

Australian Pipe Friction Handbook – 5th Edition

Pump Industry Australia is pleased to introduce the 5th edition of our Pipe Friction Handbook which brings the handbook up to date with the latest Australian Standards for pipes and tubes that are commonly used in Australia and includes any additional corrections that were needed.

The main changes on this occasion are, firstly, the recalculating of the two ductile iron pipe table sets as the latest standard upgrade involved a change to many internal pipe diameters. Secondly, the addition of an extra page at the start of the commercial steel pipe tables which explains that the tables in this section can be used, up to 250mm N.B., for stainless steel pipe as well as wrought steel pipe and note that these are the only tables in the handbook not to an Australian standard, they conform to ASME/ANSI B36:10M-2013 and ASME/ANSI B36:19M-2013.

The layout of the handbook is the same as the previous editions with the book split into two sections, the first covering friction tables for the following pipes and tubes:

- Commercial Steel and Stainless Pipe
- Large Fabricated Steel Pipe
- Medium and Heavy Duty Galvanised Steel Pipe
- Uncoated and Cement Lined Ductile Iron Pipe
- Copper Tube
- Brass Tube
- Stainless Steel Tube
- Series 1 and 2 PVC Pipe
- Polyethylene Pipe
- Rural Polyethylene Pipe
- Aluminium Irrigation Tube
- Elastomeric Rubber Hose
- Concrete Pipe

The second section covers how to calculate the friction loss in a wide range of pipe fittings, valves etc., together with instructions on how to calculate a pump system total head using the tables in the first section and the fittings in section two. As well as the data on pipe fittings etc., this section has a range of tables which are useful to the pump engineer.

In summary, the Australian Pipe Friction Handbook covers all you need to know to calculate the total head of a pump system.