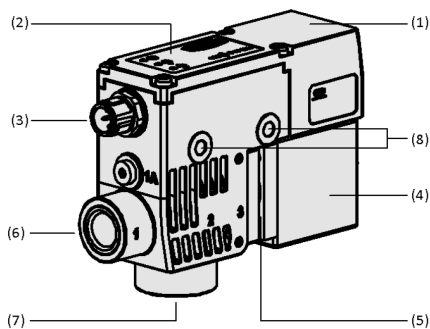


Compact Valves LQEc / LQ Ei

Nominal flow of 240 l/min



Compact Valves LQEc / LQ Ei



System design Compact Valves LQEc / LQ Ei



Decentralized control of the vacuum system with the compact valve LQE

Suitability for industry specific applications

Application

- Use in systems with central vacuum generation for control and regulation of one or more suction circuits
- Application in combination with electric vacuum generators for setting up all-electric systems
- Realization of a process monitoring of vacuum systems directly at the gripper
- Use in handling processes with fast suction and discharge times

Design

- Compact main body (1) made of plastic with integrated control module
- Display foil with LED indicator (2)
- Electric connection M12, 5-pole connector (3), optionally as variant with digital switching inputs and outputs or with IO-Link control
- Direct-acting valve unit (4) with atmospheric vent and integrated filter screen (5)
- Vacuum connections for external vacuum generator (6) and to the gripper (7)
- Mounting holes (8) to accommodate the compact valve

Product highlights

- Direct-acting 3/2-way valve in compact design allows decentralized installation directly on the gripper for extremely fast evacuation and ventilation times
- Intelligent vacuum switch enables easy monitoring and control of the gripping process and increases system availability
- Design as a compact valve with integrated vacuum switch reduces the number of components required and saves time during connection and startup
- Optimized flow cross-sections enable fast and reliable, purely electrical depositing of gripped workpieces without compressed air and reduce operating costs
- Design as bistable valve with end position fixing and additional check valve increases process reliability even in the event of power failure

Compact Valves LQEc / LQEI

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Designation code Compact Valves LQEc / LQEI

LQEc	–	8	–	24V-DC	–	3/2	–	IMP	–	NPN
1		2		3		4		5		6

IOL-B
7

1 – Abbreviated designation

Code	Version
LQEc	LQEc (SIO)
LQEI	LQEI (IO-Link)

2 – Nozzle size

Code	Nozzle size in mm
8	8

3 – Voltage

Code	Voltage in V
24V-DC	24V-DC

4 – Variant

Code	Type
3/2	3/2 multiway valve

5 – Idle position suction valve

Code	Type
IMP	Bistable switched with pulse

6 – Switching function

Code	Type
NPN	Switching to minus
PNP	Switching to plus

7 – Communication

Code	Type
IOL-B	IO-Link (Class B)

The compact valve LQEc/LQEI is delivered as a ready-to-connect product, optionally as a variant with SIO or IO-Link control (Class B).

Available spare parts: seal kit

Available accessories: connection cable, plug-in screw union, mounting bracket, mounting kit

Ordering data Compact Valves LQEc / LQEI

Type	Part no.
LQEc 8 24V-DC 3/2 IMP PNP	10.05.11.00008
LQEc 8 24V-DC 3/2 IMP NPN	10.05.11.00018
LQEI 8 24V-DC 3/2 IMP IOL-B	10.05.11.00014 

Ordering data Spare parts Compact Valves LQEc / LQEI

Spare parts	Part no.
Sieve, round	SIEB 17.5x2 A2 0.415/0.22 10.02.02.03378

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Ordering data Accessories Compact Valves LQEc / LQEI

Accessories		Part no.
Mouting bracket (inst.)	BEF-WIN 45x20x87.35 LQE	10.05.11.00028
Mounting set	SET LQE MOUNT1	10.05.11.00030
Vacuum cup filter	VFT G1/4-IG 80	10.07.01.00119
Vacuum cup filter	VFT G1/4-IG 100	10.07.01.00120
Vacuum cup filter	VFT G3/8-IG 80	10.07.01.00122
Vacuum cup filter	VFT G3/8-IG 100	10.07.01.00123
Plug union, straight	STV-GE G1/4-AG 8	10.08.02.00207
Plug union, straight	STV-GE G1/4-AG 10	10.08.02.00251
Plug union, straight	STV-GE G1/4-AG 12	10.08.02.00208
Plug union, straight	STV-GE G3/8-AG 8	10.08.02.00237
Plug union, straight	STV-GE G3/8-AG 10	10.08.02.00252
Plug union, straight	STV-GE G3/8-AG 12	10.08.02.00209
Plug union, elbow	STV-W G1/4-AG 8	10.08.02.00161
Plug union, elbow	STV-W G1/4-AG 10	10.08.02.00254
Plug union, elbow	STV-W G1/4-AG 12	10.08.02.00162
Plug union, elbow	STV-W G3/8-AG 8	10.08.02.00236
Plug union, elbow	STV-W G3/8-AG 10	10.08.02.00255
Plug union, elbow	STV-W G3/8-AG 12	10.08.02.00163
Vacuum hose (meter)	VSL 8-6 PU MI-TR	10.07.09.00003
Vacuum hose (meter)	VSL 10-7 PU MI-TR	10.07.09.00084
Vacuum hose (meter)	VSL 12-9 PU MI-TR	10.07.09.00037
Connection cable	ASK B-M12-5 5000 K-5P	21.04.05.00080
Connection cable	ASK B-M12-5 2000 S-M12-5	21.04.05.00211

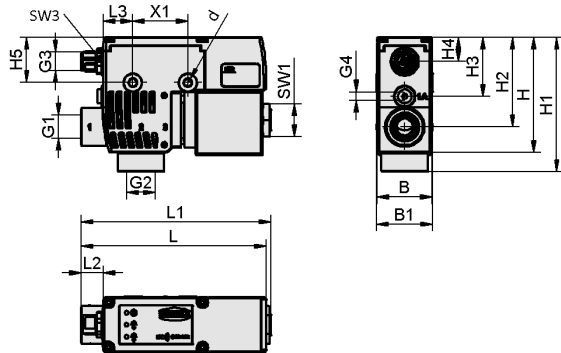
Technical data Compact Valves LQEc / LQEI

Type	Nominal size [mm]	Function valve	Control valve	Communication	Nominal flow rate [l/min]	Nominal flow rate [m³/h]	Power consumption DC [W]	Voltage [V]	Operating pressure	Operating temperature	Protection type IP	Weight [g]
LQEc 8 24V-DC 3/2 IMP PNP	8	3/2 multiway valve	Impulse valve	-	109	7	3.2	24 V - DC	-0.9 ... 0.0 bar	0 ... 50 °C	IP 40	400
LQEc 8 24V-DC 3/2 IMP NPN	8	3/2 multiway valve	Impulse valve	-	109	7	3.2	24 V - DC	-0.9 ... 0.0 bar	0 ... 50 °C	IP 40	400
LQEI 8 24V-DC 3/2 IMP IOL-B	8	3/2 multiway valve	Impulse valve	IO-Link (Class B)	109	7	3.2	24 V - DC	-0.9 ... 0.0 bar	0 ... 50 °C	IP 40	400

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Design data Compact Valves LQEc / LQ Ei



LQEc / LQ Ei

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Design data Compact Valves LQEc / LQEI

Type	B [mm]	B1 [mm]	d [mm]	G1	G2			H [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	H5 [mm]	L [mm]	L1 [mm]	L2 [mm]	L3 [mm]	SW1 [mm]	SW3 [mm]	X1 [mm]
LQEc	32	32.6	4.41	G1/4"-F	G3/8"-F	M12x1-M	M5-F	65.55	77	51	33.21	14	25.50	107.3	110.10	14	17	19	14	32
LQEI	32	32.6	4.41	G1/4"-F	G3/8"-F	M12x1-M	M5-F	65.55	77	51	33.21	14	25.50	107.3	110.10	14	17	19	14	32

Multimedia product presentation

Medium

Product video

Link

<https://vimeo.com/896541388>