MEGA®
CAPILLARY COLUMNS LABORATORY

Gas Chromatography Made in Italy

HELIUM Carrier Gas

RECCOMENDED COLUMN PRESSURE-FLOW **(For the analysis start at the conditions in the box below *)**

L \ d.i.	50 µm	100 µm	0.18 mm	0.25 mm	0.32 mm	0.53 mm
5 m	**500 – 760 kPa** ***72.2 – 110 psi*** **5 – 7.6 bar** ***0.15 – 0.3 ml/min***	**115 – 170 kPa** ***16.1 – 24.5 psi*** **1.15 – 1.7 bar** ***0.25 – 0.4 ml/min***				
10 m		**258 – 339 kPa** ***37.3 – 49.1 psi*** **2.6 – 3.4 bar** ***0.35 – 0.6 ml/min***	**52 – 85 kPa** ***7.6 – 12.3 psi*** **0.52 – 0.85 bar** ***0.5 – 0.9 ml/min***	**27 – 43 kPa** ***3.9 – 6.2 psi*** **0.27 – 0.43 bar** ***0.8 – 1.4 ml/min***	**16 – 26 kPa** ***2.4 – 3.8 psi*** **0.16 – 0.26 bar** ***1.2 – 2 ml/min***	**6 – 9.5 kPa** ***0.9 – 1.4 psi*** **0.07 – 0.1 bar** ***3.1 – 5.1 ml/min***
15 m			**80 – 130 kPa** ***11.5 – 18.8 psi*** **0.8 – 1.3 bar** ***0.5 – 1 ml/min***	**40 – 65 kPa** ***5.8 – 9.4 psi*** **0.4 – 0.65 bar** ***0.8 – 1.5 ml/min***	**24.5 – 40 kPa** ***3.6 – 5.7 psi*** **0.25 – 0.4 bar** ***1.3 – 2.1 ml/min***	**9 – 14.5 kPa** ***1.3 – 2.1 psi*** **0.09 – 0.14 bar** ***3.2 – 5.2 ml/min***
25 m			**135 – 225 kPa** ***19.6 – 32.5 psi*** **1.35 – 2.25 bar** ***0.6 – 1.3 ml/min***	**68 – 110 kPa** ***9.8 – 16.1 psi*** **0.68 – 1.1 bar** ***0.9 – 1.8 ml/min***	**41 – 66 kPa** ***5.9 – 9.6 psi*** **0.4 – 2.4 bar** ***1.3 – 2.4 ml/min***	**15 – 23.8 kPa** ***2.1 – 3.5 psi*** **0.15 – 0.24 bar** ***3.3 – 5.5 ml/min***
30 m				**82 – 135 kPa** ***11.9 – 19.5 psi*** **0.82 – 1.35 bar** ***1 – 1.9 ml/min***	**50 – 80 kPa** ***7.2 – 11.6 psi*** **0.5 – 0.8 bar** ***1.4 – 2.6 ml/min***	**18 – 28.5 kPa** ***2.6 – 4.1 psi*** **0.18 – 0.28 bar** ***3.3 – 5.6 ml/min***
50 m					**83 – 138 kPa** ***12.1 – 19.9 psi*** **0.83 – 1.38 bar** ***1.6 – 3.2 ml/min***	**30 – 48 kPa** ***4.3 – 7 psi*** **0.3 – 0.48 bar** ***3.5 – 6 ml/min***
60 m						**35 – 58 kPa** ***5 – 8.5 psi*** **0.35 – 0.58 bar** ***3.7 – 6.5 ml/min***

***** Helium: 25 – 40 cm/s
Helium: 32 – 45 cm/s FAST-GC
T = 50°C
P out = 1 atm

FAST – GC **TRADITIONAL – GC** **WIDE BORE**

MEGA s.n.c.
Via Plinio, 29
I - 20025 Legnano (MI)
Tel./Fax: +39 0331 54.79.24
e-mail: info@mega.mi.it
internet: www.mega.mi.it

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Gas Chromatography Made in Italy

HYDROGEN Carrier Gas

RECCOMENDED COLUMN PRESSURE - FLOW (For the analysis start at the conditions in the box below *)

L \ d.i.	50 µm	100 µm	0.18 mm	0.25 mm	0.32 mm	0.53 mm
5 m	**300 – 630 kPa** ***43 – 91 psi*** **3 – 6.3 bar** ***0.15 – 0.4 ml/min***	**68 – 140 kPa** ***9.9 – 20.2 psi*** **0.68 – 1.4 bar** ***0.25 – 0.6 ml/min***				
10 m		**140 – 296 kPa** ***20.2 – 43 psi*** **1.4 – 2.95 bar** ***0.3 – 0.9 ml/min***	**41.5 – 84 kPa** ***6 – 12.2 psi*** **0.41 – 0.84 bar** ***0.7 – 1.6 ml/min***	**21.5 – 43 kPa** ***3.1 – 6.2 psi*** **0.21 – 0.43 bar** ***1.2 – 2.6 ml/min***	**13 – 26 kPa** ***1.9 – 3.8 psi*** **0.13 – 0.26 bar** ***1.9 – 4 ml/min***	**5 – 9.6 kPa** ***0.7 – 1.4 psi*** **0.05 – 0.1 bar** ***5 – 10.5 ml/min***
15 m			**62.5 – 129 kPa** ***9 – 18.7 psi*** **0.62 – 1.29 bar** ***0.8 – 1.9 ml/min***	**32 – 65 kPa** ***4.6 – 9.4 psi*** **0.32 – 0.65 bar** ***1.3 – 2.9 ml/min***	**19.4 – 39 kPa** ***2.8 – 5.7 psi*** **0.19 – 0.39 bar** ***2 – 4.3 ml/min***	**7.1 – 14.1 kPa** ***1 – 2 psi*** **0.07 – 0.14 bar** ***5.1 – 10.5 ml/min***
25 m			**106 – 225 kPa** ***15.3 – 32.3 psi*** **1.05 – 2.25 bar** ***0.9 – 2.6 ml/min***	**54 – 110 kPa** ***7.8 – 16 psi*** **0.54 – 1.1 bar** ***1.4 – 3.5 ml/min***	**32.5 – 65 kPa** ***4.7 – 9.5 psi*** **0.32 – 0.65 bar** ***2.1 – 4.8 ml/min***	**11.8 – 23.4 kPa** ***1.7 – 3.4 psi*** **0.11 – 0.23 bar** ***5.2 – 11 ml/min***
30 m				**65 – 134 kPa** ***9.4 – 19.4 psi*** **0.65 – 1.34 bar** ***1.5 – 4.0 ml/min***	**40 – 79 kPa** ***5.7 – 11.5 psi*** **0.4 – 0.79 bar** ***2.1 – 5 ml/min***	**14.1 – 28.3 kPa** ***2 – 4.1 psi*** **0.14 – 0.28 bar** ***5.4 – 11.2 ml/min***
50 m		***** Hydrogen: 40 – 80 cm/s T = 50°C P out = 1 atm			**66 – 136 kPa** ***9.5 – 19.7 psi*** **0.66 – 1.36 bar** ***2.4 – 6.2 ml/min***	**24 – 47 kPa** ***3.4 – 6.9 psi*** **0.24 – 0.47 bar** ***5.5 – 12.3 ml/min***
60 m						**28 – 57 kPa** ***4.1 – 8.3 psi*** **0.28 – 0.57 bar** ***5.6 – 12.5 ml/min***
	FAST – GC		**TRADITIONAL – GC**			**WIDE BORE**

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