## Air solenoid valve VUVG-L18-P53E-T-G14-1R8L

**FESTO** 

Part number: 8031535





General operating condition

## **Data sheet**

truation type  tilve size  18 mm  19 10 l/min  enerating working port  61 1/4  bereating yottage  24V DC  bereating pressure  0.3 MPa 0.8 MPa  bereating pressure  3 bar 8 bar  ructural design  Piston gate valve  sest method  Mechanical spring  entification  RCM compliance mark  cul us - Recognized (OL)  segree of protection  Pie66  With plug socket  dominal width  Anaust air function  with flow control option  anial override  bereating principle  soft  counting position  Any  bereating principle  outling position  anual override  be of control  lot air supply port  internal  mbol  oto pressure MPa  to tressure MPa  to tressure MPa  to pressure MPa  to pr	Feature	Value
Inversize 18 mm  andard nominal flow rate 910 l/min  seturatic working port 61/4  certating pressure 0.3 MPa 0.8 MPa  3 bar 8 bar  ructural design Piston gate valve  set method Mechanical spring  certification RCM compliance mark  c UL us - Recognized (01)  liP65  with plug socket  soft minial width 6.3 mm  chaust air function With flow control option  saling principle Soft  ounting position Any  anual override Detenting  non-detenting  covered Piot-controlled  lot air supply port Internal  mbol 00992894  pp Indefinite overlap  tot pressure MPa 0.3 MPa 0.8 MPa  3 bar 8 bar  soft pressure 3 bar 8 bar  vitching time off 48 ms  anageover time 19 ms  anageover time 19 ms  anageover time 29 ms  anageover time 19 ms  anageover time 19 ms  soft compressed air as per ISO 8573-1:2010 [7:4:4]  sover time pressure of protection of the pressure of the pressu	Valve function	5/3, exhausted
andard nominal flow rate leumatic working port  G1/4  24V DC  perating pressure  0.3 MPa 0.8 MPa  perating pressure  3 bar 8 bar  ructural design Piston gate valve  seet method Mechanical spring RCM compliance mark cull us - Recognized (OL)  Piese of protection With plug socket  with plug socket  with flow control option  saling principle Soft  control  position  anual override Detenting Covered  pe of control  poit - controlled  lot air supply port Internal  mbol  tot gressure MPa  tot gressure  3 bar 8 bar  1 bar 8 bar  3 bar 8 bar  4 bar 8 bar  4 bar 8 bar  1 bar 8 bar  1 bar 8 bar  2 bar 8 bar  3 bar 8 bar  4 bar 8 bar  5 bar 8 bar  6 bar 8 bar  7 bar 8 bar  8 bar 8 bar  8 bar 8 bar  9 bar 8 bar  9 bar 8 bar  9 bar 8 bar  9 bar	Actuation type	Electrical
returnatic working port  perating voltage  24V DC  3.3 MPa 0.8 MPa  3 bar 8 bar  Piston gate valve  set method  Mechanical spring  RCM compliance mark  vul. us. Recognized (Ot)  Piefs  With plug socket  6.3 mm  With flow control option  saling principle  sont  son	Valve size	18 mm
perating voltage 24V DC perating pressure 0.3 MPa 0.8 MPa perating pressure 3 bar 8 bar perating pressure 9 3 bar 8 bar prictural design Piston gate valve perating the set method Mechanical spring person of protection RCM compliance mark c UL us - Recognized (OL) person of protection With plug socket person of protection With grown on the plug socket person of protection With plug socket person of protection Any parallel priction of protection and protection protection of protection protec	Standard nominal flow rate	910 l/min
perating pressure perating pressure perating pressure perating pressure perating pressure prictural design RCM compliance mark c UL us - Recognized (OL) RCM compliance mark c UL us - RCM compliance c UL us - RCM complianc	Pneumatic working port	G1/4
perating pressure 3 bar 8 bar piston gate valve piston gate valve seet method Mechanical spring person protection RCM compliance mark cultus - Recognized (OL) protection Piece of Piece o	Operating voltage	24V DC
ructural design Piston gate valve seet method Mechanical spring RCM compliance mark c UL us - Recognized (OL) segree of protection Piece of Pi	Operating pressure	0.3 MPa 0.8 MPa
Mechanical spring RCM compliance mark c U Us - Recognized (OL)  Pegree of protection RCM compliance mark c U Us - Recognized (OL)  Pegree of protection RCM compliance mark c U Us - Recognized (OL)  Pegree of protection RCM compliance mark c U Us - Recognized (OL)  Pegree of protection RCM compliance mark c U Us - Recognized (OL)  With plug socket  With plug socket  With plug socket  Soft  Soft  Soft  Soft  Detenting Non-detenting Covered Poortroll Poor-detenting Covered Poor-detenting Covered Poor-detenting Rom-detenting Rom-det	Operating pressure	3 bar 8 bar
retification client control country of the country	Structural design	Piston gate valve
c UL us - Recognized (OL) egree of protection  P66 With plug socket  Somm  chaust air function  With flow control option  saling principle Soft  counting position Any  anual override  Detenting Non-detenting Covered  pe of control Pilot-controlled  lot air supply port Internal  public pressure MPa Iot pressure Iot pressure AB as witching time off 1 switching time AB as witching time AB as witching time AB as witching time AB as word of the supply swith O signal AB as we positive test pulse with O signal AB as regative test pulse with O signal AB as resisting medium  Determine  Compressed air as per ISO 8573-1:2010 [7:4:4]  Determine  P65 With plug socket With plug socket  AB ms  Any  Any  Detenting Non-detenting Non-dete	Reset method	Mechanical spring
With plug socket  chaust air function  chaust air function  calling principle  counting position  canual override  control  pe of control  lot air supply port  internal  corpersure MPa  lot pressure MPa  lot pressure  witching time off  n switching time  sin switching time  analgeover time  29 ms  analgeover time  48 ms  anangeover time  29 ms  atty cycle  atty cycle  attin characteristics  attin characteristics  attin characteristics  attin characteristics  attin characteristics  attin characteristics  attin compressed air as per ISO 8573-1:2010 [7:4:4]	Certification	
thaust air function  with flow control option  Soft  Soft  ounting position  anual override  pe of control  lot air supply port  pp of control  lot air supply port  pp of control  lot persure MPa  lot pressure MPa  lot pressure  switching time off  switching time  anageover time  supply cycle  ax. positive test pulse with 0 signal  ax. negative test pulse on 1 signal  icharacteristics  ax positive voltage fluctuations  bring in with flow control option  Soft  Any  Any  Detenting Non-detenting Covered  Pilot-controlled  Internal  00992894  Internal  00992894  Indefinite overlap  I	Degree of protection	
Soft counting position Any Detenting Non-detenting Covered Pilot-controlled Internal Pilot persure P	Nominal width	6.3 mm
Detenting position  Any  Detenting Non-detenting Covered  pe of control  Detenting Non-detenting Covered  Pilot-controlled  Internal  Pilot-person overlap  Indefinite overlap  Indefinite overlap  Indefinite overlap  Indefinite overlap  Indefinite overlap  Indefinite overlap  Internal  O.3 MPa 0.8 MPa  Iot pressure MPa  Iot pressure  3 bar 8 bar  Witching time off  48 ms  In switching time  15 ms  Internal  Internal  Internal  Internal  Internal  Indefinite overlap  Indefinite overlap  Indefinite overlap  Indefinite overlap  Internal	Exhaust air function	With flow control option
Detenting Non-detenting Covered  pe of control  pe of control  lot air supply port  Internal  Op992894  Indefinite overlap  Iot pressure MPa  Iot pressure  3 bar 8 bar  witching time off  48 ms  Inswitching time  15 ms  Internal  29 ms  Internal  100%  Internal  29 ms  Internal  In	Sealing principle	Soft
Non-detenting Covered  Pilot-controlled  Internal  Mobil 00 9992894  Ip Indefinite overlap  Iot pressure MPa 0.3 MPa 0.8 MPa  Iot pressure MPa 3 bar 8 bar  witching time off 48 ms  In switching time 15 ms  anageover time 29 ms  anageover time 29 ms  anageover time 29 ms  anageover time 30 ms  anageover time 40 ms  anageo	Mounting position	Any
Internal O0992894 Indefinite overlap Indefinite overlap Internal O1	Manual override	Non-detenting
mbol 00992894  Indefinite overlap  Indefinite	Type of control	Pilot-controlled
Indefinite overlap  lot pressure MPa  0.3 MPa 0.8 MPa  lot pressure  3 bar 8 bar  witching time off  48 ms  15 ms  nangeover time  29 ms  uty cycle  100%  ax. positive test pulse with 0 signal  ax. negative test pulse on 1 signal  pick characteristics  24 V DC: 1.0 W  ermissible voltage fluctuations  +/- 10 %  Compressed air as per ISO 8573-1:2010 [7:4:4]	Pilot air supply port	Internal
Not pressure MPa  10t pressure MPa  10t pressure  10t pres	Symbol	00992894
lot pressure 3 bar 8 bar witching time off 48 ms 15 ms nangeover time 29 ms uty cycle 100% ax. positive test pulse with 0 signal 700 µs ax. negative test pulse on 1 signal 900 µs oil characteristics 24 V DC: 1.0 W ermissible voltage fluctuations +/- 10 % perating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Lap	Indefinite overlap
witching time off 48 ms 15 ms 15 ms 129 ms 100% 100% 100% 100 μs 100 μs 101 characteristics 100 μs 100 μs 101 characteristics 100 μs 100 μs 101 characteristics 100 μs 100	Pilot pressure MPa	0.3 MPa 0.8 MPa
15 ms langeover time 29 ms laty cycle 100% lax. positive test pulse with 0 signal 700 µs lax. negative test pulse on 1 signal 900 µs loil characteristics 24 V DC: 1.0 W learnissible voltage fluctuations +/- 10 % location medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Pilot pressure	3 bar 8 bar
rangeover time  29 ms  100%  ax. positive test pulse with 0 signal  700 μs  ax. negative test pulse on 1 signal  900 μs  oil characteristics  24 V DC: 1.0 W  ermissible voltage fluctuations  +/- 10 %  compressed air as per ISO 8573-1:2010 [7:4:4]	Switching time off	48 ms
ty cycle 100% ax. positive test pulse with 0 signal 700 μs ax. negative test pulse on 1 signal 900 μs coll characteristics 24 V DC: 1.0 W cormissible voltage fluctuations +/- 10 % corporating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	On switching time	15 ms
ax. positive test pulse with 0 signal  ax. negative test pulse on 1 signal  900 μs  oil characteristics  24 V DC: 1.0 W  ermissible voltage fluctuations  +/- 10 %  perating medium  Compressed air as per ISO 8573-1:2010 [7:4:4]	Changeover time	29 ms
ax. negative test pulse on 1 signal 900 µs cil characteristics 24 V DC: 1.0 W 4/- 10 % certaing medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Duty cycle	100%
certaing medium  24 V DC: 1.0 W  +/- 10 %  Compressed air as per ISO 8573-1:2010 [7:4:4]	Max. positive test pulse with 0 signal	700 μs
ermissible voltage fluctuations +/- 10 % Derating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Max. negative test pulse on 1 signal	900 μs
perating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Coil characteristics	24 V DC: 1.0 W
	Permissible voltage fluctuations	+/- 10 %
	Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
formation on operating and pilot media  Operation with oil lubrication possible (required for further use)	Information on operating and pilot media	Operation with oil lubrication possible (required for further use)

Feature	Value
Vibration resistance	Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6
Restricted ambient and media temperature	-5 - 50 °C Without holding power reduction
Shock resistance	Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27
Corrosion resistance class (CRC)	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Cleanroom class	Class 5 according to ISO 14644-1
Temperature of medium	-5 °C 60 °C
Ambient temperature	-5 °C 60 °C
Product weight	160 g
Electrical connection	Via electrical sub-base
Type of mounting	With through-hole
Pneumatic connection 1	G1/4
Pneumatic connection 2	G <sup>1</sup> / <sub>4</sub>
Pneumatic connection 3	G1/4
Pneumatic connection 4	G1/4
Pneumatic connection 5	G1/4
Note on materials	RoHS-compliant
Seals material	HNBR NBR
Housing material	Wrought aluminum alloy