



Quality Malleable Iron Pipe Fittings and Solutions





45° Elbow, Banded, Equal



90° Elbow, Banded, Equal



90° Street Elbow, Banded, Equal



90° Elbow, Banded, Reducing



Tee, Banded, Equal



Cross, Banded, Equal



Tee, Banded, Reducing



Tee, Banded, Unequal, Reducing



Union, Standard, Flat Seat, without Gasket



Plug



Cap, Banded



Bush, Reducing



Hexagon Nipple, Equal



Hexagon Nipple, Reducing



Socket, Banded, Equal



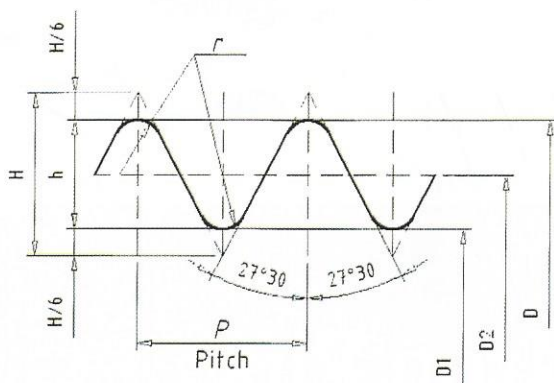
Socket, Banded, Reducing



Socket, Banded, M+F



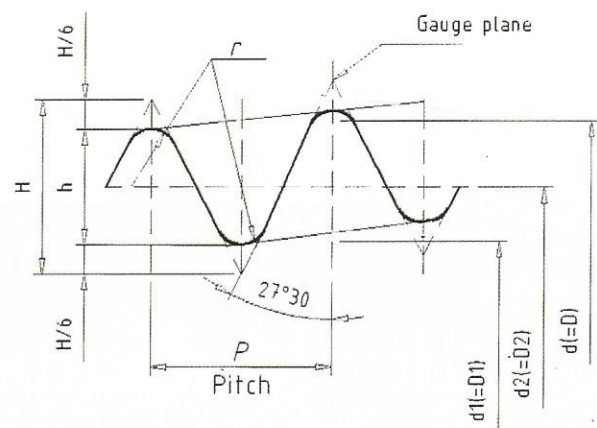
Round Flange, with Bolt Hole



$$H = 0.960491.P$$

$$h = 0.640327.P$$

$$r = 0.137329.P$$



$$H = 0.960237.P$$

$$h = 0.640327.P$$

$$r = 0.137278.P$$

Figure 1 Parallel Thread

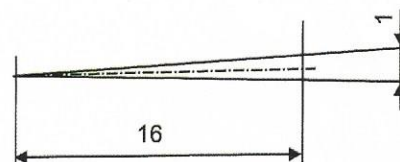


Figure 2 Taper Thread

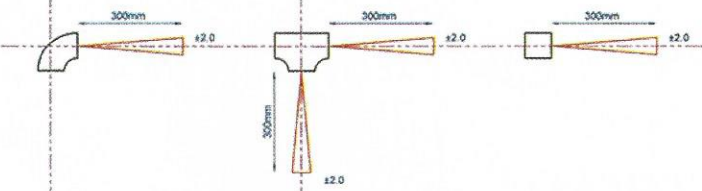


Thread Dimensions

Unit: mm

Designation of Thread	Number of Threads in 25.4mm	Pitch	Depth of Thread	Basic Diameters at Gauge Plane			Tolerance on Position of Gauge Plane		Length of Useful Threads on Pipe End 2) Not Less Than			Fitting Allowance	
				Major (Gauge Diameter)	Pitch	Minor	On External Thread	On Internal Thread	For Basic Gauge Length	For Max. Gauge Length	For Min. Gauge Length		
		p	h	d	d2	d1	Turns of Thread	Turns of Thread					Turns of Thread
1/16	28	0.907	0.581	7.723	7.142	6.561	±1	±1 - 1/4	6.5	7.4	5.6	2.5	2 3/4
1/8	28	0.907	0.581	9.728	9.147	8.566	±1	±1 - 1/4	6.5	7.4	5.6	2.5	2 3/4
1/4	19	1.337	0.856	13.157	12.301	11.445	±1	±1 - 1/4	9.7	11.0	8.4	3.7	2 3/4
3/8	19	1.337	0.856	16.662	15.806	14.950	±1	±1 - 1/4	10.1	11.4	8.8	3.7	2 3/4
1/2	14	1.814	1.162	20.995	19.793	18.631	±1	±1 - 1/4	13.2	15.0	11.4	5.0	2 3/4
3/4	14	1.814	1.162	26.441	25.279	24.117	±1	±1 - 1/4	14.5	16.3	12.7	5.0	2 3/4
1	11	2.303	1.479	33.249	31.770	30.291	±1	±1 - 1/4	16.8	19.1	14.5	6.4	2 3/4
1 1/4	11	2.303	1.479	41.910	40.431	38.952	±1	±1 - 1/4	19.1	21.4	16.8	6.4	2 3/4
1 1/2	11	2.303	1.479	47.803	46.324	44.845	±1	±1 - 1/4	19.1	21.4	16.8	6.4	2 3/4
2	11	2.303	1.479	59.614	58.135	56.656	±1	±1 - 1/4	23.4	25.7	21.1	7.5	3 1/4
2 1/2	11	2.303	1.479	75.184	73.705	72.226	±1 - 1/2	±1 - 1/2	26.7	30.2	23.2	9.2	4
3	11	2.303	1.479	87.894	86.405	84.926	±1 - 1/2	±1 - 1/2	29.0	33.3	26.3	9.2	4
4	11	2.303	1.479	113.030	111.551	110.072	±1 - 1/2	±1 - 1/2	35.8	39.3	32.3	10.4	4 1/2
5	11	2.303	1.479	139.430	136.951	135.472	±1 - 1/2	±1 - 1/2	40.1	43.6	36.6	11.5	5
6	11	2.303	1.479	163.830	162.351	160.872	±1 - 1/2	±1 - 1/2	40.1	43.6	36.6	11.5	5

Quality Control & Inspections

	Qualities	Inspections
Leakage	The fittings, when subjected to a pneumatic pressure of 0.5Mpa (5.1 kgf/cm ²), shall not suffer any leakage.	1. Type 2. Acceptance
Pressure Resistance	The fittings, when subjected to a hydraulic pressure of 2.5Mpa (25.5 kgf/cm ²), shall be free from breakage or other abnormalities.	1. Type
Screw Threads	The screw threads for fittings shall be taper pipe threads specified in JIS B0203.	1. Type 2. Acceptance
Deviation Axial Lines of Threads	<p>The angular deviation between respective axial lines of threads shall be 2mm or less for a distance of 300mm.</p> 	1. Type 2. Acceptance
Plating	Whereas the plating is to be processed, fittings shall be plated by hot zinc dipping prior to thread cutting, and layer of plating shall have a uniform adhesion to the plated surfaces.	1. Type
Shapes and Dimension	<ul style="list-style-type: none"> The shapes and dimensions of fittings shall be in accordance with JIS B2301 (Tables 2-18). The shapes and dimensions may conform to ISO 49-1983 (Malleable cast iron fittings threaded to ISO 7/1) The tolerances on basic dimensions for lengths from one end face to the center or to another end face shall conform to Table 4, and other dimensions represent recommended values. 	1. Type 2. Acceptance
Basic Dimension (Unit: mm)	30 & under 30-50 50-75 75-100 100-150 150-200 200-300 300-400	
Tolerance	+1.5 +2.0 +2.5 +3.0 +3.5 +4.0 +5.0 +6.0	

International Standard	<ul style="list-style-type: none"> British Standard: ISO 5922 / ISO 49 / ISO 7 / 1 American Standard: ANSI/ASME A197-79 / B16.3-85 / B1.20.1-83 DIN Standard: DIN 2950 / 1692 / 2999 								
Specifications	<ul style="list-style-type: none"> Materials: BS 310-1972, DIN 1692-1982, ASTM 197-1979, JIS G5702-1978 Dimensions: BS 143 & 1256-1968, DIN 2950-1983, ANSI B16.3-1977, JIS B2301-1976 Types of Threading: BS 21-1973, DIN 2999-1983, ANSI B2.1-1968, JIS B0203-1982 Galvanizing: BS729-1971, DIN 2444-1987, ASTM A153-1982, JIS H8641-19 								
Surface Treatment	Galvanized (Hot-dipped Zinc coated)								
Available Size	1/8" up to 6"								
Applicable	Water, Oil, Steam, Air and Gas								
Working Pressure	<table> <tr> <th>Condition of Fluid</th><th>Max. Working Pressure</th></tr> <tr> <td>Steam, Air, Gas, & Oil not higher than 300°C</td><td>1.0Mpa (10.2kgf/cm²)</td></tr> <tr> <td>Steam, Air, Gas, Oil, Pulsating water not higher than 220°C</td><td>1.4Mpa (14.3kgf/cm²)</td></tr> <tr> <td>Non -pulsating water not higher than 120°C</td><td>2.0Mpa (20.4kgf/cm²)</td></tr> </table>	Condition of Fluid	Max. Working Pressure	Steam, Air, Gas, & Oil not higher than 300°C	1.0Mpa (10.2kgf/cm ²)	Steam, Air, Gas, Oil, Pulsating water not higher than 220°C	1.4Mpa (14.3kgf/cm ²)	Non -pulsating water not higher than 120°C	2.0Mpa (20.4kgf/cm ²)
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Markings	<table> <tr> <th>Marking on the Product</th><th>Marking on the Package</th></tr> <tr> <td>The fitting shall be marked with the following information by casting or by an equivalent method: <ul style="list-style-type: none"> Nominal size SCI brand marking </td><td>The package shall be marked with the following information: <ul style="list-style-type: none"> Type Nominal size SCI brand name Quantity </td></tr> </table>	Marking on the Product	Marking on the Package	The fitting shall be marked with the following information by casting or by an equivalent method: <ul style="list-style-type: none"> Nominal size SCI brand marking 	The package shall be marked with the following information: <ul style="list-style-type: none"> Type Nominal size SCI brand name Quantity 				
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Tested By									



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 Email: sales@unitrade.com.my

WARRANTY

Syarikat Logam Unitrade Sdn Bhd for a period of 12 months from date of delivery to original buyer will repair or replace, without charge, products which our examination proves to be defective in design, material and workmanship under normal conditions of use and service. If, after examination of the product, we are of the opinion that the product or alleged defects is not covered by the warranty for whatever reason, the buyer is liable for any labour, parts or transport costs incurred by Unitrade.

This warranty is made expressly in lieu of any other warranties, expressed or implied. The buyer's sole and exclusive remedy shall be for the repair or replacement of defective products as provided herein. The company is not responsible for any expenses (including shipping, installation and removal) or incidental or consequential damages caused by items or our manufacture or sale. Unitrade neither assumes nor authorizes any person to assume for it any other liability in connection with the sale of such products.

This warranty is void to any product which has been subject to misuse, negligence or accident which has been repaired or altered in any manner outside of the factory or which has been used in a manner contrary to instructions or recommendations. Unitrade shall not be responsible for design errors due to inaccurate or incomplete information supplied by the buyer or its representatives.