



Niigata Vertical All-Electric Injection Molding Machines



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Item			Unit	MDVR55S8000			MDVR85S8000					MDVR110S8000					MDVR165S8000								
				Standard			Low Capacity (OP.)			Standard		Low Capacity (OP.)		Standard		High Capacity (OP.)		Low Capacity (OP.)		Standard		High Capacity (OP.)			
Injection Unit	Standard	Injection Capacity ※ 1	T.m	i 1.3			i 1.3 (OP.)			i 2.0		i 2.0 (OP.)		i 2.9		i 3.4 (OP.)		i 2.9 (OP.)		i 3.4		i 5.7 (OP.)			
		Screw Complete	Type	—	Y (OP.)	A	B	Y	A	B	A	B	A	B	A	B	A	B	A	B	A	B	Y	A	B
			Diameter	mm	18	25	30	18	25	30	30	35	30	35	35	40	35	40	35	40	35	40	40	45	52
		Screw Stroke	in	0.71	0.98	1.18	0.71	0.98	1.18	1.18	1.38	1.18	1.38	1.38	1.57	1.38	1.57	1.38	1.57	1.38	1.57	1.57	1.77	2.05	
			mm	85	95		85	95		105		105		120		140	160	120		140	160	180			
		Calculated Injection Volume ※ 2	in	3.35	3.74		3.35	3.74		4.13		4.13		4.72		5.51	6.30	4.72		5.51	6.30	7.09			
			cm³	22	47	67	22	47	67	74	101	74	101	115	151	135	201	115	151	135	201	226	286	382	
		Calculated Injection Capacity ※ 3	cu-in	1.34	2.87	4.09	1.34	2.87	4.09	4.52	6.16	4.52	6.16	7.02	9.21	8.24	12.27	7.02	9.21	8.24	12.27	13.79	17.45	23.23	
			g	20	43	62	20	43	62	68	93	68	93	106	139	124	185	106	139	124	185	208	263	352	
		Max. Injection Pressure ※ 4	oz	0.71	1.52	2.19	0.71	1.52	2.19	2.40	3.28	2.40	3.28	3.74	4.90	4.37	6.53	3.74	4.90	4.37	6.53	7.34	10.09	12.42	
			Mpa	280	280	200	280	280	200	270	200	270	200	250	190	250	190	250	190	250	190	250	200	140	
		Max. Hold Pressure ※ 4	psi	40610	40610	29010	40610	40610	29010	39160	29010	39160	29010	36260	27560	36260	27560	36260	27560	36260	27560	36260	29010	20310	
			Mpa	280	260	180	280	260	180	245	180	245	180	225	170	225	170	225	170	225	170	250	180	125	
		Max. Injection Speed ※ 5	psi	40610	37710	26110	40610	37710	26110	35530	26110	35530	26110	32630	24660	32630	24660	32630	24660	32630	24660	36260	26110	18130	
			mm/s	300			300			250		250		260		260		260		260		150			
		Injection Rate	in/s	11.81			11.81			9.84		9.84		10.24		10.24		10.24		10.24		5.91			
			cm³/s	76	147	212	76	147	212	177	241	177	241	250	327	250	327	250	327	250	327	188	239	319	
		Screw Rotation Speed	cu-in/s	4.64	8.97	12.94	4.64	8.97	12.94	10.86	14.71	10.80	14.71	15.26	19.95	15.26	19.95	15.26	19.95	15.26	19.95	11.47	14.58	19.47	
			min ⁻¹	360			360			360		360		360		360		360		360		300			
		Plasticizing Capacity (PS) ※ 6	kg/h	9	27	43	9	27	43	43	60	43	60	60	88	60	88	60	88	60	88	85	111	171	
			oz/s	0.09	0.26	0.42	0.09	0.26	0.42	0.42	0.59	0.42	0.59	0.59	0.86	0.59	0.86	0.59	0.86	0.59	0.86	0.83	1.09	1.68	
		Heater Capacity	kW	3	5.36		3	5.36		8.05		8.05		10.43		10.43		10.43		10.43		8.11	11.02		
	High-Speed	Injection Capacity ※ 1	T.m	i 0.8 (OP.)			i 0.8 (OP.)			i 1.0H (OP.)		i 1.0H (OP.)		i 1.7H (OP.)		—		i 1.7H (OP.)		—		—			
		Screw Complete	Type	—	Y	YA	A	Y	YA	A	Y	YA	Y	YA	Y	YA		Y	YA						
			Diameter	mm	18	22	25	18	22	25	25	28	25	28	30	32		30	32						
		Screw Stroke	in	0.71	0.87	0.98	0.71	0.87	0.98	0.98	1.10	0.98	1.10	1.18	1.26		1.18	1.26							
			mm	85	95		85	95		105		105		120			120								
		Calculated Injection Volume ※ 2	in	3.35	3.74		3.35	3.74		4.13		4.13		4.72			4.72								
			cm³	22	36	47	22	36	47	52	65	52	65	85	97		85	97							
		Calculated Injection Capacity ※ 3	cu-in	1.34	2.20	2.87	1.34	2.20	2.87	3.17	3.97	3.17	3.97	5.19	5.92		5.19	5.92							
			g	20	33	43	20	33	43	47	59	47	59	78	89		78	89							
		Max. Injection Pressure ※ 4	oz	0.71	1.16	1.52	0.71	1.16	1.52	1.66	2.29	1.66	2.29	2.75	3.14		2.75	3.14							
			Mpa	280	230	180	280	230	180	200	160	200	160	200	175		200	175							
		Max. Hold Pressure ※ 4	psi	40610	33360	26110	40610	33360	26110	29010	23210	29010	23210	29010	25380		29010	25380							
			Mpa	280	210	160	280	210	160	180	140	180	140	180	155		180	155							
		Max. Injection Speed ※ 5	psi	40610	30460	23210	40610	30460	23210	26110	20310	26110	20310	26110	22480		26110	22480							
			mm/s	500			500			450		450		400			400								
		Injection Rate	in/s	19.69			19.69			17.72		17.72		15.75			15.75								
			cm³/s	127	190	245	127	190	245	221	277	221	277	283	322		283	322							
		Screw Rotation Speed	cu-in/s	7.75	11.59	14.95	7.75	11.59	14.95	13.49	16.90	13.49	16.90	17.27	19.65		17.27	19.65							
			min ⁻¹	360			360			360		360		360			360								
		Plasticizing Capacity (PS) ※ 6	kg/h	9	18	27	9	18	27	27	36	27	36	43	51		43	51							
			oz/s	0.09	0.18	0.26	0.09	0.18	0.26	0.26	0.35	0.26	0.35	0.42	0.50		0.42	0.50							
		Heater Capacity	kW	3	3.5	5.36	3	3.5	5.36	8.05		8.05		10.43			10.43								
	Nozzle Stroke	mm (in)	195 [Max. 310] (15 [Max. 12.20])			205 [Max. 335] (8.07 [Max. 13.19])			240 [Max. 375] (9.45 [Max. 14.76])					285 [Max. 375] (11.22 [Max. 14.76])					386 (Max. 500) (15.20 [Max. 19.69])						
	Nozzle Touch Force	kN (Us ton)	15 (1.69)			15 (1.69)			15 (1.69)					15 (1.69)					25 (2.81)						
	Temperature Zones	Nozzle and Barrel	1G+2+1G			1G+2+1G			1G+2+1G					1G+2+1G											
		Hopper Base	—			1			1					1											
Clamping Unit	Clamping System	—			Double toggle			Double toggle					Double toggle					Double toggle							
	Clamping Force	kN (Us ton)	500 (55)			750 (85)			1000 (110)					1500 (165)											
	Platen size (H x V) ※ 7	mm (in)	365 x 365 (14.37 x 14.37)			420 x 420 (16.54 x 16.54)			500 x 500 (19.69 x 19.69)					560 x 560 (22.05 x 22.05)											
	Mass of Max. Mountable Mold. ※ 8	kg (oz)	Upper Mold: 100 (3527) Lower Mold: 200 (7055) x 2 Molds			Upper Mold: 150 (5291) Lower Mold: 300 (10582) x 2 Molds			Upper Mold: 200 (7055) Lower Mold: 450 (15873) x 2 Molds					Upper Mold: 350 (12346)											
	Mold Opening Stroke	mm (in)	200 (7.87)			250 (9.84)			280 (11.02)					Lower Mold: 500 (17637) x 2 Molds											
	Mold Height (Min/Max)	mm (in)	150/300 (5.91/11.81)			220/320 (8.66/12.60)			250/350 (9.84/13.78)					300 (11.81)											
	Open Daylight	mm (in)	500 (19.69)			570 (22.44)			630 (24.80)					300/400 (11.81/15.75)											
	Table Diameter	mm (in)	1060 (41.73)			1206 (47.48)			1423 (56.02)					700 (27.56)											
	Ejector Stroke	mm (in)	60 (2.36)			60 (2.36)			75 (2.95)					1658 (65.28)											
	Ejector Force	kN (Us ton)	22 (2.47)			22 (2.47)			22 (2.47)					100 (3.94)											
Utility	Machine Mass	ton (Us ton)	4.1 (4.5)			5.4 (6.0)			7.3 (8.0)					7.4 (8.1)		11.1 (12.2)			12.3 (13.6)						
	Total Machine Power ※ 9	kVA	14			17			22		22		29		29		29		29		29				
	Power Source (Voltage x Frequency) ※ 10	—	AC200V x 50Hz / AC200V x 60Hz / AC200V x 50Hz																						
	Cable Size ※ 11	mm² (A.W.G.)	8 (8)			8 (8)			14 (6)		14 (6)		22 (4)		22 (4)		22 (4)		22 (4)		22 (4)				
	Cooling Water Consumption (Max.) ※ 12	L/min (gal/min)	5 (1.32gal/min) (0.2~0.5MPa)			5 (1.32gal/min) (0.2~0.5MPa)			5 (1.32gal/min) (0.2~0.5MPa)					5 (1.32gal/min) (0.2~0.5MPa)											
Compressed Air Consumption ※ 13	NL/min	200 (0.35MPa)			200 (0.35MPa)			200 (0.35MPa)					200 (0.35MPa)												