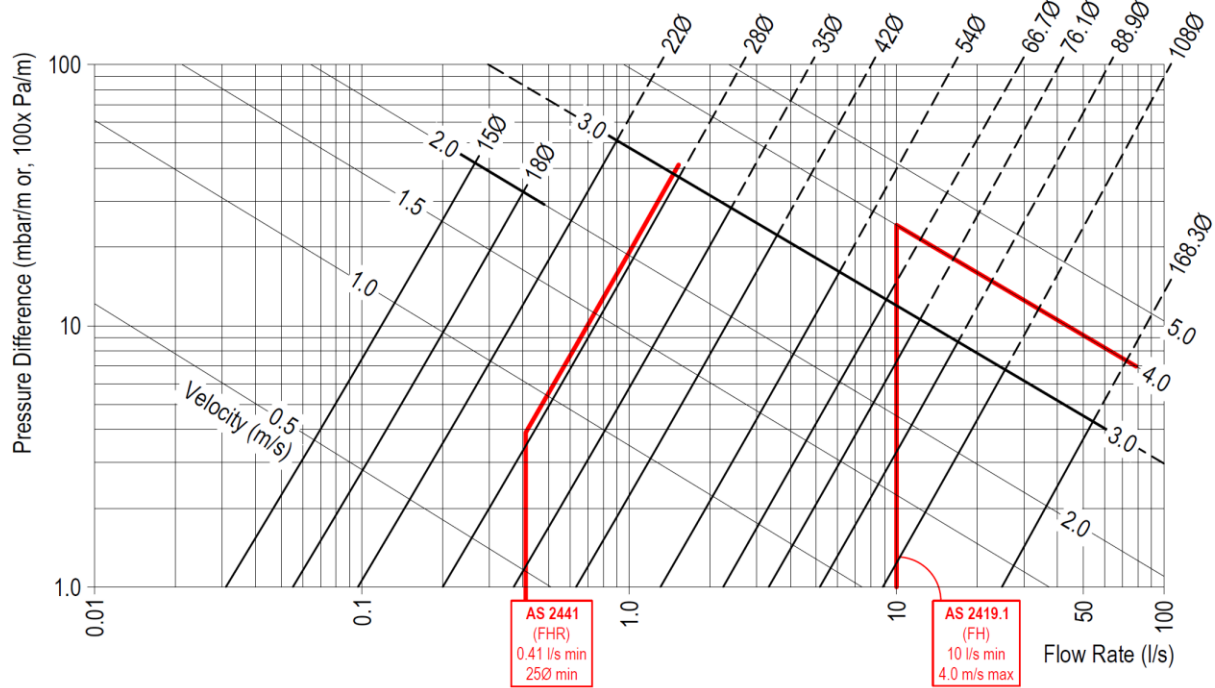


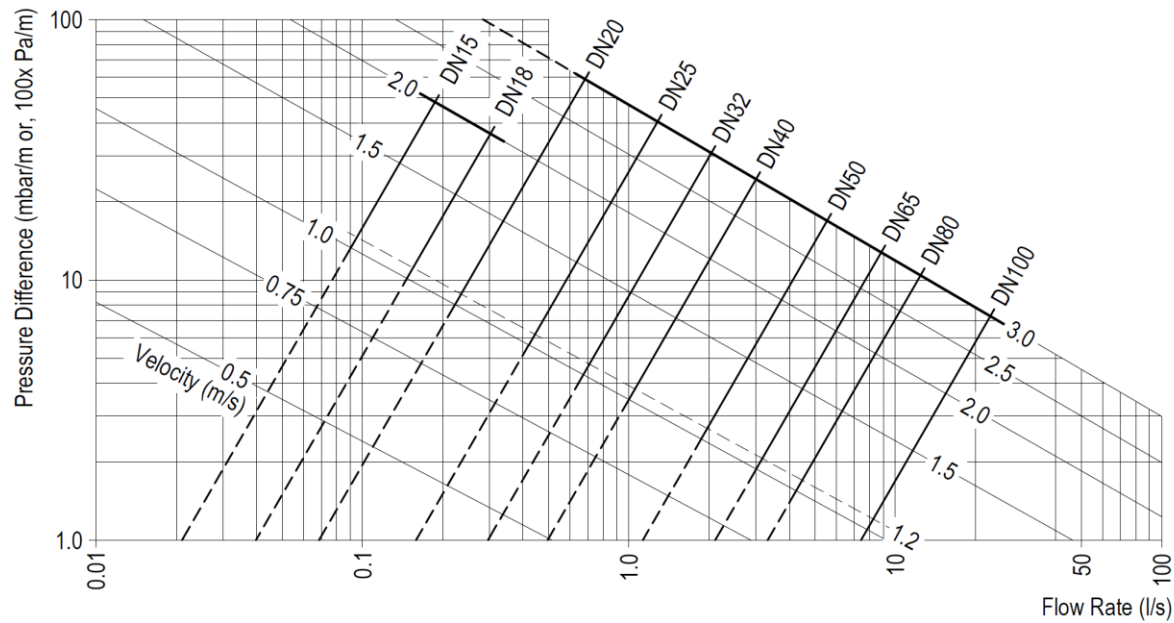
# Tech Note 30: Flow Rates & Pressure Loss (Press-Fit)

**TN.30**

**Chart M – Flow Rates & Pressure Loss for AusPress Metric Press-Fit Diameters**  
Conditions: Potable Water, 10°C.



**Chart V – Flow Rates & Pressure Loss for AusPress Copper Press-Fit Diameters**  
Conditions: Type B Tube, Potable Water, 15°C.




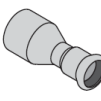
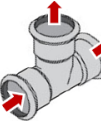
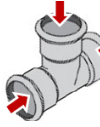
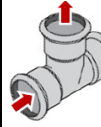



### Design Considerations

- Systems are to be professionally design in accordance with AS 3500 and installed by a licenced plumber.
- Maximum velocity values to be respected...
  - o AusPress 316 Stainless: 3.0m/s max (AS 3500); 40.0m/s max.
  - o AusPress Copper: 3.0m/s max <70°C (AS 3500), recommend 1.5m/s max >70°C.
  - o AusPress Copper Nickel (CuNiFe): To prevent internal fowling, design flow velocities between 1.0 and max 3.0m/s (DIN EN 85004-2).

### Fitting Equivalent Pipe Length (m)

Conditions: 2.0m/s

Item								
	90 Bend	45 Bend	Coupling	Reducer	Tee	Tee	Tee	BSP 90
Loss Coefficient	0.7	0.5	0.1	0.4	1.3	0.9	3.0	1.5
15Ø	0.4	0.3	0.1	0.1	0.7	0.5	0.8	0.8
18Ø	0.5	0.3	0.1	0.1	0.9	0.6	1.0	1.0
22Ø	0.6	0.5	0.1	0.2	1.2	0.8	1.4	1.4
28Ø	0.8	0.6	0.1	0.2	1.5	1.1	1.8	1.8
35Ø	1.1	0.8	0.2	0.3	2.0	1.4	2.4	2.4
42Ø	1.4	1.0	0.2	0.5	2.6	1.8	3.1	3.1
54Ø	2.0	1.4	0.3	0.6	3.7	2.5	4.2	4.2
66.7Ø	2.6	1.9	0.4	0.7	4.9	3.4	11.2	-
76.1Ø	3.0	2.1	0.4	0.9	5.6	3.9	12.9	-
88.9Ø	3.7	2.6	0.5	1.0	6.8	4.7	15.7	-
108Ø	4.6	3.3	0.7	1.3	8.6	5.9	19.8	-
168.3Ø <sup>u</sup>	5.7	4.2	0.9	3.5	10.9	7.1	25.3	-

<sup>u</sup> Diameter 168.3 fittings measured at 0.7m/s velocity.

### Further Information

 For additional or specific information, please contact [technical@auspress.com.au](mailto:technical@auspress.com.au)