

0.04-2300 ml/min
(depends on pump-head)

Pump-heads Q1 and Q2

Q1 = Stroke vol. 12.8 - 320 µl
Q2 = Stroke vol. 28.8 - 720 µl

Q1 = flow rate 0.13 - 576 ml/min
Q2 = flow rate 0.29 - 1300 ml/min



Type Order No.	QP Q1.CSC FMI 205	QP Q2.CSC FMI 212	QP Q1.CSC-W FMI 320	QP Q2.CSC-W FMI 321	QP Q1.CSC-WT FMI 219	QP Q2.CSC-WT FMI 218
Piston	Ceramic		Material and design like QP Q1.CSC and CP Q2.CSC but with isolation gland (2 extra ports 10-32 - female)		Material and design like QP Q1.CSC and CP Q2.CSC but with isolation gland (2 extra ports 1/8" NPT - female) and heating mantel	
Cylinder case	316 Stainless Steel					
Cylinder liner	Ceramic					
Lip seals	Rulon® AR					
Gland washers	PTFE					
Cylinder head seal	PTFE					
Max. temperature	177°C		액체, 가스, 증기등의 장애조건 때문에 펌프액은 밀봉 지역이나 대기 상태에서 분리해야 함 슬러지, 파티클 그리고 혐기성 물질도 처리 가능		장애조건 추가. 2 cartridge heaters (1/4" diam x 1/2" long)과 1 thermo-couple(1/8" diam x 1" long)은 펌프 헤드의 가열에 이용할 수 있음	
Max. differential pressure	6.9 bar					
Main flow ports	¼ NPT (female) Included : 2 stainless steel adaptors with thread ¼ NPT(male) and fitting for tubing with 9.5 mm i.d.		Included for barrier gland ports : 2 Polypropylene adaptors, thread 10-32 UNF and fitting for tubing with 3.2 mm i.d		Not included: Tubing adaptors for: barrier gland ports 1/8"NPT(female) main flow ports 1/4" NPT(female)	
Tubing (must be ordered separately)	Tubing Tygon®ST R-3603 9.5 mm i.d. Order No. SC0383 Accessories Low Flow Kit R 479 Order No. FMI 056					

**Tubing and connections for pump-heads with the suffix -W or -WT
(must be ordered separately)**

Description	Order No.
2 stainless steel fittings for inlet/outlet, thread ¼"NPT male, with fittings for tubing with 6.4 mm i.d.	FMI 060
Tubing for inlet/outlet (Tygon ST R-3603) 6.4 mm i.d., 15m long	MF 0031

Other materials

for wetted parts for:

Pump-heads Q1 and Q2

(see table below)

Q1 = Stroke vol. 12.8 - 320 µl
Q2 = Stroke vol. 28.8 - 720 µl
Q1 = Flow rates 0.13 - 576 ml/min
Q2 = Flow rates 0.29 - 1300 ml/min

Type/Order No.	QP Q1.CKC/FMI 352	QP Q1.CKC-W/FMI 356	QP Q1.CKY/FMI 358	QP Q1.CSY/FMI 359	QP Q1.SKY/FMI 361	QP Q1.SSY/FMI 363	QP Q1.SAN1/FMI 365
Type/Order No.	QP Q2.CKC/FMI 355	QP Q2.CKC-W/FMI 357	QP Q2.CKY/FMI 353	QP Q2.CSY/FMI 360	QP Q2.SKY/FMI 362	QP Q2.SSY/FMI 364	QP Q2.SAN1/FMI 366
Piston	Ceramic	Ceramic	Ceramic	Ceramic	316 Stainless Steel	316 Stainless Steel	Ceramic
Cylinder Case	Kynar®2	Kynar®2	Kynar®2	316 Stainless Steel	Kynar®2	316 Stainless Steel	316 Stainless Steel
cylinder liner	Ceramic	Ceramic	Carbon	Carbon	Carbon	Carbon	316 Stainless Steel
Lip seals	Rulon®AR	Rulon®AR	Rulon®AR	Rulon®AR	Rulon®J	Rulon®J	PTFE
Gland washers	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE
Cylinder head seal	none	none	none	PTFE	none	PTFE	PTFE
Max. temperature	100°C	100°C	100°C	177°C	60°C	60°C	177°C
Max. diff. pressure	4.1 bar	4.1 bar	4.1 bar	6.9 bar	4.1 bar	6.9 bar	6.9 bar
Main flow ports	For tubing up to 9.5 mm i.d.	For tubing up to 9.5 mm i.d. With isolation gland Fittings for tubing with 3.2 mm i.d.	For tubing up to 9.5 mm i.d.	¼ NPT (female)	For tubing up to 9.5 mm i.d.	¼ NPT (female)	PTFE tubing adaptor

¹ designed for sanitary applications

² Kynar = Fluorocarbon (PVDF)