## **Pushbutton valve VHEF-PTC-B32-N18**

Part number: 5299719





## **Data sheet**

Actuation type Manual Width 20 mm Standard nominal flow rate 750 l/min Pneumatic working port 1/8 NPT Operating pressure 0.35 MPa1 MPa 3.5 bar10 bar Structural design Plate seat Nominal width 5.6 mm Exhaust air function With flow control option Application note Operate by hand only Sealing principle Soft Mounting position Any Manual override Detenting Plot controlled Plot of control Plot air supply port Internal Flow direction Reversible Lap Zero overlap Plot pressure MPa 0.35 MPa1 MPa 3.5 bar10 bar Pliot pressure psi Max. switching frequency 0.5 Hz Explosion prevention and protection Zone 21 (ATEX) Zone 22 (ATEX) Compression stress LABS (PWIS) conformity VDMA24364-B1/B2-L LAB (VDMA24364-B1/B2-L LABS (PWIS) conformity VDMA24364-B1/B2-L	Feature	Value
Width 20 mm  Standard nominal flow rate 750 l/min  Pneumatic working port 1/8 NPT  Operating pressure 3.5 bar10 bar  Structural design Plate seat  Nominal width 5.6 mm  Exhaust air function Operate by hand only  Sealing principle Soft  Mounting position Any  Manual override Detenting  Pilot control led  Pilot air supply port Internal  Flow direction Reversible  Lap 2ero overlap  Pilot pressure MPa 0.35 MPa10 MPa  3.5 bar10 bar  Pilot pressure by hand only  Sealing principle Soft  Any  Manual override Detenting  Pilot air supply port Internal  Flow direction Reversible  Lap 2ero overlap  Pilot pressure MPa 0.35 MPa10 MPa  Pilot pressure psi So.75 psi145 psi  Max. switching frequency 0.5 Hz  Explosion prevention and protection Zone 1 (ATEX)  Zone 21 (ATEX)  Zone 22 (ATEX)  Zone 22 (ATEX)  Zone 22 (ATEX)  Compressed air as per ISO 8573-1:2010 [7:-:-]  Information on operating and pilot media Operation with oil lubrication possible (required for further use)  Corrosion resistance class (CRC) 1 - low corrosion stress  LABS (PWIS) conformity VDMA24364-B1/B2-L  Temperature of medium - 10 °C60 °C	Valve function	3/2, bistable
Standard nominal flow rate Pneumatic working port  1/8 NPT  Operating pressure  0.35 MPa1 MPa 3.5 bar10 bar  Structural design Plate seat  Nominal width 5.6 mm  Exhaust air function With flow control option Application note Operate by hand only Sealing principle Soft Mounting position Any Manual override Detenting Pilot-controlled Pilot air supply port Internal Flow direction Reversible Lap Zero overlap Pilot pressure MPa Pilot pressure Pilot pressure Soft Max. switching frequency  Explosion prevention and protection Zone 1 (ATEX) Zone 2 (ATEX) Zone	Actuation type	Manual
Pneumatic working port  Operating pressure  0.35 MPa1 MPa 3.5 bar10 bar  Structural design  Nominal width  5.6 mm  Exhaust air function  Application note  Operate by hand only  Sealing principle  Soft  Mounting position  Any  Manual override  Detenting  Type of control  Pilot air supply port  Internal  Flow direction  Reversible  Lap  Zero overlap  Pilot pressure MPa  Pilot pressure  3.5 bar10 bar  Pilot pressure psi  Max. switching frequency  Explosion prevention and protection  Operating medium  Compressed air as per ISO 8573-1:2010 [7]  Information on operating and pilot media  Operating womans  Operation with oil lubrication possible (required for further use)  Corrosion resistance class (CRC)  LABS (PWIS) conformity  VDMA24364-B1/B2-L  Temperature of medium  -10 °C60 °C	Width	20 mm
Operating pressure  0.35 MPa1 MPa 3.5 bar10 bar  Structural design Plate seat Nominal width 5.6 mm  Exhaust air function With flow control option Application note Operate by hand only  Sealing principle Soft Mounting position Any Manual override Detenting Pilot controlled Pilot-controlled Pilot resurble Lap Zero overlap Pilot pressure MPa O.35 MPa1 MPa 3.5 bar10 bar Pilot pressure psi Max. switching frequency Explosion prevention and protection Zone 2 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) Compressed air as per ISO 8573-1:2010 [7::] Information on operating and pilot media Operation with oil lubrication possible (required for further use) Corrosion resistance class (CRC) 1 · Low corrosion stress LABS (PWIS) conformity VDMA24364-B1/B2-L Temperature of medium - 10 °C60 °C	Standard nominal flow rate	750 l/min
3.5 bar10 bar  Structural design  Nominal width  5.6 mm  Exhaust air function  Application note  Operate by hand only  Sealing principle  Mounting position  Any  Manual override  Detenting  Type of control  Pilot-controlled  Pilot air supply port  Internal  Flow direction  Reversible  Lap  Zero overlap  Pilot pressure MPa  0.35 MPa1 MPa  3.5 bar10 bar  Pilot pressure psi  Max. switching frequency  Explosion prevention and protection  Zone 1 (ATEX)  Zone 2 (ATEX)  Zone 22 (ATEX)  Zone 22 (ATEX)  Zone 22 (ATEX)  Compressed air as per ISO 8573-1:2010 [7::-]  Information on operating and pilot media  Operation with oil lubrication possible (required for further use)  Corrosion resistance class (CRC)  1 - Low corrosion stress  LABS (PWIS) conformity  VDMA24364-B1/B2-L  Temperature of medium  -10 °C60 °C	Pneumatic working port	1/8 NPT
Nominal width  Exhaust air function  Application note  Operate by hand only  Sealing principle  Soft  Mounting position  Any  Manual override  Type of control  Pilot-controlled  Pilot air supply port  Internal  Flow direction  Reversible  Lap  Zero overlap  Pilot pressure MPa  Pilot pressure psi  Max. switching frequency  Explosion prevention and protection  Zone 1 (ATEX)  Zone 2 (ATEX)  Zone 2 (ATEX)  Zone 2 (ATEX)  Zone 22 (ATEX)  Corrosion resistance class (CRC)  1 - Low corrosion stress  LABS (PWIS) conformity  VDMA24364-B1/B2-L  Temperature of medium  Operation with oil lubrication possible (required for further use)  Comperature of medium  -10 °C60 °C	Operating pressure	
Exhaust air function  Application note  Operate by hand only  Sealing principle  Soft  Mounting position  Any  Manual override  Type of control  Pilot-controlled  Pilot air supply port  Internal  Flow direction  Reversible  Lap  Zero overlap  Pilot pressure MPa  Pilot pressure psi  Max. switching frequency  Explosion prevention and protection  Zone 1 (ATEX)  Zone 2 (ATEX)  Zone 21 (ATEX)  Zone 21 (ATEX)  Zone 22 (ATEX)  Compressed air as per ISO 8573-1:2010 [7:]  Information on operating and pilot media  Corrosion resistance class (CRC)  1 - Low corrosion stress  LABS (PWIS) conformity  VDMA24364-B1/B2-L  Temperature of medium  10 Cc60 °C	Structural design	Plate seat
Application note  Sealing principle  Soft  Mounting position  Any  Manual override  Detenting  Type of control  Pilot-controlled  Pilot-controlled  Pilot air supply port  Internal  Flow direction  Lap  Zero overlap  Pilot pressure MPa  Pilot pressure psi  Max. switching frequency  Explosion prevention and protection  Explosion prevention and protection  Compressed air as per ISO 8573-1:2010 [7::-]  Information on operating and pilot media  Corrosion resistance class (CRC)  LAPS  Operating Medium  Compressed in as per ISO 8573-1:2010 [7::-]  Temperature of medium  COMPAZ4364-B1/B2-L  Temperature of medium  Compressed in medium  Com	Nominal width	5.6 mm
Sealing principle Soft Mounting position Any Manual override Detenting Type of control Pilot-controlled Pilot air supply port Internal Flow direction Reversible Lap Zero overlap Pilot pressure MPa O.35 MPa1 MPa Pilot pressure psi So.75 psi145 psi Max. switching frequency Explosion prevention and protection Zone 1 (ATEX) Zone 2 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) Coresion resistance class (CRC) 1 - Low corrosion stress  VDMA24364-B1/B2-L Temperature of medium -10 °C60 °C	Exhaust air function	With flow control option
Mounting position  Manual override  Detenting  Type of control  Pilot-controlled  Pilot air supply port  Internal  Flow direction  Lap  Pilot pressure MPa  Pilot pressure MPa  Pilot pressure psi  Max. switching frequency  Explosion prevention and protection  Operating medium  Compressed air as per ISO 8573-1:2010 [7::]  Information on operating and pilot media  Corrosion resistance class (CRC)  LAB Pilot controlled  Pilot-controlled  Pilot ressule  Pilot ress	Application note	Operate by hand only
Manual override  Type of control  Pilot-controlled  Pilot air supply port  Internal  Flow direction  Reversible  Lap  Zero overlap  Pilot pressure MPa  Pilot pressure MPa  Pilot pressure psi  Max. switching frequency  Explosion prevention and protection  Operating medium  Operating medium  Compressed air as per ISO 8573-1:2010 [7:-:-]  Information on operating and pilot media  Operation with oil lubrication possible (required for further use)  Corrosion resistance class (CRC)  1 - Low corrosion stress  LABS (PWIS) conformity  VDMA24364-B1/B2-L  Temperature of medium  -10 °C60 °C	Sealing principle	Soft
Type of control Pilot controlled Pilot air supply port Internal Reversible Lap Zero overlap Pilot pressure MPa O.35 MPa1 MPa Pilot pressure psi So.75 psi145 psi Max. switching frequency Explosion prevention and protection Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX) Cone 22 (ATEX) Cone 22 (ATEX) Cone 22 (ATEX) Cone 23 (ATEX) Cone 25 (ATEX) Cone 26 (ATEX) Cone 27 (ATEX) Cone 27 (ATEX) Cone 28 (ATEX) Cone 29 (ATEX) Cone 29 (ATEX) Cone 20 (ATEX) Cone	Mounting position	Any
Pilot air supply port  Flow direction  Reversible  Zero overlap  O.35 MPa1 MPa  Pilot pressure MPa  O.35 MPa1 D bar  Pilot pressure psi  So.75 psi145 psi  Max. switching frequency  Explosion prevention and protection  Zone 1 (ATEX) Zone 2 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX)  Operating medium  Compressed air as per ISO 8573-1:2010 [7:-:-]  Information on operating and pilot media  Operation with oil lubrication possible (required for further use)  Corrosion resistance class (CRC)  1 - Low corrosion stress  LABS (PWIS) conformity  VDMA24364-B1/B2-L  Temperature of medium  Information on medium  -10 °C60 °C	Manual override	Detenting
Flow direction  Reversible  Zero overlap  Pilot pressure MPa  0.35 MPa1 MPa  3.5 bar10 bar  Pilot pressure psi  50.75 psi145 psi  Max. switching frequency  Explosion prevention and protection  Zone 1 (ATEX) Zone 2 (ATEX) Zone 22 (ATEX) Zone 22 (ATEX)  Operating medium  Compressed air as per ISO 8573-1:2010 [7:-:-]  Information on operating and pilot media  Operation with oil lubrication possible (required for further use)  Corrosion resistance class (CRC)  1 - Low corrosion stress  LABS (PWIS) conformity  VDMA24364-B1/B2-L  Temperature of medium  -10 °C60 °C	Type of control	Pilot-controlled
Zero overlap  Pilot pressure MPa  0.35 MPa1 MPa  3.5 bar10 bar  Pilot pressure psi  50.75 psi145 psi  Max. switching frequency  Explosion prevention and protection  Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX)  Operating medium  Compressed air as per ISO 8573-1:2010 [7:-:-]  Information on operating and pilot media  Operation with oil lubrication possible (required for further use)  Corrosion resistance class (CRC)  1 - Low corrosion stress  LABS (PWIS) conformity  VDMA24364-B1/B2-L  Temperature of medium  -10 °C60 °C	Pilot air supply port	Internal
Pilot pressure MPa  0.35 MPa1 MPa  3.5 bar10 bar  Pilot pressure psi  50.75 psi145 psi  Max. switching frequency  Explosion prevention and protection  Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX)  Operating medium  Compressed air as per ISO 8573-1:2010 [7:-:-]  Information on operating and pilot media  Operation with oil lubrication possible (required for further use)  Corrosion resistance class (CRC)  1 - Low corrosion stress  VDMA24364-B1/B2-L  Temperature of medium  -10 °C60 °C	Flow direction	Reversible
Pilot pressure  3.5 bar10 bar  91lot pressure psi  50.75 psi145 psi  Max. switching frequency  0.5 Hz  Explosion prevention and protection  Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX)  Operating medium  Compressed air as per ISO 8573-1:2010 [7:-:-]  Information on operating and pilot media  Operation with oil lubrication possible (required for further use)  Corrosion resistance class (CRC)  1 - Low corrosion stress  VDMA24364-B1/B2-L  Temperature of medium  -10 °C60 °C	Lap	Zero overlap
Pilot pressure psi  Max. switching frequency  D.5 Hz  Explosion prevention and protection  Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX) Operating medium  Compressed air as per ISO 8573-1:2010 [7:-:-] Information on operating and pilot media Operation with oil lubrication possible (required for further use)  Corrosion resistance class (CRC)  1 - Low corrosion stress  LABS (PWIS) conformity  VDMA24364-B1/B2-L  Temperature of medium  -10 °C60 °C	Pilot pressure MPa	0.35 MPa1 MPa
Max. switching frequency  Explosion prevention and protection  Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX)  Operating medium  Compressed air as per ISO 8573-1:2010 [7:-:-]  Information on operating and pilot media  Operation with oil lubrication possible (required for further use)  Corrosion resistance class (CRC)  1 - Low corrosion stress  VDMA24364-B1/B2-L  Temperature of medium  -10 °C60 °C	Pilot pressure	3.5 bar10 bar
Explosion prevention and protection  Zone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX)  Operating medium  Compressed air as per ISO 8573-1:2010 [7:-:-] Information on operating and pilot media  Operation with oil lubrication possible (required for further use)  Corrosion resistance class (CRC)  1 - Low corrosion stress  LABS (PWIS) conformity  VDMA24364-B1/B2-L  Temperature of medium  -10 °C60 °C	Pilot pressure psi	50.75 psi145 psi
Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX)  Operating medium  Compressed air as per ISO 8573-1:2010 [7:-:-]  Information on operating and pilot media  Operation with oil lubrication possible (required for further use)  Corrosion resistance class (CRC)  1 - Low corrosion stress  LABS (PWIS) conformity  VDMA24364-B1/B2-L  Temperature of medium  -10 °C60 °C	Max. switching frequency	0.5 Hz
Information on operating and pilot media  Operation with oil lubrication possible (required for further use)  1 - Low corrosion stress  LABS (PWIS) conformity  VDMA24364-B1/B2-L  Temperature of medium  -10 °C60 °C	Explosion prevention and protection	Zone 2 (ATEX) Zone 21 (ATEX)
Corrosion resistance class (CRC)  1 - Low corrosion stress  LABS (PWIS) conformity  VDMA24364-B1/B2-L  Temperature of medium  -10 °C60 °C	Operating medium	Compressed air as per ISO 8573-1:2010 [7:-:-]
LABS (PWIS) conformity  VDMA24364-B1/B2-L  -10 °C60 °C  -10 °C60 °C	Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
Temperature of medium -10 °C60 °C	Corrosion resistance class (CRC)	1 - Low corrosion stress
	LABS (PWIS) conformity	VDMA24364-B1/B2-L
Ambient temperature -10 °C60 °C	Temperature of medium	-10 °C60 °C
	Ambient temperature	-10 °C60 °C

Feature	Value
Actuating force	20 N
Release force	25 N
Product weight	168 g
Type of mounting	Optionally: Front panel mounting With through-hole
Pneumatic connection 1	1/8 NPT
Pneumatic connection 2	1/8 NPT
Pneumatic connection 3	1/8 NPT
Note on materials	RoHS-compliant
Cover material	PA-reinforced
Seals material	NBR
Housing material	Wrought aluminum alloy, anodized