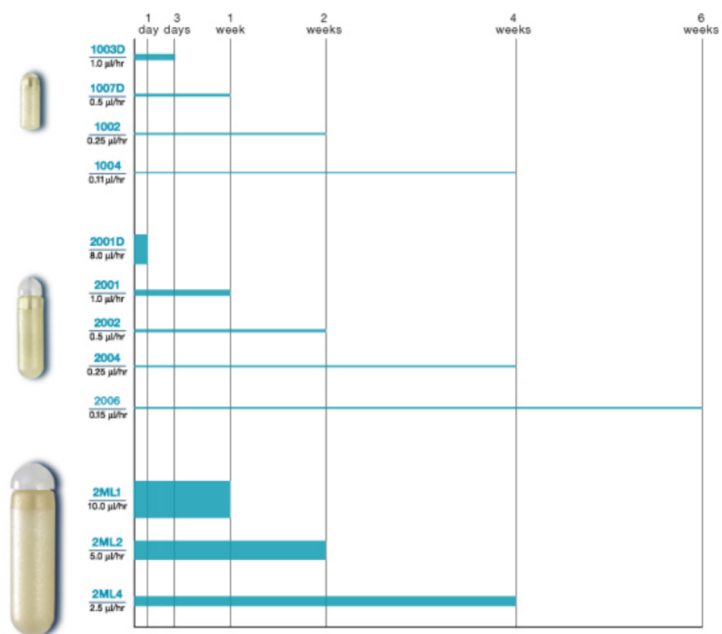


# Rates & Durations

There are 12 models of ALZET Osmotic Pumps in 3 physical sizes, and a variety of release rates and durations (\*Note that nominal performance data is listed below. Individual lots of pumps will vary from this target within limits. The specific data for each lot of pumps should be used for dose calculations).



# Dimensions, Components & Materials

The tables below review the specifications, dimensions and materials of ALZET osmotic pumps.



ALZET Pump Models			
<b>Model Numbers</b>	1003D, 1007D, 1002, 1004	2001D, 2001, 2002, 2004, 2006	2ML1, 2ML2, 2ML4
<b>Reservoir Volume</b>	100 µl	200 µl	2 ml
Complete Osmotic Pump			
Length (cm)	1.5	3.0	5.1
Diameter (cm)	0.6	0.7	1.4
Weight (g)	0.4	1.1	5.1
Total Displaced Volume (ml)	0.5	1.0	6.5
Filling Tube			
Length (cm)	1.1	2.2	3.5
Gauge	27	27	25
O.D. (cm)	0.04	0.04	0.05
I.D. (cm)	0.02	0.02	0.03
Flow Moderator			
Length (cm)	1.3	2.4	4.6
Gauge	21	21	21
O.D. (cm)	0.08	0.08	0.08
I.D. (cm)	0.05	0.05	0.05
Weight (g)	0.05	0.2	0.9
Material (flange)	Styrene Acrylonitrile		
Material (cap)	n/a	Polyethylene	Polyethylene
Material (tube)	Stainless Steel 304 (non-metal alternatives)		
Pump Body Materials			
Outer Membrane	Cellulose Ester Blend		
Drug Reservoir	Thermoplastic Hydrocarbon Elastomer		
<b>Note:</b> All items are supplied sterile. Pumps cannot be reused.			

ALZET pumps are supplied in multiples of 10. Every 10 pumps comes with the following:

- 10 Flow Moderators
- 1 Filling Tube
- 1 Instruction Sheet