Shut-off valves HE

FESTO



Shut-off valves HE

Product range overview and type codes

Product range overview

Design	Туре	Pneumatic conne	ction	Valve function		qnN
		1	2	2/2-way valve	3/2-way valve	[l/min]
Push-in connector	at both ends					
	HE	QS-6	QS-6			256.5
		QS-8	QS-8			415.8
		QS-10	QS-10	•	•	752.4
		QS-12	QS-12			788.4
Male thread/push-	in connector		<u> </u>			
	HE	R1/8	QS-6			279.9
		R1/4	QS-8			423.9
P		R3/8	QS-10	•	•	760.5
		R1/2	QS-12			834.3
Male thread at bot	h ends					
	HE	R1/8	R1/8			369.9
		R1/4	R1/4			625.5
		R3/8	R3/8	-	•	797.4

Type codes

001	Series	
HE	Shut-off valve	
002	Valve function	
2	2/2-way valve	
3	3/2-way valve	
003	Pneumatic connection 1	1
1/8	Male thread R1/8	
1/8	Male thread R1/8 Male thread R1/4	
	·	
1/4	Male thread R1/4	
1/4 3/8	Male thread R1/4 Male thread R3/8	
1/4 3/8 1/2	Male thread R1/4 Male thread R3/8 Male thread R1/2	
1/4 3/8 1/2 QS-6	Male thread R1/4 Male thread R3/8 Male thread R1/2 Push-in connector 6 mm	

004	Pneumatic connection 2	
	Same size push-in connector as pneumatic connection 1	
1/8	Male thread R1/8	
1/4	Male thread R1/4	
3/8	Male thread R3/8	
QS-6	Push-in connector 6 mm	
QS-8	Push-in connector 8 mm	
QS-10	Push-in connector 10 mm	
QS-12	Push-in connector 12 mm	

Data sheet

HE-2



HE-3





- N - Standard nominal flow rate 256.5 ... 834.3 l/min

Temperature range 0 ... +60°C



Operating pressure -0.095 ... 1 MPa



General technical data – HE-2											
Pneumatic connection 1		QS-6	QS-8	QS-10	QS-12	R1/8	R1/4	R3/8	R1/2		
Pneumatic connection 2		QS-6	QS-8	QS-10	QS-12	QS-6	QS-8	QS-10	QS-12		
Nominal width	[mm]	3.0	3.5	4.7	4.7	3.2	3.5	4.6	7.7		
Design		Piston spoo	ol valve								
Type of mounting	In-line inst	allation			Direct mou	Direct mounting via thread					
		Direct mou	nting via through-	hole					-		
Mounting position		Any									
Valve function		2/2-way, b	istable			-					
Actuation type		Manual				-					
Type of control		Direct				-					
Flow direction		Non-revers	ible			-					
Sealing principle		Soft									

General technical data – HE-3													
Pneumatic connection 1		QS-6	QS-8	QS-10	QS-12	R1/8		R1/4		R3/8		R1/2	
Pneumatic connection 2		QS-6	QS-8	QS-10	QS-12	QS-6	R1/8	QS-8	R1/4	QS-10	R3/8	QS-12	
Pneumatic connection 3		Not ducted											
Nominal width	[mm]	3.0	3.5	4.6	4.7	3.2	3.2	3.5	4.1	4.6	4.7	4.7	
Design		Piston spool	valve		•	·							
Type of mounting	In-line instal	In-line installation					Direct mounting via thread						
		Direct mount	ing via through-	hole		'							
Mounting position		Any											
Valve function		3/2-way, bis	table										
Actuation type		Manual											
Exhaust function		Cannot be th	rottled										
Type of control		Direct				,							
Flow direction		Non-reversib	le			·							
Sealing principle		Soft											

Operating and environmental co	nditions	
Operating pressure	[MPa]	-0.095 1
	[bar]	0.95 10
Operating medium		Compressed air to ISO 8573-1:2010 [7:-:-]
Note on operating/		Lubricated operation possible (in which case lubricated operation will always be required)
pilot medium		
Ambient temperature	[°C]	0 +60
Temperature of medium	[°C]	0 +60
Corrosion resistance class CRC ¹⁾		2

¹⁾ Corrosion resistance class CRC 2 to Festo standard FN 940070

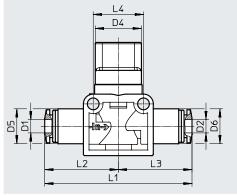
Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

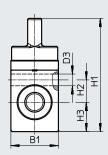
Materials								
Pneumatic connection 1	QS-6	QS-8	QS-10	QS-12	R1/8	R1/4	R3/8	R1/2
Housing	Reinforced PBT							
Screwed trunnion	-				Nickel-plated b	rass		
Seals	NBR							
Note on materials	RoHS-compliant							

Data sheet

Dimensions - Push-in connector, both ends





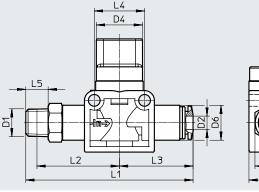


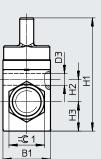
Flow direction (indicated by the arrow)

Туре	B1	D1	D2	D3	D4	D5	D6	H1	H2	Н3	L1	L2	L3	L4
		Ø	Ø	Ø	Ø	Ø	Ø							
HEQS-6	17	6	6	4.2	16.5	12.5	12.5	40.5	8	10.5	52.7	26.4	26.4	18
HEQS-8	17	8	8	4.2	16.5	15	15	40.5	8	10.5	55.4	27.7	27.7	18
HEQS-10	21.7	10	10	4.2	19.5	17.5	17.5	41	11	10.5	64.4	32.2	32.2	24
HEQS-12	21.7	12	12	4.2	19.5	21	21	41	11	10.5	69.8	34.9	34.9	24

Dimensions - Male thread/push-in connector

Download CAD data → www.festo.com





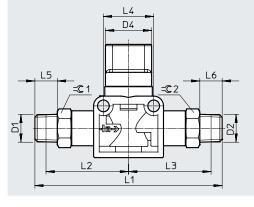
Flow direction (indicated by the arrow)

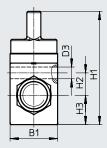
B1	D1	D2	D3	D4	D6	H1	H2	Н3	L1	L2	L3	L4	L5	= © 1
		, v	v	٧	Ø									
17	R1/8	6	4.2	16.5	12.5	40.5	8	10.5	59.9	29.5	26.4	18	8	12
17	R1/4	8	4.2	16.5	15	40.5	8	10.5	64.2	30.5	27.7	18	11	14
21.7	R3/8	10	4.2	19.5	17.5	41	11	10.5	75.7	37	32.2	24	12	17
21.7	R1/2	12	4.2	19.5	21	41	11	10.5	81.4	38.5	34.9	24	15	21
	17 17 21.7	17 R1/8 17 R1/4 21.7 R3/8	7 R1/8 6 7 R1/4 8 7 R3/8 10	Ø Ø 17 R1/8 6 4.2 17 R1/4 8 4.2 21.7 R3/8 10 4.2	Ø Ø Ø 17 R1/8 6 4.2 16.5 17 R1/4 8 4.2 16.5 21.7 R3/8 10 4.2 19.5	Ø Ø Ø Ø 17 R1/8 6 4.2 16.5 12.5 17 R1/4 8 4.2 16.5 15 21.7 R3/8 10 4.2 19.5 17.5	Ø Ø Ø Ø 17 R1/8 6 4.2 16.5 12.5 40.5 17 R1/4 8 4.2 16.5 15 40.5 21.7 R3/8 10 4.2 19.5 17.5 41	Ø Ø Ø Ø 17 R1/8 6 4.2 16.5 12.5 40.5 8 17 R1/4 8 4.2 16.5 15 40.5 8 21.7 R3/8 10 4.2 19.5 17.5 41 11	M Ø Ø Ø Ø 17 R1/8 6 4.2 16.5 12.5 40.5 8 10.5 17 R1/4 8 4.2 16.5 15 40.5 8 10.5 21.7 R3/8 10 4.2 19.5 17.5 41 11 10.5	M Ø Ø Ø Ø B I	M Ø Ø Ø W	M Ø Ø Ø W	M Ø Ø Ø W	M Ø Ø Ø Ø W

Data sheet



Download CAD data \rightarrow www.festo.com





→ Flow direction (indicated by the arrow)

Туре	B1	D1	D2	D3 Ø	D4 Ø	H1	H2	Н3	L1	L2	L3	L4	L5	L6	= © 1	= © 2
HE-3-1/8-1/8	17	R1/8	R1/8	4.2	16.5	40.5	8	10.5	67	29.5	29.5	18	8	8	12	12
HE-3-1/4-1/4	21.7	R1/4	R1/4	4.2	19.5	41	11	10.5	85	36.5	36.5	24	11	11	14	14
HE-3-3/8-3/8	21.7	R3/8	R3/8	4.2	19.5	41	11	10.5	87	37.2	37.2	24	12	12	17	17

Ordering data		l n		Chandrad manifest flammate and	l .w:_L.	l Dt	T
Design		Pneumatic connection		Standard nominal flow rate qnN	-	Part no.	Туре
		1	2	[l/min]	[g]		
2/2-way valve							
	Push-in connector at	QS-6	QS-6	256.5	23	153467	HE-2-QS-6
	both ends	QS-8	QS-8	415.8	26	153468	HE-2-QS-8
		QS-10	QS-10	752.4	41	153469	HE-2-QS-10
		QS-12	QS-12	788.4	47	153470	HE-2-QS-12
	Male thread/push-in	R1/8	QS-6	279.9	29	153471	HE-2-1/8-QS-6
	connector	R1/4	QS-8	423.9	36	153472	HE-2-1/4-QS-8
		R3/8	QS-10	760.5	60	153473	HE-2-3/8-QS-10
		R1/2	QS-12	834.3	86	153474	HE-2-1/2-QS-12
3/2-way valve				•		•	
	Push-in connector at	QS-6	QS-6	256.5	23	153475	HE-3-QS-6
	both ends	QS-8	QS-8	415.8	26	153476	HE-3-QS-8
		QS-10	QS-10	752.4	41	153477	HE-3-QS-10
		QS-12	QS-12	788.4	47	153478	HE-3-QS-12
	Male thread/push-in	R1/8	QS-6	279.9	29	153479	HE-3-1/8-QS-6
	connector	R1/4	QS-8	423.9	36	153480	HE-3-1/4-QS-8
A P		R3/8	QS-10	760.5	60	153481	HE-3-3/8-QS-10
		R1/2	QS-12	834.3	86	153482	HE-3-1/2-QS-12
	Male thread at both	R1/8	R1/8	369.9	35	153296	HE-3-1/8-1/8
	ends	R1/4	R1/4	625.5	58	153297	HE-3-1/4-1/4
		R3/8	R3/8	797.4	79	153298	HE-3-3/8-3/8