

F.R.

Drain Separ

Mech Press SW Res press

exh valve

SlowStart

Anti-bac/Bac-

remove Filt Film

Resist FR

Oil-ProhR

Press FR No Cu

PTFE FRL

Outdrs FRL

Adapter

Joiner Press

Gauge CompFRL

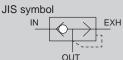
Electro Press SW ContactSW

Med

Quick exhaust valve with push-in fitting

QEL Series

Piping bore size: ø4, ø6





Features

Compact, space saving

Inline has ø4/ø6 push-in fittings built in

Atmosphere release type and type with exhaust port fitting are available

Plugs can be attached directly to the actuator as an effective countermeasure for condensation due to adiabatic expansion

- Ozone resistant materials as standard Ozone-proof materials for degradation prevention are used as standard for the valve
- Ecological products

All substances which adversely affect the global environment

have been eliminated from the materials

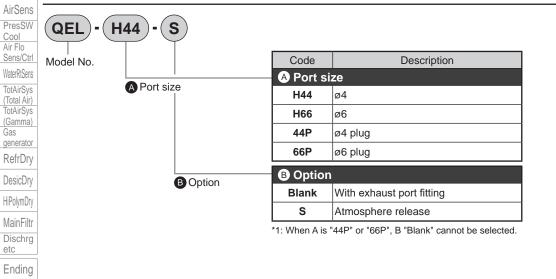
RoHS2 Directive compliant product

Specifications

1 MPa ≈ 145.0 psi, 1 MPa = 10 bar

								1 Wil a ~ 140.0 pc					
LgFRL	Model No.												
PrecsR	ltem		$\overline{}$	QEL-H44	QEL-H44-S	QEL-44P-S	QEL-H66	QEL-H66-S	QEL-66P-S				
VacF/R	Working fluid			Compressed air									
Clean FR	Max. working pr	essure	MPa		0.7 (≈101 psi, 7 bar)								
	Min. working pre	essure	MPa		0.1 (≈15 psi, 1 bar)								
ElecPneuR	Min. working pressure MPa			MPa 0.05 (≈8 psi, 1 bar)									
AirBoost	Proof pressure (at room temperature) MPa			1.35 (≈195 psi, 13 bar)									
Speed Ctrl	Operating temperature °C			5 (41°F) to 60 (140°F) (no freezing)									
Silncr		IN		ø4	ø4	ø4	ø6	ø6	ø6				
CheckV/	Port size	OUT		ø4	ø4	ø4 plug	ø6	ø6	ø6 plug				
other		EXH		ø4	Atmospheric release	Atmospheric release	ø6	Atmospheric release	Atmospheric release				
Fit/Tube	Product weight		g	5.2	3.3	2.3	7.6	4.9	3.9				
Nozzle	Mounting orient	ation		Unrestricted									
Air Unit	Effective cross-	ective cross- IN→OUT mm ²		1	1.8 1.5			4					
	sectional area	sectional area OUT→EXH mm ²		1	.8	1.5		4	3				
PrecsCompn						· · · · · · · · · · · · · · · · · · ·			·				

How to order



QE<u>L Series</u>

F.R.L. F.R.

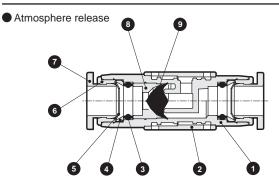
F (Filtr)

R (Reg)

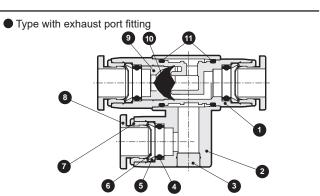
L (Lub)

Internal structure and parts list

Internal structure and parts list

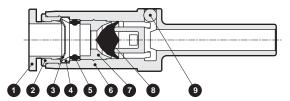


No.	Part name	Material
1	Resin body	Polybutylene terephthalate
2	Exhaust cover	Polybutylene terephthalate
3	Elastic sleeve	Nitrile rubber
4	Lock ring	Copper alloy (with electroless nickeling)
5	Lock claw	Stainless steel
6	Guide ring	Copper alloy (with electroless nickeling)
7	Release ring	Acetal resin
8	Valving element stopper	Copper alloy (with electroless nickeling)
9	Valving element	Hydrogenated nitrile rubber



No.	Part name	Material
1	Resin body	Polybutylene terephthalate
2	Exhaust fitting body	Polybutylene terephthalate
3	Plug	Copper alloy (with electroless nickeling)
4	Elastic sleeve	Nitrile rubber
5	Lock ring	Copper alloy (with electroless nickeling)
6	Lock claw	Stainless steel
7	Guide ring	Copper alloy (with electroless nickeling)
8	Release ring	Acetal resin
9	Valving element stopper	Copper alloy (with electroless nickeling)
10	Valving element	Hydrogenated nitrile rubber
11	O-ring	Nitrile rubber

Plug



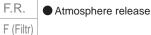
No.	Part name	Material
1	Release ring	Acetal resin
2	Guide ring	Copper alloy (with electroless nickeling)
3	Lock claw	Stainless steel
4	Lock ring	Copper alloy (with electroless nickeling)
5	Elastic sleeve	Nitrile rubber
6	Resin body	Polybutylene terephthalate
7	Valve body holder	Aluminum
8	Valving element	Hydrogenated nitrile rubber
9	Steel ball	Stainless steel

	L (LUD)
	Drain
	Separ Mech
	Press SW
	Res press exh valve
	SlowStart
	Anti-bac/Bac-
	remove Filt
L	Film Resist FR
	Oil-ProhR
	Med
	Press FR No Cu/
	PTFE FRL
-	Outdrs FRL
	Adapter Joiner
	Press
	Gauge
-	CompFRL
-	LgFRL
•	PrecsR
	VacF/R
	Clean FR
	ElecPneuR
	AirBoost
	Speed Ctrl
	Silncr
	CheckV/ other
	Fit/Tube
	Nozzle
	Air Unit
	PrecsCompn
	Electro
	Press SW
	ContactSW
	AirSens
	PresSW Cool
	Air Flo
	Sens/Ctrl
	WaterRtSens TotAirSys
	(Total Air)
	TotAirSys (Gamma)
	Gas
	generator
	RefrDry
	DesicDry
	HiPolymDry
	MainFiltr
	Dischrg etc
	Ending
78	87

QEL Series

CAD

Dimensions F.R.L.



R (Reg)

L (Lub)

Drain

Separ Mech

Press SW Res press

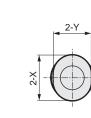
exh valve SlowStart

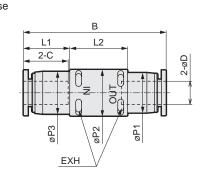
Anti-bac/Bac-

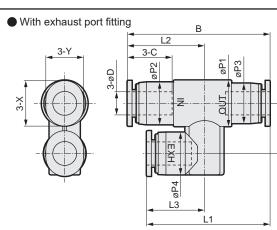
remove Filt

Film Resist FR

Med Press FR No Cu PTFE FRL Outdrs FRL Adapter Joiner Press Gauge CompFRL LgFRL PrecsR VacF/R







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Oil-ProhR														
Med Press FR	Code Model No.	øD Compatible tube O.D.	В	L1	L2	L3	øP1	øP2	øP3	øP4	с	E	х	Y
No Cu/ PTFE FRL	QEL-H44	ø4	35.2	30.5	18.8	14.1	10	9	8.4	9	11.3	11	9.8	7.8
Outdrs FRL	QEL-H66	ø6	37.4	32.4	20.2	15.2	12	11	10.4	11	11.8	13	11.8	9.8
Adapter	QEL-H44-S	ø4	35.2	11.3	15	-	8.4	10	9	-	11.3	-	9.8	7.8
Joiner	QEL-H66-S	ø6	37.4	12.2	15	-	10.4	12	11	-	11.8	-	11.8	9.8



Clean FR

PrecsCompn Electro Press SW ContactSW

Cool Air Flo Sens/Ctrl WaterRtSens TotAirSys (Total Air) TotAirSys (Gamma) Gas

generator RefrDry

DesicDry

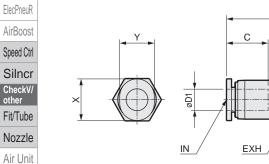
HiPolymDry

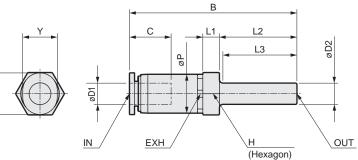
MainFiltr

Dischrg

Ending

etc





Press SW ContactSW	Code Model No.	øD1 Compatible tube O.D.	øD2 Fitting port size	В	L1	L2	L3	øP	с	H (Hexagon)	х	Y
AirSens	QEL-44P-S	ø4	ø4	41.3	4.1	19	18.2	9	11.3	10	9.8	7.8
PresSW	QEL-66P-S	ø6	ø6	47.5	4.7	22	21	11	11.8	12	11.8	9.8

Safety precautions

KD

• Always use within the product specifications.

This product is used with compressed air. Do not use this unit with other fluids.

Securely insert the tube completely to the end, and make sure that the tube cannot be pulled out.

• Always provide differential pressure when using as a shuttle valve. The product could malfunction if there is no differential pressure.

Securely insert the plug, and check that the plug section is not dislocated. If the plug is not fully inserted, it could be dislocated or air could leak.

Make sure that there is no torsion, tension or moment load applied to the inserted state.

Do not apply tension to the piping tubes, etc.

• Stop air flow and confirm that there is no residual pressure before replacing the tube.