## **D-M-E Hot Runner Systems**







#### **Point Gate Nozzle Assembly** Gate Detail RIGID LEAD NOTE: The gate (DO NOT BEND) Ø18.500mm <sup>+ 0.010</sup>/ diameter can be opened SLEEVE + 0.0004 Ø0.7283in <sup>- 0.0000</sup> by the customer to suit HEATER WITH INTEGRAL RETAINER the application. Also, the SEAL **THERMOCOUPLE** 0.70mm/.028in dimension RINGS and 80° angle must be BODY -118.5mm/4.67in re-machined after 90° increasing the 80° R9mm/0.35in TIP Ø8.00mm/ gate diameter. 0.315in Ø18.50mm/ 0.728in -0.70mm/0.028in Ø50.00mm/1.969in R4.75mm/0.19in -Ø1.00mm/0.039in MIN GATE DIAMETER LHCS Ø51.00mm/2.008in Nozzle Plate and "A" Plate + 0.03 + 0.001 - Ø50.03mm - 0.00 /1.970in - 0.000 **Machining Dimensions** Ø30.00mm/1.181in 8.00mm/0.315in MIN 12.7mm/0.50in WIRE CHANNEL 8.00mm/0.315in MIN NOTES: A + TE = Tip position, hotwhere TE = Tip thermal expansion MANIFOLD -3.50mm/0.138in Tip thermal expansion must be 8.00mm/0.315in taken into account prior to machining plates and installing nozzle into the mold. 47.63mm/1.875in NOZZLE PLATE В THICKNESS RECOMMEDNED -R3.0mm/0.12in A+TE WATER LINES RECOMMENDED 30° IN "A" PLATE, NOZZLE PLATE AND MANIFOLD RETAINER PLATE 21.50mm/0.846in 8.00mm/0.315in MIN DISTANCE BETWEEN EDGES OF WATER LINE AND COUNTERBORE

The formula for determining thermal expansion is:  $TE \text{ (mm)} = "T" \text{ dimension (mm)} \times .0000175 \text{mm} \times [\text{Nozzle Setpoint Temperature (°C)} - 20] \text{ or } TE \text{ (in)} = "T" \text{ dimension (in)} \times .0000097 \text{in} \times [\text{Nozzle Setpoint Temperature (°F)} - 68]}$ 

EXAMPLE: For GML1070: "A" = 70.00mm, "T" = 86.00mm, Setpoint = 260°C

"TE" = 86.00 x .0000175 x (260-20) = .36 ... thus "A" + "TE" = 70.00 + .36 = 70.36

NOZZLE ASSEMBLY	A I mm	DIM inch	T D mm	IM inch	L D mm	IM inch	B C mm	OIM inch	BODY ITEM NO	TIP ITEM NO	HEATER ITEM NO	SLEEVE ITEM NO	RETAINER ITEM NO	SEAL RING ITEM NO	LHCS ITEM NO
GML1042	42.00	1.654	68.00	2.677	78.00	3.071	36.00	1.417	GMC0162	GMT0015	SCH1940	GMS0163	GMR0052	EHR7155 (2 Required)	M410LH (3 Required)
GML1052	52.00	2.047	68.00	2.677	78.00	3.071	26.00	1.024	GMC0162	GMT0015	SCH1940	GMS0162			
GML1060	60.00	2.362	86.00	3.386	96.00	3.780	36.00	1.417	GMC0163	GMT0017	SCH1950	GMS0163			
GML1070	70.00	2.756	86.00	3.386	96.00	3.780	26.00	1.024	GMC0163	GMT0017	SCH1950	GMS0162			
GML1080	80.00	3.150	106.00	4.173	116.00	4.567	36.00	1.417	GMC0164	GMT0019	SCH1960	GMS0163			
GML1090	90.00	3.543	106.00	4.173	116.00	4.567	26.00	1.024	GMC0164	GMT0019	SCH1960	GMS0162			
GML1100	100.00	3.937	126.00	4.961	136.00	5.354	36.00	1.417	GMC0165	GMT0021	SCH1970	GMS0163			
GML1110	110.00	4.331	126.00	4.961	136.00	5.354	26.00	1.024	GMC0165	GMT0021	SCH1970	GMS0162			
GML1120	120.00	4.724	146.00	5.748	156.00	6.142	36.00	1.417	GMC0166	GMT0023	SCH1980	GMS0163			
GML1130	130.00	5.118	146.00	5.748	156.00	6.142	26.00	1.024	GMC0166	GMT0023	SCH1980	GMS0162			

For ancillary hot runner components and temperature controls, contact D-M-E.

# Gate-Mate Lite

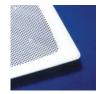
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