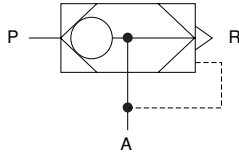


QUICK EXHAUST VALVES

SQE-F11, SQE1-F11, SQE2-F11,
QE2-F11, QE3-F11

Symbol



Specifications

Item	Model	SQE-F11	SQE1-F11	SQE2-F11	QE2-F11	QE3-F11
Port size	P, A	10-32 UNF	NPT1/8	NPT1/4	NPT1/4	NPT3/8
	R		NPT1/4		NPT3/8	
Effective area mm ²	P→A	2.5	21	30	50	60
	A→R	2.5	28	37	50	60
Flow coefficient Cv	P→A	0.12	0.91	1.32	2.5	2.8
	A→R	0.12	1.23	1.66	2.5	2.8
Media		Air				
Operating pressure range MPa (kgf/cm ²) [psi.]		0.03~0.9 (0.3~9.2) [4~131]	0.07~0.9 {0.7~9.2} [10~132]			
Proof pressure MPa (kgf/cm ²) [psi.]		1.35 {13.8} [196]				
Operating temperature range (atmosphere and media) °C [°F]		5~60 [41~140]				
Maximum operating frequency Hz		10				
Lubrication		Not required				
Mass g [oz.]		10 [0.35]	80 [2.82]	120 [4.23]		

Order Codes

SQE -F11

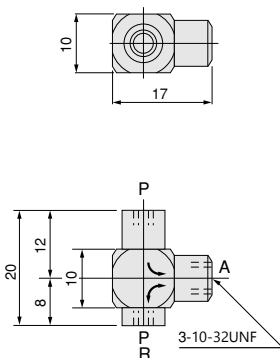
Port size
Blank : 10-32 UNF
1 : NPT1/8
2 : NPT1/4

QE -F11

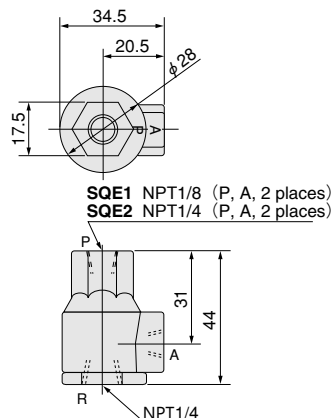
Port size
2 : NPT1/4
3 : NPT3/8

Dimensions (mm)

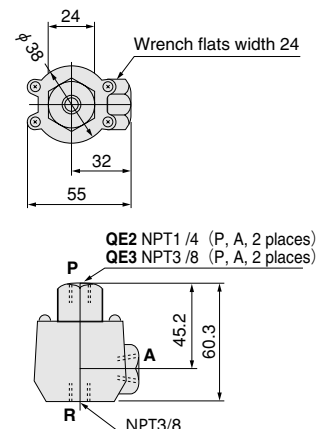
●SQE-F11



●SQE1-F11 ●SQE2-F11



●QE2-F11 ●QE3-F11

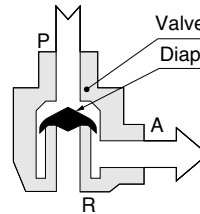


Operating Principles, Major Parts and Materials

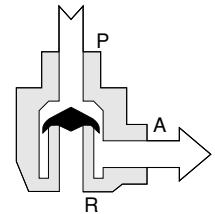
When used as a quick exhaust valve

When used as a shuttle valve

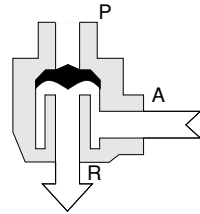
●Air supply condition



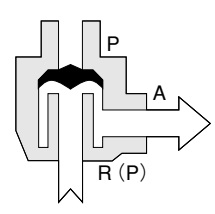
●Air supply condition (A)



●Exhaust condition



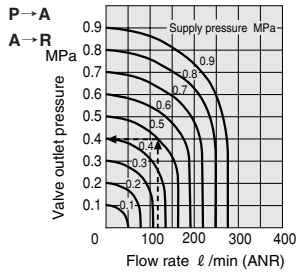
●Air supply condition (B)



Parts	Materials	
	SQE-F11, SQE1-F11, SQE2-F11	QE2-F11, QE3-F11
Body	Zinc die-casting (SQE is brass)	Aluminum alloy
Diaphragm	Synthetic rubber	Urethane rubber
Port cover	—	Aluminum alloy
O-ring	—	Nitril rubber

Flow Rate

SQE-F11

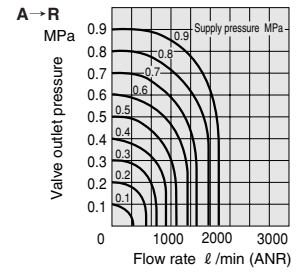
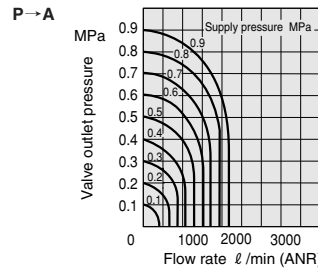


1MPa = 145psi., 1 l /min = 0.0353ft.³/min.

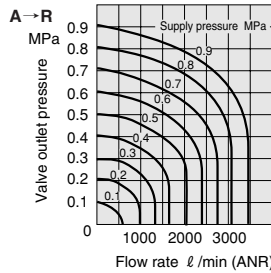
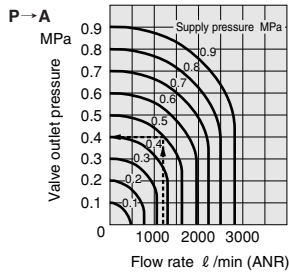
How to read the graph

When the supply pressure is 0.5MPa [73psi.] and the flow rate is 125 l /min [4.41ft.³/min.] (ANR), the valve outlet pressure becomes 0.4MPa [58psi.].

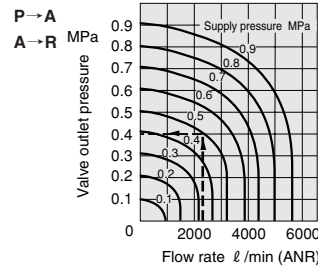
SQE1-F11



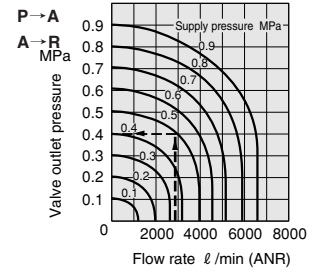
SQE2-F11



QE2-F11



QE3-F11



Time Required for Air Supply and Exhaust

Tank volume ℓ [ft. ³]	Air supply and exhaust pressure MPa (kg/cm ²) [psi.]	SQE1-F11	SQE2-F11	QE2-F11	QE3-F11
1.64 [0.0579]	0→0.55 {5.6} [80]	0.35	0.33	0.17	0.13
	0.7 {7.1} [102]→0.14 {1.4} [20]	0.32	0.22	0.16	0.10
16.4 [0.579]	0→0.55 {5.6} [80]	3.5	2.3	1.80	1.50
	0.7 {7.1} [102]→0.14 {1.4} [20]	3.2	2.2	1.50	0.90

Note: Air supply time is the time required to fill a tank with 0.7MPa [102psi.] air from a pressure level of 0 to 0.55MPa [80psi.]. Exhaust time is the time required to reduce a tank pressure of 0.7MPa [102psi.] down to 0.14MPa [20psi.].