



Improving your PERFORMANCE

505L low pulse, high accuracy dispensing pumps

Technical Information

- 0.5 percent dosing accuracy
- Flow rates up to 4375ml/min at 350rpm
- Virtually pulse-free flow
- Twin tubes with offset, spring-loaded tracks
- Uses “Double-Y” Marprene or Silicone tubing elements
- 505L pumphead has low inertia stainless steel rollers and twin offset tracks to provide smoothed flows using double tube elements or two individual tubes up to 9.6mm bore with 2.4mm wall thickness. Accepts 505LX extension pumphead to double flow. For use with two individual tubes an additional 505LTC tube clamp set is required

The 505L uses a 50 percent greater wall thickness tubing which stabilises flow under changing pressure, suction and viscosity. Choose Silicone tubing for highest accuracy or Marprene for increased chemical compatibility and extra-long tube life. Uses only Watson-Marlow “Double-Y” tubing elements. One 505LX extension pumphead can be added depending on the drive torque available.

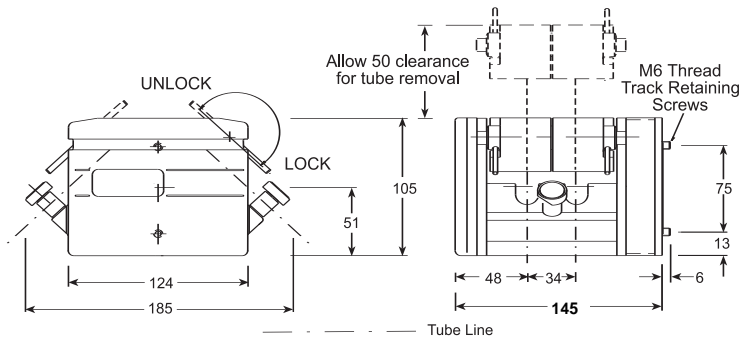
For use with two individual tubes, please order the 059.4001.000 tube clamp set and choose Silicone or Marprene transfer tubing. When using two individual tubes, the flow for each channel will be half that shown in the table.



Flow rate ranges (ml/min)

				Tube bore and flow rates (ml/min)					
				1.6mm	3.2mm	4.8mm	6.4mm	8.0mm	9.6mm*
Min	Max	Ratio	Speed rpm	0.04-95	0.23-500	0.42-930	0.70-1500	0.90-2000	1.3-2800
0.1	220	2200:1	0.1-220	0.04-150	0.23-800	0.42-1500	0.70-2500	0.90-3200	1.3-4375*
0.1	350	3500:1	0.1-3500						

*9.6mm bore through pumphead and to delivery; 12.7mm bore to source, using 913.AH96.K24



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Specification

Weight	2.5kg
Dimensions	505L H105 x W180 x L135 505LX H105 x W180 x L105

Product codes		
505L	drive + pumphead for 2.4mm wall tube	053.4001.000
505LX	extension pumphead only for 2.4mm wall tube	053.4011.020
505LG	pumphead only for STA-PURE for 2.4mm wall tube	053.4010.00G
505LTC	Tube clamp set	059.4001.000

Materials of Construction

Track	Aluminium
Rotor	Aluminium
Rollers	Stainless steel
Springs, spindles	Stainless steel
Roller bearings	Carbon steel
Cradle	Aluminium alloy

Tube ordering codes				
Double 'Y' tubing elements				
Bore/wall (mm)	Marprene	STA-PURE®	Chem-Sure®	Platinum Silicone
1.6 / 2.4	902.E016.K24	960.E016.K24	965.E016.K24	913.AE16.K24
3.2 / 2.4	902.E032.K24	960.E032.K24	965.E032.K24	913.AE32.K24
4.8 / 2.4	902.E048.K24	960.E048.K24	965.E048.K24	913.AE48.K24
6.4 / 2.4	902.E064.K24	960.E064.K24	965.E064.K24	913.AE64.K24
8.0 / 2.4	902.E080.K24	960.E080.K24	965.E080.K24	913.AE80.K24
9.6 / 2.4	902.E096.K24			913.AE96.K24
				high flow 913.AH96.K24

Transmission tube		
Bore/wall (mm)	Marprene	Platinum Silicone
1.6 / 2.4	902.0016.024	913.A016.024
3.2 / 2.4	902.0032.024	913.A032.024
4.8 / 2.4	902.0048.024	913.A048.024
6.4 / 2.4	902.0064.024	913.A064.024
8.0 / 2.4	902.0080.024	913.A080.024
9.6 / 2.4	902.0096.024	913.A096.024

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