

NEW PLYMOUTH STEEL SUPPLIES LTD

MALLEABLE FITTINGS

Technical Data in the Manufacturing of Malleable Pipe Fittings

1. Scope

This process is applicable to malleable iron pipe fittings to be used for ordinary piping carrying water, oil, steam, air, gas etc.

| | |
|--------------------------|-----------------------------------|
| Materials: | ASTM A 197 |
| Dimensions: | ANSI B 16.3, B 16.14 & B 16.39 |
| Threads: | ANSI B1.20.1, BS 21 |
| Tensile Strength: | 28.4 kg/mm ² (minimum) |
| Elongation: | 5% |

2. Relationship between conditions of fluid and maximum pressure

| Condition of Fluid | Maximum working pressure |
|---|---------------------------------|
| Steam, Air, Gas, Oil not higher than 300 degrees C o | 10 kg. /sq sm (142 psi) |
| Steam, Air, Gas, Oil and Pulsating water not higher than 220 degrees C | 14 kg. /sq cm (199 psi) |
| Non-shock water not higher than 120 degrees C | 20 kg. /sq cm (284 psi) |

3. Material

In conformity to ASTM A-197 Cupola malleable iron or class 1 specified in JIS G5702 Blackheart malleable iron castings. Minimum tensile strength 40,000 psi. Minimum elongation 5%

- * **We stock Malleable Fittings mainly in Galvanised in New Plymouth**
- * **Black is available for supply overnight.**
- * **Most items available in sizes 6mm to 150mm**
- * **Sizes to suit nominal bore pipe sizes**