The unification of Synergies augmenting Macsteel Trading Pipes, Fittings and Flanges already extensive range of carbon and stainless steel pipes, fittings and flanges to encompass our full range of piping systems in various coatings and linings including galvanising, painting, rubber lining, cement mortar lining, denso wrapping, etc to meet customers’ needs.
MAC SHOULDER PIPE SYSTEM

Shoulder-ended steel pipes, fittings and couplings to SANS 815-1

- The shoulder-ended system is considered flexible, where certain angular and axial movement takes place within the jointing mechanism
- Pipe size range: 50NB to 300NB
- Maximum working pressure: 25 Bar
- Light and easy to install
- SATAS permit number: 221.6/1 to apply 815-1 mark

Full range of fabricated steel fittings
- Bends 45º, 90º
- Equal Tees 45º, 90º
- Unequal Tees 45º, 90º
- Elbows 45º, 90º
- Blank ends
- Adjustable bends
- Adaptors
- Reducers
- Setting pieces 5º, 10º, 22.5º

MAC GROOVE-ENDED PIPE SYSTEM

Groove-ended steel pipes, fittings and couplings to SANS 815-2

- The groove-ended system will allow for controlled lateral pipe movement, including expansion, contraction and limited deflection
- Pipe size range: 50NB to 300NB
- Pressure ratings up to 69 Bar depending on joint configuration
- Three to five times faster to install than welding on site

Full range of fabricated roll and cut groove-ended pipes and fittings available

Full range of fabricated steel fittings
- Bends 45º, 90º
- Equal Tees 45º, 90º
- Unequal Tees 45º, 90º
- Elbows 45º, 90º
- Blank ends
- Adjustable bends
- Adaptors
- Reducers
- Setting pieces 5º, 10º, 22.5º
MAC RING-JOINT SYSTEM

Ring Joint System: pipes, fittings and couplings

The Shurjoint® R088 ring joint piping system is a non-grooved mechanical pipe joining method and an excellent alternative where pipe is difficult to groove or when grooving, flanges or welding is not the preferred method.

- Pipe size range: 350NB to 600NB
- Maximum working pressure: up to 28 Bar, depending on the joint configuration
- Wall thickness of pipe not dependant on ring joint system as with roll grooving
- Round steel rings: SAE J403 / ANSI 1020 or stainless steel
- Ductile iron housings: ASTM A536 Gr. 65-45-12 / A395 Gr. 65-45-15
- Rubber gasket: EPDM pr Nitrite
- Heavy duty bolts and nuts: Zinc plated ASTM A183 Gr. 2 / ASTM A563
- Full range of fabricated ring joint fittings are available
- The pipe is supplied with a factory welded ring into each pipe end, galvanised or coated as per requirements

For installation, mount the rubber gasket over the pipe ends, place coupling segments over the gasket and fasten the bolts and nut.

CABLE-LOCK™ PIPE SYSTEM

Cable-locked integrated spigot and socket steel pipe system

- Cable-Link™ uses the same tried and tested socket system used in the plastic pipe systems, with the addition of the retaining or 'flex wire' incorporated in front of the seal to 'lock' the two pipes together
- Cable-Link™ pipe is suitable for above and below ground installations
- Pipe size range: 50NB to 250NB
- Maximum working pressure: 20 Bar

Full range of fabricated fittings available

Easy to assemble and dis-assembly. Use pulling tool for big OD pipes
LULA/LULA-LOCK™ PIPE SYSTEM

Steel pipes rolled to plastic pipe sizes with integral locked socket

- Lula pipe system is totally interchangeable with plastic pipes and fittings
- Lula-Lock™ pipe system is the same socket system used in the plastic pipe systems, with the addition of the retaining wire incorporated in front of the seal to ‘lock’ the two pipes together
- Lula/Lula-Lock™ pipe systems can be laid above or below the ground - no special backfill required
- Ideal for rocky areas, river or bridge crossings - no damage through exposure to UV
- Less likely to be subjected to illegal connections
- Full range of fabricated Lula fittings available, including reduction adaptors between Lula and Cable-Lock™ male and female ends
- Pipe size range: 63mm to 200mm OD
- Maximum working pressure: 20 Bar

MAC FLANGED PIPE SYSTEM

Fabricated steel pipes and fittings to SANS 1476

- Pipe size range: 50NB to 100NB
- Maximum working pressure of system is that of max working pressure of flange
MACFLO DUCTILE PIPE SYSTEM

Supply of ductile iron pipes for water and waste water applications

The conservative design approach offers an impressive factor of safety. The contractor enjoys the ease of assembly and the adaptability of a pipe product that allows field adjustment to minimise costly delays. The owner receives a long lasting pipe that is easy to operate and maintain, with a simple corrosion control system may require limited cathodic protection in certain circumstances. The designer has the flexibility of a system that takes on difficult terrain without need for extensive civil engineering work.

- Pipe size range: 80NB to 2000NB
- Maximum working pressure: Class K8 and K9
- Specifications: SANS 50545:2003 for potable water
  SANS 50598:2007 for sewage applications
PIPPES, FITTINGS AND FLANGES

PIPPES

SANS 62 - CARBON STEEL
- Plain Ended Uncoated
- Black Screwed and Socketed
- Red Screwed and Socketed
- Galvanized Screwed and Socketed
- Galvanized Screwed and Capped
- Galvanized Exacts
- Stand Pipes

SANS 719 - WELDED CARBON STEEL

SEAMLESS CARBON STEEL
- ASTM A106, API 5LB, ASTM A53, ASME SA106

STAINLESS STEEL PIPE
- Welded and seamless - ASTM A312 304L and 316L

Other sizes, schedule/wall thickness and lengths available on application or request.
FITTINGS

EN10241 - Wrought Steel Screwed Fittings
EN10242 - Malleable Cast Screwed Fittings
JIS B2311-C - Carbon Steel Welded Butt-Weld Fittings

ASTM A234 WPB - Carbon Steel Seamless Butt-Weld Fittings
ASTM A403 WPB - Stainless Steel Welded Butt-Weld Fittings
JIS B2311-C - Carbon Steel Welded Butt-Weld Fittings

ISO 4144 Stainless Steel 316 150lb Screwed Fittings

ANSI: B16.11 Threads to ANSI B1-20-1 Forged Carbon Steel Fittings

FLANGES

Wrought Steel, Mild Steel and Galvanised Backing Flange are to dimension specs EN1092-1: 2018, SANS 1123: 2011, BS10: 1962

Forged Flanges to ANSI B16.5
ASTM / ASME A/SA240 Plate Flanges - Stainless Steel Plate Flanges

Other sizes, schedule/wall thickness and lengths available on application or request.
Africa’s leading steel supplier

Pipes, Fittings & Flanges

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