

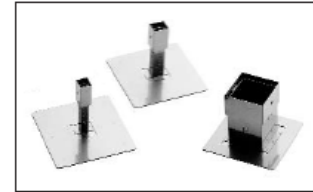


ThermoFlo BGA Nozzles

(for use with TF 1500 / TF 1700 / TF 2500 / TF 2700)

Listed below are standard nozzles available from PACE. Custom nozzles can be designed and manufactured for special or non-standard applications. Contact PACE for more information. Alignment templates are included with the nozzle assemblies.

ThermoFlo Nozzle Chart



MAXIMUM COMPONENT SIZE	NOZZLE DIMENSIONS	NOZZLE P/N
5mm x 5mm [0.19" x 0.19"]	8mm x 8mm [0.31" x 0.31"]	4038-7001
6mm x 6mm [0.24" x 0.24"]	9mm x 9mm [0.35" x 0.35"]	4038-7042
6mm x 8mm [0.24" x 0.31"]	9mm x 11mm [0.35" x 0.43"]	4038-7002
7.3mm x 7mm [0.29" x 0.28"]	10.3mm x 10mm [0.40" x 0.40"]	4038-7040
8mm x 8mm [0.31" x 0.31"]	11mm x 11mm [0.43" x 0.43"]	4038-7041
8.1mm x 8.1mm [0.31" x 0.31"]	11.1mm x 11.1mm [0.43" x 0.43"]	4038-7055
8.2mm x 12.7mm [0.32" x 0.50"]	11.2mm x 15.7mm [0.44" x 0.62"]	4038-7003
9mm x 9mm [0.35" x 0.35"]	12mm x 12mm [0.47" x 0.47"]	4038-7004
10mm x 10mm [0.39" x 0.39"]	13mm x 13mm [0.51" x 0.51"]	4038-7005
11.4mm x 5.1mm [0.49" x 0.20"]	14.4mm x 8.1mm [0.56" x 0.31"]	4038-7050
13mm x 10mm [0.51" x 0.40"]	16mm x 13mm [0.63" x 0.51"]	4038-7039
13mm x 13mm [0.51" x 0.51"]	16mm x 16mm [0.63" x 0.63"]	4038-7006
14mm x 22mm [0.55" x 0.87"]	17mm x 25mm [0.67" x 0.99"]	4038-7021
15mm x 15mm [0.59" x 0.59"]	18mm x 18mm [0.71" x 0.71"]	4038-7007
15.34mm x 12.7mm [0.60" x 0.50"]	18.34mm x 15.7mm [0.72" x 0.61"]	4038-7063
15.6mm x 5.1mm [0.61" x 0.20"]	18.6mm x 8.1mm [0.73" x 0.31"]	4038-7062
16.5mm x 8mm [0.65" x 0.31"]	19.5mm x 11mm [0.77" x 0.43"]	4038-7027
17mm x 11mm [0.67" x 0.43"]	20mm x 14mm [0.79" x 0.55"]	4038-7052
17mm x 17mm [0.67" x 0.67"]	20mm x 20mm [0.79" x 0.79"]	4038-7008
19mm x 19mm [0.75" x 0.75"]	22mm x 22mm [0.87" x 0.87"]	4038-7026
20mm x 8mm [0.79" x 0.31"]	23mm x 11mm [0.90" x 0.43"]	4038-7058
20mm x 20mm [0.79" x 0.79"]	23mm x 23mm [0.90" x 0.90"]	4038-7061
21mm x 12.75mm [0.83" x 0.50"]	24mm x 15.75mm [0.94" x 0.62"]	4038-7060
21mm x 25mm [0.83" x 0.98"]	23mm x 28mm [0.91" x 1.1"]	4038-7029
22mm x 22mm [0.86" x 0.86"]	25mm x 25mm [0.98" x 0.98"]	4038-7057
23mm x 23mm [0.90" x 0.90"]	26mm x 26mm [1.02" x 1.02"]	4038-7009
25mm x 25mm [0.98" x 0.98"]	28mm x 28mm [1.1" x 1.1"]	4038-7025
27mm x 27mm [1.06" x 1.06"]	30mm x 30mm [1.18" x 1.18"]	4038-7010
28mm x 16mm [1.1" x 0.63"]	31mm x 19mm [1.22" x 0.75"]	4038-7038
28mm x 28mm [1.1" x 1.1"]	31mm x 31mm [1.22" x 1.22"]	4038-7048
28.5mm x 17mm [1.12" x 0.67"]	31.5mm x 20mm [1.22" x 0.79"]	4038-7059
29mm x 29mm [1.14" x 1.14"]	32mm x 32mm [1.26" x 1.26"]	4038-7030
30mm x 30mm [1.18" x 1.18"]	33mm x 33mm [1.3" x 1.3"]	4038-7044

MAXIMUM COMPONENT SIZE	NOZZLE DIMENSIONS	NOZZLE P/N
31mm x 31mm [1.22" x 1.22"]	33mm x 33mm [1.3" x 1.3"]	4038-7031
32mm x 17mm [1.26" x 0.67"]	35mm x 20mm [1.37" x 0.79"]	4038-7053
32.5mm x 23mm [1.28" x 0.90"]	35.5mm x 26mm [1.40" x 1.02"]	4038-7051
32.5mm x 25mm [1.28" x 0.98"]	35.5mm x 28mm [1.40" x 1.1"]	4038-7056
33mm x 33mm [1.29" x 1.29"]	36mm x 36mm [1.42" x 1.42"]	4038-7028
35mm x 35mm [1.37" x 1.37"]	38mm x 38mm [1.5" x 1.5"]	4038-7011
38.1mm x 25.8mm [1.50" x 1.01"]	41.1mm x 28.8mm [1.61" x 1.13"]	4038-7066
40mm x 40mm [1.57" x 1.57"]	43mm x 43mm [1.7" x 1.7"]	4038-7024
41mm x 41mm [1.61" x 1.61"]	43mm x 43mm [1.7" x 1.7"]	4038-7047
42mm x 42mm [1.65" x 1.65"]	45mm x 45mm [1.77" x 1.77"]	4038-7032
42.5mm x 32.5mm [1.67" x 1.40"]	45.5mm x 35.5mm [1.80" x 1.39"]	4038-7054
43mm x 43mm [1.7" x 1.7"]	46mm x 46mm [1.81" x 1.81"]	4038-7045
44mm x 33mm [1.73" x 1.29"]	47mm x 36mm [1.85" x 1.41"]	4038-7064
44mm x 44mm [1.73" x 1.73"]	47mm x 47mm [1.85" x 1.85"]	4038-7043
44.5mm x 44.5mm [1.75" x 1.75"]	47.5mm x 47.5mm [1.87" x 1.87"]	4038-7012
46mm x 46mm [1.81" x 1.81"]	49mm x 49mm [1.93" x 1.93"]	4038-7046
48mm x 48mm [1.89" x 1.89"]	51mm x 51mm [2" x 2"]	4038-7049
50mm x 50mm [1.97" x 1.97"]	53mm x 53mm [2.1" x 2.1"]	4038-7022
56mm x 17mm [2.2" x 0.67"]	59mm x 20mm [2.32" x 0.79"]	4038-7037
60mm x 60mm [2.36" x 2.36"]	63mm x 63mm [2.5" x 2.5"]	4038-7023
Connector, 16mm x 13mm [0.63" x 0.51"]	19mm x 16mm [0.75" x 0.63"]	4038-7033
Connector, 19mm x 8mm [0.75" x 0.31"]	22mm x 11mm [0.87" x 0.43"]	4038-7036
Connector, 27mm x 13mm [1.06" x 0.51"]	30mm x 16mm [1.18" x 0.63"]	4038-7034
Connector, 30mm x 12mm [1.18" x 0.47"]	33mm x 15mm [1.3" x 0.59"]	4038-7035
IGFP 9mm x 9mm [0.35" x 0.35"]	12mm x 12mm [0.47" x 0.47"]	4038-7016
IGFP 12mm x 12mm [0.47" x 0.47"]	15mm x 15mm [0.59" x 0.59"]	4038-7017
IGFP 14mm x 14mm [0.55" x 0.55"]	17mm x 17mm [0.67" x 0.67"]	4038-7020
IGFP 16mm x 16mm [0.63" x 0.63"]	19mm x 19mm [0.75" x 0.75"]	4038-7014
IGFP 16mm x 22mm [0.63" x 0.87"]	19mm x 25mm [0.75" x 0.99"]	4038-7019
IGFP 22mm x 22mm [0.87" x 0.87"]	25mm x 25mm [0.98" x 0.98"]	4038-7013
IGFP 26mm x 26mm [1.02" x 1.02"]	29mm x 29mm [1.14" x 1.14"]	4038-7018
IGFP 30mm x 30mm [1.18" x 1.18"]	33mm x 33mm [1.29" x 1.29"]	4038-7015
Nozzle Kit	1mm [0.04"] to 7mm [0.28"]	6993-0244