

# MAXIMA SERVO 450



## TECHNICAL SPECIFICATIONS

Injection Unit Specifications	ENGLISH METRIC	1540 Frame			2290 Frame			3470 Frame		
		A	B	C	A	B	C	A	B	C
Injection Capacity, Maximum GPPS	oz g	18 510	26 737	36 1,021	30 851	41 1,162	54 1,531	46 1,304	60 1,701	75 2,155
Theoretical Displacement	in <sup>3</sup> cm <sup>3</sup>	33.5 550	48.3 792	65.8 1,078	55.2 905	75.2 1,232	98.2 1,609	84.5 1,385	110.4 1,810	139.8 2,290
Maximum Injection Pressure	psi bar	32,400 2,234	28,100 1,938	20,600 1,421	32,400 2,234	26,900 1,855	20,600 1,421	33,200 2,290	27,800 1,917	21,900 1,510
Injection Rate	in <sup>3</sup> /sec cm <sup>3</sup> /sec	15 250	22 361	30 491	21 337	28 459	37 599	28 452	36 590	46 747
Screw Stroke	in mm	11 280			12.6 320			14.2 360		
Screw Diameter	in mm	1.97 50	2.36 60	2.76 70	2.36 60	2.76 70	3.15 80	2.76 70	3.15 80	3.54 90
L / D Ratio	L / D	29	24	20	27	23	20	26	23	20
Low Torque Screw Speed Maximum	rpm	404	337	289	337	289	253	289	253	225
Low Torque at Screw	in - lb Nm	11,997 1,354			18,840 2,127			22,726 2,566		
	psi bar	2,450 169			2,450 169			2,450 169		
Calculated Recovery Rate (GP Styrene)	oz / sec g / sec	2.0 57	2.7 76	3.2 90	2.7 76	3.2 90	4.0 115	3.2 90	4 115	4.7 134
High Torque Screw Speed Maximum	rpm	359	337	289	226			251	251	225
High Torque at Screw	in - lb Nm	17,995 2,032			26,324 3,310			30,876 3,882		
	psi bar	2,450 169			2,450 169			2,450 169		
Calculated Recovery Rate (GP Styrene)	oz / sec g / sec	1.8 51	2.7 76	3.2 90	1.8 51	2.5 70	3.6 103	2.8 78	4 115	4.7 134
Number of Pyrometers (Barrel / Nozzle)	qty	4/1			4/1			4/1		
Total Heat Capacity	kW	24.9			39.5			57.8		
<b>Clamp</b>										
Clamping Force	ton kN				450 4,000					
Clamp Opening Force	ton kN				22 196					
Clamp Stroke	in mm				47.2 1,200					
Clamp Speed Open/Close	in / sec mm / sec				42 / 41 1,067 / 1,041					
Maximum Daylight	in mm				57.1 1,450					
Min/Max Mold Thickness	in mm				9.80 / 29.5 250 / 750					
Maximum Mold Weight	lb kg				12,425 5,635					
Platen Size (H x V)	in mm				43.3 x 43.3 1,100 x 1,100					
Distance Between Tie Rods (H x V)	in mm				32.3 x 32.3 820 x 820					
Tie Rod Diameter	in mm				5.51 140					
Maximum Ejector Stroke	in mm				7.9 200					
Ejector Force @ 2000 psi	ton kN				8.3 73					
<b>General</b>										
Machine Dimensions (L x W x H)	in mm				272.2 x 88.6 x 114.8 6,913 x 2,249 x 2,917					
Shipping Weight (without oil)	lb kg				40,050 18,170					
Hydraulic System Pressure	psi bar				2,950 203					
Gear Pump Capacity	g / min l / min				76 288					
Injection and Extruder (1540 IU)	g / min l / min				76 288					
Eject and CP	g / min l / min				25 / 21 95 / 79					
Electric Motors	HP kW				43 32					
Oil Reservoir Capacity	gal L				190 984					
Heat Exchanger Water @ 85 F	g / min l / min				15 79					

Due to continuous improvements, specifications are subject to change without notice.