



Characteristics

At a glance

Powerful:

• Flow rate 600 ... 3800 l/min

Flexible:

- 4/3-way valve; mid-position closed, mid-position exhausted
- Connection 1/8 NPT, 1/4 NPT, 1/2 NPT
- 3/3-way valve; the hand lever valves VHER can be used as a 3/3-way valve by closing port 2

Practical:

- These valves can be used to stop single-acting cylinders (3/3-way valve) or double-acting cylinders within the stroke range.
- With the mid-position closed, the piston of the drive moves until the forces are in equilibrium.
- In the mid-position exhausting, the piston can be moved manually, only the frictional forces have to be overcome.

Valve function



Product segmentation



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- Quickest delivery, worldwide wherever, whenever
- Expected high Festo quality
- Easy and fast to select

Type code

001	Series	
VHER	Hand lever valve with detent	
002	Product version	
	Standard	
003	Actuation type	
Н	Hand lever, top	
004	Valve function	
B43C	4/3-way valve, detenting, mid-position closed	
B43E	4/3-way valve, detenting, mid-position exhausted	

005	Flow direction	
	Standard	
006	Connection direction	
	Front and rear	
В	Underneath	
007	Pneumatic connection	
N18	1/8 NPT	
N14	1/4 NPT	
N12	1/2 NPT	

Datasheet

General technical data											
Valve function	4/3 exhausted		4/3 closed								
Standard nominal flow rate (standardised to DIN 1343)	3,200 l/min	3,800 l/min	600 l/min	800 l/min	1,150 l/min	1,500 l/min	3,200 l/min	3,800 l/min			
Design	Rotary gate valve						-				
Sealing principle	Hard	ırd									
Type of mounting	Front panel moun	ting, With through-	hole, Either:								
Type of piloting	Direct										
Type of actuation	Manual	anual									
Actuator lock	-										
Switching position indicator	With accessories	With accessories									
Mounting position	-										
Flow direction	Non-reversible										
Overlap	yes										
Exhaust-air function	With flow control of	option									
Nominal size	12 mm		6 mm		8 mm		12 mm				
Pneumatic connection, port 1	NPT1/2-14		NPT1/8-27		NPT1/4-18		NPT1/2-14				
Pneumatic connection, port 2	NPT1/2-14	NPT1/2-14 NPT1/8-27 NPT1/4-18 NPT1/2-14									
Pneumatic connection, port 3	NPT1/2-14		NPT1/8-27		NPT1/4-18		NPT1/2-14				
Pneumatic connection, port 4	NPT1/2-14		NPT1/8-27		NPT1/4-18		NPT1/2-14				
Actuating torque	5 Nm		0.9 Nm		2 Nm		5 Nm				

Operating and environmental conditions

Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Note on operating and pilot	Lubricated operation possible (in which case lubricated operation will always be required)
medium	
Operating pressure	0 10 bar
Ambient temperature	-20 80°C
Media temperature	-20 80°C
Corrosion resistance class CRC ¹⁾	2 - Moderate corrosion stress

1) More information www.festo.com/x/topic/crc

Materials

Material housing	Die-cast aluminium
Material lever	Die-cast aluminium
Material seals	NBR
Note on materials	RoHS-compliant

Dimensions



- [1] Slot for proximity switch SM...-10...
- [2] Mounting hole
- [3] Knurled nut M30
- [4] Control panel/panel

	B1	В	2	B3	B4	В	5	D1	D3 Ø	D4 Ø		D5 Ø
VHER-H-B43N18	51	4	5	28,5	32	14	,6	1/8 NPT	5,5	30,	,2	3,3
	H1	H2	H3	H4	H5	min.	16 max.	L1	L2	L3	L4	W1
VHER-H-B43N18	95,6	45	15	7,5	40,5	2	4	84,9	60,5	54,5	3	45°

Dimensions



[1] Slot for proximity switch SM...-10...

[2] Mounting hole

[3] Knurled nut M30

[4] Control panel/panel

	B1		B4	B5	B6		B7	D1	D: ø		D4 Ø
VHER-H-B43B-N18	42,2		32	14,6	30,4		24	1/8 NPT	5,	5	30,2
	H1	H2	H5	H min.		L1	L2	L5	L6	L7	W1
VHER-H-B43B-N18	87,6	37	32,5	2	max. 4	78,6	44,9	24	9	36,2	45°

Dimensions



[2] Mounting hole

	B1	B2	BB	3	B4	B5	B8	D1	D2		D3 Ø	D4 Ø	D5 Ø
VHER-H-B43N14	66	57,5	37,	,5	42	19,5	42	1/4 NPT	M5	!	5,5	40,5	4,5
	H1	H2	H3	H4	H5	L1	L2	L3	L4	L8	L9	T1	W1
VHER-H-B43N14	136,3	55,5	20,5	10,3	50	164,8	77	69,2	4	42	7,2	12	45°

Dimensions



[1] Slot for proximity switch SM...-10...

[2] Mounting hole

	B1	B4	B5	B6	В	7	B	3	D1	D2	D3 Ø	D4 Ø
VHER-H-B43B-N14	56,3	42	19,5	40,4	i 3	3	42	2	1/4 NPT	M5	5,5	40,5
	H1	H2	H5	L1	L2	L5		L6	L7	L8	T1	W1
VHER-H-B43B-N14	129,8	49	43,5	156,6	59,8	33		11	48,2	42	12	45°

Dimensions



	B1	B2	2	В3	B4	B5	E	8	D1	D2	D3 Ø		D4 Ø	D5 Ø
VHER-H-B43N12	95	85	;	57	60	19,5	6	0	1/2 NPT	M5	6,6		51	5,5
	H1	H2	H3	H4	H5	L1	L2	L3	L4	L8	L9	R1	T1	W1
VHER-H-B43N12	149	68	29	14,5	61,8	180	108,8	97,3	5,5	60	10	128	13	45°

Dimensions

Dimensions – Pneumatic connection 1/2 NPT, underneath









Download CAD data & www.festo.com

[1] Slot for proximity switch SM...-10...

[2] Mounting hole

	B1	B	4	B5	B6	B7		B8	D1	D2		03 Ø	D4 Ø
VHER-H-B43B-N12	80	60	0	19,5	56,9	50		60	1/2 NPT	M5	e	5,6	51
	H1	H2	H5	L1	L2	L5	L6	L7	L8	L9	R1	T1	W1
VHER-H-B43B-N12	136,5	55,8	49,8	168,8	84,8	50	15	68,5	60	10	128	13	45°

Ordering data

Mid-position closed

	Construction width	Product weight	Pneumatic connection, port 1	Part no.	Туре							
4 2	42 mm	220 g	NPT1/8-27	3488213	VHER-H-B43C-B-N18							
	51 mm	260 g		3488212	VHER-H-B43C-N18							
	56 mm	510 g	NPT1/4-18	3520389	VHER-H-B43C-B-N14							
	66 mm	560 g		3520365	VHER-H-B43C-N14							
	80 mm	860 g	NPT1/2-14	3192086	VHER-H-B43C-B-N12							
	95 mm	1,010 g		3192085	VHER-H-B43C-N12							

Mid-position exhausted

Construction width	Product weight	Pneumatic connection, port 1	Part no.	Туре
80 mm 95 mm	860 g 1,010 g	NPT1/2-14	3192088 3192087	VHER-H-B43E-B-N12 VHER-H-B43E-N12

Peripherals overview Panel mounting, lever left



Acces	sories		→ Link
	Type/order code	Description	
[1]	Hand lever valve VHER	Connection size M5, G1/8, G1/4, G1/2 (pneumatic connections at the side)	${\mathscr S}$ vher
[2]	Operating lever	Large, metal	S –
[3]	Retaining screws	- For design reasons, not every hand lever valve VHER can be screwed to a control panel on the lever side	S –
		using retaining screws.	
		- Not included in the scope of delivery	
[4]	Control panel	Not included in the scope of delivery	S –
[5]	Proximity switch SME-10-KL	Not included in the scope of delivery (electrical connection, outlet on long side)	21
[5]	Proximity switch SME-10-SL	Not included in the scope of delivery (electrical connection, outlet on long side)	21



Access	sories		→ Link
	Type/order code	Description	
[1]	Hand lever valve VHER	Connection size M5, G1/8, G1/4, G1/2 (pneumatic connections underneath)	\mathscr{S} vher
[2]	Operating lever	Large, metal	S -
[3]	Knurled nut	Panel mounting	S –
[4]	Control panel	Not included in the scope of delivery	S –
[5]	Proximity switch SME-10-KL	Not included in the scope of delivery (electrical connection, outlet on long side)	21
[5]	Proximity switch SME-10-SL	Not included in the scope of delivery (electrical connection, outlet on long side)	21

Peripherals overview Mounted valves with accessories on the left



Acces	sories		→ Link
	Type/order code	Description	
[1]	Hand lever valve VHER-P-H	 Connection size M5, G1/8, G1/4, G1/2 with polymer lever, large pneumatic connections underneath) For design reasons, not every hand lever valve VHER can be screwed to a control panel on the lever side using retaining screws. 	${\mathscr S}$ vher
[2]	Lock	Not included in the scope of delivery	S –
[3]	Proximity switch SME-10-KL	Not included in the scope of delivery (electrical connection, outlet on long side)	21
[3]	Proximity switch SME-10-SL	Not included in the scope of delivery (electrical connection, outlet on long side)	21

Peripherals overview Mounted valves with accessories on the right



Accessories

Push-in fittings, 1/8 NPT, pneumatic connection underneath, external hex (short version)							
	Pneumatic connection,	Pneumatic connection,	Packaging unit [units]	Part no.	Туре		
	port 1	port 2					
	Male thread 1/8 NPT	For tubing outside di- ameter of 5/32"	10	572305	QBM-1/8-5/32-U		
		For tubing O.D. 1/8"		533270	QBM-1/8-1/8-U		

Push-in fittings, 1/8 NPT, pneumatic connection underneath, external hex

Pneumatic connection, port 1	Pneumatic connection, port 2	Part no.	Туре
Male thread 1/8 NPT	For tubing outside diameter of 5/32"	533271	QB-1/8-5/32-U

Push-in fittings, 1/4 NPT, pneumatic connection underneath, external hex

		Pneumatic connection, port 1	Pneumatic connection, port 2	Part no.	Туре
		Male thread 1/4 NPT	For tubing outside diameter of 5/32"	567772	QB-1/4-5/32-U
	<u>E</u>		For tubing outside diameter of 3/16"	533275	QB-1/4-3/16-U
		For tubing outside diameter of 1/4"	★ 533276	QB-1/4-1/4-U	
L			For tubing outside diameter of 5/16"	★ 533277	QB-1/4-5/16-U

Push-in fittings, 1/2 NPT, pneumatic connection underneath, external hex

Pneumatic connection, port 1	Pneumatic connection, port 2	Part no.	Туре
Male thread 1/2 NPT	For tubing outside diameter of 3/8"	★ 533283	QB-1/2-3/8-U
	For tubing outside diameter of 1/2"	★ 533284	QB-1/2-1/2-U

Push-in fittings, 1/8 NPT, pneumatic connection underneath, internal hex

Pneumatic connection, port 1	Pneumatic connection, port 2	Packaging unit [units]	Part no.	Туре
Male thread 1/8 NPT	For tubing outside di- ameter of 5/32"	10	572317	QB-1/8-5/32-I-U
	For tubing outside di- ameter of 3/16"		572315	QB-1/8-3/16-I-U
	For tubing outside di- ameter of 1/4"		★ 572318	QB-1/8-1/4-I-U
	For tubing outside di- ameter of 5/16"		572319	QB-1/8-5/16-I-U

Push-in fittings, 1/4 NPT, pneumatic connection underneath, internal hex (short version)

	Pneumatic connection, port 1	Pneumatic connection, port 2	Packaging unit [units]	Part no.	Туре
5	Male thread 1/4 NPT	For tubing O.D. 1/8"	10	572306	QBM-1/4-1/8-U

Push-in fittings, 1/4 NPT, pneumatic connection underneath, internal hex

Pneumatic connection, port 1	Pneumatic connection, port 2	Packaging unit [units]	Part no.	Туре
Male thread 1/4 NPT	For tubing outside di- ameter of 1/4"	10	★ 572320	QB-1/4-1/4-I-U
	For tubing outside di- ameter of 5/16"		572321	QB-1/4-5/16-I-U
	For tubing outside di- ameter of 3/8"		572322	QB-1/4-3/8-I-U

Accessories

Push-in fittings, 1/2 NPT, pneumatic connection underneath, internal hex Pneumatic connection, port 2 Packaging unit [units] Part no. Type Image: Straig of the straig o

Push-in fittings, 1/8 NPT, pneumatic connection at the side, internal hex

Pneumatic connection, port 1	Pneumatic connection, port 2	Packaging unit [units]	Part no.	Туре
Male thread 1/8 NPT	For tubing outside di- ameter of 5/32"	10	572317	QB-1/8-5/32-I-U
	For tubing outside di- ameter of 1/4"		★ 572318	QB-1/8-1/4-I-U

Push-in fittings, 1/4 NPT, pneumatic connection at the side, internal hex

	Pneumatic connection, port 1	Pneumatic connection, port 2	Packaging unit [units]	Part no.	Туре
Male thread 1/4 NPT		For tubing outside di- ameter of 1/4"	10	★ 572320	QB-1/4-1/4-I-U
E Market		For tubing outside di- ameter of 5/16"		572321	QB-1/4-5/16-I-U
	For tubing outside di- ameter of 3/8"			572322	QB-1/4-3/8-I-U

Push-in fittings, 1/2 NPT, pneumatic connection at the side, internal hex

Pneumatic connection, port 2		Packaging unit [units]	Part no.	Туре
	For tubing outside diameter of 1/2"	10	572326	QB-1/2-1/2-I-U

Silencer, 1/8 NPT and 1/4 NPT, pneumatic connection underneath

Pneumatic connection	Material screwed plug	Material shock absorb- er insert	Part no.	Туре
1/8 NPT 1/4 NPT	Aluminium	PE		U-1/8-B-NPT U-1/4-B-NPT

Silencer, 1/2 NPT, pneumatic connection underneath

	Pneumatic con- nection	Material screwed plug	Material shock absorber insert	Material housing	Part no.	Туре
OT THE	1/2 NPT	Aluminium	PE	Aluminium	12741	U-1/2-B-NPT

Silencer, 1/8 NPT and 1/4 NPT, pneumatic connection at the side

	Pneumatic connection	Material screwed plug	Material shock absorb- er insert	Part no.	Туре
	1/8 NPT	Aluminium	PE	12638	U-1/8-B-NPT
(Fei	1/4 NPT			12639	U-1/4-B-NPT

Silencer, 1/2 NPT, pneumatic connection at the side

,,, _,, _		Material screwed plug	Material shock absorb- er insert	Part no.	Туре
	1/2 NPT	Aluminium	PE	12741	U-1/2-B-NPT

I

Accessories

	Proximity switch, outlet orientation longitudinal connection				
		Cable length	Part no.	Туре	
1	Λ	0.3 m	173212	SME-10-SL-LED-24	
		2.5 m	173210	SME-10-KL-LED-24	

Blanking plug with sealing ring, internal hex

Pneumatic connection, port 1	Packaging unit [units]	Part no.	Туре
NPT1/8-27	1	173985	B-1/8-NPT
NPT1/4-18		174165	B-1/4-NPT
NPT1/2-14		31785	B-1/2-NPT