

### Installation Volume (IV) and Purge Volume (PV) calculation sheet for steel pipe

Pipe bore	Lengths (m)	Total length (m)	x m <sup>3</sup> per m	Volume (m <sup>3</sup> )
150s			0.02	
125s			0.014	
100s			0.009	
80s			0.0054	
65s			0.0038	
50s			0.0024	
40s			0.0015	
32s			0.0011	
25s			0.00064	
20s			0.00046	
15s			0.00024	
<b>Installation Volume of pipework = IV<sub>pipework</sub> (m<sup>3</sup>)</b>				

<b>IV<sub>pipework</sub> (m<sup>3</sup>)</b>	<b>PV<sub>pipework</sub> = 1.5 x IV<sub>pipework</sub> (m<sup>3</sup>)</b>
<b>IV<sub>fittings</sub> = 10% IV<sub>pipework</sub> (m<sup>3</sup>)</b>	<b>PV<sub>fittings</sub> = 1.5 x IV<sub>fittings</sub> (m<sup>3</sup>)</b>
<b>IV<sub>meter</sub> (m<sup>3</sup>)*</b>	<b>PV<sub>meter</sub> = 5 x cyclic volume (m<sup>3</sup>)*</b>
<b>IV<sub>total</sub> (m<sup>3</sup>)</b>	<b>PV<sub>hose</sub> = 1.5 X length X volume per metre (m<sup>3</sup>)</b>
	<b>PV<sub>total</sub> (m<sup>3</sup>)</b>

Round up final answers to 2 significant figures

\* meter IV and cyclic volume can be found in IGE/UP/1A Table 2 or an equivalent reference book

