

ROTARY PISTON PUMPS

Q-type pump-heads

For MCP-CPF Process drive – Page 60

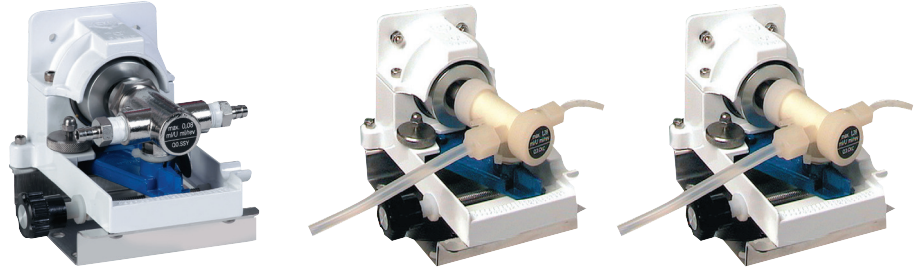


MCP-CPF Process with Q pump-heads and Low Flow Kit R479

Pump-heads Q0 and Q3

Q0 = Stroke vol. 3.2 - 80 µl
Q3 = Stroke vol. 51.2 - 1280 µl

Q0 = Flow rate 0.04 - 144 ml/min
Q3 = Flow rate 0.51 - 2300 ml/min



Type Order No.	QP Q0.SSY / FMI 202	QP Q0.SKY / FMI 316	QP Q3.CKC / FMI 217
Piston	316 Stainless Steel	316 Stainless Steel	Ceramic
Cylinder case	316 Stainless Steel	Kynar® (Fluorocarbon {PVDF})	Kynar® (Fluorocarbon {PVDF})
Cylinder liner	Carbon	Carbon	Ceramic
Lip seals	Rulon® J	Rulon® J	Rulon® AR
Gland washers	PTFE	PTFE	PTFE
Cylinder head seal	PTFE	none	none
Max. temperature	60°C	60°C	100°C
Max. differential pressure	6.9 bar	4.1 bar	1.7bar(to 1600rpm) 0.5 bar (from 1600rpm)
Flow ports	1/4 NPT (female) Included : 2 stainless steel adaptors with thread 1/4 NPT(male) and fitting for tubing with 6.4 mm i.d.	for tubing up to 12.7 mm i.d. Included : 2 Kynar(PVDF) adaptors for tubing with 6 mm o.d.	for tubing up to 12.7 mm i.d. or PTFE tubing 6 mm o.d. Included : 2 Kynar(PVDF) adaptors for tubing with 6 mm o.d.
Tubing (must be ordered separately)	Tubing Tygon®ST R-3603 6.4 mm i.d. Order No. MF 0031 Accessories Low Flow Kit R 479 (see below) Order No. FMI 056	Tubing Tygon®ST R-3603 12.7 mm i.d. Order No. SC 0382 PTFE Tubing 4 mm i.d. / 6 mm o.d., 3.6m long Order No. MF 0336	Tubing Tygon®ST R-3603 12.7 mm i.d. Order No. SC 0382 PTFE Tubing 4 mm i.d. / 6 mm o.d., 3.6m long Order No. MF 0336

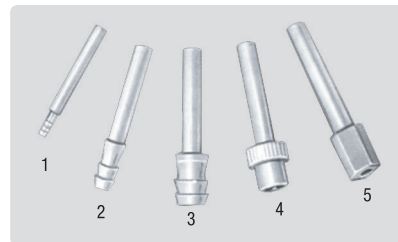
Low Flow Kit R 479 suitable for the following pump-heads:			Order No. FMI 056
QP Q0.SSY	QP Q1.SSY	QP Q2.CSY	
QP Q1.CSC	QP Q2.CSC	QP Q2.SSY	
	QP Q1.CSY		



• Low flow adapter kit는 위에서 언급된 펌프 헤드에 이용할 수 있는 제품
• 이 펌프 헤드 조건은 유속이 분당 50ml 이하 이거나 데드 볼륨이 최소화 된 경우 또는 화학적 호환성을 최대로 요구 하는 경우임

- adapter는 1/4-28 내부 나사선을 가지고, 3.2mm 외경 튜브 보다 작은 나사선을 가진 경우에 사용
- 따라서 이 키트는 chromatography 응용에 매우 적합

PTFE tubing for Low Flow Kit R 479 1.6 mm i.d. / 3.2 mm o.d., with 2 fitting 1/4-28(male)			
0.25 m long	Order No. IC 0053	0.75 m long	Order No. IC 0061
0.50 m long	Order No. IC 0057	1.00 m long	Order No. IC 0065



Tubing adaptors for pump-heads with a Kynar cylinder case :

Q0. SKY Q2. CKC
Q1. CKC Q2. CKY
Q1. CKY Q2. SKY
Q1. SKY Q3. CKC

- 위에 언급된 튜브 외에 이 어댑터는 다른 튜브 사용시 이용할 수 있음

Description			Order No.
1	R412-0K	for tubing with 3.2mm i.d.	FMI 050
2	R412-1K	for tubing with 6.4mm i.d.	FMI 051
3	R412-2K	for tubing with 9.5mm i.d.	FMI 052
4	R412-5K	for tubing with 1/4-28 ferrule fittings	FMI 053
5	H476K	for tubing with 3.2mm o.d.	FMI 054