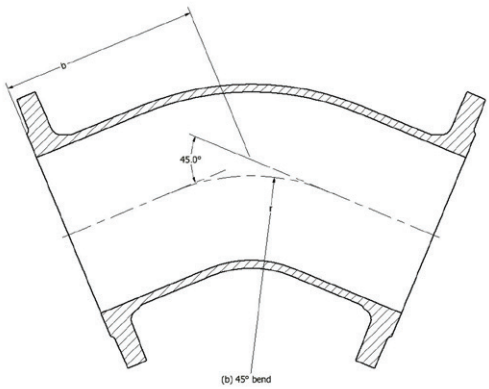
DERWENT FLOW CONTROL

BENDS

DUCTILE IRON

Derwent Industries manufacture and distribute Ductile Iron Bends in sizes from 80mm - 750mm (Depending on item selected). Bends are manufactured in standard 11 1/4, 22.5, 45 and 90 degree, though Derwent can manufacture other required angles also across the range.



FEATURES

- **Configurations Available**
  - Socket
  - Flange/Socket
  - Flanged, Spigot
  - Flange/Spigot
  - Washout
  - Hydrant
  - Duckfoot
- **Coating:**
  Rilsan/Nylon 11, Plascoat, FBE
- **Derwent DI Fitting sockets, Series 1 and Series 2.**
  - DN100 - 250, allowance of 3.5 deg angular deflection
  - DN300 - 600, 2.5 degrees
  - DN750, 1 degree

APPLICATIONS

Piping System Directional Changes: Ductile Iron Bends are used to change the direction of piping systems smoothly, minimizing turbulence and ensuring efficient fluid flow.

Water Distribution Systems: Essential for municipal water supply networks, facilitating directional changes while maintaining the integrity and efficiency of the system.

Wastewater Management: Utilized in sewage and wastewater treatment plants to direct flow and manage the layout of complex piping networks.

Fire Protection Systems: Critical in fire suppression systems for directing water flow to various parts of the system, ensuring effective coverage and performance.

Industrial Piping Systems: Used in various industrial applications where robust and reliable directional changes are required, such as in chemical processing plants, power plants, and manufacturing facilities.

TECHNICAL DATA

Material:	Ductile Iron
Size Range:	DN 80 - DN 1000 (depending on item selected)
Standards:	AS/NZS 2280:2014 (Where applicable)
Certification:	Product License No. SMK1989

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DUCTILE IRON BENDS

SOCKET BEND

FLANGE BEND

WASHOUT BEND

APPLICATIONS

1. Socket Bends

Commonly used in water distribution and sewage systems where easy assembly and disassembly are required. Ideal for connecting pipes in confined spaces where welding or flanging is not feasible.

2. Flange/Socket Bends:

Utilized in systems where a combination of bolted flange connections and socket connections is needed. Often found in municipal water systems, treatment plants, and industrial piping networks requiring flexible installation and maintenance options.

3. Flanged Bends: AUsed in high-pressure systems and industrial applications where secure, leak-proof connections are crucial. Typical in power plants, chemical processing, and heavy industry where durability and reliability are paramount.

4. Flange/Spigot Bends:

Ideal for connecting flanged fittings to plain-end pipes, providing versatility in installation. Common in water and wastewater treatment plants, as well as in industrial pipelines where a combination of rigid and flexible connections is needed.

5. Washout Bends:

Designed for washout points in pipelines to facilitate cleaning and maintenance. Essential in municipal water supply and sewage systems to prevent blockages and ensure smooth operation.

6. Hydrant Bends:

Specifically designed for fire hydrant installations, these bends allow for the proper positioning and connection of hydrants in fire protection systems. Critical for ensuring efficient water delivery in firefighting operations.

7. Duckfoot Bends:

Used to change the direction of flow at a vertical angle, typically from horizontal to vertical or vice versa. Common in pump stations, water treatment facilities, and irrigation systems where vertical alignment is necessary.

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