

TANDEM PUMP HEADS

Parker's patented Tandem pump heads feature a stackable, double-shoe design that integrates seamlessly with our lab-scale peristaltic pump lineup, delivering unmatched versatility and control, for bidirectional flow and multiple pump heads stacked within one device. Engineered for flexible flow rates, configurable directions, and multiple configurations, Tandem pump heads empower you to manage fluids with confidence and precision.

The innovative double-shoe mechanism enables bidirectional flow, expanding your operational capabilities without the need for additional equipment. Integrated retaining clips secure tubing firmly in place, minimizing tubing walk-through and reducing wear, which extends tubing life and lowers maintenance costs.

The stackable pump heads allow for consolidation of equipment when you require a wide variety of applications of demands, as well as opportunity in effectively double pump throughput. The offset rollers allow for similar model pump heads to be stacked and used in tandem to reduce pulsation.

FEATURES & BENEFITS

- Patented double-shoe design for bidirectional flow
- Stacked pump heads for equipment consolidation and expansion of capabilities
- Offset rollers for reduction in pulsation
- Retaining clips reduce tubing walkthrough



Figure 1: 1081



Figure 2: 1082

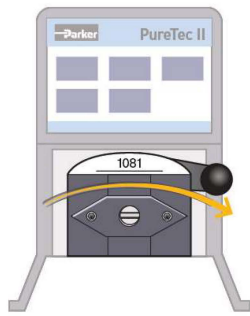


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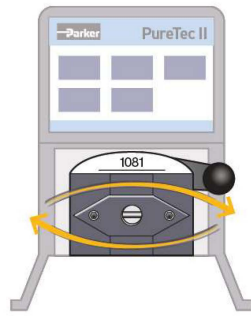
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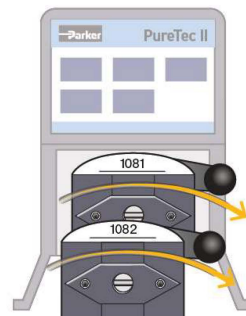




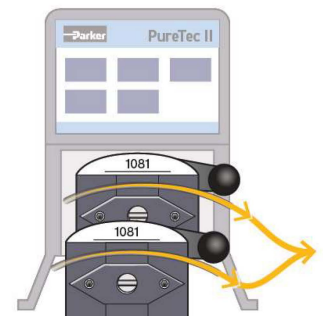
Single Channel Flow



Double Channel
Opposite Directions



Multi Channel
Same Direction
1081 & 1082 Pump



Multi Channel Same
Direction or Y

RECOMMENDED TUBING SIZES AND FLOW RATE RANGES FOR SINGLE PUMP HEAD¹

Pump Head Model	TANDEM 1081						TANDEM 1082		
Approved Tubing Size	13	14	16	25	17	18	15	24	35
Silicone Part#	400-113	400-114	400-116	400-125	400-125	400-118	400-115	400-124	400-135
PharMed Part#	400-313	400-314	400-316	400-315	400-325	400-318	400-315	400-324	400-335
Pump Rate Range (Nominal Values, ± 5%)	mL/min								
8RPM	0.03-0.45	0.10-163	0.43-6.38	0.9-12.6	1.14-18.3	1.7-24.3	0.45-13	0.65-20	0.8-32
160RPM	0.5-10	1.7-35.2	6.3-129	12.5-283	18.5-405	24.7-554	9-260	13-435	16-650
600RPM	2-34	8.6-132	29-533	49-974	70-1048	103-1515	59-993	85-1348	111-2258

¹Duplex pump head flow rates are approximately double

TECHNICAL SPECIFICATIONS

Specs	Tandem 1081	Tandem 1082
Dimensions (in.) (L x W x H)	2.4 x 3.9 x 3.9	2.4 x 3.9 x 3.9
Housing Material	Noryl	Noryl
Rotor Material	Stainless steel	Stainless steel
Rollers	4	4
Tubing Sizes	13,14,16,25,17,18	15,24,35
Speed Range (rpm)	0-600	0-600

PART CODES

Part Number	Description
080-108	1081 Pump head spare or replacement
080-1082	1082 Pump head spare or replacement
080-108KIT	Piggyback 1081, for stacking a second pump head
080-1082KIT	Piggyback 1082, for stacking a second pump head

LEARN MORE.

