

Double pump segment manifold pump tubing for MC microcassette pumpheads

Colour code	Bore	Bore	Marprene*	PVC	Silicone
Orange/black	0.13mm	0.005"		981.0013.000	
Orange/red	0.19mm	0.007"		981.0019.000	
Orange/blue	0.25mm	0.010"	979.0025.000	981.0025.000	
Orange/green	0.38mm	0.015"	979.0038.000	981.0038.000	
Orange/yellow	0.50mm	0.020"	979.0050.000	981.0050.000	
Orange/white	0.63mm	0.025"	979.0063.000	981.0063.000	983.0063.000
Black/black	0.76mm	0.030"	979.0076.000	981.0076.000	983.0076.000
Orange/orange	0.88mm	0.035"	979.0088.000	981.0088.000	983.0088.000
White/white	1.02mm	0.040"	979.0102.000	981.0102.000	983.0102.000
Red/red	1.14mm	0.045"	979.0114.000	981.0114.000	983.0114.000
Grey/grey	1.29mm	0.050"	979.0129.000	981.0129.000	983.0129.000
Yellow/yellow	1.42mm	0.055"	979.0142.000	981.0142.000	983.0142.000
Translucent	1.47mm	0.058"			983.0147.000
Yellow/blue	1.52mm	0.060"	979.0152.000	981.0152.000	983.0152.000
Blue/blue	1.65mm	0.065"	979.0165.000	981.0165.000	983.0165.000
Green/green	1.85mm	0.070"	979.0185.000	981.0185.000	983.0185.000
Purple/purple	2.05mm	0.080"	979.0205.000	981.0205.000	983.0205.000
Purple/black	2.38mm	0.095"	979.0238.000	981.0238.000	983.0238.000
Purple/orange	2.54mm	0.100"	979.0254.000	981.0254.000	983.0254.000
Purple/white	2.79mm	0.110"	979.0279.000	981.0279.000	983.0279.000

* For autoclavable tubing, please replace last "0" of Product code with

"*" - for example, 979.0238.00*

Declaration of incorporation

We declare that when any pump or drive unit listed below is used with any Watson-Marlow pumphead and intended for installation into machines or is to be assembled with other machines for installations, it must not be put into service until the machinery into which it is to be incorporated has been declared to be in conformity with the provisions of the Machinery Directive 89/392/EEC and EN 60204-1.

Drives	Baseplates	Pumpheads	Accessories
102FS	501B	101R	505AA 501TF
102FD	601B	102R	505BA 505AV
101FA	701B	303D	505LA 505AF
303FAC		303X	505L 505AH
303FDC		304D	501RL 605AF
303FC		304X	501RL2 605AV
303FD		306D	601R 101SCB
501F		306X	605L 303SCB
501FAC		304MC	701R 501TH
501FDC		308MC	701RE Tube monitor
601F			701RX Mains interface
			701RXE



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**WATSON
MARLOW
PUMPS**

304MC
308MC
504MC2
508MC2

Microcassette pumphead chart

304MC and 504MC flow rate ranges (ml/min)										
Drive	rpm	Orange/black 0.13mm 0.005"	Orange/Red 0.19mm .007"	Orange/Blue 0.25mm 0.010"	Orange/Green 0.38mm 0.015"	Orange/yellow 0.50mm 0.020"	Maximum channels			
313F	5/50	0.14/1.4	0.21/2.1	0.29/2.9	0.37/3.7	0.45/4.5	15			
313S	110	0.09	0.30	0.52	0.92	1.70	15			
505S, 505U	0.5-55	0.0004-0.04	0.001-0.15	0.002-0.26	0.004-0.46	0.008-0.83	15			
505Du	0.25-55	0.0002-0.04	0.0007-0.15	0.001-0.26	0.002-0.46	0.004-0.83	15			
505Di	110	0.09	0.30	0.52	0.92	1.70	15			
Drive	rpm	Orange/White 0.63mm 0.025"	Black/Black 0.76mm 0.030"	Orange/Orange 0.88mm 0.035"	White/White 1.02mm 0.040"	Red/Red 1.14mm 0.045"	Grey/Grey 1.29mm 0.050"	Yellow/Yellow 1.42mm 0.055"	Maximum channels	
302F	7/55	0.20/1.50	0.29/2.30	0.41/3.20	0.52/4.10	0.63/5.00	0.84/6.50	1.10/8.30	10	
	110	3.10	4.60	6.40	8.10	9.90	13.0	17.0	10	
302S	5.5-55	0.15-1.50	0.23-2.30	0.32-3.20	0.41-4.10	0.50-5.00	0.65-6.50	0.83-8.30	10	
505S, 505U	0.5-55	0.014-1.50	0.021-2.30	0.029-3.20	0.037-4.10	0.045-5.00	0.060-6.60	0.075-8.30	15	
505Du	0.25-55	0.007-1.50	0.010-2.30	0.015-3.20	0.019-4.10	0.023-5.00	0.030-6.60	0.038-8.30	15	
505Di	110	3.10	4.60	6.40	8.10	9.90	13.00	17.0	15	
Drive	rpm	Translucent 1.47mm 0.058"	Yellow/Blue 1.52mm 0.060"	Blue/Blue 1.65mm 0.065"	Green/Green 1.85mm 0.07"	Purple/Purple 2.05mm 0.080"	Purple/Black 2.38mm 0.090"	Purple/Orange 2.54mm 0.100"	Purple/White 2.79mm 0.110"	Maximum channels
302F	7/55	1.10/8.80	1.20/9.40	1.40/11.0	1.80/14.0	2.10/17.0	2.50/20.0	3.00/24.0	3.40/26.0	10
	110	18.0	19.0	22.0	28.0	33.0	40.0	47.0	53.0	10
302S	5.5-55	0.88-8.80	0.94-9.40	1.1-11.0	1.4-14.0	1.7-17.0	2.0-20.0	2.4-24.0	2.6-26.0	10
505S, 505U	0.5-55	0.080-8.80	0.085-9.40	0.100-11.0	0.127-14.0	0.155-17.0	0.182-20.0	0.218-24.0	0.236-26.0	15
505Du	0.25-55	0.040-8.80	0.043-9.40	0.050-11.0	0.064-14.0	0.077-17.0	0.091-20.0	0.109-24.0	0.118-26.0	15
505Di	110	18.0	19.0	22.0	28.0	33.0	40.0	47.0	53.0	15

Note: 304MC, 304MCX pumpheads must not be run at speed greater than 110rpm.

308MC and 508MC flow rate ranges (ml/min)										
Drive	rpm	Orange/black 0.13mm 0.005"	Orange/Red 0.19mm .007"	Orange/Blue 0.25mm 0.010"	Orange/Green 0.38mm 0.015"	Orange/Yellow 0.50mm 0.020"	Orange/White 0.63mm 0.025"	Maximum channels		
302F	7/55	0.01/0.04	0.02/0.14	0.03/0.23	0.05/0.41	0.09/0.70	0.17/1.30	10		
	110	0.09	0.28	0.47	0.83	1.40	2.60	10		
302S	5.5-55	0.004-0.04	0.01-0.14	0.02-0.23	0.04-0.41	0.07-0.70	0.13-1.30	10		
505S 505U	0.5-55	0.0004-0.04	0.0013-0.14	0.002-0.23	0.004-0.41	0.006-0.70	0.012-1.30	15		
505Du	0.25-55	0.0002-0.04	0.0006-0.14	0.001-0.23	0.002-0.41	0.003-0.70	0.006-1.30	15		
505Di	110	0.90	0.28	0.47	0.83	1.40	2.60	15		
Drive	rpm	Black/Black 0.76mm 0.030"	Orange/Orange 0.88mm 0.035"	White/White 1.02mm 0.040"	Red/Red 1.14mm 0.045"	Grey/Grey 1.29mm 0.050"	Yellow/Yellow 1.42mm 0.055"	Translucent 1.47mm 0.058"	Maximum channels	
302F	7/55	0.25/1.90	0.34/2.60	0.42/3.30	0.56/4.40	0.67/5.20	0.77/6.10	0.84/6.60	10	
	110	3.90	5.30	6.60	8.80	10.0	12.0	13.0	10	
302S	5.5-55	0.19-1.90	0.26-2.60	0.33-3.30	0.44-4.40	0.52-5.20	0.61-6.10	0.66-6.60	10	
505S 505U	0.5-55	0.017-1.90	0.024-2.60	0.030-3.30	0.040-4.40	0.047-5.20	0.055-6.10	0.060-6.60	15	
505Du	0.25-55	0.009-1.90	0.012-2.60	0.015-3.30	0.020-4.40	0.024-5.20	0.028-6.10	0.030-6.60	15	
505Di	110	3.90	5.3	6.60	8.80	10.0	12.0	13.0	15	
Drive	rpm	Yellow/Blue 1.52mm 0.060"	Blue/Blue 1.65mm 0.065"	Green/Green 1.85mm 0.070"	Purple/Purple 2.05mm 0.080"	Purple/Black 2.38mm 0.090"	Purple/Orange 2.54mm 0.100"	Purple/White 2.79mm 0.110"	Maximum channels	
302F	7/55	0.91/7.20	1.10/8.30	1.30/9.90	1.50/12.0	1.80/14.0	2.10/17.0	2.30/18.0	10	
	110	14.0	17.0	20.0	24.0	29.0	33.0	36.0	10	
302S	5.5-55	0.72-7.20	0.83-8.30	0.99-9.90	1.20-12.0	1.40-14.0	1.70-17.0	1.80-18.0	10	
505S 505U	0.5-55	0.065-7.20	0.075-8.30	0.09-9.9	0.11-12.0	0.13-14.0	0.15-17.0	0.16-18.0	15	
505Du	0.25-55	0.033-7.20	0.038-8.30	0.045-9.9	0.055-12.0	0.064-14.0	0.077-17.0	0.082-18.0	15	
505Di	110	14.0	17.0	20.0	24.0	29.0	33.0	36.0	15	

Note: 308MC, 308MCX pumpheads must not be run at speed greater than 110rpm.

