# On/off valve, pneumatic HEP

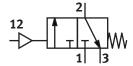
# **FESTO**



#### On/off valve, pneumatic HEP

#### Characteristics

#### At a glance



 $\label{lem:pressurising} Pneumatically \ actuated \ on/off \ valve \ for \ pressurising \ and \ exhausting \ pneumatic \ systems.$ 

The valve can be used as an individual device or in combination with other modules from the D series.

#### Version

[D] D series, metal

Sturdy in full metal design for the specific requirements of the process automation industry

# Type code

001	Series						
HEP	On/off valve						
002	Pneumatic connection						
	None						
1/8	Female thread G1/8						
1/4	Female thread G1/4						
3/8	Female thread G3/8						
1/2	Female thread G1/2						
3/4	Female thread G3/4						
1	Female thread G1						

003	Version			
D	D series, metal			
004	Size			
MINI	Grid dimension 40 mm (without connecting plates)			
MIDI Grid dimension 55 mm (without connecting plates)				
MAXI	Grid dimension 66 mm (without connecting plates)			

#### Datasheet

General technical data								
Size	Grid dimension 40 mm (without connecting plates)	Grid dimension 55 mm (without connecting plates)	Grid dimension 66 mm (without connecting plates)					
Pneumatic connection, port 1 1)	G1/8, G1/4, G3/8	G1/4, G3/8, G1/2, G3/4	G1/2, G3/4, G1					
Pneumatic connection, port 2 2)	G1/8, G1/4, G3/8	G1/4, G3/8, G1/2, G3/4	G1/2, G3/4, G1					
Pneumatic connection, port 3	G1/8	G1/4	G3/8					
Pilot air port 12	G1/8							
Design	Piston gate valve							
Type of actuation	Pneumatic							
Type of mounting	In-line installation							
	With accessories							
Mounting position	optional							
Air purity class at output	Compressed air to ISO 8573-1:2010 [7:4:4], Ine	rt gases						
Valve function	3/2-way, closed, monostable							
Exhaust-air function	Without flow control option							
Type of reset	Mechanical spring							
Manual override	None							
Sealing principle	Soft							
Flow direction	Non-reversible							

Characteristic flow rate										
Pneumatic connection, port 1	G1/8	G1/4	G1/4		G3/8		G1/2		G3/4	
Pneumatic connection, port 3	G1/8		G1/4	G1/8	G1/4		G3/8	G1/4	G3/8	
Standard nominal flow rate (standardised to DIN 1343) <sup>1)</sup>	1,000 l/min	1,500 l/min	2,600 l/min	1,600 l/min	3,500 l/min	3,900 l/min	5,600 l/min	4,100 l/min	6,000 l/min	6,500 l/min
C value	4.3 l/sbar	7.2 l/sbar	10.1 l/sbar	7.7 l/sbar	15.5 l/sbar	16.6 l/sbar	24.2 l/sbar	16.2 l/sbar	28 l/sbar	27.6 l/sbar
b value	0.48	0.34	0.46	0.3	0.33	0.4	0.3	0.47	0.32	

<sup>1)</sup> Measured at p1 = 6 bar and p2 = 5 bar,  $\Delta$ p = 1 bar.

#### Operating and environmental conditions

Operating pressure	0 1.6 MPa
Operating pressure	0 16 bar
Pilot pressure	3 16 bar
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4], Inert gases
Note on operating and pilot	Lubricated operation possible (in which case lubricated operation will always be required)
medium	
Ambient temperature	-10 60°C
Media temperature	-10 60°C
Corrosion resistance class CRC <sup>1)</sup>	2 - Moderate corrosion stress

<sup>1)</sup> More information: www.festo.com/x/topic/crc

#### Materials

Material housing	Die-cast aluminium
Material seals	NBR
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364-B1/B2-L

#### Dimensions

# Dimensions – With sub-bases with threaded connection, without sub-bases Download CAD data www.festo.com B1 B3 B3 B3 B4 T1 Threaded connection for auxiliary pilot air (12) Threaded bolt (exchangeable)

	B1	B2	В3	В4	B5	D1	D2 Ø	D3	D4 Ø	D5	D6	H1	H2	L1	L2	T1	T2									
HEP-1/8-D-MINI	64					G1/8																				
HEP-1/4-D-MINI	04	52	40	30	_	G1/4	_	M4	24	16	G1/8	20	11	73,8	11	7	-									
HEP-3/8-D-MINI	70		40	30		G3/8		1414	24	16	01/6			/ 5,0	11											
HEP-D-MINI	-	-			5,8	_	11					_	_			_	10									
HEP-1/4-D-MIDI						G1/4																				
HEP-3/8-D-MIDI	85	70			_	G3/8	_					32	22			8	_									
HEP-1/2-D-MIDI	85   70	85   70	83   70	83   70	85 / 70	'0	70	70	70	70	70	55	43	G1/2	G1/2	_	M5	5 34	32	G1/4		22	94,6	14		_
HEP-3/4-D-MIDI						G3/4																				
HEP-D-MIDI	_	-			6,8	_	24					_	_		ĺ	_	11									
HEP-1/2-D-MAXI	96	80				G1/2						32														
HEP-3/4-D-MAXI	96	80	66	46	_	G3/4	_	M5	38	16	G3/8	32	22	05.6	16	8	-									
HEP-1-D-MAXI	116	91	06	46		G1		11/12	38	10	8/60	40		95,6	10											
HEP-D-MAXI	-	1			6,8	_	30					-	-			-	11									

<sup>1)</sup> Note: This product complies with ISO 1179-1 and ISO 228-1.

### On/off valve, pneumatic HEP

# Ordering data

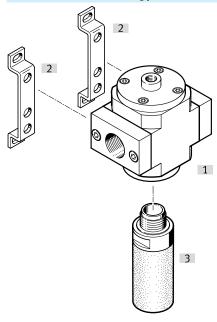
Ordering data								
Size	Pneumatic connection, port 1 1)	Pneumatic connection, port 2 2)	Pneumatic connection, port 3	Product weight	Part no.	Туре		
Grid dimension 40			G1/8	223 g	193242	HEP-D-MINI		
$mm \ (without \ connect-$	G1/8	G1/8			193243	HEP-1/8-D-MINI		
ing plates)	G1/4	G1/4			193244	HEP-1/4-D-MINI		
	G3/8	G3/8			193245	HEP-3/8-D-MINI		
Grid dimension 55			G1/4	500 g	193249	HEP-D-MIDI		
$mm \ (without \ connect-$	G1/4	G1/4	-				193250	HEP-1/4-D-MIDI
ing plates)	G3/8	G3/8				193251	HEP-3/8-D-MIDI	
	G1/2	G1/2			193252	HEP-1/2-D-MIDI		
	G3/4	G3/4			193253	HEP-3/4-D-MIDI		
Grid dimension 66				800 g	193257	HEP-D-MAXI		
mm (without connect-	G1/2	G1/2	G3/8		193258	HEP-1/2-D-MAXI		
ing plates)	G3/4	G3/4	1		193259	HEP-3/4-D-MAXI		
	G1	G1	1		193260	HEP-1-D-MAXI		

<sup>1)</sup> Connecting plates

<sup>2)</sup> Connecting plates

# Peripherals

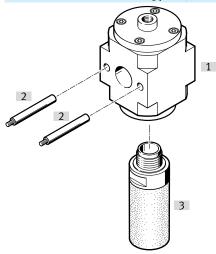
#### Individual unit with connecting plates



Access	Accessories					
	Type/order code	Description				
[1]	On/off valve HEP		S hep-d			
[2]	Mounting bracket HFOE		9			
[3]	Silencer U		9			

## Peripherals

#### Individual unit without connecting plates, for service unit combination



Accessories					
	Type/order code	Description			
[1]	On/off valve HEP		${\mathscr S}$ hep-d		
[2]	Threaded bolt FRB	Included in the scope of delivery	9		
[3]	Silencer U		9		

#### Accessories

Mounting bracket HFOE									
	Corrosion resistance class CRC <sup>1)</sup>	LABS (PWIS) conformity	Part no.	Туре					
G	2 - Moderate corrosion stress	VDMA24364-B2-L	159593	HFOE-D-MIDI/MAXI					
		VDMA24364-B1/B2-L	159638	HFOE-D-MINI					

<sup>1)</sup> More information: www.festo.com/x/topic/crc

Silencer U						
	Pneumatic con- nection	Flow rate to at- mosphere	Sound pressure level	Product weight	Part no.	Туре
	G1/8	1,340 l/min	74 dB(A)	8 g	6841	U-1/8-B
	G1/4	2,440 l/min	80 dB(A)	17 g	6842	U-1/4-B
	G3/8	5,800 l/min		37 g	6843	U-3/8-B
	G1/2	7,500 l/min	81 dB(A)	75 g	6844	U-1/2-B
	G3/4	10,000 l/min	83 dB(A)	120 g	6845	U-3/4-B
	G1	17,500 l/min	85 dB(A)	233 g	151990	U-1-B

Threaded bolt FRB						
	Size	Part no.	Туре			
	Grid dimension 40 mm (without sub-bases)	159642	FRB-D-MINI			
	Grid dimension 55 mm (without sub-bases)	159595	FRB-D-MIDI			
	Grid dimension 66 mm (without sub-bases)	159643	FRB-D-MAXI			

Padlock LRVS-D								
	Corrosion resist- ance class CRC <sup>1)</sup>	LABS (PWIS) con- formity	Note on materials	Product weight	Part no.	Туре		
	2 - Moderate corrosion stress	VDMA24364-B1/ B2-L	RoHS-compliant	120 g	193786	LRVS-D		

<sup>1)</sup> More information: www.festo.com/x/topic/crc