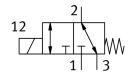
## Solenoid valve VOVK-BT6-M32C-MN-1H5ZP-B3F

**FESTO** 

Part number: 8122782





General operating condition

## **Data sheet**

Flow direction  Symbol  O0992967  Cv value  O.006 Gal/min US  Max. switching frequency  10 Hz  Switching time off  ≤6 ms  Note on switching time off  At −1 < p < 6 bar  On switching time on  ⇒13 ms  Note on switching time on  □ ⟨= 6 ms at 0 < p < 6 bar, <= 13 ms at -1 < p < 0 bar  Duty cycle  Electrical power consumption  Reversible  10092967  10 Hz  ≤6 ms  10 Hz  10	Feature	Value
Width     5.9 mm       Standard nominal flow rate     5.5 l/min       Pneumatic working port     For tubing I.D. 1.5 mm       Operating pressure     -0.1 MPa 0.7 MPa       Operating pressure     -1 bar 7 bar       Operating pressure     -14.5 psl 100 psl       Information on operating pressure     Operating pressure at port 3: -1 to 0 bar only       Structural design     Connection direction to the front Poppet valve with return spring       Reset method     Mechanical spring       Degree of protection     IP40       Nominal width     0.36 mm       Exhaust air function     With flow control option       Sealing principle     Soft       Mounting position     Any       Manual override     None       Type of control     Electrical       Flow direction     Reversible       Symbol     0.0992967       Cv value     0.006 Gal/min US       Max. switching frequency     10 Hz       Switching time off     so ms       Note on switching time off     At -1 cy 6 bar. (= 13 ms at -1 cy 6 bar       On switching time on     -6 ms at 0 cy 6 bar. (= 13 ms at -1 cy 6 bar       On switching time on     -6 ms at 0 cy 6 bar. (= 13 ms at -1 cy 6 bar       Operating medium     Compressed with oil lubrication not possible       Nominal operating volt	Valve function	3/2, closed, monostable
Standard nominal flow rate  Pneumatic working port  Operating pressure  Operating pressure  Operating pressure  Operating pressure  Operating pressure  1-14.5 psi 100 psi Information on operating pressure  Operating pressure at port 3: -1 to 0 bar only  Structural design  Connection direction to the front Poppet valve with return spring  Reset method  Mechanical spring  Degree of protection  IP40  Nominal width  O.36 mm  Exhaust air function  Sealing principle  Soft  Mounting position  Any  Manual override  None  Type of control  Electrical  Electrical  Elew direction  Reversible  Symbol  Oo992967  Cv value  O.006 Gal/min US  Max. switching frequency  10 Hz  Switching time off  At -1 cy c 6 bar  On switching time off  At -1 cy c 6 bar  On switching time off  At -1 cy c 6 bar  On switching time on  at -1 cy c 6 bar  On switching time on  Duty cycle  Electrical power consumption  ADS W  Nominal operating and pilot media  Operating medium  Compressed air to ISO 8573-1:2010 [6:4:1]  Information on operating and pilot media  Operating widname  VDMA24364 zone III	Actuation type	Electrical
Pneumatic working port Operating pressure Operating pressure Operating pressure - 1- 1 bar 7 bar Operating pressure at port 3: -1 to 0 bar only  Structural design - Connection direction to the front Poppet valve with return spring Reset method - Mechanical spring - Degree of protection - IP40 Nominal width - O.36 mm - Exhaust air function - Sealing principle - Soft - Mounting position - Any Manual override - None - Sound - Soft - Soft - Sound - Soft - Soft - Sound - Soft -	Width	5.9 mm
Operating pressure Operating pressure Operating pressure 1-1 bar 7 bar Operating pressure 1-1.5 psi 100 psi Information on operating pressure Operating pressure Operating pressure operating pressure at port 3: -1 to 0 bar only Structural design Connection direction to the front Poppet valve with return spring Reset method Mechanical spring Degree of protection IP40 Nominal width O.36 mm Exhaust air function With flow control option Sealing principle Soft Mounting position Manual override None Type of control Electrical Flow direction Reversible Symbol Operating frequency I0 Hz Switching frequency I0 Hz Switching frequency I0 Hz Switching frequency I1 Hz Switching frequency I1 Hz Switching time off At -1 c p < 6 bar On switching time off On switching time off On switching time off Soft Soft Note on switching time off On switching time off Soft Soft Soft On switching frequency I0 Wy within 500 h Electrical power consumption Soft Soft Operating working operating working operating working on operating and pilot media Operation with oil lubrication not possible Corrosion resistance class (CRC) I - Low corrosion stress LABS (PWIS) conformity VDMA24364 zone III	Standard nominal flow rate	5.5 l/min
Operating pressure Operating pressure 1-4.5 psi 100 psi Information on operating pressure Operating pressure at port 3: -1 to 0 bar only  Connection direction to the front Poppet valve with return spring Reset method Mechanical spring Degree of protection IP40 Nominal width O.36 mm Exhaust air function Sealing principle Soft Mounting position Any Manual override None Type of control Electrical Flow direction Reversible Symbol Oxyped O	Pneumatic working port	For tubing I.D. 1.5 mm
Operating pressure  Information on operating pressure  Operating pressure at port 3: -1 to 0 bar only  Structural design  Connection direction to the front Poppet valve with return spring  Reset method  Mechanical spring  Degree of protection  IP40  Nominal width  O,36 mm  Exhaust air function  Sealing principle  Soft  Mounting position  Any  Manual override  None  Type of control  Electrical  Flow direction  Reversible  Symbol  Cov value  O,006 Gal/min US  Max. switching frequency  Switching time off  On switching time off  On switching time off  On switching time on  Duty cycle  Electrical power consumption  soft was  None  109 within 500 h  Electrical power consumption  compressed air to ISO 8573-1:2010 [6:4:1]  Information on operating and pilot media  Operation resistance class (CRC)  1 - Low corrosion stress  IABS (PWIS) conformity  VDMA24364 zone III	Operating pressure	-0.1 MPa 0.7 MPa
Information on operating pressure  Structural design  Connection direction to the front Poppet valve with return spring  Reset method  Mechanical spring  Degree of protection  IP40  Nominal width  0.36 mm  Exhaust air function  With flow control option  Sealing principle  Soft  Mounting position  Manual override  None  Type of control  Electrical  Flow direction  Reversible  Symbol  Oo992967  Cv value  Oo06 Gal/min US  Max. switching frequency  10 Hz  Switching time off  At -1 c p c 6 bar.  On switching time off  Oos witching time off  Oos of all minus  Oos	Operating pressure	-1 bar 7 bar
Structural design  Reset method  Reset method  Degree of protection  Nominal width  O.36 mm  Exhaust air function  Sealing principle  Monuming position  Manual override  Type of control  Flow direction  Reversible  Symbol  O.006 Gal/min US  Max. switching frequency  Note on switching time off  Note on switching time on  Duty cycle  Electrical power consumption  Lectrical power consumption  At 1-0 × 6 bar, <= 13 ms at -1 < p < 0 bar  Duty cycle  Electrical power consumption  At -1 v	Operating pressure	-14.5 psi 100 psi
Reset method       Mechanical spring         Degree of protection       IP40         Nominal width       0.36 mm         Exhaust air function       With flow control option         Sealing principle       Soft         Mounting position       Any         Manual override       None         Type of control       Electrical         Flow direction       Reversible         Symbol       00992967         Cv value       0.006 Gal/min US         Max. switching frequency       10 Hz         Switching time off       s6 ms         Note on switching time off       At -1          On switching time       s13 ms         Note on switching time on       < 6 ms at 0 < p < 6 bar, < = 13 ms at -1 < p < 0 bar	Information on operating pressure	Operating pressure at port 3: -1 to 0 bar only
Degree of protection IP40  Nominal width 0.36 mm  Exhaust air function With flow control option  Sealing principle Soft  Mounting position Any  Manual override None  Type of control Electrical  Flow direction Reversible  Symbol 0.9992967  Cv value 0.006 Gal/min US  Max. switching frequency 10 Hz  Switching time off At -1 < p < 6 bar  Note on switching time off 41 ms at 1 < p < 0 bar  Note on switching time on < 6 ms at 0 < p < 6 bar, < 13 ms at -1 < p < 0 bar  Duty cycle 100% within 500 h  Electrical power consumption \$0.5 W  Nominal operating voltage DC  Permissible voltage fluctuations +/- 10 %  Operation medium Compressed air to ISO 8573-1:2010 [6:4:1]  Information on operating and pilot media Operation with oil lubrication not possible  Corrosion resistance class (CRC) 1-Low corrosion stress  LABS (PWIS) conformity VDMA24364 zone III	Structural design	
Nominal width  Exhaust air function  Sealing principle  Soft  Mounting position  Any  Manual override  Type of control  Flow direction  Switching frequency  Cv value  Moe switching frequency  Switching time off  Note on switching time on  Duty cycle  Electrical power consumption  Note on switching oltage DC  Permissible voltage fluctuations  Permissible voltage fluctuations  At -(10% operation with oil lubrication not possible  Corrosion resistance class (CRC)  LABS (PWIS) conformity  VDMA24364 zone III	Reset method	Mechanical spring
Exhaust air function  Sealing principle  Soft  Mounting position  Any  Manual override  Type of control  Flow direction  Symbol  Cy value  O.006 Gal/min US  Max. switching frequency  Mote on switching time off  On switching time off  On switching time on  Duty cycle  Electrical  Flow direction  At -1 < p < 6 bar, <= 13 ms at -1 < p < 0 bar  Duty cycle  Electrical  Flow direction  Some  At -1 < p < 6 bar, <= 13 ms at -1 < p < 0 bar  Duty cycle  Electrical  Flow direction  Some  Some  At -1 < p < 6 bar, <= 13 ms at -1 < p < 0 bar  Duty cycle  Electrical  Flow within 500 h  Electrical  Flow direction  Some  Some  At -1 < p < 6 bar, <= 13 ms at -1 < p < 0 bar  Duty cycle  Electrical  Flow within 500 h  Electrical  Flow operating voltage DC  Permissible voltage fluctuations  4/- 10 %  Operating medium  Compressed air to ISO 8573-1:2010 [6:4:1]  Information on operating and pilot media  Operation with oil lubrication not possible  Corrosion resistance class (CRC)  1 - Low corrosion stress  LABS (PWIS) conformity  VDMA24364 zone III	Degree of protection	IP40
Sealing principle  Mounting position  Manual override  None  Type of control  Flow direction  Symbol  Cv value  0.00992967  Cv value  0.006 Gal/min US  Max. switching frequency  10 Hz  Switching time off  At -1 < p < 6 bar  Note on switching time off  On switching time on  Cream of most on switching time on  Cream of most on switching time on  Cream of most on switching time on  Duty cycle  100% within 500 h  Electrical power consumption  So.5 W  Nominal operating voltage DC  Permissible voltage fluctuations  Operating medium  Compressed air to ISO 8573-1:2010 [6:4:1]  Information on operating and pilot media  Corrosion resistance class (CRC)  LABS (PWIS) conformity  VDMA24364 zone III	Nominal width	0.36 mm
Mounting position       Any         Manual override       None         Type of control       Electrical         Flow direction       Reversible         Symbol       00992967         Cv value       0.006 Gal/min US         Max. switching frequency       10 Hz         Switching time off       ≤6 ms         Note on switching time off       At −1          On switching time       ≤13 ms         Note on switching time on       < −6 ms at 0 < p < 6 bar, < −13 ms at −1 < p < 0 bar	Exhaust air function	With flow control option
Manual override       None         Type of control       Electrical         Flow direction       Reversible         Symbol       00992967         Cv value       0.006 Gal/min US         Max. switching frequency       10 Hz         Switching time off       ≤6 ms         Note on switching time off       At −1          On switching time       ≤13 ms         Note on switching time on       <−6 ms at 0 < p < 6 bar, <=13 ms at −1 < p < 0 bar	Sealing principle	Soft
Electrical Flow direction Reversible Symbol O992967 Cv value O.006 Gal/min US Max. switching frequency 10 Hz Switching time off Note on switching time off At -1 < p < 6 bar Note on switching time on On switching time on Cv switching time Cv switching Cv switc	Mounting position	Any
Flow direction  Symbol  Oughard  Cv value  Oughard  Ougha	Manual override	None
Symbol 00992967  Cv value 0.006 Gal/min US  Max. switching frequency 10 Hz  Switching time off s6 ms  Note on switching time off At -1 < p < 6 bar  On switching time off s1 ms at -1 < p < 0 bar  Duty cycle 100% within 500 h  Electrical power consumption s0.5 W  Nominal operating voltage DC 24 V  Permissible voltage fluctuations +/- 10 %  Operating medium Compressed air to ISO 8573-1:2010 [6:4:1]  Information on operating and pilot media Operation with oil lubrication not possible  Corrosion resistance class (CRC) 1- Low corrosion stress  LABS (PWIS) conformity VDMA24364 zone III	Type of control	Electrical
Cv value  Max. switching frequency  10 Hz  Switching time off  ≤6 ms  Note on switching time off  At −1 < p < 6 bar  On switching time off  ≤13 ms  Note on switching time on  c=6 ms at 0 < p < 6 bar, <=13 ms at -1 < p < 0 bar  Duty cycle  100% within 500 h  Electrical power consumption  so.5 W  Nominal operating voltage DC  24 V  Permissible voltage fluctuations  +/- 10 %  Operating medium  Compressed air to ISO 8573-1:2010 [6:4:1]  Information on operating and pilot media  Operation with oil lubrication not possible  Corrosion resistance class (CRC)  1 - Low corrosion stress  LABS (PWIS) conformity  VDMA24364 zone III	Flow direction	Reversible
Max. switching frequency       10 Hz         Switching time off       ≤6 ms         Note on switching time off       At −1          On switching time       ≤13 ms         Note on switching time on       <= 6 ms at 0 < p < 6 bar, <= 13 ms at -1 < p < 0 bar	Symbol	00992967
Switching time off  Note on switching time off  At -1 < p < 6 bar  At -1 < p < 6 bar  On switching time  \$13 ms  Note on switching time on  C= 6 ms at 0 < p < 6 bar, <= 13 ms at -1 < p < 0 bar  Duty cycle  100% within 500 h  Electrical power consumption  \$0.5 W  Nominal operating voltage DC  Permissible voltage fluctuations  +/- 10 %  Operating medium  Compressed air to ISO 8573-1:2010 [6:4:1]  Information on operating and pilot media  Operation with oil lubrication not possible  Corrosion resistance class (CRC)  1 - Low corrosion stress  LABS (PWIS) conformity  VDMA24364 zone III	Cv value	0.006 Gal/min US
Note on switching time off  On switching time  \$13 ms  Note on switching time on  \$45 ms at 0 < p < 6 bar, <= 13 ms at -1 < p < 0 bar  100% within 500 h  Electrical power consumption  Nominal operating voltage DC  Permissible voltage fluctuations  Operating medium  Compressed air to ISO 8573-1:2010 [6:4:1]  Information on operating and pilot media  Operation with oil lubrication not possible  Corrosion resistance class (CRC)  LABS (PWIS) conformity  VDMA24364 zone III	Max. switching frequency	10 Hz
On switching time  Note on switching time on  C= 6 ms at 0 < p < 6 bar, <= 13 ms at -1 < p < 0 bar  Duty cycle  100% within 500 h  Electrical power consumption  So.5 W  Nominal operating voltage DC  24 V  Permissible voltage fluctuations  +/- 10 %  Operating medium  Compressed air to ISO 8573-1:2010 [6:4:1]  Information on operating and pilot media  Operation with oil lubrication not possible  Corrosion resistance class (CRC)  1 - Low corrosion stress  LABS (PWIS) conformity  VDMA24364 zone III	Switching time off	≤6 ms
Note on switching time on C= 6 ms at 0 < p < 6 bar, <= 13 ms at -1 < p < 0 bar  Duty cycle 100% within 500 h  Electrical power consumption \$0.5 W  Nominal operating voltage DC 24 V  Permissible voltage fluctuations +/- 10 %  Operating medium Compressed air to ISO 8573-1:2010 [6:4:1]  Information on operating and pilot media Operation with oil lubrication not possible  Corrosion resistance class (CRC) 1 - Low corrosion stress  LABS (PWIS) conformity VDMA24364 zone III	Note on switching time off	At –1 < p < 6 bar
Duty cycle     100% within 500 h       Electrical power consumption     ≤0.5 W       Nominal operating voltage DC     24 V       Permissible voltage fluctuations     +/- 10 %       Operating medium     Compressed air to ISO 8573-1:2010 [6:4:1]       Information on operating and pilot media     Operation with oil lubrication not possible       Corrosion resistance class (CRC)     1 - Low corrosion stress       LABS (PWIS) conformity     VDMA24364 zone III	On switching time	≤13 ms
Electrical power consumption  \$0.5 W  Nominal operating voltage DC  24 V  Permissible voltage fluctuations  +/- 10 %  Operating medium  Compressed air to ISO 8573-1:2010 [6:4:1]  Information on operating and pilot media  Operation with oil lubrication not possible  Corrosion resistance class (CRC)  1 - Low corrosion stress  LABS (PWIS) conformity  VDMA24364 zone III	Note on switching time on	<= 6 ms at 0 < p < 6 bar, <= 13 ms at -1 < p < 0 bar
Nominal operating voltage DC  Permissible voltage fluctuations  +/- 10 %  Operating medium  Compressed air to ISO 8573-1:2010 [6:4:1]  Information on operating and pilot media  Operation with oil lubrication not possible  Corrosion resistance class (CRC)  1 - Low corrosion stress  LABS (PWIS) conformity  VDMA24364 zone III	Duty cycle	100% within 500 h
Permissible voltage fluctuations +/- 10 %  Operating medium Compressed air to ISO 8573-1:2010 [6:4:1]  Information on operating and pilot media Operation with oil lubrication not possible  Corrosion resistance class (CRC) 1 - Low corrosion stress  LABS (PWIS) conformity VDMA24364 zone III	Electrical power consumption	≤0.5 W
Operating medium       Compressed air to ISO 8573-1:2010 [6:4:1]         Information on operating and pilot media       Operation with oil lubrication not possible         Corrosion resistance class (CRC)       1 - Low corrosion stress         LABS (PWIS) conformity       VDMA24364 zone III	Nominal operating voltage DC	24 V
Information on operating and pilot media  Operation with oil lubrication not possible  Corrosion resistance class (CRC)  1 - Low corrosion stress  VDMA24364 zone III	Permissible voltage fluctuations	+/- 10 %
Corrosion resistance class (CRC) 1 - Low corrosion stress  LABS (PWIS) conformity VDMA24364 zone III	Operating medium	Compressed air to ISO 8573-1:2010 [6:4:1]
LABS (PWIS) conformity VDMA24364 zone III	Information on operating and pilot media	Operation with oil lubrication not possible
	Corrosion resistance class (CRC)	1 - Low corrosion stress
Temperature of medium 5 °C 50 °C	LABS (PWIS) conformity	VDMA24364 zone III
	Temperature of medium	5 ℃ 50 ℃

Feature	Value
Relative air humidity	70 %
Note on relative air humidity	at ambient temperature
Ambient temperature	5 °C 50 °C
Product weight	6 g
Electrical connection	Cable
Type of mounting	With through-hole
Pneumatic connection 1	For tubing I.D. 1.5 mm
Pneumatic connection 3	For tubing I.D. 1.5 mm
Note on materials	RoHS-compliant
Housing material	PBT
Material of spring	High-alloy stainless steel