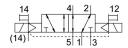
## Air solenoid valve VSVA-B-B52-ZH-A2-2AC1

Part number: 547195







General operating condition

## **Data sheet**

Actuation type  Actuation type  Electrical  Walve size  18 mm  Standard nominal flow rate  550 l/min  Sub-base, size 18 mm as per ISO 15407-1 Connecting plate size 02 according to VDMA 24563 G1/8  Operating voltage  110V AC  Operating pressure  -0.09 MPa 1 MPa  Operating pressure  -0.9 bar 10 bar  Structural design  Ele marking (see declaration of conformity)  As per EU low voltage directive  UKCA marking (see declaration of conformity)  To UK instructions for EMC  Degree of protection  Ple5  NEMA 4  Nominal width  5 mm  Echaust air function  Sealing principle  Soft  Mounting position  Any  Conforms to standard  Soft young active to the control option  Sealing principle  Soft  Manual override  Non-detenting  Type of control  Pilot air supply port  External  Flow direction  Reversible  Symbol  Joperating display  LED  Overlap  Signal status display  LED  Non- Ale the manual over in the pressure  3 bar 10 bar  Flow pressure MPa  O J. MPa 1 MPa  Hot pressure MPa  Jos J. MPa 1 MPa  Hot pressure MPa  Jos J. MPa 1 MPa  Hot pressure MPa  Flow rate of pneumatic valve  Joperating flow rate of pneumatic valve pneumatically concatenated flow  500 150 160 161, initial power 2.9 VA, holding power 2.1 VA  LED Coll characteristics  110 V AC: 50/60 Hz, initial power 2.9 VA, holding power 2.1 VA	Feature	Value
Valve size  Standard nominal flow rate  Standard nominal flow rate  Preumatic working port  Sub-base, size 18 mm as per ISO 15407-1 Connecting plate size 02 according to VDMA 24563 G1/8  Operating voltage  110V AC Operating pressure  -0.99 MPa 1 MPa Operating pressure  -0.9 bar 10 bar  Structural design Piston gate valve  CE marking (see declaration of conformity)  As per El low voltage directive  UKCA marking (see declaration of conformity)  To UK instructions for EMC  Degree of protection  Pressure  Nominal width S mm  Exhaust air function  With flow control option  Sealing principle Soft Any Conforms to standard ISO 15407-1 VDMA 24563  Mon-detenting Type of control  Pilot air supply port External Flow direction  Reversible  Symbol  Doyse14  Doyse14  Signal status display  LED  Pilot pressure MPa Oyerlap  Signal status display  LED  Flow rate of pneumatic valve Doyse14  Flow rate of pneumatic valve on individual sub-base Optimized flow rate of pneumatic valve pneumatically concatenated flow Changeover time  15 ms  Low York 25,60 Hz, initial power 2.9 VA, holding power 2.1 VA  Folic claracteristics  110 V AC: 50/60 Hz, initial power 2.9 VA, holding power 2.1 VA	Valve function	5/2, bistable
Standard nominal flow rate  Pneumatic working port  Sub-base, size 18 mm as per ISO 15407-1 Connecting plate size 02 according to VDMA 24563 G1/8  Operating pressure  110V AC  Operating pressure  0.09 MPa 1 MPa  Operating gressure  10.9 bar 10 Mar  Structural design  Et marking (see declaration of conformity)  As per EU low voltage directive  UKCA marking (see declaration of conformity)  To UK instructions for EMC  Degree of protection  Ple6 NEMA 4  Nominal width  S mm  Sealing principle  Soft  Mounting position  Any  Conforms to standard  Conforms to standard  Conforms to standard  Non-detenting  Type of control  Pilot air supply port  External  Flow direction  Reversible  Symbol  Oo992941  Lap  Overlap  Signal status display  LED  Pilot pressure MPa  Pilot pressure  MPa  Pilot pressure  MPa  Pilot pressure  MPa  Pilot pressure  MPa  Pilot pressure  MPa  Pilot pressure  MPa  Duty cycle  Low  Low  Low  Low  Low  Low  Low  Lo	Actuation type	Electrical
Pneumatic working port  Sub-base, size 18 mm as per ISO 15407-1 Connecting plate size 02 according to VDMA 24563 G1/8  Operating voltage  110V AC  Operating pressure  -0.99 MPa 1 MPa  Operating pressure  Piston gate valve  CE marking (see declaration of conformity)  As per EU low voltage directive  UKCA marking (see declaration of conformity)  To UK instructions for EMC  Degree of protection  NEMA 4  Nominal width  5 mm  Exhaust air function  Soft  Mounting position  Any  Conforms to standard  VOMA 24563  Manual override  Type of control  Pilot control  Pilot air supply port  External  Flow direction  Reversible  Symbol  Overlap  Signal status display  LED  Pilot pressure MPa  Optimized flow rate of pneumatic valve pneumatically concatenated flow  Confangeover time  Ut y Cycle  Coil characteristics  110 V AC: 50/60 Hz, initial power 2.9 VA, holding power 2.1 VA	Valve size	18 mm
Connecting plate size 02 according to VDMA 24563 G1/8  Operating voltage 110V AC  Operating pressure -0.09 MPa 1 MPa Operating pressure -0.9 bar 10 bar  Structural design Piston gate valve CE marking (see declaration of conformity) As per EU low voltage directive UKCA marking (see declaration of conformity) Degree of protection IP65 NEMA 4  Nominal width S mm Exhaust air function With flow control option Sealing principle Soft Mounting position Conforms to standard VOMA 24563 Manual override Non-detenting Type of control Pilot air supply port Extenal Flow direction Reversible Symbol Oo992941 Lap Overlap Pilot pressure MPa Pilot pressure MPa Pilot pressure MPa Pilot pressure MPa Pilot pressure Sot U/min Flow rate of pneumatic valve pneumatically concatenated flow Duty cycle Coll characteristics 110 V AC: 50/60 Hz, initial power 2.9 VA, holding power 2.1 VA	Standard nominal flow rate	550 l/min
Operating pressure Operating pressure Operating pressure Operating pressure Operating pressure Operating pressure Piston gate valve CE marking (see declaration of conformity) As per EU low voltage directive UKCA marking (see declaration of conformity) To UK instructions for EMC Degree of protection IP65 NEMA 4 Nominal width S mm Exhaust air function Sealing principle Soft Mounting position Any Conforms to standard ISO 15407-1 VDMA 24563 Manual override Non-detenting Type of control Pilot-controlled Pilot air supply port External Flow direction Reversible Symbol Operating Pilot pressure MPa Outplassure Operating MPa Outplassure Operating MPa Outplassure Flow rate of pneumatic valve Optimized flow rate of pneumatic valve pneumatically concatenated flow Collangeover time Outp cycle Oli Characteristics 110 V AC: 50/60 Hz, initial power 2.9 VA, holding power 2.1 VA	Pneumatic working port	Connecting plate size 02 according to VDMA 24563
Operating pressure Operating pressure Operating pressure Operating spressure Operating (see declaration of conformity) As per EU low voltage directive UKCA marking (see declaration of conformity) To UK instructions for EMC Degree of protection Operating principle Nominal width S mm Exhaust air function With flow control option Sealing principle Soft Mounting position Onforms to standard Operating principle Non-detenting Type of control Pilot-controlled Pilot-controlled Pilot si supply port External Flow direction Reversible Symbol Operating position Operating	Operating voltage	110V AC
Structural design CE marking (see declaration of conformity) As per EU low voltage directive UKCA marking (see declaration of conformity) To UK instructions for EMC Degree of protection P65 NEMA 4 Nominal width S mm Exhaust air function With flow control option Sealing principle Soft Mounting position Any Conforms to standard Symbol Type of control Pilot-controlled Pilot si supply port External Flow direction Reversible Symbol Lap Overlap Signal status display LED Pilot pressure AD Pilot pressure AD Pilot pressure AD Pilot preumatic valve on individual sub-base Dottimized flow rate of pneumatic valve pneumatically concatenated flow Dottimized flow reactions Conflow control Coli characteristics 110 V AC: 50/60 Hz, initial power 2.9 VA, holding power 2.1 VA  To VI instructions PIOS in Surger and institution of the Control of the Coli characteristics  Pilot votes in Surger and institution of the Coli of the	Operating pressure	-0.09 MPa 1 MPa
CE marking (see declaration of conformity)  LUKCA marking (see declaration of conformity)  Degree of protection  P65 NEMA 4  Nominal width  Exhaust air function  With flow control option  Sealing principle  Mounting position  Conforms to standard  Soft  Manual override  Non-detenting  Piot-controlled  Piot control  Piot air supply port  External  Flow direction  Reversible  Symbol  Lap  Overlap  Signal status display  LED  Pilot pressure MPa  1.3 MPa 1 MPa  Pilot pressure  3 bar 10 bar  Flow rate of pneumatic valve on individual sub-base  Optimized flow rate of pneumatic valve pneumatically concatenated flow  Duty cycle  Coil characteristics  110 V AC: 50/60 Hz, initial power 2.9 VA, holding power 2.1 VA	Operating pressure	-0.9 bar 10 bar
Degree of protection IP65 NEMA 4  Nominal width 5 m  Exhaust air function With flow control option  Sealing principle Soft Mounting position Any  Conforms to standard ISO 15407-1 VDMA 24563  Manual override Non-detenting Type of control Pilot-controlled Pilot air supply port External Flow direction Reversible Symbol Oo992941  Lap Overlap Signal status display LED Pilot pressure MPa Pilot pressure MPa Flow rate of pneumatic valve on individual sub-base Optimized flow with control and control in the manual open and to the preumatic valve pneumatic valve pneumatic valve pneumatic valve pneumatic valve of index of the control of the control of the control optimized flow wate of pneumatic valve pneumatic valve pneumatic valve of individual sub-base Optimized flow rate of pneumatic valve pneumatic valve on the control of the control optimized flow rate of pneumatic valve pneumatic valve on individual sub-base Optimized flow rate of pneumatic valve pneumatic valve pneumatically concatenated flow Sol //min Changeover time 15 ms Duty cycle 100% Coil characteristics 110 V AC: 50/60 Hz, initial power 2.9 VA, holding power 2.1 VA	Structural design	Piston gate valve
Degree of protection  Pef5 NEMA 4  Nominal width  Exhaust air function  Sealing principle  Soft  Mounting position  Conforms to standard  Conforms to standard  Non-detenting  Type of control  Pilot air supply port  External  Flow direction  Reversible  Symbol  Overlap  Signal status display  LED  Pilot pressure MPa  Pilot pressure  Apa  Oyerlap  Pilot pressure  Type of pneumatic valve  Flow rate of pneumatic valve  Poptimized flow rate of pneumatic valve pneumatically concatenated flow  Coil characteristics  110 V AC: 50/60 Hz, initial power 2.9 VA, holding power 2.1 VA	CE marking (see declaration of conformity)	As per EU low voltage directive
NEMA 4 Nominal width 5 mm Exhaust air function With flow control option Sealing principle Soft Mounting position Any Conforms to standard VDMA 24563 Manual override Non-detenting Type of control Pilot-controlled Pilot air supply port External Flow direction Reversible Symbol 0992941 Lap Overlap Signal status display LED Pilot pressure MPa 0.3 MPa 1 MPa Pilot pressure MPa Pilot pressure MPa Pilot pressure of pneumatic valve on individual sub-base Optimized flow rate of pneumatic valve pneumatically concatenated flow Optimized flow rate of pneumatic valve pneumatically concatenated flow Coil characteristics 110 V AC: 50/60 Hz, initial power 2.9 VA, holding power 2.1 VA	UKCA marking (see declaration of conformity)	To UK instructions for EMC
Exhaust air function  Sealing principle  Mounting position  Conforms to standard  Conforms to standard  Sealing principle  Mounting position  Conforms to standard  South 24563  Manual override  Non-detenting  Type of control  Pilot-controlled  Pilot air supply port  External  Flow direction  Reversible  Symbol  Lap  Overlap  Signal status display  LED  Pilot pressure MPa  O.3 MPa 1 MPa  Pilot pressure  3 bar 10 bar  Flow rate of pneumatic valve on individual sub-base  Optimized flow rate of pneumatic valve pneumatically concatenated flow  Changeover time  Duty cycle  Coil characteristics  With flow control option  Soft  Any  With flow control option  Soft  Any  Soft  Any  Change  Soft  Many  Soft  Any  Conforms to standard  Any  Soft  Any  S	Degree of protection	-
Sealing principle Soft Mounting position Any Conforms to standard Signal status display Pilot pressure MPa Pilot pressure Pilot vare of pneumatic valve on individual sub-base Optimized flow rate of pneumatic valve pneumatically concatenated flow Coli characteristics Signal starus display Pilot operation Signal status of pneumatic valve pneumatically concatenated flow Coli characteristics Signal coli characteristics Soft Any Conforms Soft Any Soft An	Nominal width	5 mm
Mounting position  Conforms to standard  Conforms to standard  So 15407-1 VDMA 24563  Manual override  Non-detenting  Type of control  Pilot-controlled  Pilot-controlled  External  Flow direction  Reversible  Symbol  Oo992941  Lap  Overlap  Signal status display  LED  Pilot pressure MPa  O.3 MPa 1 MPa  Pilot pressure  3 bar 10 bar  Flow rate of pneumatic valve  Flow rate of pneumatic valve on individual sub-base  Optimized flow rate of pneumatic valve pneumatically concatenated flow  Changeover time  Duty cycle  Coil characteristics  10 V AC: 50/60 Hz, initial power 2.9 VA, holding power 2.1 VA	Exhaust air function	With flow control option
Conforms to standard  ISO 15407-1 VDMA 24563  Manual override  Non-detenting  Type of control  Pilot-controlled  Pilot sir supply port  External  Flow direction  Symbol  Lap  Overlap  Signal status display  Pilot pressure MPa  Pilot pressure MPa  Pilot pressure of pneumatic valve  Flow rate of pneumatic valve on individual sub-base  Optimized flow rate of pneumatic valve pneumatically concatenated flow  Changeover time  Duty cycle  Coil characteristics  ISO 15407-1 VDMA 24563  Non-detenting  Pilot-controlled  P	Sealing principle	Soft
Manual override Non-detenting Type of control Pilot controlled Pilot controlled Pilot air supply port External Flow direction Reversible Symbol Ooy92941 Lap Overlap Signal status display LED Pilot pressure MPa O.3 MPa 1 MPa Pilot pressure 3 bar 10 bar Flow rate of pneumatic valve Flow rate of pneumatic valve on individual sub-base Optimized flow rate of pneumatic valve pneumatically concatenated flow Changeover time 15 ms Duty cycle Coil characteristics Non-detenting Non-detenting Non-detenting External	Mounting position	Any
Type of control Pilot air supply port External Flow direction Reversible Symbol Ooy92941 Lap Overlap Signal status display LED Pilot pressure MPa O.3 MPa 1 MPa Pilot pressure Show rate of pneumatic valve Flow rate of pneumatic valve on individual sub-base Optimized flow rate of pneumatic valve pneumatically concatenated flow Changeover time Duty cycle Coil characteristics  Pilot-controlled Pilot Pilo	Conforms to standard	- · · ·
Pilot air supply port  Flow direction  Reversible  Symbol  Lap  Overlap  Signal status display  LED  Pilot pressure MPa  Pilot pressure  Applict of pneumatic valve  Flow rate of pneumatic valve on individual sub-base  Optimized flow rate of pneumatic valve pneumatically concatenated flow  Changeover time  Duty cycle  Coil characteristics  External  Exter	Manual override	Non-detenting
Flow direction  Reversible  Symbol  O0992941  Lap  Overlap  Signal status display  LED  Pilot pressure MPa  O.3 MPa 1 MPa  Pilot pressure  3 bar 10 bar  Flow rate of pneumatic valve  Flow rate of pneumatic valve on individual sub-base  Optimized flow rate of pneumatic valve pneumatically concatenated flow  Changeover time  Duty cycle  Coil characteristics  Reversible	Type of control	Pilot-controlled
Symbol 00992941  Lap Overlap  Signal status display LED  Pilot pressure MPa 0.3 MPa 1 MPa  Pilot pressure flow rate of pneumatic valve pneumatically concatenated flow 550 l/min  Changeover time 15 ms  Duty cycle 100%  Coil characteristics 110 V AC: 50/60 Hz, initial power 2.9 VA, holding power 2.1 VA	Pilot air supply port	External
Lap Signal status display LED Pilot pressure MPa O.3 MPa 1 MPa Pilot pressure Pilot pressure Pilot pressure Pilot pressure Tow rate of pneumatic valve Tow rate of pneumatic valve on individual sub-base Optimized flow rate of pneumatic valve pneumatically concatenated flow Changeover time Duty cycle 100% Coil characteristics 110 V AC: 50/60 Hz, initial power 2.9 VA, holding power 2.1 VA	Flow direction	Reversible
Signal status display  Pilot pressure MPa  0.3 MPa 1 MPa  Pilot pressure  3 bar 10 bar  Flow rate of pneumatic valve  Flow rate of pneumatic valve on individual sub-base  Optimized flow rate of pneumatic valve pneumatically concatenated flow  Changeover time  15 ms  Duty cycle  100%  Coil characteristics  LED  1. MPa  2. MPa  3 bar 1 MPa  750 l/min  750 l/min  550 l/min  15 ms  10 W AC: 50/60 Hz, initial power 2.9 VA, holding power 2.1 VA	Symbol	00992941
Pilot pressure MPa  0.3 MPa 1 MPa  3 bar 10 bar  Flow rate of pneumatic valve  750 l/min  Flow rate of pneumatic valve on individual sub-base  Optimized flow rate of pneumatic valve pneumatically concatenated flow  Changeover time  15 ms  Duty cycle  100%  Coil characteristics  110 V AC: 50/60 Hz, initial power 2.9 VA, holding power 2.1 VA	Lap	Overlap
Pilot pressure 3 bar 10 bar  Flow rate of pneumatic valve 750 l/min  Flow rate of pneumatic valve on individual sub-base 550 l/min  Optimized flow rate of pneumatic valve pneumatically concatenated flow 550 l/min  Changeover time 15 ms  Duty cycle 100%  Coil characteristics 110 V AC: 50/60 Hz, initial power 2.9 VA, holding power 2.1 VA	Signal status display	LED
Flow rate of pneumatic valve Flow rate of pneumatic valve on individual sub-base S50 l/min Optimized flow rate of pneumatic valve pneumatically concatenated flow Changeover time 15 ms Duty cycle 100% Coil characteristics 110 V AC: 50/60 Hz, initial power 2.9 VA, holding power 2.1 VA	Pilot pressure MPa	0.3 MPa 1 MPa
Flow rate of pneumatic valve on individual sub-base 550 l/min  Optimized flow rate of pneumatic valve pneumatically concatenated flow 550 l/min  Changeover time 15 ms  Duty cycle 100%  Coil characteristics 110 V AC: 50/60 Hz, initial power 2.9 VA, holding power 2.1 VA	Pilot pressure	3 bar 10 bar
Optimized flow rate of pneumatic valve pneumatically concatenated flow 550 l/min  Changeover time 15 ms  Duty cycle 100%  Coil characteristics 110 V AC: 50/60 Hz, initial power 2.9 VA, holding power 2.1 VA	Flow rate of pneumatic valve	750 l/min
Changeover time 15 ms  Duty cycle 100%  Coil characteristics 110 V AC: 50/60 Hz, initial power 2.9 VA, holding power 2.1 VA	Flow rate of pneumatic valve on individual sub-base	550 l/min
Duty cycle 100% Coil characteristics 110 V AC: 50/60 Hz, initial power 2.9 VA, holding power 2.1 VA	Optimized flow rate of pneumatic valve pneumatically concatenated flow	550 l/min
Coil characteristics 110 V AC: 50/60 Hz, initial power 2.9 VA, holding power 2.1 VA	Changeover time	15 ms
- · · · · · · · · · · · · · · · · · · ·	Duty cycle	100%
Permissible voltage fluctuations -15 % / +10 %	Coil characteristics	110 V AC: 50/60 Hz, initial power 2.9 VA, holding power 2.1 VA
	Permissible voltage fluctuations	-15 % / +10 %

Feature	Value
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
Vibration resistance	Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6
Shock resistance	Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27
Corrosion resistance class (CRC)	0 - No corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Temperature of medium	-5 °C 50 °C
Relative air humidity	0 - 90 %
Noise level	85 dB(A)
Pilot medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Ambient temperature	-5 °C 50 °C
Max. tightening torque for valve mounting	1 Nm
Product weight	174 g
Electrical connection	Form C With PE conductor as per DIN EN 175301-803
Type of mounting	On sub-base
Auxiliary pilot air port 12	Sub-base, size 18 mm as per ISO 15407-1
Auxiliary pilot air port 14	Sub-base, size 18 mm as per ISO 15407-1
Pilot exhaust air port 82/84	Ducted Not ducted Optionally:
Pneumatic connection 1	Sub-base, size 18 mm as per ISO 15407-1
Pneumatic connection 2	Sub-base, size 18 mm as per ISO 15407-1
Pneumatic connection 3	Sub-base, size 18 mm as per ISO 15407-1
Pneumatic connection 4	Sub-base, size 18 mm as per ISO 15407-1
Pneumatic connection 5	Sub-base, size 18 mm as per ISO 15407-1
Pilot interface	as per ISO 15218
Note on materials	RoHS-compliant
Seals material	NBR
Housing material	Die-cast aluminum
Material of screws	Steel Galvanized