     Manual override	Assembly position	Any
Manual overridePushingType of pilotingPilotedPilot air supplyInternalFlow directionnon reversibleOverlapPositive overlapSignal status displayLEDFlow rate of valve750 l/minFlow rate of valve on individual sub-base550 l/minFlow rate of pneumatically linked valve550 l/minSwitching time reversal10 msOperating voltage range DC21.6 26.4 VDuty cycle100 %Max. positive test pulse with logic 0500 μsMax. negative test pulse with logic 1500 μsCharacteristic coil data24 V DC: low-current phase 1 W, high-current phase 2.4 WOperating mediumCompressed air in accordance with ISO8573-1:2010 [7:4:4]Note on operating and pilot mediumLubricated operation possible (subsequently required for further operation)	Conforms to standard	ISO 15407-1
Type of piloting Piloted  Pilot air supply Internal  Flow direction non reversible  Overlap Positive overlap  Signal status display LED  Flow rate of valve nindividual sub-base 550 l/min  Flow rate of pneumatically linked valve 550 l/min  Switching time reversal 10 ms  Operating voltage range DC 21.6 26.4 V  Duty cycle 100 %  Max. positive test pulse with logic 0 500 µs  Max. negative test pulse with logic 1 500 µs  Characteristic coil data 24 V DC: low-current phase 1 W, high-current phase 2.4 W  Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4]  Note on operating and pilot medium Lubricated operation possible (subsequently required for further operation)		VDMA 24563
Pilot air supply Flow direction Overlap Positive overlap Signal status display Flow rate of valve Flow rate of valve on individual sub-base Flow rate of pneumatically linked valve Switching time reversal Operating voltage range DC Duty cycle Max. positive test pulse with logic 0 Max. negative test pulse with logic 1 Characteristic coil data Operating medium  Note on operating and pilot medium  Internal Internal  Positive overlap  Positive overlap  IED Flow Flow Flow Flow Flow Flow Flow Flow	Manual override	Pushing
Flow direction  Overlap  Positive overlap  Signal status display  LED  Flow rate of valve  Flow rate of valve on individual sub-base  Flow rate of pneumatically linked valve  Switching time reversal  Operating voltage range DC  Duty cycle  Max. positive test pulse with logic 0  Max. negative test pulse with logic 1  Characteristic coil data  Operating medium  Note on operating and pilot medium  In non reversible  Positive overlap  LED  Too I/min  550 l/min  550 l/min  550 l/min  50 ms  0perating voltage range DC  21.6 26.4 V  Duty cycle  100 %  Max. positive test pulse with logic 0  500 µs  Characteristic coil data  Compressed air in accordance with ISO8573-1:2010 [7:4:4]  Note on operating and pilot medium  Lubricated operation possible (subsequently required for further operation)	Type of piloting	Piloted
OverlapPositive overlapSignal status displayLEDFlow rate of valve750 l/minFlow rate of valve on individual sub-base550 l/minFlow rate of pneumatically linked valve550 l/minSwitching time reversal10 msOperating voltage range DC21.6 26.4 VDuty cycle100 %Max. positive test pulse with logic 0500 μsMax. negative test pulse with logic 1500 μsCharacteristic coil data24 V DC: low-current phase 1 W, high-current phase 2.4 WOperating mediumCompressed air in accordance with ISO8573-1:2010 [7:4:4]Note on operating and pilot mediumLubricated operation possible (subsequently required for further operation)	Pilot air supply	Internal
Signal status displayLEDFlow rate of valve750 l/minFlow rate of valve on individual sub-base550 l/minFlow rate of pneumatically linked valve550 l/minSwitching time reversal10 msOperating voltage range DC21.6 26.4 VDuty cycle100 %Max. positive test pulse with logic 0500 μsMax. negative test pulse with logic 1500 μsCharacteristic coil data24 V DC: low-current phase 1 W, high-current phase 2.4 WOperating mediumCompressed air in accordance with ISO8573-1:2010 [7:4:4]Note on operating and pilot mediumLubricated operation possible (subsequently required for further operation)	Flow direction	non reversible
Flow rate of valve 750 l/min Flow rate of valve on individual sub-base 550 l/min Flow rate of pneumatically linked valve 550 l/min Switching time reversal 10 ms Operating voltage range DC 21.6 26.4 V Duty cycle 100 % Max. positive test pulse with logic 0 500 µs Max. negative test pulse with logic 1 500 µs Characteristic coil data 24 V DC: low-current phase 1 W, high-current phase 2.4 W Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operation possible (subsequently required for further operation)	Overlap	Positive overlap
Flow rate of valve on individual sub-base 550 l/min  Flow rate of pneumatically linked valve 550 l/min  Switching time reversal 10 ms  Operating voltage range DC 21.6 26.4 V  Duty cycle 100 %  Max. positive test pulse with logic 0 500 µs  Max. negative test pulse with logic 1 500 µs  Characteristic coil data 24 V DC: low-current phase 1 W, high-current phase 2.4 W  Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4]  Note on operating and pilot medium Lubricated operation possible (subsequently required for further operation)	Signal status display	LED
Flow rate of pneumatically linked valve  Switching time reversal  Operating voltage range DC  21.6 26.4 V  Duty cycle  100 %  Max. positive test pulse with logic 0  Max. negative test pulse with logic 1  Characteristic coil data  Operating medium  Compressed air in accordance with ISO8573-1:2010 [7:4:4]  Note on operating and pilot medium  Lubricated operation possible (subsequently required for further operation)	Flow rate of valve	750 l/min
Switching time reversal       10 ms         Operating voltage range DC       21.6 26.4 V         Duty cycle       100 %         Max. positive test pulse with logic 0       500 μs         Max. negative test pulse with logic 1       500 μs         Characteristic coil data       24 V DC: low-current phase 1 W, high-current phase 2.4 W         Operating medium       Compressed air in accordance with ISO8573-1:2010 [7:4:4]         Note on operating and pilot medium       Lubricated operation possible (subsequently required for further operation)	Flow rate of valve on individual sub-base	550 l/min
Operating voltage range DC       21.6 26.4 V         Duty cycle       100 %         Max. positive test pulse with logic 0       500 μs         Max. negative test pulse with logic 1       500 μs         Characteristic coil data       24 V DC: low-current phase 1 W, high-current phase 2.4 W         Operating medium       Compressed air in accordance with ISO8573-1:2010 [7:4:4]         Note on operating and pilot medium       Lubricated operation possible (subsequently required for further operation)	Flow rate of pneumatically linked valve	550 l/min
Duty cycle     100 %       Max. positive test pulse with logic 0     500 μs       Max. negative test pulse with logic 1     500 μs       Characteristic coil data     24 V DC: low-current phase 1 W, high-current phase 2.4 W       Operating medium     Compressed air in accordance with ISO8573-1:2010 [7:4:4]       Note on operating and pilot medium     Lubricated operation possible (subsequently required for further operation)	Switching time reversal	10 ms
Max. positive test pulse with logic 0     500 μs       Max. negative test pulse with logic 1     500 μs       Characteristic coil data     24 V DC: low-current phase 1 W, high-current phase 2.4 W       Operating medium     Compressed air in accordance with ISO8573-1:2010 [7:4:4]       Note on operating and pilot medium     Lubricated operation possible (subsequently required for further operation)	Operating voltage range DC	21.6 26.4 V
Max. negative test pulse with logic 1500 μsCharacteristic coil data24 V DC: low-current phase 1 W, high-current phase 2.4 WOperating mediumCompressed air in accordance with ISO8573-1:2010 [7:4:4]Note on operating and pilot mediumLubricated operation possible (subsequently required for further operation)	Duty cycle	100 %
Max. negative test pulse with logic 1500 μsCharacteristic coil data24 V DC: low-current phase 1 W, high-current phase 2.4 WOperating mediumCompressed air in accordance with ISO8573-1:2010 [7:4:4]Note on operating and pilot mediumLubricated operation possible (subsequently required for further operation)	Max. positive test pulse with logic 0	500 μs
Operating medium  Compressed air in accordance with ISO8573-1:2010 [7:4:4]  Note on operating and pilot medium  Lubricated operation possible (subsequently required for further operation)		500 μs
Note on operating and pilot medium  Lubricated operation possible (subsequently required for further operation)	Characteristic coil data	24 V DC: low-current phase 1 W, high-current phase 2.4 W
operation)	Operating medium	
Vibration resistance Transport application test at severity level 2 in accordance with FN	Note on operating and pilot medium	
942017-4 and EN 60068-2-6	Vibration resistance	
Shock resistance Shock test with severity level 2 in accordance with FN 942017-5 and 60068-2-27	Shock resistance	Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27
Corrosion resistance classification CRC 2 - Moderate corrosion stress	Corrosion resistance classification CRC	2 - Moderate corrosion stress
Medium temperature -5 50 °C		
Relative air humidity 0 - 90 %		
Ambient temperature -5 50 °C	· · · · · · · · · · · · · · · · · · ·	
Max. tightening torque, valve mounting 0.9 1.1 Nm	•	



Feature	Value
Product weight	140 g
Electrical connection	Central plug
	Round design
	M8x1
	4-pin
Mounting type	On sub-base
Materials note	Conforms to RoHS