

# MAXIMA SERVO 310 WP



## TECHNICAL SPECIFICATIONS

Injection Unit Specifications	ENGLISH METRIC	970 Frame			1540 Frame			2290 Frame		
		A	B	C	A	B	C	A	B	C
Injection Capacity, Maximum GPPS	oz g	12 340	15 425	22 624	18 510	26 737	36 1,021	30 851	41 1,162	54 1,531
Theoretical Displacement	in <sup>3</sup> cm <sup>3</sup>	23.3 382	28.8 471	41.4 679	33.5 550	48.3 792	65.8 1,078	55.2 905	75.2 1,232	98.2 1,609
Maximum Injection Pressure	psi bar	32,600 2,248	29,800 2,055	20,700 1,428	32,400 2,234	28,100 1,938	20,600 1,421	32,400 2,234	26,900 1,855	20,600 1,421
Injection Rate	in <sup>3</sup> /sec cm <sup>3</sup> /sec	17 279	21 344	30 496	15 250	22 361	30 491	21 337	28 459	37 599
Screw Stroke	in mm	9.4 240			11 280			12.6 320		
Screw Diameter	in mm	1.77 45	1.97 50	2.36 60	1.97 50	2.36 60	2.76 70	2.36 60	2.76 70	3.15 80
L / D Ratio	L / D	27	24	20	29	24	20	27	23	20
Low Torque Screw Speed Maximum	rpm	449	404	337	404	337	289	337	289	253
Low Torque at Screw	in - lb Nm	7,519 849			11,997 1,354			18,840 2,127		
	psi bar	2,450 169			2,450 169			2,450 169		
Calculated Recovery Rate (GP Styrene)	oz / sec g / sec	1.6 46	2.0 57	2.7 76	2.0 57	2.7 76	3.2 90	2.7 76	3.2 90	4.0 115
High Torque Screw Speed Maximum	rpm	449	404	337	359	337	289	226		
High Torque at Screw	in - lb Nm	11,236 1,269			17,995 2,032			26,324 3,310		
	psi bar	2,450 169			2,450 169			2,450 169		
Calculated Recovery Rate (GP Styrene)	oz / sec g / sec	1.6 46	2.0 57	2.7 76	1.8 51	2.7 76	3.2 90	1.8 51	2.5 70	3.6 103
Number of Pyrometers (Barrel / Nozzle)	qty	4/1			4/1			4/1		
Total Heat Capacity	kW	16.8			24.9			39.5		
<b>Clamp</b>										
Clamping Force	ton kN				310 2,750					
Clamp Opening Force	ton kN				15 135					
Clamp Stroke	in mm				41.7 1,060					
Clamp Speed Open/Close	in / sec mm / sec				42 / 44 1,067 / 1,118					
Maximum Daylight	in mm				49.6 1,260					
Min/Max Mold Thickness	in mm				7.90 / 25.6 200 / 650					
Maximum Mold Weight	lb kg				8,295 3,762					
Platen Size (H x V)	in mm				47 x 37 1,195 x 940					
Distance Between Tie Rods (H x V)	in mm				36 x 26 915 x 660					
Tie Rod Diameter	in mm				4.53 115					
Maximum Ejector Stroke	in mm				6.3 160					
Ejector Force @ 2000 psi	ton kN				8 71					
<b>General</b>										
Machine Dimensions (L x W x H)	in mm				259.4 x 88.6 x 87.1 6,588 x 2,251 x 2,300					
Shipping Weight (without oil)	lb kg				30,795 13,970					
Hydraulic System Pressure	psi bar				2,950 203					
Gear Pump Capacity	g / min l / min				63 238					
Injection and Extruder (1540 IU)	g / min l / min				63 238					
Eject and CP	g / min l / min				25 / 21 95 / 79					
Electric Motors	HP kW				38 28					
Oil Reservoir Capacity	gal L				174 569					
Heat Exchanger Water @ 85 F	g / min l / min				15 79					

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