Steel Mains Steel Pipeline Systems flanges are available across a full size range and are specifically manufactured to match the steel pipe or branch shell diameter nominated.

Flanges are generally manufactured in accordance with AS 4087 or AS 2129 depending on the design requirements.

Flanges to alternative or international standards are also manufactured by Steel Mains, however please consult with Steel Mains prior to placing orders to confirm availability.

Tailor made flanges can also be manufactured to meet specific design requirements. These can be supplied from a range of materials including stainless steel and are designed to ensure compatibility with both mating surfaces and bolting requirements.
- Consult the Steel Mains Steel Pipeline Systems Design manual for design information
- Check with Steel Mains on material availability prior to placing any orders

Steel Mains Flanges for Steel Pipeline Systems are suitable for use with potable water and waste water in above and below ground applications.*

For special application requirements, beyond what is specified in this datasheet, please contact Steel Mains.
*Only applies to Steel Mains recommended coating and lining systems. Please consult the design manual for further details.

GENERAL APPLICATION

Operating Pressures
Maximum 3500kPa

Operating Temperatures
-40°C to 70°C

Certifications
AS/NZS ISO 9001
AS/NZS 4020
AS 1579 Standards Mark

TECHNICAL DATA

Size Range
114mm to 2500mm diameter

Operating Pressures
Maximum 3500kPa

Operating Temperatures
-40°C to 70°C

Certifications
AS/NZS ISO 9001
AS/NZS 4020
AS 1579 Standards Mark
IDENTIFICATION OF FLANGES

SPECIFYING FLANGES

1 - Type
Determine the flange type:
- blind
- slip-on
- weld neck

2 - Flange rating
Specify the flange Standard:
- AS4087
- AS2129 or other

Determine the pressure requirements for the flange PN rating, (e.g. PN 16 – equivalent to 1600KPa, 16 Bar or approximately 160 metres of head)

3 - Diameter
Nominate the nominal bore diameter in mm (DN), according to the applicable flange standard

4 - Flange bore
Nominate the actual flange bore in mm.
For slip-on and weld neck flanges, nominate the pipe, or branch, steel shell outside diameter. A flange bore diameter is also required for blind flanges where an internal coating system is to be applied

5 - Face type
Specify the flange face requirements
- Flat face
- Raised face
- O-ring seal

6 - Coating
Specify the external coating of the flange, if required
- Sintakote
- Uncoated
- Zinc paint
- Epoxy
- Special coating

7 - Holding coat
Specify if a temporary holding coat is required on the flange, including the flange face. This will extend the storage life of the flange
The holding coat is generally a weldable zinc paint up to 50µm in thickness
All flange faces will be supplied with a light oil film for temporary protection

8 - Material
Material is generally to AS/NZS 3678. Alternative material types and grades should be specified if required