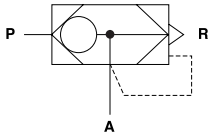
퀵 익저스트 밸브
(급속 배기 밸브)

SQE, SQE1, SQE2, QE2, QE3, QE4, QE5

표시 기호



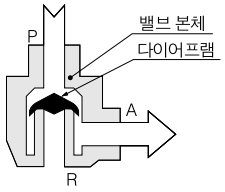
사양

항목 \ 형식		SQE	SQE1	SQE2	QE2	QE3	QE4	QE5
배관 접속 구경	P, A	M5 × 0.8	Rc1/8	Rc1/4	Rc1/4	Rc3/8	Rc1/2	Rc3/4
	R		Rc1/4		Rc3/8		Rc3/4	
유효 단면적 mm²	P→A	2.5	21	30	50	60	120	140
	A→R	2.5	28	37	50	60	140	160
유량 계수 Cv값	P→A	0.12	0.91	1.32	2.5	2.8	5.8	6.8
	A→R	0.12	1.23	1.66	2.5	2.8	6.8	7.8
사용 유체		공기						
사용 압력 범위 MPa		0.03~0.9	0.07~0.9					
보증 내압력 MPa		1.35						
사용 온도 범위 (주위 공기와 사용 유체) ℃		5~60						
최고 작동 빈도 Hz		10						
급유		불필요						
질량 N		10	80		120		430	

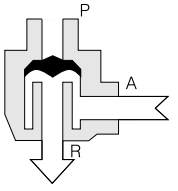
작동 원리와 주요부 재질

급속 배기 밸브로 사용할 경우

● 급기상태

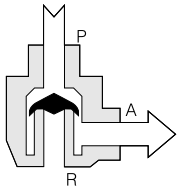


● 배기상태

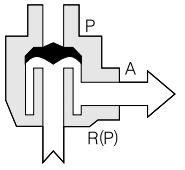


셔틀 밸브로 사용할 경우

● 급기상태(A)



● 급기상태(B)



부품	재질		
	SQE	SQE1, SQE2	QE2, QE3, QE4, QE5
본체	아연 다이캐스트 SQE는 황동		알루미늄 합금
다이어프램	합성 고무	우레탄고무	우레탄 고무
개구(開口) 덮개	—		알루미늄 합금
O링	—		니트릴 고무

주문기호

SQE □

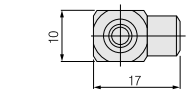
배관 접속 구경
무기입 : M5 × 0.8
1 : Rc1/8
2 : Rc1/4

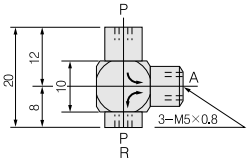
QE □

배관 접속 구경
2 : Rc1/4
3 : Rc3/8
4 : Rc1/2
5 : Rc3/4

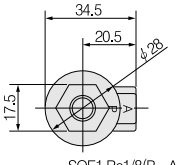
치수도 (mm)

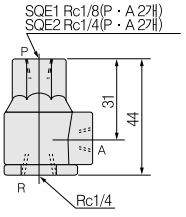
●SQE



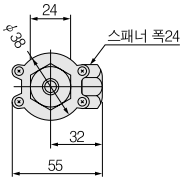


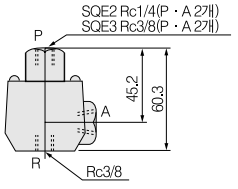
●SQE1
●SQE2



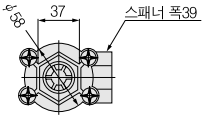


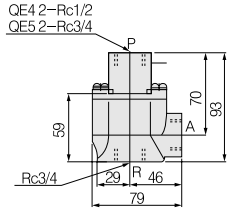
●QE2
●QE3





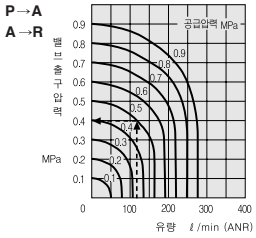
●QE4
●QE5





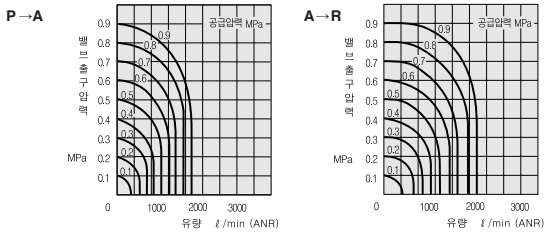
유량특성

SQE

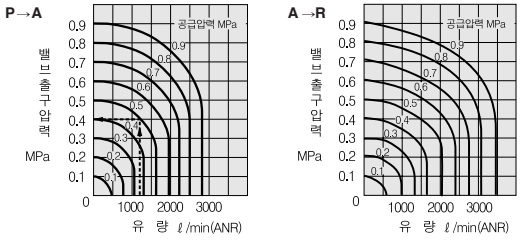


그림을보는 방법
공급 압력 0.5MPa 에서 유량 125 ℓ/min(ANR) 일 때, 밸브 출구 압력은 0.4MPa가 됩니다.

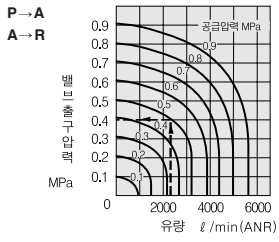
SQE1



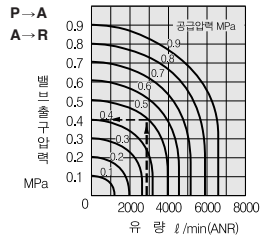
SQE2



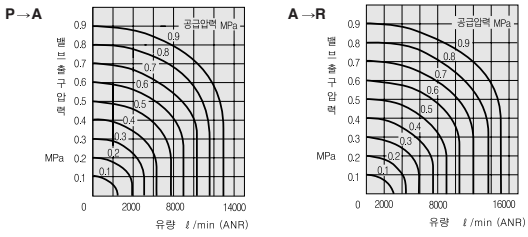
QE2



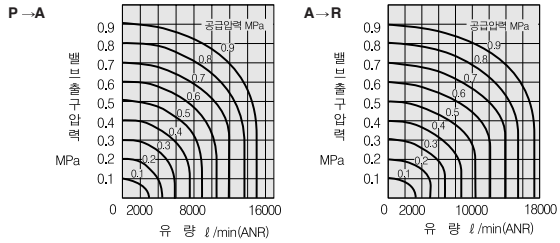
QE3



QE4



QE5



급배기에 필요한 시간

s

탱크 용량R	급배기압력 MPa	SQE1	SQE2	QE2	QE3	QE4	QE5
1.64	0 →0.55	0.35	0.33	0.17	0.13	—	—
	0.7→0.14	0.32	0.22	0.16	0.10	—	—
16.4	0 →0.55	3.5	2.3	1.80	1.50	0.537	0.508
	0.7→0.14	3.2	2.2	1.50	0.90	0.440	0.417

注 : 급기 시간이란, 0.7MPa의 공기를 탱크 내에 0부터 0.55MPa까지로 채우는 시간입니다.
배기 시간이란, 0.7MPa의 공기를탱크 내에서0.14까지로 감소시키는 시간입니다.