

INSTALLATION VOLUME (IV) AND PURGE VOLUME (PV) DOMESTIC COPPER PIPEWORK

Diameter (mm)	Individual lengths (m)						Total length (m)	× Cross-sectional area (m ²)	= IV of pipe (m ³)	
35								· 00084		
28								· 00054		
22								· 00032		
15								· 00014		
							IV_{pipes}		m ³	
							IV_{fittings} = IV_{pipes} ÷ 10		m ³	
							E6	· 0024 m ³	IV_{meter}	m ³
							U6 / G4	· 008 m ³		
							U16 / G10	· 025 m ³		
							IV_{total} = IV_{pipes} + IV_{fittings} + IV_{meter}		m ³	
							If <u>all</u> pipes ≤ 28 mm <u>and</u> meter ≤ 6 m ³ / h	PV = 0·010 m³		m ³
							If <u>any</u> pipes > 28 mm <u>or</u> meter > 6 m ³ / h	PV = IV_{total} × 1·5		

For natural gas, if IV_{total} exceeds 0.02 m³, purge gases must be continuously ignited at a suitable burner with the gas supply turned on.

For LPG, purge gases must always be continuously ignited at a suitable burner with the gas supply turned on.

If IV_{total} exceeds 0.035 m³ the system is outside the scope of the domestic tightness testing and purging standard IGEM/UP/IB and any tightness test or purge will need to be performed to the appropriate commercial standard (either IGE/UP/IA or IGE/UP/I) by an engineer with the TPCPIA or TPCPI qualification.

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