



GI PIPE WEIGHT CHART 2026

Complete Guide to GI Pipe Weight, Dimensions, Classes & Price

GI Pipe Weight Chart | GI Pipe Size Chart | GI Pipe Weight Per Meter | GI Pipe Price Reference



About This Guide

The **GI Pipe Weight Chart 2026** provides a practical reference for commonly used galvanized iron pipe sizes, dimensions, wall thicknesses, pipe classes, approximate weights, weight calculation methods, and indicative price calculations.

This guide is useful for contractors, engineers, fabricators, architects, procurement professionals, project managers, traders, and buyers involved in construction, plumbing, water supply, agriculture, infrastructure, and industrial projects.

This Guide Includes

- GI Pipe Weight Chart
- GI Pipe Dimensions
- Class A, Class B & Class C Weight Reference
- GI Pipe Weight Per Meter
- GI Pipe Weight Calculation Formula
- GI Pipe Price Per Kg Reference
- GI Pipe Price Per Meter Calculation
- GI Pipe Applications

- GI Pipe Buying Checklist
 - Indian Standard References
 - Price & Weight Disclaimer
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GI Pipe Weight Chart 2026

GI pipe weight varies according to nominal pipe size, outside diameter, wall thickness, pipe class, manufacturing tolerances, and galvanizing requirements.

The following table provides approximate reference values for commonly used round GI pipes.

GI Pipe Weight Chart – Round Pipes

Reference: IS 1239 Part 1

Nominal Size	Outside Diameter (mm)	Wall Thickness (mm)	Class A Weight (kg/m)	Class B Weight (kg/m)	Class C Weight (kg/m)
1/2"	21.3	2.77	1.02	1.27	1.56
3/4"	26.7	2.87	1.28	1.58	1.94
1"	33.4	2.87	1.78	2.27	2.73
1 1/4"	42.2	3.25	2.46	3.11	3.79
1 1/2"	48.3	3.25	2.83	3.57	4.38
2"	60.3	3.65	3.68	4.63	5.56
2 1/2"	73.0	4.00	4.83	6.05	7.30
3"	88.9	4.00	5.87	7.35	8.87
4"	114.3	4.50	7.90	9.88	12.00
6"	168.3	5.49	13.00	16.20	19.90

Note

These values are provided for general reference and estimation purposes. Actual supplied pipe weight may vary depending on applicable standards, manufacturing tolerances, actual dimensions, steel specification, and zinc coating.

For critical applications, users should verify the manufacturer’s technical documentation and actual supplied weight.



GI PIPE WEIGHT CHART

Weight Chart for GI Pipes as per IS 1239 (Medium Class)

All weights are in KG per Meter

Nominal Bore (Inch)	Outside Diameter (mm)	Wall Thickness (mm) / Weight (kg per meter)								
		2.0	2.3	2.6	2.9	3.2	3.6	4.0	4.5	5.0
1/2"	21.3	0.93	1.06	1.19	1.32	1.44	1.61	1.77	1.97	2.16
3/4"	26.9	1.28	1.47	1.65	1.82	1.99	2.24	2.47	2.76	3.04
1"	33.7	1.64	1.88	2.12	2.35	2.58	2.90	3.20	3.58	3.94
1 1/4"	42.4	2.11	2.42	2.72	3.02	3.31	3.72	4.11	4.61	5.09
1 1/2"	48.3	2.45	2.81	3.16	3.50	3.84	4.31	4.76	5.34	5.90
2"	60.3	3.13	3.59	4.04	4.48	4.91	5.52	6.10	6.85	7.57
2 1/2"	76.1	4.01	4.61	5.19	5.76	6.32	7.11	7.86	8.83	9.78
3"	88.9	4.74	5.44	6.13	6.80	7.47	8.40	9.30	10.44	11.56
4"	114.3	6.19	7.10	7.99	8.87	9.74	10.95	12.12	13.60	15.05
5"	139.7	–	8.74	9.86	10.96	12.04	13.56	15.02	16.85	18.65
6"	168.3	–	10.59	11.94	13.27	14.59	16.42	18.20	20.44	22.64

Note:

- Weights are theoretical and may vary slightly in actual.
- GI Pipes confirm to IS 1239 (Medium Class) unless specified.



Formula Used:

Weight (kg/m) = $0.02466 \times (D - t) \times t$

Where, D = Outside Diameter (mm)

t = Wall Thickness (mm)

Understanding GI Pipe Dimensions

Understanding GI pipe dimensions is important when selecting the appropriate pipe for a construction, plumbing, industrial, agricultural, or infrastructure project.

1. Nominal Pipe Size

Nominal pipe size is generally expressed in inches and is used to identify the standard pipe size.

Common GI pipe sizes include:

- 1/2"
- 3/4"
- 1"
- 1 1/4"
- 1 1/2"
- 2"
- 2 1/2"
- 3"
- 4"
- 6"

2. Outside Diameter

Outside diameter, commonly abbreviated as **OD**, represents the external diameter of the pipe.

It is generally measured in millimetres.

Example:

A commonly referenced 2-inch pipe has an outside diameter of approximately **60.3 mm**.

3. Wall Thickness

Wall thickness represents the thickness of the steel pipe wall.

Generally, a thicker pipe wall results in:

- Higher pipe weight
- Greater material usage
- Higher weight per meter
- Increased handling requirements

The required wall thickness should always be selected according to the applicable specification and intended application.

4. Weight Per Meter

GI pipe weight is commonly expressed in:

kg/m

This represents the approximate weight of one meter of pipe.

Example

If a pipe weighs:

7.35 kg/m

then 100 meters would weigh approximately:

$$7.35 \times 100 = 735 \text{ kg}$$

How to Calculate GI Pipe Weight

GI pipe weight can be estimated using the weight per meter and the total required length.

Total Pipe Weight Formula

$$\text{Total Pipe Weight} = \text{Weight Per Meter} \times \text{Total Pipe Length}$$

Example 1

Suppose:

$$\text{Pipe Weight} = 7.35 \text{ kg/m}$$

$$\text{Required Length} = 100 \text{ meters}$$

Calculation:

$$7.35 \times 100 = 735 \text{ kg}$$

$$\text{Estimated Total Pipe Weight} = 735 \text{ kg}$$

Example 2

Suppose:

$$\text{Pipe Weight} = 10 \text{ kg/m}$$

$$\text{Required Length} = 500 \text{ meters}$$

Calculation:

$$10 \times 500 = 5,000 \text{ kg}$$

Therefore:

$$\text{Total Estimated Weight} = 5,000 \text{ kg}$$

or

$$5 \text{ Metric Tonnes}$$

Theoretical Steel Pipe Weight Formula

The theoretical weight of a steel pipe can be estimated using:

$$\text{Weight (kg/m)} = 0.02466 \times \text{WT} \times (\text{OD} - \text{WT})$$

Where:

OD = Outside Diameter in mm

WT = Wall Thickness in mm

0.02466 = Steel density conversion constant

Example Calculation

For a pipe with:

OD = 60.3 mm

WT = 3.65 mm

The theoretical weight can be estimated as:

$$\text{Weight} = 0.02466 \times 3.65 \times (60.3 - 3.65)$$

The result represents the theoretical steel weight per meter.

Important Note

The actual finished GI pipe weight may differ from theoretical steel weight because of manufacturing tolerances and the zinc coating applied during galvanizing.

For commercial procurement, manufacturer-certified technical information should be preferred.

GI Pipe Classes and Weight Variations

GI pipes may be supplied in different classes or specifications depending on the applicable standard and intended application.

The pipe class can influence wall thickness, weight, and suitability for particular applications.

Class A GI Pipes

Class A GI pipes are generally associated with lighter-duty requirements and lower weight compared with heavier pipe classes.

They may be considered where lower material weight is desirable and project conditions do not require heavier wall thickness.

Before selecting Class A pipe, users should verify:

- Application
 - Pressure requirement
 - Dimensions
 - Applicable specification
 - Manufacturer requirements
-

Class B GI Pipes

Class B GI pipes are commonly considered for general plumbing, water supply, construction, and engineering applications.

They can provide a balance between:

- Weight
- Strength
- Durability
- Cost
- General service requirements

The suitability of Class B pipe should be confirmed according to the actual application and applicable specification.

Class C GI Pipes

Class C GI pipes are generally associated with heavier-duty requirements and higher pipe weight.

Heavier pipe construction may be considered where the application requires greater wall thickness.

For heavier GI pipes, project planners should account for:

- Transportation
- Storage
- Lifting
- Handling
- Pipe supports
- Structural loading

GI Pipe Price Per Kg & Price Per Meter 2026



GI PIPE PRICE LIST

LATEST GI PIPE PRICE PER KG & PER METER

 PREMIUM QUALITY

 HIGH DURABILITY

 BEST PRICES

 ON TIME DELIVERY

GI PIPE PRICE TODAY						
Nominal Bore (Inch)	Outside Diameter (mm)	GI Pipe Price per KG (₹)			GI Pipe Price per Meter (₹)	
		Light Class	Medium Class	Heavy Class	Medium Class	Heavy Class
1/2"	21.3	62.00	68.00	75.00	145.00	160.00
3/4"	26.9	60.00	66.00	72.00	185.00	205.00
1"	33.7	58.00	64.00	70.00	230.00	255.00
1 1/4"	42.4	58.00	63.00	69.00	295.00	325.00
1 1/2"	48.3	56.00	61.00	67.00	345.00	380.00
2"	60.3	55.00	60.00	66.00	460.00	510.00
2 1/2"	76.1	54.00	59.00	65.00	570.00	635.00
3"	88.9	54.00	58.00	64.00	675.00	750.00
4"	114.3	55.00	59.00	65.00	905.00	1,005.00
5"	139.7	56.00	60.00	66.00	1,150.00	1,280.00
6"	168.3	57.00	61.00	67.00	1,395.00	1,550.00



Price Basis:
Ex-Mill Price, Exclusive of GST
Prices May Vary as per Market
Conditions & Quantity.

FACTORS AFFECTING GI PIPE PRICES

 Raw Material Prices

 Zinc Coating Thickness

 Pipe Size & Thickness

 Market Demand & Supply

 Transportation Charges

 Quantity & Delivery Location



NOTE:
PRICES ARE SUBJECT TO CHANGE
WITHOUT PRIOR NOTICE.



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GI pipe prices can vary according to market conditions and product specifications.

Factors affecting price include:

- Pipe size
- Wall thickness
- Pipe class
- Manufacturer
- Zinc coating
- Steel market price
- Order quantity
- GST
- Freight
- Delivery location

Suppliers may quote GI pipes on a:

Per Kg

Per Meter

or

Per Length

basis.

GI Pipe Price Reference Table 2026

GI Pipe Size	Class B Weight (kg/m)	Indicative Price (₹/kg)	Approx. Price (₹/m)
1/2"	1.27	₹65–₹82	₹82.55–₹104.14
3/4"	1.58	₹65–₹82	₹102.70–₹129.56
1"	2.27	₹65–₹82	₹147.55–₹186.14
1 1/4"	3.11	₹65–₹82	₹202.15–₹255.02
1 1/2"	3.57	₹65–₹82	₹232.05–₹292.74
2"	4.63	₹65–₹82	₹300.95–₹379.66
2 1/2"	6.05	₹65–₹82	₹393.25–₹496.10
3"	7.35	₹65–₹82	₹477.75–₹602.70
4"	9.88	₹65–₹82	₹642.20–₹810.16
6"	16.20	₹65–₹82	₹1,053.00–₹1,328.40

Price Reference Note

The above prices are indicative reference values only. Actual GI pipe prices may vary depending on current steel prices, manufacturer, specifications, quantity, GST, freight, and delivery location.

How to Calculate GI Pipe Price

When the supplier provides a price per kilogram, the approximate price per meter can be calculated using:

$$\text{GI Pipe Price Per Meter} = \text{Weight Per Meter} \times \text{Price Per Kg}$$

Example

Suppose:

$$\text{GI Pipe Weight} = 5 \text{ kg/m}$$

$$\text{Price} = ₹80/\text{kg}$$

Calculation:

$$5 \times ₹80 = ₹400/\text{m}$$

Therefore:

$$\text{Approximate Price} = ₹400 \text{ per meter}$$

Price for a 6-Meter Pipe

If the price is:

$$₹400/\text{m}$$

and pipe length is:

$$6 \text{ meters}$$

Then:

$$₹400 \times 6 = ₹2,400$$

$$\text{Approximate Pipe Price} = ₹2,400$$

This calculation is for reference only.

Actual commercial pricing may include additional charges.

GI Pipe Price Disclaimer

GI pipe prices are subject to market fluctuations and may vary depending on:

- Steel prices
- Pipe size
- Wall thickness
- Pipe class
- Manufacturer
- Zinc coating
- Order quantity
- GST
- Freight
- Loading and unloading
- Delivery location
- Commercial terms

The prices shown in this PDF are **indicative reference values and not a fixed quotation**.

For the latest GI pipe price, buyers should request a current quotation based on the required size, class, specification, quantity, and delivery location.

Practical Applications of GI Pipe Weight Charts



GI PIPE APPLICATIONS

GI (Galvanized Iron) Pipes are widely used in various industries and applications due to their strength, durability, corrosion resistance and cost-effectiveness.

- Corrosion Resistance
- High Durability
- High Strength
- Low Maintenance
- Cost Effective

MAJOR APPLICATIONS OF GI PIPES

 PLUMBING & WATER SUPPLY	 FIRE FIGHTING SYSTEMS	 AGRICULTURE & IRRIGATION	 SCAFFOLDING & CONSTRUCTION	 RAILINGS & FENCING
 ELECTRICAL CONDUITS	 INDUSTRIAL PIPING	 STRUCTURAL APPLICATIONS	 HVAC SYSTEMS	 STREET LIGHT POLES

- LONG LIFE
- WEATHER RESISTANT
- VERSATILE USE
- RELIABLE PERFORMANCE

GI pipe weight charts are useful for various construction, engineering, industrial, and procurement activities.

Material Estimation

Contractors can estimate the approximate amount of GI pipe material required for a project.

Transportation Planning

Knowing total pipe weight helps in estimating vehicle capacity and transportation requirements.

Structural Load Calculations

Engineers can consider pipe weight when calculating loads on:

- Pipe supports
- Racks
- Hangers
- Structures
- Installation systems

Procurement Planning

Procurement teams can use weight information when comparing supplier quotations and estimating total material requirements.

Warehouse Management

Pipe weight information helps with:

- Storage planning
- Rack selection
- Handling equipment
- Floor-load planning

Crane and Lifting Planning

For heavy pipes or large quantities, weight information can assist in planning appropriate lifting equipment and handling arrangements.

Common GI Pipe Applications

GI pipes are commonly considered for applications such as:

Water Supply

Used in suitable water supply and distribution applications according to applicable specifications.

Plumbing

Used in residential, commercial, and industrial plumbing systems where GI pipe is specified.

Agriculture & Irrigation

Used in suitable agricultural water supply and irrigation installations.

Construction

Used in construction and general engineering applications.

Industrial Applications

Used for selected industrial utility and engineering applications according to service requirements.

Infrastructure

Used in various infrastructure and utility projects.

Fire Protection

Used in fire protection systems where the required pipe specification and approvals are met.

How to Choose the Right GI Pipe

GI pipe selection should be based on the intended application, required dimensions, applicable standard, operating conditions, and project requirements.

1. Application

Determine whether the pipe is required for:

- Water supply
- Plumbing
- Irrigation
- Construction
- Industrial service
- Infrastructure
- Fire protection

2. Pressure Requirement

Consider the operating pressure and application requirements before selecting the pipe specification.

3. Pipe Size

Select the correct nominal size and outside diameter according to system requirements.

4. Wall Thickness

Select wall thickness according to the applicable specification and service requirements.

5. Corrosion Environment

Consider the environmental conditions and required galvanizing protection.

6. Quantity

Bulk requirements should include transportation, storage, and handling planning.

7. Manufacturer Specification

For critical applications, always verify manufacturer technical documentation and quality certificates where required.

GI Pipe Buying Checklist

Before placing an order, confirm:

- ☐ Nominal Pipe Size
 - ☐ Outside Diameter
 - ☐ Wall Thickness
 - ☐ Pipe Class
 - ☐ Weight Per Meter
 - ☐ Pipe Length
 - ☐ Galvanizing Specification
 - ☐ Applicable Standard
 - ☐ Manufacturer
 - ☐ Required Quantity
 - ☐ Delivery Location
 - ☐ GST & Freight Terms
 - ☐ Quality / Test Documents, where required
-

Indian Standards for GI Pipes

[IS 1239 Part 1](#)

IS 1239 Part 1 is commonly referenced for steel tubes used for general engineering purposes.

Users should verify the current applicable edition and product requirements before procurement.

[IS 4736](#)

IS 4736 relates to hot-dip zinc coatings on iron and steel articles and is relevant to galvanizing requirements.

[IS 3589](#)

IS 3589 covers steel pipes for water and sewage applications and may be relevant depending on the product type and intended application.

Important

The applicable standard should always be confirmed according to the specific product, application, current standard edition, and project requirements.

GI Pipe Quick Reference

Weight Formula

Total Pipe Weight = Weight Per Meter × Total Pipe Length

Price Formula

Price Per Meter = Weight Per Meter × Price Per Kg

Theoretical Weight Formula

Weight (kg/m) = $0.02466 \times WT \times (OD - WT)$

Quick Example

Requirement:

GI Pipe Weight = 10 kg/m

Required Length = 500 meters

Calculation:

$10 \times 500 = 5,000$ kg

Estimated Total Weight:

5,000 kg

Equivalent:

5 Metric Tonnes

Why Use a GI Pipe Weight Chart?

A reliable GI pipe weight chart helps with:

- ✓ Material estimation
 - ✓ Transportation planning
 - ✓ Project budgeting
 - ✓ Supplier comparison
 - ✓ Procurement planning
 - ✓ Inventory management
 - ✓ Structural load calculations
 - ✓ Lifting and handling planning
 - ✓ Project cost estimation
-

GET THE LATEST GI PIPE PRICE

Looking for GI Pipes in different sizes, classes, and specifications?

[Sachiya Steel International](#)

Sachiya Steel International supplies GI pipes and other steel products for industrial, commercial, construction, infrastructure, and project requirements.

For current GI pipe prices, bulk quantities, product specifications, and project quotations, contact our team.

Contact Us

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Website: www.sachiyasteel.com

REQUEST A QUOTE

GI Pipes | GI Pipe Weight Chart | GI Pipe Price

For detailed GI Pipe Weight Chart, dimensions, calculations, and pricing information, visit:

<https://steeltube.co.in/gi-pipe-weight-chart/>

FINAL DISCLAIMER

This GI Pipe Weight Chart 2026 is provided for general reference and estimation purposes only.

Pipe weights, dimensions, classifications, galvanizing requirements, and prices may vary according to applicable standards, manufacturer specifications, manufacturing tolerances, zinc coating, market conditions, order quantity, GST, freight, and delivery location.

The information provided in this guide should not be considered a substitute for manufacturer-certified technical data, applicable standards, engineering calculations, or a commercial quotation.

For critical applications, users should verify the required dimensions, applicable standards, actual supplied weight, quality documentation, and current price with the supplier before placing an order.

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