

On-off/soft-start valves HE/HEE/HEP/HEL, D series

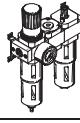
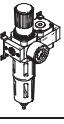
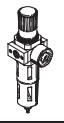
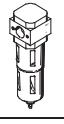
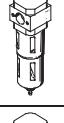
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On-off/soft-start valves HE/HEE/HEP/HEL, D series, metal design

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Product range overview D series service units, metal design

Type	Size	Pneumatic connection										Pressure regulation range [bar]			Grade of filtration [μm]								
		M5	M7	G $\frac{1}{8}$	G $\frac{1}{4}$	G $\frac{3}{8}$	G $\frac{1}{2}$	G $\frac{3}{4}$	G1	QS4	QS6	0.5	0.5	2.5	...	12	12	0.01	1	5	40		
Service units																							
FRC/FRCS		Micro	■	■	■	—	—	—	—	■	■	■	—	—	—	—	—	—	■	—	—	—	
		Mini	—	—	■	■	■	—	—	—	—	—	■	■	—	—	—	■	■	■	■	■	
		Midi	—	—	—	■	■	■	—	—	—	—	■	■	—	—	—	■	■	■	■	■	
		Maxi	—	—	—	—	—	■	■	■	■	—	—	■	■	—	—	■	■	■	■	■	
Service unit combinations																							
FRC-K		Micro	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Mini	—	—	■	■	■	—	—	—	—	—	■	■	■	—	—	■	■	—	—	■	■
		Midi	—	—	—	■	■	■	■	—	—	—	—	■	■	■	—	—	■	■	—	—	■
		Maxi	—	—	—	—	—	■	■	■	■	—	—	■	■	■	—	—	■	■	—	—	■
LFR-K LFRS-K		Micro	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Mini	—	—	■	■	■	—	—	—	—	—	■	■	■	—	—	■	■	—	—	■	■
		Midi	—	—	—	■	■	■	■	—	—	—	—	■	■	■	—	—	■	■	—	—	■
		Maxi	—	—	—	—	—	■	■	■	■	—	—	■	■	■	—	—	■	■	—	—	■
Individual devices																							
Filter regulators LFR/LFRS		Micro	■	■	■	—	—	—	—	■	■	■	—	—	—	—	—	—	■	—	—	—	—
		Mini	—	—	■	■	■	■	—	—	—	—	■	■	■	—	—	■	■	—	—	■	■
		Midi	—	—	—	■	■	■	■	—	—	—	—	■	■	■	—	—	■	■	—	—	■
		Maxi	—	—	—	—	—	■	■	■	■	—	—	■	■	■	—	—	■	■	—	—	■
Filters LF		Micro	■	■	■	—	—	—	—	■	■	■	—	—	—	—	—	—	■	—	—	—	—
		Mini	—	—	■	■	■	■	—	—	—	—	—	—	—	—	—	—	■	—	—	■	■
		Midi	—	—	—	■	■	■	■	—	—	—	—	—	—	—	—	—	■	—	—	■	■
		Maxi	—	—	—	—	—	■	■	■	■	—	—	—	—	—	—	—	■	—	—	■	■
Fine and micro filters LFMA/LFMB		Micro	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	■	■	—	—	—
		Mini	—	—	■	■	■	■	—	—	—	—	—	—	—	—	—	—	■	■	—	—	—
		Midi	—	—	—	■	■	■	■	—	—	—	—	—	—	—	—	—	■	■	—	—	—
		Maxi	—	—	—	—	—	■	■	■	■	—	—	—	—	—	—	—	■	■	—	—	—
Active carbon filters LFX		Micro	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Mini	—	—	■	■	■	■	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Midi	—	—	—	■	■	■	■	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Maxi	—	—	—	—	—	■	■	■	■	—	—	—	—	—	—	—	—	—	—	—	—
Filter combinations LFMBA		Micro	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	■	■	—	—	—
		Mini	—	—	■	■	■	■	■	—	—	—	—	—	—	—	—	—	■	■	—	—	—
		Midi	—	—	—	■	■	■	■	■	—	—	—	—	—	—	—	—	■	■	—	—	—
		Maxi	—	—	—	—	—	■	■	■	■	■	—	—	—	—	—	■	■	■	—	—	—
Pressure regulators LR/LRS		Micro	■	■	■	—	—	—	—	—	—	—	■	■	■	—	—	—	—	—	—	—	—
		Mini	—	—	■	■	■	■	■	—	—	—	—	—	—	—	—	—	■	■	—	—	—
		Midi	—	—	—	■	■	■	■	■	—	—	—	—	—	—	—	—	■	■	—	—	—
		Maxi	—	—	—	—	—	■	■	■	■	■	—	—	—	—	—	■	■	■	—	—	—

On-off/soft-start valves HE/HEE/HEP/HEL, D series, metal design

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Product range overview D series service units, metal design

Type	Size	Bowl guard	Condensate drain		Pressure indication		Actuator lock	Supply voltage		Options			➔ Page/ Internet		
		Metal bowl guard	Plastic bowl	Manual rotary	Semi-automatic	Fully automatic	With pressure gauge	Without pressure gauge	Rotary knob with detent	Rotary knob with integrated lock	24 V DC	110 V AC	230 V AC		
Service units															
FRC/FRCS	Micro	-	■	■	■	■	-	■	■	■	-	-	-	-	frc
	Mini	■	-	■	-	■	■	■	■	■	-	-	-	-	
	Midi	■	-	■	-	■	■	■	■	■	-	-	-	-	
	Maxi	■	-	■	-	■	■	■	■	■	-	-	-	■	
Service unit combinations															
FRC-K	Micro	-													frc
	Mini	■	-	■	-	■	■	-	■	-	■	-	-	-	
	Midi	■	-	■	-	■	■	-	■	-	■	-	-	-	
	Maxi	■	-	■	-	■	■	-	■	-	■	-	-	■	
LFR-K	Micro	-													lfr
	Mini	■	-	■	-	■	■	-	■	■	■	-	-	-	
	Midi	■	-	■	-	■	■	-	■	■	■	-	-	-	
	Maxi	■	-	■	-	■	■	-	■	■	■	-	-	■	
Individual devices															
Filter regulators	Micro	-	■	■	■	■	-	■	■	■	-	-	-	-	lfr
	Mini	■	-	■	-	■	■	■	■	■	-	-	-	-	
	Midi	■	-	■	-	■	■	■	■	■	-	-	-	-	
	Maxi	■	-	■	-	■	■	■	■	■	-	-	-	■	
LFR/LFRS	Micro	-													
	Mini	■	-	■	-	■	■	-	■	■	■	-	-	-	
	Midi	■	-	■	-	■	■	-	■	■	■	-	-	-	
	Maxi	■	-	■	-	■	■	-	■	■	■	-	-	■	
Filters LF	Micro	-	■	■	■	■	-	-	-	-	-	-	-	-	lf
	Mini	■	-	■	-	■	-	-	-	-	-	-	-	-	
	Midi	■	-	■	-	■	-	-	-	-	-	-	-	-	
	Maxi	■	-	■	-	■	-	-	-	-	-	-	-	-	
Fine and micro filters LFMA/LFMB	Micro	-													lfma, lfmb
	Mini	■	-	■	-	■	-	-	-	-	-	-	-	-	
	Midi	■	-	■	-	■	-	-	-	-	-	-	-	■	
	Maxi	■	-	■	-	■	-	-	-	-	-	-	-	■	
Active carbon filters LFX	Micro	-													lfx
	Mini	■	-	-	-	-	-	-	-	-	-	-	-	-	
	Midi	■	-	-	-	-	-	-	-	-	-	-	-	-	
	Maxi	■	-	-	-	-	-	-	-	-	-	-	-	-	
Filter combinations LFMBA	Micro	-													lfmba
	Mini	■	-	■	-	■	-	■	-	■	-	-	-	■	
	Midi	■	-	■	-	■	-	■	-	■	-	-	-	■	
	Maxi	■	-	■	-	■	-	■	-	■	-	-	-	■	
Pressure regulators LR/LRS	Micro	-	-	-	-	-	■	■	■	■	-	-	-	-	lr
	Mini	-	-	-	-	-	■	■	■	■	-	-	-	■	
	Midi	-	-	-	-	-	■	■	■	■	-	-	-	■	
	Maxi	-	-	-	-	-	■	■	■	■	-	-	-	■	

On-off/soft-start valves HE/HEE/HEP/HEL, D series, metal design

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Product range overview D series service units, metal design

Type	Size	Pneumatic connection										Pressure regulation range [bar]	
		M5	M7	G1/8	G1/4	G3/8	G1/2	G3/4	G1	QS4	QS6	0.5	0.5
												0.5	0.5
Individual devices													
Pressure regulators LRB/LRBS		Micro	—										
		Mini	—	—	—	■	—	—	—	—	—	■	■
		Midi	—	—	—	—	■	—	—	—	—	■	■
		Maxi	—										
Pressure regulator combinations LRB-K		Micro	—										
		Mini	—	—	—	■	■	—	—	—	—	■	■
		Midi	—	—	—	—	■	■	—	—	—	■	■
		Maxi	—										
Lubricators LOE		Micro	■	■	■	—	—	—	—	■	■	—	—
		Mini	—	—	■	■	■	—	—	—	—	—	—
		Midi	—	—	—	■	■	■	■	—	—	—	—
		Maxi	—	—	—	—	—	■	■	■	—	—	—
On-off valves HE		Micro	—										
		Mini	—	—	■	■	■	—	—	—	—	—	—
		Midi	—	—	—	■	■	■	■	—	—	—	—
		Maxi	—	—	—	—	—	■	■	■	—	—	—
On-off valves, electrical HEE		Micro	—										
		Mini	—	—	■	■	■	—	—	—	—	—	—
		Midi	—	—	—	■	■	■	■	—	—	—	—
		Maxi	—	—	—	—	—	■	■	■	—	—	—
On-off valves, pneumatic HEP		Micro	—										
		Mini	—	—	■	■	■	—	—	—	—	—	—
		Midi	—	—	—	■	■	■	■	—	—	—	—
		Maxi	—	—	—	—	—	■	■	■	■	—	—
Soft-start valves HEL		Micro	—										
		Mini	—	—	■	■	■	—	—	—	—	—	—
		Midi	—	—	—	■	■	■	■	—	—	—	—
		Maxi	—	—	—	—	—	■	■	■	■	—	—
Membrane air dryers LDM1		Micro	—										
		Mini	—										
		Midi	—										
		Maxi	—	—	—	—	—	■	■	■	■	—	—
Branching modules FRM		Micro	—										
		Mini	—	—	■	■	■	—	—	—	—	—	—
		Midi	—	—	—	■	■	■	■	—	—	—	—
		Maxi	—	—	—	—	—	■	■	■	■	—	—
Distributor block FRZ		Micro	—	—	—	—	—	—	—	—	—	—	—
		Mini	—	—	—	—	—	—	—	—	—	—	—
		Midi	—	—	—	—	—	—	—	—	—	—	—
		Maxi	—	—	—	—	—	—	—	—	—	—	—

On-off/soft-start valves HE/HEE/HEP/HEL, D series, metal design

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Product range overview D series service units, metal design

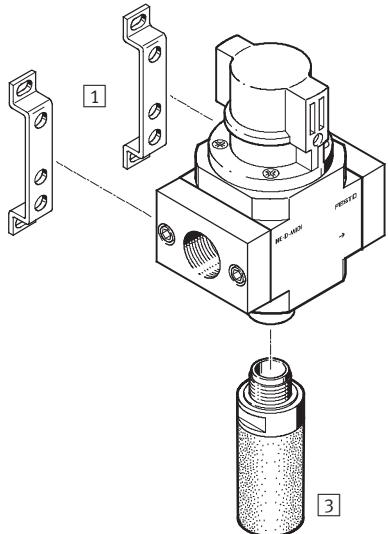
Type	Size	Bowl guard		Pressure indication		Actuator lock		Supply voltage			Options		➔ Page/ Internet
		Metal bowl guard	Plastic bowl	With pressure gauge	Without pressure gauge	Rotary knob with detent	Rotary knob with integrated lock	24 V DC	110 VAC	230 VAC	Non-return function	Pressure switch	
Individual devices													
Pressure regulators LRB/LRBS	Micro	–											lrb
	Mini	–	–	–	■	■	■	–	–	–	–	–	
	Midi	–	–	–	■	■	■	–	–	–	–	–	
	Maxi	–	–										
Pressure regulator combinations LRB-K	Micro	–											lrb
	Mini	–	–	–	■	■	–	–	–	–	–	–	
	Midi	–	–	–	■	■	–	–	–	–	–	–	
	Maxi	–	–										
Lubricators LOE	Micro	–	■	–	■	–	–	–	–	–	–	–	loe
	Mini	■	–	–	■	–	–	–	–	–	–	–	
	Midi	■	–	–	■	–	–	–	–	–	–	–	
	Maxi	■	–	–	■	–	–	–	–	–	–	–	
On-off valves HE	Micro	–											6
	Mini	–	–	–	■	■	–	–	–	–	–	–	
	Midi	–	–	–	■	■	–	–	–	–	–	–	
	Maxi	–	–	–	■	■	–	–	–	–	–	–	
On-off valves, electrical HEE	Micro	–											11
	Mini	–	–	–	■	–	–	■	■	■	–	–	
	Midi	–	–	–	■	–	–	■	■	■	–	–	
	Maxi	–	–	–	■	–	–	■	■	■	–	–	
On-off valves, pneumatic HEP	Micro	–											17
	Mini	–	–	–	■	–	–	–	–	–	–	–	
	Midi	–	–	–	■	–	–	–	–	–	–	–	
	Maxi	–	–	–	■	–	–	–	–	–	–	–	
Soft-start valves HEL	Micro	–											22
	Mini	–	–	–	■	–	–	–	–	–	–	–	
	Midi	–	–	–	■	–	–	–	–	–	–	–	
	Maxi	–	–	–	■	–	–	–	–	–	–	–	
Membrane air dryers LDM1	Micro	–											ldm1
	Mini	–											
	Midi	–											
	Maxi	■	–	–	■	–	–	–	–	–	–	–	
Branching modules FRM	Micro	–											frm
	Mini	–	–	–	■	–	–	–	–	–	■	■	
	Midi	–	–	–	■	–	–	–	–	–	■	■	
	Maxi	–	–	–	■	–	–	–	–	–	■	■	
Distributor block FRZ	Micro	–	–	–	■	–	–	–	–	–	–	–	frz
	Mini	–	–	–	■	–	–	–	–	–	–	–	
	Midi	–	–	–	■	–	–	–	–	–	–	–	
	Maxi	–	–	–	■	–	–	–	–	–	–	–	

On-off valves HE, D series, metal design

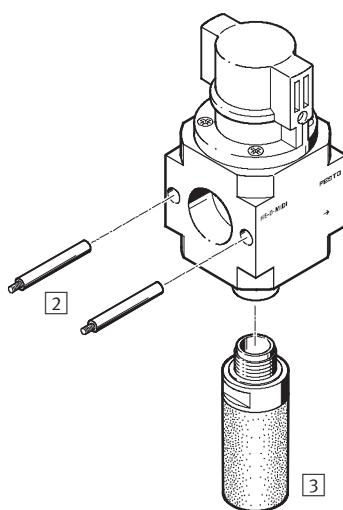
Peripherals overview and Type codes

Mini/Midi/Maxi

Individual unit with connection plates



Individual unit without connection plates, for service unit combination



Mounting attachments and accessories

	Individual unit		Combination		➔ Page/ Internet
	with connection plates	without connection plates	with connection plates	without connection plates	
[1] Mounting bracket HFOE	■	—	■	—	hfoe-d
[2] Threaded pin (included in scope of delivery) FRB	—	—	■	■	frb-d
[3] Silencer U	■	■	■	■	27

HE — $\frac{1}{4}$ — D — MIDI

Basic function

HE On-off valve, manual

Pneumatic connection

1/8	Thread G1/8
1/4	Thread G1/4
3/8	Thread G3/8
1/2	Thread G1/2
3/4	Thread G3/4
1	Thread G1

Series

D Series

Size

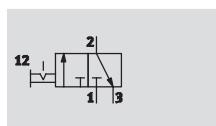
MINI	Grid dimension 40 mm (without connecting plates)
MIDI	Grid dimension 55 mm (without connecting plates)
MAXI	Grid dimension 66 mm (without connecting plates)

On-off valves HE, D series, metal design

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Technical data

Function



Flow rate

1,000 ... 6,500 l/min

Temperature range

-10 ... +60 °C

Pressure

0 ... 16 bar



- 3/2-way manual shut-off valve
- The unit is vented when switched off
- Ducted exhaust possible via a threaded connection

- The switching position is immediately recognisable
- Commercially available padlock can be used for security

General technical data

Size	Mini				Midi				Maxi					
Pneumatic connection 1, 2	G ¹ / ₈	G ¹ / ₄	G ³ / ₈	- ¹⁾	G ¹ / ₄	G ³ / ₈	G ¹ / ₂	G ³ / ₄	- ¹⁾	G ¹ / ₂	G ³ / ₄	G1	- ¹⁾	
Pneumatic connection 3	G ¹ / ₈				G ¹ / ₄					G ³ / ₈				
Design	Piston spool valve													
Type of mounting	Via accessories In-line installation													
Assembly position	Any													
Valve function	3/2-way valve, double solenoid													
Exhaust function	No flow control													
Direction of flow	Non-reversible													
Sealing principle	Soft													
C value	[l/(s*bar)]	4.4	7.2	7.5	-	9.9	15.7	17.0	17.3	-	23.7	26.8	25.9	-
b value		0.44	0.28	0.27	-	0.45	0.30	0.30	0.42	-	0.32	0.35	0.37	-

1) Without threaded connecting plates

Note: This product conforms to ISO 1179-1 and ISO 228-1

Standard nominal flow rate $q_{nN}^{1)}$ [l/min]

Connection	Mini			Midi				Maxi		
	G ¹ / ₈	G ¹ / ₄	G ³ / ₈	G ¹ / ₄	G ³ / ₈	G ¹ / ₂	G ³ / ₄	G ¹ / ₂	G ³ / ₄	G1
In main flow direction 1 → 2	1,000	1,500	1,600	2,600	3,200	3,600	3,800	5,600	6,000	6,500

1) Measured at p₁ = 6 bar and Δp = 1 bar.

On-off valves HE, D series, metal design

Technical data

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Operating and environmental conditions

Operating pressure [bar]	0 ... 16
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [7:4:4]
Note on operating/pilot medium	Operation with lubricated medium possible (in which case lubricated operation will always be required)
Ambient temperature [°C]	-10 ... +60
Temperature of medium [°C]	-10 ... +60
Corrosion resistance class CRC ¹⁾	2
Certification	Germanischer Lloyd

1) Corrosion resistance class 2 according to Festo standard 940 070

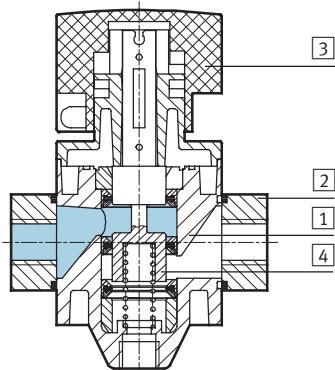
Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Weight [g]

Size	Mini	Midi	Maxi
HE	192	511	796

Materials

Sectional view



On-off valve

[1] Housing	Die-cast aluminium
[2] Connecting plates	Wrought aluminium alloy
[3] Rotary knob	PA
[4] Piston	Stainless steel
- Seals	NBR

On-off valves HE, D series, metal design

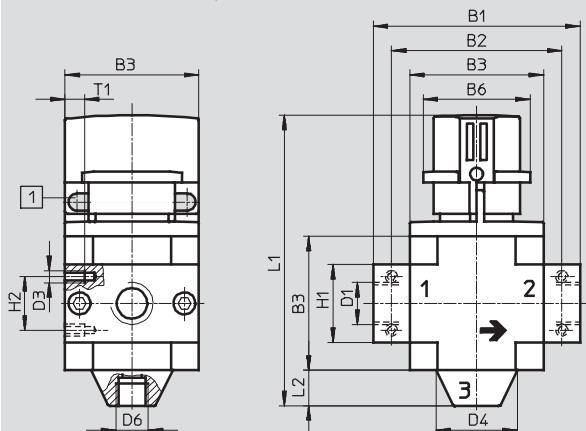
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Technical data

Dimensions

Mini/Midi/Maxi

With threaded connecting plates

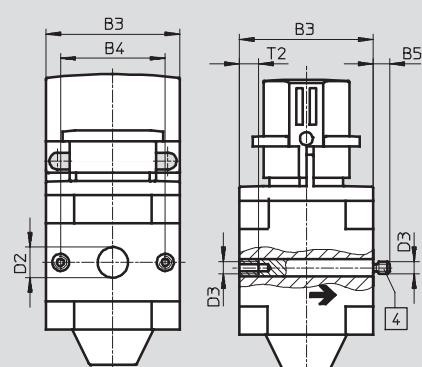


[1] Hole for locking with padlock

[4] Threaded pin (exchangeable)

Download CAD Data ➔ www.festo.com/us/cad

Without threaded connecting plates



➔ Flow direction

Type	B1	B2	B3	B4	B5	B6	D1	D2	D3	D4	D6	H1	H2	L1	L2	T1	T2	
Mini																		
HE-1/8-D-MINI	64							G1/8										
HE-1/4-D-MINI		52		40	30		—		M4	24	G1/8	20	11	100	11	7	—	
HE-3/8-D-MINI	70							G1/4										
HE-D-MINI	—	—					5.8	—	11			—	—			—	10	
Midi																		
HE-1/4-D-MIDI								G1/4										
HE-3/8-D-MIDI		85	70		55	43	—		M5	34	G1/4	32	22	121	14	8	—	
HE-1/2-D-MIDI								G3/8										
HE-3/4-D-MIDI								G1/2										
HE-D-MIDI	—	—					6.8	—	24			—	—			—	11	
Maxi																		
HE-1/2-D-MAXI		96	80		66	46	—	G1/2										
HE-3/4-D-MAXI								G3/4										
HE-1-D-MAXI	116	91						G1		M5	38	G3/8	32	22	134	16	8	—
HE-D-MAXI	—	—					6.8	—	30			40	—	—		—	11	

Note: This product conforms to ISO 1179-1 and ISO 228-1

On-off valves HE, D series, metal design

Technical data

FESTO

Ordering data

3/2-way valve, operating pressure 0 ... 16 bar, normally closed

Size	Part No.	Type
Without threaded connecting plates		
Mini	170681	HE-D-MINI
Midi	170682	HE-D-MIDI
Maxi	170683	HE-D-MAXI

Ordering data

3/2-way valve, operating pressure 0 ... 16 bar, normally closed

Size	Connection	Part No.	Type
With threaded connecting plates			
Mini	G1/8	162806	HE-1/8-D-MINI
	G1/4	162807	HE-1/4-D-MINI
	G3/8	162808	HE-3/8-D-MINI
Midi	G1/4	186513	HE-1/4-D-MIDI
	G3/8	162809	HE-3/8-D-MIDI
	G1/2	162810	HE-1/2-D-MIDI
	G3/4	162811	HE-3/4-D-MIDI
Maxi	G1/2	186514	HE-1/2-D-MAXI
	G3/4	162812	HE-3/4-D-MAXI
	G1	162813	HE-1-D-MAXI

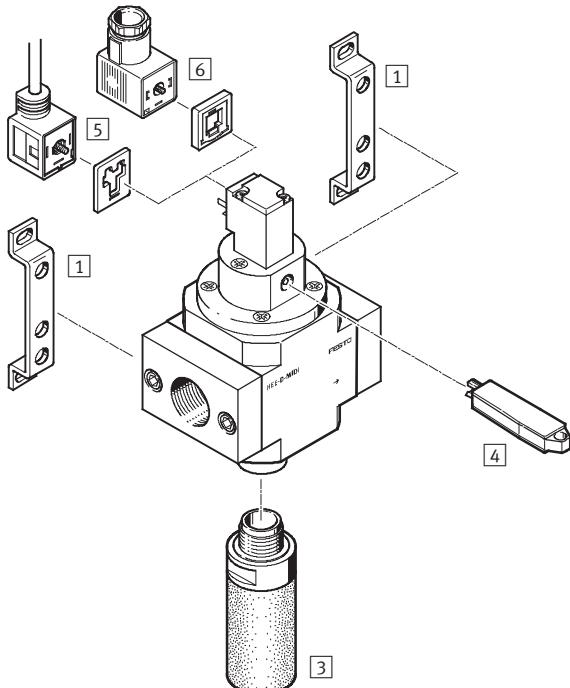
On-off valves HEE, D series, metal design

FESTO

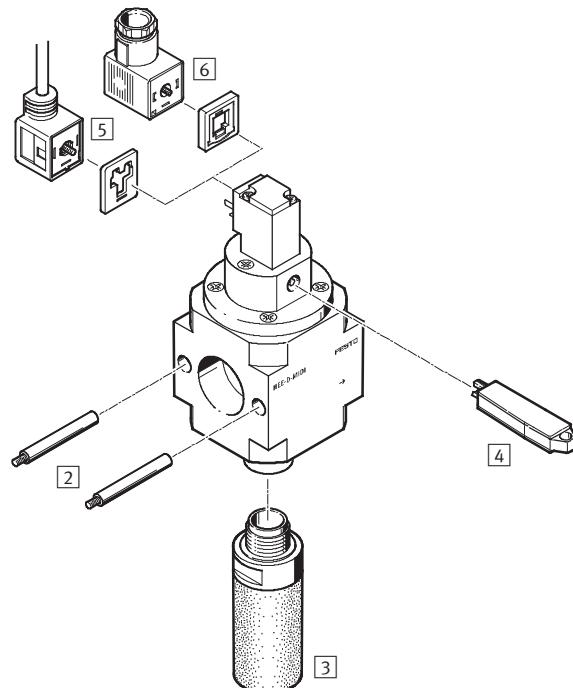
Peripherals overview

Mini/Midi/Maxi

Individual unit with connection plates



Individual unit without connection plates, for service unit combination



Mounting attachments and accessories

	Individual unit		Combination		➔ Page/ Internet
	with connection plates	without connection plates	with connection plates	without connection plates	
[1] Mounting bracket HFOE	■	—	■	—	hfoe-d
[2] Threaded pin (included in scope of delivery) FRB	—	—	■	■	frb-d
[3] Silencer U	■	■	■	■	27
[4] Manual override tool, non-detenting AHB-MD/MF/MY	■	■	■	■	—
[5] Plug socket with cable KMEB-1	■	■	■	■	27
[6] Plug socket MSSD-EB	■	■	■	■	27

On-off valves HEE, D series, metal design

Type codes

FESTO

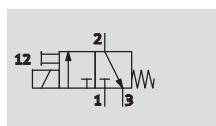
HEE	-	1/4	-	D	-	MIDI	-	110
Basic function								
HEE	On-off valve, electrical							
Pneumatic connection								
1/8	Without threaded connecting plates							
1/4	Thread G1/8							
3/8	Thread G1/4							
1/2	Thread G3/8							
3/4	Thread G1/2							
1	Thread G3/4							
1	Thread G1							
Series								
D	Series							
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)							
Voltage								
24	Supply voltage 24 V DC							
110	Supply voltage 110 V AC							
230	Supply voltage 230 V AC							

On-off valves HEE, D series, metal design

FESTO

Technical data

Function



Flow rate

1,000 ... 6,500 l/min

Temperature range

-10 ... +60 °C

Pressure

2.5 ... 16 bar



- Electrical on-off valve for pressurising and venting pneumatic installations
- With solenoid coil without plug socket

- Three voltage ranges can be selected
- Ducted exhaust possible via a threaded connection with silencer

- Manual override via pushing and detenting (using override tool AHB-MD/MF/MV)

- Solenoid head can be repositioned by 4 x 90°

General technical data

Size	Mini				Midi					Maxi			
Pneumatic connection 1, 2	G1/8	G1/4	G3/8	- ¹⁾	G1/4	G3/8	G1/2	G3/4	- ¹⁾	G1/2	G3/4	G1	- ¹⁾
Pneumatic connection 3	G1/8				G1/4					G3/8			
Design	Piston spool valve												
Type of mounting	Via accessories In-line installation												
Assembly position	Any												
Valve function	3/2-way valve, single solenoid												
Exhaust function	No flow control												
Type of reset	Mechanical spring												
Type of control	Piloted												
Pilot air supply	Internal												
Direction of flow	Non-reversible												
Sealing principle	Soft												
C value [l/(s*bar)]	4.4	7.0	7.3	-	9.7	15.7	17.0	17.3	-	24.2	28.0	27.6	-
b value	0.44	0.31	0.28	-	0.47	0.33	0.30	0.41	-	0.30	0.32	0.32	-

1) Without threaded connecting plates

Note: This product conforms to ISO 1179-1 and ISO 228-1

Electrical data

Coil characteristics	24	24 V DC: 3.0 W; perm. voltage fluctuations ±10%
	110	110 V AC: 50/60 Hz; pick-up power 5.0 W; holding power 3.7 W; perm. voltage fluctuations ±10%
	230	230 V AC: 50/60 Hz; pick-up power 5.0 W; holding power 3.7 W; perm. voltage fluctuations -14%/+10%
Electrical connection	Plug to EN 175301-803, type C	
Protection class for solenoid coil	IP65	
Duty cycle	[%]	100

On-off valves HEE, D series, metal design

Technical data

FESTO

Connection	Standard nominal flow rate $q_{nN}^{1)}$ [l/min]			Midi				Maxi		
	G1/8	G1/4	G3/8	G1/4	G3/8	G1/2	G3/4	G1/2	G3/4	G1
In main flow direction 1 → 2	1,000	1,500	1,600	2,600	3,200	3,600	3,800	5,600	6,000	6,500
In relief direction 2 → 3	1,000			2,000				3,000		

1) Measured at $p_1 = 6$ bar and $\Delta p = 1$ bar.

Operating and environmental conditions

Operating pressure [bar]	2.5 ... 16
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [7:4:4]
Note on operating/pilot medium	Operation with lubricated medium possible (in which case lubricated operation will always be required)
Ambient temperature [°C]	-10 ... +60
Temperature of medium [°C]	-10 ... +60
Corrosion resistance class CRC ¹⁾	2
Certification	Germanischer Lloyd (only with supply voltage 24 V DC and 110 V AC)

1) Corrosion resistance class 2 according to Festo standard 940 070

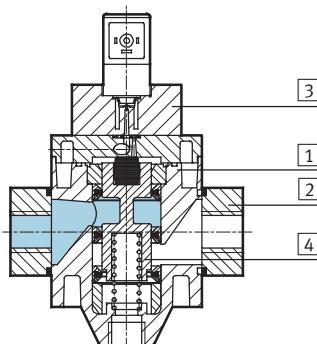
Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Weight [g]

Size	Mini	Midi	Maxi
HEE	223	500	800

Materials

Sectional view



On-off valve

[1] Housing	Die-cast aluminium
[2] Connecting plates	Wrought aluminium alloy
[3] Solenoid and intermediate plate	Polyamide
[4] Piston	Stainless steel
- Seals	Nitrile rubber

On-off valves HEE, D series, metal design

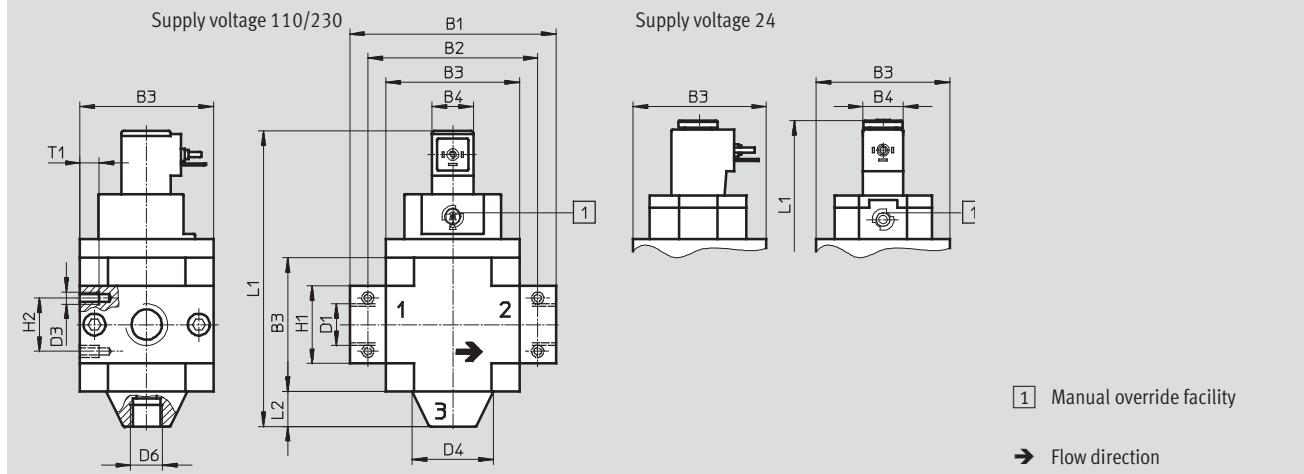
FESTO

Technical data

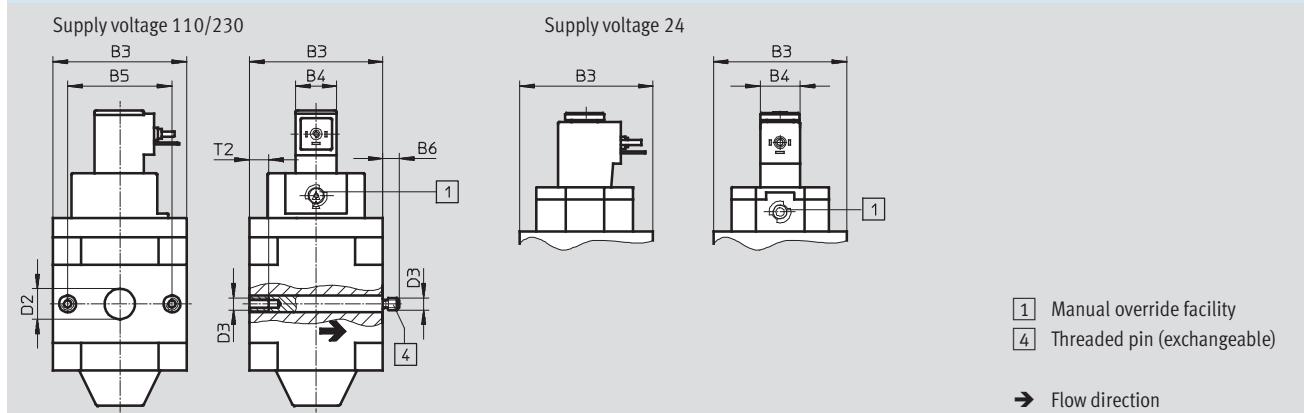
Dimensions

Mini/Midi/Maxi, with threaded connecting plates

Download CAD Data ➔ www.festo.com/us/cad



Mini/Midi/Maxi, without threaded connecting plates



Type	B1	B2	B3	B4	B5	B6	D1	D2	D3	D4	D6	H1	H2	L1	L2	T1	T2
														24	110/230		
Mini																	
HEE-1/8-D-MINI	64	52	40	17	30	-	G1/8	-	M4	24	G1/8	20	11	108	104	11	7
HEE-1/4-D-MINI							G1/4										-
HEE-3/8-D-MINI	70						G3/8										
HEE-D-MINI	-	-				5.8	-	11									-
Midi																	
HEE-1/4-D-MIDI							G1/4		M5	34	G1/4	32	22	126	122	14	8
HEE-3/8-D-MIDI		85	70	55	17	43	G3/8	-									-
HEE-1/2-D-MIDI							G1/2										
HEE-3/4-D-MIDI							G3/4										
HEE-D-MIDI	-	-					6.8	-	24								11
Maxi																	
HEE-1/2-D-MAXI	96	80	66	17	46	-	G1/2	-	M5	38	G3/8	32	22	139	135	16	8
HEE-3/4-D-MAXI							G3/4										-
HEE-1-D-MAXI	116	91					G1										
HEE-D-MAXI	-	-					6.8	-	30								11

Note: This product conforms to ISO 1179-1 and ISO 228-1

On-off valves HEE, D series, metal design

Technical data

FESTO

Ordering data					
3/2-way valve, operating pressure 2.5 ... 16 bar, normally closed					
Size	Connection	24 V DC		110 V AC	
		Part No.	Type	Part No.	Type
Without threaded connecting plates					
Mini		172956	HEE-D-MINI-24	172957	HEE-D-MINI-110
Midi		172959	HEE-D-MIDI-24	172960	HEE-D-MIDI-110
Maxi		172962	HEE-D-MAXI-24	172963	HEE-D-MAXI-110
With threaded connecting plates					
Mini	G ¹ / ₈	165068	HEE-1/8-D-MINI-24	165069	HEE-1/8-D-MINI-110
	G ¹ / ₄	165071	HEE-1/4-D-MINI-24	165072	HEE-1/4-D-MINI-110
	G ³ / ₈	165074	HEE-3/8-D-MINI-24	165075	HEE-3/8-D-MINI-110
Midi	G ¹ / ₄	186515	HEE-1/4-D-MIDI-24	186517	HEE-1/4-D-MIDI-110
	G ³ / ₈	172941	HEE-3/8-D-MIDI-24	172942	HEE-3/8-D-MIDI-110
	G ¹ / ₂	172944	HEE-1/2-D-MIDI-24	172945	HEE-1/2-D-MIDI-110
	G ³ / ₄	172947	HEE-3/4-D-MIDI-24	172948	HEE-3/4-D-MIDI-110
Maxi	G ¹ / ₂	186518	HEE-1/2-D-MAXI-24	186520	HEE-1/2-D-MAXI-110
	G ³ / ₄	172950	HEE-3/4-D-MAXI-24	172951	HEE-3/4-D-MAXI-110
	G ₁	172953	HEE-1-D-MAXI-24	172954	HEE-1-D-MAXI-110
				165070	HEE-1/8-D-MINI-230
				165073	HEE-1/4-D-MINI-230
				172940	HEE-3/8-D-MINI-230
				186516	HEE-1/4-D-MIDI-230
				172943	HEE-3/8-D-MIDI-230
				172946	HEE-1/2-D-MIDI-230
				172949	HEE-3/4-D-MIDI-230
				186519	HEE-1/2-D-MAXI-230
				172952	HEE-3/4-D-MAXI-230
				172955	HEE-1-D-MAXI-230

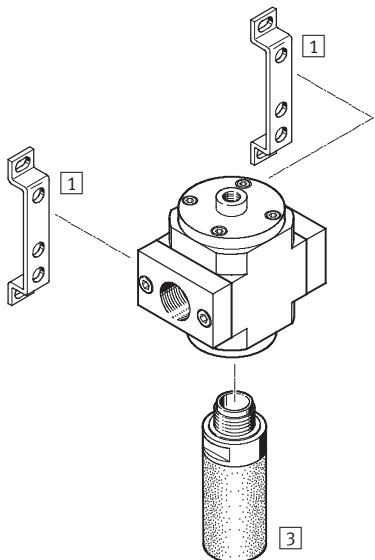
On-off valves HEP, D series, metal design

FESTO

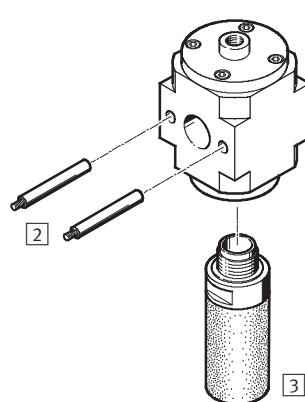
Peripherals overview and Type codes

Mini/Midi/Maxi

Individual unit with connection plates



Individual unit without connection plates, for service unit combination



Mounting attachments and accessories

	Individual unit with connection plates	Combination		➔ Page/ Internet
		without connection plates	with connection plates	
[1] Mounting bracket HFOE	■	-	■	-
[2] Threaded pin (included in scope of delivery) FRB	-	-	■	■
[3] Silencer U	■	■	■	■
				27

HEP - $\frac{1}{4}$ - D - MIDI

Basic function

HEP On-off valve, pneumatic

Pneumatic connection

1/8	Thread G $\frac{1}{8}$
1/4	Thread G $\frac{1}{4}$
3/8	Thread G $\frac{3}{8}$
1/2	Thread G $\frac{1}{2}$
3/4	Thread G $\frac{3}{4}$
1	Thread G1

Series

D Series

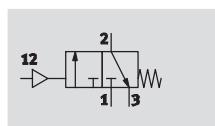
Size

MINI	Grid dimension 40 mm (without connecting plates)
MIDI	Grid dimension 55 mm (without connecting plates)
MAXI	Grid dimension 66 mm (without connecting plates)

On-off valves HEP, D series, metal design

Technical data

Function



Flow rate

800 ... 6,500 l/min

Temperature range

-10 ... +60 °C

Pressure

0 ... 16 bar



- Pneumatically actuated on-off valve for pressurising and venting pneumatic installations
- The valve can be used as a single unit or in combination with other D series modules
- These valves are particularly suitable for applications in explosion protection areas

General technical data																				
Size	Mini				Midi				Maxi											
Pneumatic connection 1, 2	G ¹ / ₈	G ¹ / ₄	G ³ / ₈	- ¹⁾	G ¹ / ₄	G ³ / ₈	G ¹ / ₂	G ³ / ₄	- ¹⁾	G ¹ / ₂	G ³ / ₄	G ¹	- ¹⁾							
Pneumatic connection 3	G ¹ / ₈				G ¹ / ₄				G ³ / ₈											
Pilot air connection 12	G ¹ / ₈																			
Design	Piston spool valve																			
Type of mounting	Via accessories In-line installation																			
Assembly position	Any																			
Valve function	3/2-way valve, single solenoid, closed																			
Exhaust function	No flow control																			
Type of actuation	Mechanical spring																			
Direction of flow	Non-reversible																			
Sealing principle	Soft																			
C value [l/(s*bar)]	4.3	7.2	7.7	-	10.1	15.5	16.6	16.2	-	24.2	28.0	27.6	-							
b value	0.48	0.34	0.30	-	0.46	0.33	0.40	0.47	-	0.30	0.32	0.32	-							

1) Without threaded connecting plates

Note: This product conforms to ISO 1179-1 and ISO 228-1

Standard nominal flow rate q _{nN} ¹⁾ [l/min]										
Connection	Mini			Midi				Maxi		
	G ¹ / ₈	G ¹ / ₄	G ³ / ₈	G ¹ / ₄	G ³ / ₈	G ¹ / ₂	G ³ / ₄	G ¹ / ₂	G ³ / ₄	G ¹
In main flow direction 1 → 2	1,000	1,500	1,600	2,600	3,500	3,900	4,100	5,600	6,000	6,500
In relief direction 2 → 3	800			1,900				2,400		

1) Measured at p₁ = 6 bar and Δp = 1 bar.

On-off valves HEP, D series, metal design

FESTO

Technical data

Operating and environmental conditions

Operating pressure	[bar]	0 ... 16
Pilot pressure	[bar]	3 ... 16
Operating medium		Compressed air in accordance with ISO 8573-1:2010 [7:4:4]
Note on operating/pilot medium		Operation with lubricated medium possible (in which case lubricated operation will always be required)
Ambient temperature	[°C]	-10 ... +60
Temperature of medium	[°C]	-10 ... +60
Corrosion resistance class CRC ¹⁾		2
Certification		Germanischer Lloyd

1) Corrosion resistance class 2 according to Festo standard 940 070

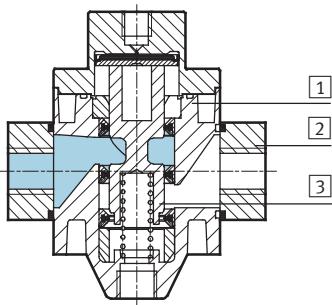
Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Weight [g]

Size	Mini	Midi	Maxi
HEP	223	500	800

Materials

Sectional view



On-off valve

[1] Housing	Die-cast aluminium
[2] Connecting plates	Wrought aluminium alloy
[3] Piston	Stainless steel
- Seals	Nitrile rubber

On-off valves HEP, D series, metal design

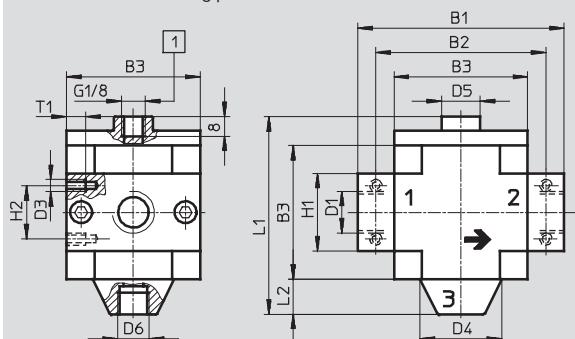
Technical data

FESTO

Dimensions

Mini/Midi/Maxi

With threaded connecting plates

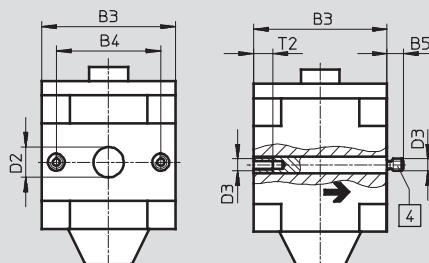


[1] Threaded connection for pilot air (12)

[4] Threaded pin (exchangeable)

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Without threaded connecting plates



➔ Flow direction

Type	B1	B2	B3	B4	B5	D1	D2	D3	D4	D5	D6	H1	H2	L1	L2	T1	T2
Mini																	
HEP-1/8-D-MINI	64	52	40	30	-	G1/8	-	M4	24	16	G1/8	20	11	73.8	11	7	-
HEP-1/4-D-MINI						G1/4											
HEP-3/8-D-MINI	70					G3/8											
HEP-D-MINI	-	-			5.8	-	11						-	-		-	10
Midi																	
HEP-1/4-D-MIDI	85	70	55	43	-	G1/4	-	M5	34	32	G1/4	32	22	94.6	14	8	-
HEP-3/8-D-MIDI						G3/8											
HEP-1/2-D-MIDI						G1/2											
HEP-3/4-D-MIDI						G3/4											
HEP-D-MIDI	-	-			6.8	-	24						-	-		-	11
Maxi																	
HEP-1/2-D-MAXI	96	80	66	46	-	G1/2	-	M5	38	16	G3/8	32	22	95.6	16	8	-
HEP-3/4-D-MAXI						G3/4											
HEP-1-D-MAXI	116	91				G1							40				
HEP-D-MAXI	-	-			6.8	-	30						-	-		-	11

Note: This product conforms to ISO 1179-1 and ISO 228-1

On-off valves HEP, D series, metal design

FESTO

Technical data

Ordering data

Pneumatic actuation, 3/2-way valve, operating pressure 2 ... 16 bar, normally closed

Size	Part No.	Type
Without threaded connecting plates		
Mini	193242	HEP-D-MINI
Midi	193249	HEP-D-MIDI
Maxi	193257	HEP-D-MAXI

Ordering data

Pneumatic actuation, 3/2-way valve, operating pressure 2 ... 16 bar, normally closed

Size	Connection	Part No.	Type
With threaded connecting plates			
Mini	G ¹ / ₈	193243	HEP-1/8-D-MINI
	G ¹ / ₄	193244	HEP-1/4-D-MINI
	G ³ / ₈	193245	HEP-3/8-D-MINI
Midi	G ¹ / ₄	193250	HEP-1/4-D-MIDI
	G ³ / ₈	193251	HEP-3/8-D-MIDI
	G ¹ / ₂	193252	HEP-1/2-D-MIDI
	G ³ / ₄	193253	HEP-3/4-D-MIDI
Maxi	G ¹ / ₂	193258	HEP-1/2-D-MAXI
	G ³ / ₄	193259	HEP-3/4-D-MAXI
	G ₁	193260	HEP-1-D-MAXI

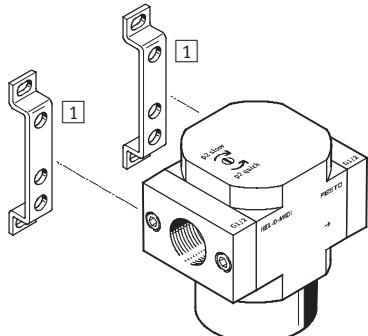
Soft-start valves HEL, D series, metal design

Peripherals overview and Type codes

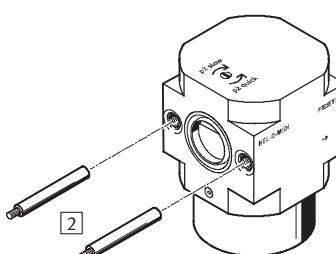
FESTO

Mini/Midi/Maxi

Individual unit with connection plates



Individual unit without connection plates, for service unit combination



Mounting attachments and accessories

	Individual unit		Combination		→ Page/ Internet
	with connection plates	without connection plates	with connection plates	without connection plates	
[1] Mounting bracket HFOE	■	-	■	-	hfoe-d
[2] Threaded pin (included in scope of delivery) FRB	-	-	■	■	frb-d

HEL — 1/4 — D — MIDI

Basic function

HEL	Soft-start valve, gradual pressure build-up
-----	---

Pneumatic connection

1/8	Thread G1/8
1/4	Thread G1/4
3/8	Thread G3/8
1/2	Thread G1/2
3/4	Thread G3/4
1	Thread G1

Series

D	Series
---	--------

Size

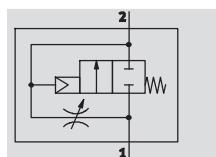
MINI	Grid dimension 40 mm (without connecting plates)
MIDI	Grid dimension 55 mm (without connecting plates)
MAXI	Grid dimension 66 mm (without connecting plates)

Soft-start valves HEL, D series, metal design

FESTO

Technical data

Function



Flow rate

1,000 ... 6,500 l/min

Temperature range

-10 ... +60 °C

Pressure

3 ... 16 bar



The duration of the pressure build-up is adjusted using the restrictor attached to the valve cap.

The output pressure p2 rises slowly in accordance with the restrictor setting. The main seat opens when the switch-through pressure is reached.

- Pneumatically actuated soft-start valve for slowly pressurising and venting pneumatic systems (for use with on-off valves HE and HEE)
- Drives are moved slowly and safely to their initial positions

- Sudden and erratic movements are avoided
- Pressure switching approx. 50% of input pressure
- Adjustable switching time delay

General technical data

Size	Mini				Midi				Maxi				
Pneumatic connection 1, 2	G ¹ / ₈	G ¹ / ₄	G ³ / ₈	- ¹⁾	G ¹ / ₄	G ³ / ₈	G ¹ / ₂	G ³ / ₄	- ¹⁾	G ¹ / ₂	G ³ / ₄	G ¹	- ¹⁾
Design	Piston spool valve												
Type of mounting	Via accessories In-line installation												
Assembly position	Any												
Valve function	2/2-way valve, single solenoid, closed												
Exhaust function	Flow control												
Reset method	Mechanical spring												
Type of actuation	Direct												
Direction of flow	Non-reversible												
Sealing principle	Soft												
C value [l/(s*bar)]	4.5	7.1	7.6	-	9.0	16.5	19.8	20.5	-	26.9	33.9	28.3	-
b value	0.46	0.41	0.3	-	0.59	0.39	0.37	0.48	-	0.36	0.38	0.54	-

1) Without threaded connecting plates

Note: This product conforms to ISO 1179-1 and ISO 228-1

Standard nominal flow rate $q_{nN}^{1)}$ [l/min]

Connection	Mini			Midi				Maxi		
	G ¹ / ₈	G ¹ / ₄	G ³ / ₈	G ¹ / ₄	G ³ / ₈	G ¹ / ₂	G ³ / ₄	G ¹ / ₂	G ³ / ₄	G ¹
In main flow direction 1 → 2	1,000	1,500	1,600	2,600	3,200	3,600	3,800	5,600	6,000	6,500

1) Measured at $p_1 = 6$ bar and $\Delta p = 1$ bar.

Soft-start valves HEL, D series, metal design

Technical data

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Operating and environmental conditions

Operating pressure [bar]	3 ... 16
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [7:4:4]
Note on operating/pilot medium	Operation with lubricated medium possible (in which case lubricated operation will always be required)
Ambient temperature [°C]	-10 ... +60
Temperature of medium [°C]	-10 ... +60
Corrosion resistance class CRC ¹⁾	2
Certification	Germanischer Lloyd

1) Corrosion resistance class 2 according to Festo standard 940 070

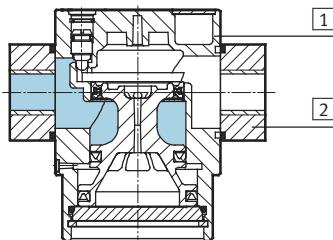
Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Weight [g]

Size	Mini	Midi	Maxi
Soft-start valve	126	270	394

Materials

Sectional view

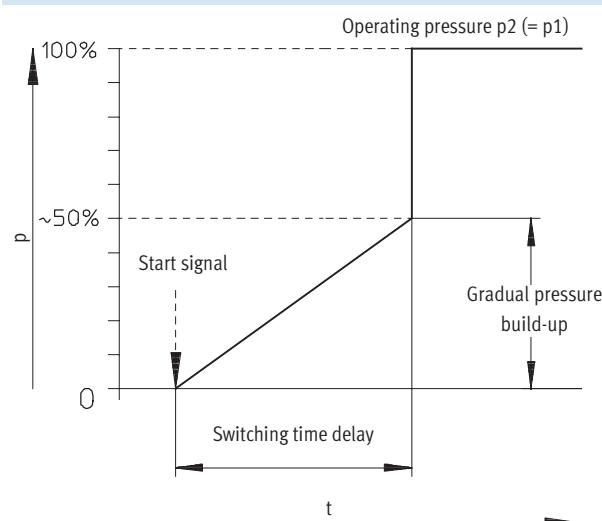


Soft-start valve

[1] Housing	Die-cast aluminium
[2] Connecting plates	Wrought aluminium alloy
- Seals	Nitrile rubber

Switching point

Pressure p as a function of time t



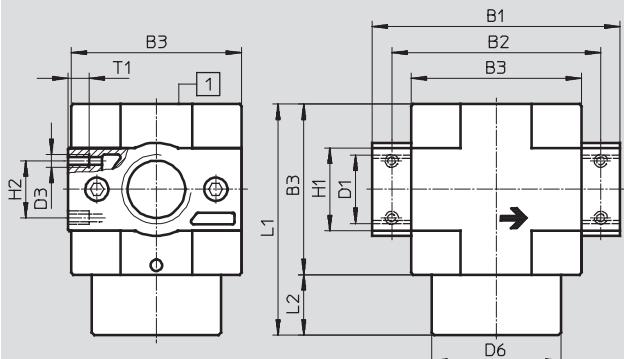
Soft-start valves HEL, D series, metal design

FESTO

Technical data

Dimensions

With threaded connecting plates

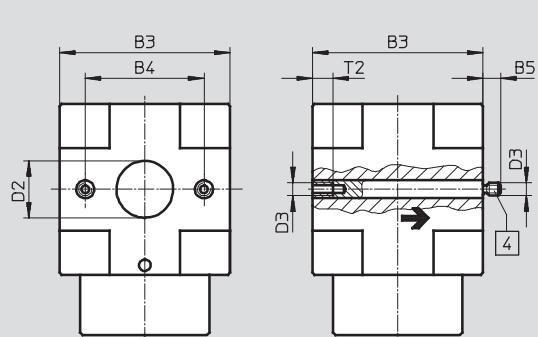


1 Regulating screw in housing

4 Threaded pin (exchangeable)

Download CAD Data ➔ www.festo.com/us/cad

Without threaded connecting plates



➔ Flow direction

Type	B1	B2	B3	B4	B5	D1	D2	D3	D6	H1	H2	L1	L2	T1	T2
Mini															
HEL-1/8-D-MINI	64					G1/8									
HEL-1/4-D-MINI		52				G1/4									
HEL-3/8-D-MINI	70			40	30	G3/8		M4	30	20	11	56	16	7	-
HEL-D-MINI	-	-				5.8	-	11		-	-			-	10
Midi															
HEL-1/4-D-MIDI		85		70		G1/4									
HEL-3/8-D-MIDI						G3/8									
HEL-1/2-D-MIDI			55		43	G1/2		M5	50	32	22	77	22	8	-
HEL-3/4-D-MIDI						G3/4									
HEL-D-MIDI	-	-				6.8	-	24		-	-			-	11
Maxi															
HEL-1/2-D-MAXI	96	80				G1/2									
HEL-3/4-D-MAXI			66		46	G3/4		M5	50	32	22	89	23	8	-
HEL-1-D-MAXI	116	91				G1									
HEL-D-MAXI	-	-				6.8	-	30						-	11

Note: This product conforms to ISO 1179-1 and ISO 228-1

Soft-start valves HEL, D series, metal design

Technical data

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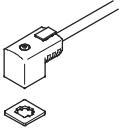
Ordering data			
Gradual pressure build-up, 2/2-way valve, operating pressure 3 ... 16 bar, normally closed			
Size	Connection	Part No.	Type
Without threaded connecting plates			
Mini		170690	HEL-D-MINI
Midi		170691	HEL-D-MIDI
Maxi		170692	HEL-D-MAXI
With threaded connecting plates			
Mini	G1/8	165076	HEL-1/8-D-MINI
	G1/4	165077	HEL-1/4-D-MINI
	G3/8	165078	HEL-3/8-D-MINI
Midi	G1/4	186521	HEL-1/4-D-MIDI
	G3/8	165079	HEL-3/8-D-MIDI
	G1/2	165080	HEL-1/2-D-MIDI
	G3/4	165081	HEL-3/4-D-MIDI
Maxi	G1/2	186522	HEL-1/2-D-MAXI
	G3/4	165082	HEL-3/4-D-MAXI
	G1	165083	HEL-1-D-MAXI

On-off/soft-start valves HE/HEE/HEP/HEL, D series

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Accessories

Ordering data – Plug socket MSSD					Technical data → Internet: mssd	
	Description	Electrical connection	Type of mounting cable connection		Part No.	Type
	For HEE	3-pin	Clamping screws		151687	MSSD-EB
		4-pin	Insulation displacement technology		192745	MSSD-EB-S-M14

Ordering data – Plug socket with cable KMEB							Technical data → Internet: kmeb	
	Description	Operating voltage range	Electrical connection	Switching status display	Cable length [m]		Part No.	Type
	For HEE	24 V DC	3-pin	LED	2.5		151688	KMEB-1-24-2,5-LED
					5		151689	KMEB-1-24-5-LED
		230 V AC	3-pin		10		193457	KMEB-1-24-10-LED
			–	2.5		151690	KMEB-1-230AC-2,5	
				5		151691	KMEB-1-230AC-5	

Ordering data – Illuminating seal MEB-LD				Technical data → Internet: meb		
	Description	Operating voltage range		Part No.	Type	
	for plug socket with cable KMEB and plug socket MSSD-EB	12 ... 24 V DC		151717	MEB-LD-12-24DC	
		230 V DC/AC ±10%		151718	MEB-LD-230AC	

Ordering data – Silencer U			Technical data → Internet: u	
	Pneumatic connection		Part No.	Type
	G ¹ / ₈		6841	U-1/8-B
	G ¹ / ₄		6842	U-1/4-B
	G ³ / ₈		6843	U-3/8-B
	G ¹ / ₂		6844	U-1/2-B
	G ³ / ₄		6845	U-3/4-B
	G1		151990	U-1-B

Ordering data – Padlock LRVSD			
	Weight [g]		Part No.
	120		193786 LRVSD

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