

INSTALLATION VOLUME (IV) AND PURGE VOLUME (PV) CALCULATION SHEET FOR STEEL PIPE SYSTEMS													
Nom. bore	Individual lengths (m)									Nom. bore	Total length (m)	x CSA (m ²)	= Pipe IV (m ³)
150 mm										150 mm		· 02	
125 mm										125 mm		· 014	
100 mm										100 mm		· 009	
80 mm										80 mm		· 0054	
65 mm										65 mm		· 0038	
50 mm										50 mm		· 0024	
40 mm										40 mm		· 0015	
32 mm										32 mm		· 0011	
25 mm										25 mm		· 00064	
20 mm										20 mm		· 00046	
15 mm										15 mm		· 00024	

Meter type	IV _{meter} (m ³)	Cyclic volume (m ³)
E6	· 0024	N/A
G4 U6	· 008	· 002
G10 U16	· 025	· 006
G16 U25	· 037	· 01
G25 U40	· 067	· 02
G40 U65	· 100	· 025
G65 U100	· 182	· 057
G100 U160	· 304	· 071

IV _{pipes}	m ³
IV _{fittings} = IV _{pipes} × 0.1	m ³
IV _{meter}	m ³
IV_{total}	m³
PV _{pipes} = IV _{pipes} × 1.5	m ³
PV _{fittings} = PV _{pipes} × 0.1	m ³
PV _{meter} = Cyclic volume × 5	m ³
PV _{hose} = Length × CSA × 1.5	m ³
PV_{total}	m³

For each **Nom. bore**: record all **Individual lengths**. Find the **Total length** and multiply by the **Cross-sectional area (CSA)** to get the **Pipe IV**. Add all pipe IVs to get **IV_{pipes}**.

Gas meter IVs and cyclic volumes are typical figures. Consult manufacturer's data for specific meters.

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