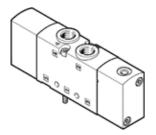
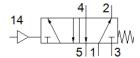
pneumatic valve VUWS-LT20-M52-M-G18 Part number: 577527







Data sheet

| Valve function 5/2 monostable Valve size 21 mm Standard nominal flow rate 500 J/min Operating pressure 2.5 10 Par Design structure Poppet seat Type of reset mechanical spring Authorisation c UL us - Recognized (OL) Nominal size 5 mm Exhaust-air function throttleable Sealing principle soft Assembly position Any Manual override None Type of piloting direct Plot air supply Internal Flow direction non reversible Overlap Underlap Pilot pressure 2.5 10 Par Switching time off 1 ms Switching time off 1 ms Switching time of 1 ms | Feature | Value |
|--|---|--|
| Valve size 21 mm Standard nominal flow rate 500 l/min Operating pressure 2.5 10 bar Design structure Poppet seat Type of reset mechanical spring Authorisation c UL us - Recognized (OL) Nominal size 5 mm Exhaust-air function throttleable Sealing principle soft Assembly position Any Manual override None Type of piloting direct Flow direction non reversible Overlap Underlap Pilot air supply Internal Flow direction non reversible Overlap Underlap Pilot pressure MPa 0.25 1 MPa Pilot pressure 2.5 10 bar Switching time on 10 ms Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Not on operating and pilot medium Lubricated operation possible (subsequently required for further operation) Vibration resistance Shock resistance Shock resistance Shock set | Valve function | 5/2 monostable |
| Standard nominal flow rate 500 /min | Type of actuation | pneumatic |
| Operating pressure MPa 0.25 1 MPa Operating pressure 2.5 10 bar Design structure Poppet seat Type of reset mechanical spring Authorisation c U. U.s Recognized (OL) Nominal size 5 mm Exhaust-air function throttleable Sealing principle soft Assembly position Any Manual override None Type of piloting direct Pilot air supply Internal Row direction non reversible Overlap Underlap Pilot pressure MPa 0.25 1 MPa Pilot pressure MPa | Valve size | 21 mm |
| Operating pressure 2.5 10 bar Design structure Poppet set Authorisation c UL us - Recognized (OL) Nominal size 5 mm Exhaust air function throttleable Sealing principle soft Assembly position Any Manual override None Type of piloting direct Pilot air supply Internal Flow direction non reversible Overlap Underlap Pilot pressure 2.5 10 bar Switching time off 14 ms Switching time off 14 ms Switching time on 10 ms 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) Vibration resistance Transport application test at severity level 2 in accordance with FN 942017-5 and EN 60068-2-6 Shock resistance classification CRC 2 · Moderate corrosion stress PWIS conformity VDMA2246-B1/B2-L Medium temperature 10 60 °C Prio | Standard nominal flow rate | 500 l/min |
| Design structure Type of reset Muthorisation CUL us - Recognized (OL) Nominal size Shaust-air function Sealing principle | Operating pressure MPa | 0.25 1 MPa |
| Type of reset | Operating pressure | 2.5 10 bar |
| Authorisation CUL us - Recognized (OL) Nominal size 5 mm Exhaust-air function throttleable Sealing principle soft Assembly position Any Assembly position Any Annual override None Type of piloting direct Pilot air supply Internal Pilot air supply Internal Pilot pressure Any Pilot medium Any Pilot medium Any Pilot pressure Any Pilot medium Any Pilot pressure Any Pilot medium Any Pilot pressure Any Pilot pressur | Design structure | Poppet seat |
| Nominal size | Type of reset | mechanical spring |
| Exhaust-air function throttleable soft Sealing principle soft Sealing principle soft Any Manual override None Manual override None Minet Pilot air supply Internal In | Authorisation | c UL us - Recognized (OL) |
| Sealing principle soft Assembly position Any Manual override None Type of piloting direct Pilot air supply Internal How direction non reversible Overlap Underlap Pilot pressure MPa 0.25 10 bar Switching time off 14 ms Switching time on 0 ms 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) Vibration resistance Transport application test at severity level 2 in accordance with FN 942017-5 and EN 60068-2-6 Shock resistance Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-6 Corrosion resistance classification CRC 2 - Moderate corrosion stress PWIS conformity VDM24364-81/82-L Medium temperature 10 60 °C Priot medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Ambient temperature 10 60 °C Priot medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Ambient tem | Nominal size | 5 mm |
| Assembly position Manual override None Manual override None None None None None None None Non | Exhaust-air function | throttleable |
| Manual override None Type of piloting direct Illot air supply Internal Flow direction non reversible Overlap Underlap Pilot pressure MPa 0.25 1 MPa Pilot pressure 2.5 10 bar Switching time off 14 ms Switching time on 10 ms 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) Vibration resistance Transport application test at severity level 2 in accordance with FN 942017-5 and EN 60068-2-6 Shock resistance Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-7 Corrosion resistance classification CRC 2 Moderate corrosion stress PWIS conformity VDMA24364-B1/B2-L Medium temperature 10 60 °C Pilot medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Ambient temperature 10 60 °C Product weight 173 g Mounting type on manifold rail with through hole Optional< | Sealing principle | soft |
| Manual override None Type of piloting direct Illot air supply Internal Flow direction non reversible Overlap Underlap Pilot pressure MPa 0.25 1 MPa Pilot pressure 2.5 10 bar Switching time off 14 ms Switching time on 10 ms 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) Vibration resistance Transport application test at severity level 2 in accordance with FN 942017-5 and EN 60068-2-6 Shock resistance Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-7 Corrosion resistance classification CRC 2 Moderate corrosion stress PWIS conformity VDMA24364-B1/B2-L Medium temperature 10 60 °C Pilot medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Ambient temperature 10 60 °C Product weight 173 g Mounting type on manifold rail with through hole Optional< | -, , | Any |
| Pilot air supply Internal Flow direction non reversible Overlap Underlap Pilot pressure MPa 0.25 1 MPa Pilot pressure 2.5 10 bar Switching time off 14 ms Switching time on 0 ms 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) Vibration resistance Transport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6 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 PWIS conformity VDMA24364-B1/B2-L Medium temperature -10 60 °C Pilot medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Ambient temperature -10 60 °C Product weight 173 g Mounting type on manifold rail with through hole optional Scavenging orifice connection Non-ducted Pilot air port 14 61/8 Pneumatic connection, port 2 61/8 | | • |
| Pilot air supply Internal Flow direction non reversible Overlap Underlap Pilot pressure MPa 0.25 1 MPa Pilot pressure 2.5 10 bar Switching time off 14 ms Switching time on 0 ms 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) Vibration resistance Transport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6 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 PWIS conformity VDMA24364-B1/B2-L Medium temperature -10 60 °C Pilot medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Ambient temperature -10 60 °C Product weight 173 g Mounting type on manifold rail with through hole optional Scavenging orifice connection Non-ducted Pilot air port 14 61/8 Pneumatic connection, port 2 61/8 | Type of piloting | direct |
| Flow direction non reversible Overlap Underlap Pilot pressure MPa 0.25 1 MPa Pilot pressure 2.5 10 bar Switching time of 14 ms Switching time on 10 ms 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) Vibration resistance Transport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6 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 PWIS conformity VDMA24364-B1/B2-L Medium temperature -10 60 °C Pilot medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Ambient temperature -10 60 °C Product weight 173 g Mounting type on manifold rail with through hole Optional Scavenging orifice connection Non-ducted Pilot air port 14 M5 Pneumatic connection, port 2 G1/8 | , - | Internal |
| Pilot pressure MPa Pilot pressure 2.5 10 bar Switching time off 3 | | non reversible |
| Pilot pressure 2.5 10 bar Switching time off 14 ms Switching time on 10 ms 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) Vibration resistance Shock resistance Shock test with severity level 2 in accordance with FN 942017-4 and EN 60068-2-6 Shock resistance Classification CRC 2-Moderate corrosion stress PWIS conformity VDMA24364-B1/B2-L Medium temperature 10 60 °C Pilot medium Competity Signature 173 g Mounting type on manifold rail with through hole Optional Scavenging orifice connection, port 1 Pneumatic connection, port 1 Pneumatic connection, port 2 Pneumatic connection, port 3 Pneumatic connection, port 4 Pneumatic connection, port 5 G1/8 Pneumatic connection, port 5 | Overlap | Underlap |
| Pilot pressure 2.5 10 bar Switching time off 14 ms 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) Vibration resistance Transport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6 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 PWIS conformity VDMA24364-B1/B2-L Medium temperature -10 60 °C Pilot medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Ambient temperature -10 60 °C Product weight 173 g Mounting type on manifold rail with through hole Optional Scavenging orifice connection Non-ducted Pilot air port 14 M5 Pneumatic connection, port 1 G1/8 Pneumatic connection, port 3 G1/8 Pneumatic connection, port 4 G1/8 Pneumatic connection, port 5 G1/8 | Pilot pressure MPa | · |
| Switching time off Switching time on Operating medium Operating medium Operating and pilot medium Note on operating and pilot medium Vibration resistance Transport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6 Shock resistance Shock resistance Shock sesistance Shock ses with severity level 2 in accordance with FN 942017-5 and EN 60068-2-26 Shock sesistance | · · · · · · · · · · · · · · · · · · · | |
| Switching time on 10 ms 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) Vibration resistance Transport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6 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 PWIS conformity VDMA24364-B1/B2-L Medium temperature 10 60 °C Pilot medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Ambient temperature -10 60 °C Product weight 173 g Mounting type on manifold rail with through hole optional Scavenging orifice connection Non-ducted Pilot air port 14 M5 Pneumatic connection, port 1 61/8 Pneumatic connection, port 2 G1/8 Pneumatic connection, port 3 G1/8 Pneumatic connection, port 4 G1/8 Pneumatic connection, port 5 G1/8 | | |
| 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) Vibration resistance Transport application test at severity level 2 in accordance with FN 942017-5 and EN 60068-2-6 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 PWIS conformity VDMA24364-B1/B2-L Medium temperature -10 60 °C Pilot medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Ambient temperature -10 60 °C Product weight 173 g Mounting type on manifold rail with through hole Optional Scavenging orifice connection Non-ducted Pilot air port 14 M5 Pneumatic connection, port 1 G1/8 Pneumatic connection, port 2 G1/8 Pneumatic connection, port 4 G1/8 Pneumatic connection, port 5 G1/8 | _ | |
| Note on operating and pilot medium Vibration resistance Transport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6 Shock resistance Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-7 Corrosion resistance classification CRC 2 - Moderate corrosion stress PWIS conformity VDMA24364-B1/B2-L Medium temperature 10 60 °C Pilot medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Ambient temperature 173 g Mounting type On manifold rail with through hole Optional Scavenging orifice connection Non-ducted Pilot air port 14 M5 Pneumatic connection, port 2 Pneumatic connection, port 3 Pneumatic connection, port 4 Pneumatic connection, port 4 Pneumatic connection, port 4 Pneumatic connection, port 4 Pneumatic connection, port 5 G1/8 Pneumatic connection, port 4 G1/8 Pneumatic connection, port 4 G1/8 Pneumatic connection, port 5 G1/8 Pneumatic connection, port 5 G1/8 Pneumatic connection, port 5 | | |
| Vibration resistanceoperation)Shock resistanceTransport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6Shock resistanceShock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27Corrosion resistance classification CRC2 - Moderate corrosion stressPWIS conformityVDMA24364-B1/B2-LMedium temperature-10 60 °CPilot mediumCompressed air in accordance with ISO8573-1:2010 [7:4:4]Ambient temperature-10 60 °CProduct weight173 gMounting typeon manifold rail with through hole optionalScavenging orifice connectionNon-ductedPilot air port 14M5Pneumatic connection, port 261/8Pneumatic connection, port 361/8Pneumatic connection, port 461/8Pneumatic connection, port 561/8 | | |
| Shock resistance942017-4 and EN 60068-2-6Shock resistanceShock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27Corrosion resistance classification CRC2 - Moderate corrosion stressPWIS conformityVDMA24364-B1/B2-LMedium temperature-10 60 °CPilot mediumCompressed air in accordance with ISO8573-1:2010 [7:4:4]Ambient temperature10 60 °CProduct weight173 gMounting typeon manifold rail with through hole OptionalScavenging orifice connectionNon-ductedPilot air port 14M5Pneumatic connection, port 1G1/8Pneumatic connection, port 2G1/8Pneumatic connection, port 3G1/8Pneumatic connection, port 4G1/8Pneumatic connection, port 5G1/8 | note on operating and processes. | |
| Corrosion resistance classification CRC2 - Moderate corrosion stressPWIS conformityVDMA24364-B1/B2-LMedium temperature-10 60 °CPilot mediumCompressed air in accordance with ISO8573-1:2010 [7:4:4]Ambient temperature-10 60 °CProduct weight173 gMounting typeon manifold rail with through hole OptionalScavenging orifice connectionNon-ductedPilot air port 14M5Pneumatic connection, port 1G1/8Pneumatic connection, port 2G1/8Pneumatic connection, port 4G1/8Pneumatic connection, port 5G1/8 | Vibration resistance | |
| PWIS conformity Medium temperature -10 60 °C Pilot medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Ambient temperature -10 60 °C Product weight Mounting type on manifold rail with through hole Optional Scavenging orifice connection Non-ducted Pilot air port 14 M5 Pneumatic connection, port 1 Pneumatic connection, port 2 Pneumatic connection, port 3 Pneumatic connection, port 4 Pneumatic connection, port 4 Pneumatic connection, port 5 G1/8 Pneumatic connection, port 5 G1/8 Pneumatic connection, port 5 G1/8 | Shock resistance | |
| PWIS conformity Medium temperature -10 60 °C Pilot medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Ambient temperature -10 60 °C Product weight Mounting type on manifold rail with through hole Optional Scavenging orifice connection Non-ducted Pilot air port 14 M5 Pneumatic connection, port 1 Pneumatic connection, port 2 Pneumatic connection, port 3 Pneumatic connection, port 4 Pneumatic connection, port 4 Pneumatic connection, port 5 G1/8 Pneumatic connection, port 5 G1/8 Pneumatic connection, port 5 G1/8 | Corrosion resistance classification CRC | 2 - Moderate corrosion stress |
| Medium temperature-10 60 °CPilot mediumCompressed air in accordance with ISO8573-1:2010 [7:4:4]Ambient temperature-10 60 °CProduct weight173 gMounting typeon manifold rail with through hole OptionalScavenging orifice connectionNon-ductedPilot air port 14M5Pneumatic connection, port 1G1/8Pneumatic connection, port 2G1/8Pneumatic connection, port 3G1/8Pneumatic connection, port 4G1/8Pneumatic connection, port 5G1/8 | | VDMA24364-B1/B2-L |
| Pilot medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Ambient temperature -10 60 °C Product weight 173 g Mounting type on manifold rail with through hole Optional Scavenging orifice connection Non-ducted Pilot air port 14 M5 Pneumatic connection, port 1 G1/8 Pneumatic connection, port 2 G1/8 Pneumatic connection, port 3 Pneumatic connection, port 4 Pneumatic connection, port 5 G1/8 Pneumatic connection, port 5 G1/8 Pneumatic connection, port 5 G1/8 | | -10 60 °C |
| Ambient temperature Product weight 173 g Mounting type on manifold rail with through hole Optional Scavenging orifice connection Non-ducted Pilot air port 14 M5 Pneumatic connection, port 1 Pneumatic connection, port 2 Pneumatic connection, port 3 Pneumatic connection, port 4 Pneumatic connection, port 5 G1/8 Pneumatic connection, port 5 G1/8 Pneumatic connection, port 5 G1/8 | | Compressed air in accordance with ISO8573-1:2010 [7:4:4] |
| Mounting type on manifold rail with through hole Optional Scavenging orifice connection Non-ducted Pilot air port 14 M5 Pneumatic connection, port 1 G1/8 Pneumatic connection, port 2 G1/8 Pneumatic connection, port 3 G1/8 Pneumatic connection, port 4 G1/8 Pneumatic connection, port 5 G1/8 Pneumatic connection, port 5 G1/8 | Ambient temperature | , |
| Mounting type on manifold rail with through hole Optional Scavenging orifice connection Non-ducted Pilot air port 14 M5 Pneumatic connection, port 1 G1/8 Pneumatic connection, port 2 G1/8 Pneumatic connection, port 3 G1/8 Pneumatic connection, port 4 G1/8 Pneumatic connection, port 5 G1/8 Pneumatic connection, port 5 G1/8 | Product weight | 173 g |
| with through hole Optional Scavenging orifice connection Non-ducted Pilot air port 14 M5 Pneumatic connection, port 1 Pneumatic connection, port 2 G1/8 Pneumatic connection, port 3 Pneumatic connection, port 4 Pneumatic connection, port 5 G1/8 Pneumatic connection, port 5 G1/8 | - | <u> </u> |
| Scavenging orifice connectionNon-ductedPilot air port 14M5Pneumatic connection, port 1G1/8Pneumatic connection, port 2G1/8Pneumatic connection, port 3G1/8Pneumatic connection, port 4G1/8Pneumatic connection, port 5G1/8 | | |
| Scavenging orifice connection Non-ducted Pilot air port 14 Pneumatic connection, port 1 Pneumatic connection, port 2 Pneumatic connection, port 3 Pneumatic connection, port 4 Pneumatic connection, port 5 G1/8 Pneumatic connection, port 5 G1/8 | | _ = |
| Pilot air port 14 Pneumatic connection, port 1 Pneumatic connection, port 2 Pneumatic connection, port 3 Pneumatic connection, port 3 Pneumatic connection, port 4 Pneumatic connection, port 5 G1/8 Pneumatic connection, port 5 G1/8 | Scavenging orifice connection | · |
| Pneumatic connection, port 1 G1/8 Pneumatic connection, port 2 G1/8 Pneumatic connection, port 3 G1/8 Pneumatic connection, port 4 G1/8 Pneumatic connection, port 5 G1/8 | | |
| Pneumatic connection, port 2 Pneumatic connection, port 3 Pneumatic connection, port 4 Pneumatic connection, port 5 G1/8 Pneumatic connection, port 5 G1/8 | | |
| Pneumatic connection, port 3 G1/8 Pneumatic connection, port 4 G1/8 Pneumatic connection, port 5 G1/8 | · · · · · · · · · · · · · · · · · · · | |
| Pneumatic connection, port 4 G1/8 Pneumatic connection, port 5 G1/8 | | |
| Pneumatic connection, port 5 G1/8 | | |
| · · · · · · · · · · · · · · · · · · · | | |
| III Onforme to POHS | Materials note | Conforms to RoHS |



| Feature | Value |
|------------------|--------------------|
| Material seals | HNBR |
| | NBR |
| | TPE-U(PU) |
| Material housing | Aluminium die cast |
| | Painted |
| Material screws | Galvanised steel |