

➤ Production Standard : EN10242:1995+A1 :1999+A2:2003

➤ Malleable cast iron standard : EN1562

Jianzhi brand thread pipe fitting uses Grand A malleable cast iron to ensure the top quality compared with other suppliers.

Tensile strength: $\geq 350\text{mpa}$

Elongation: $\geq 10\%$

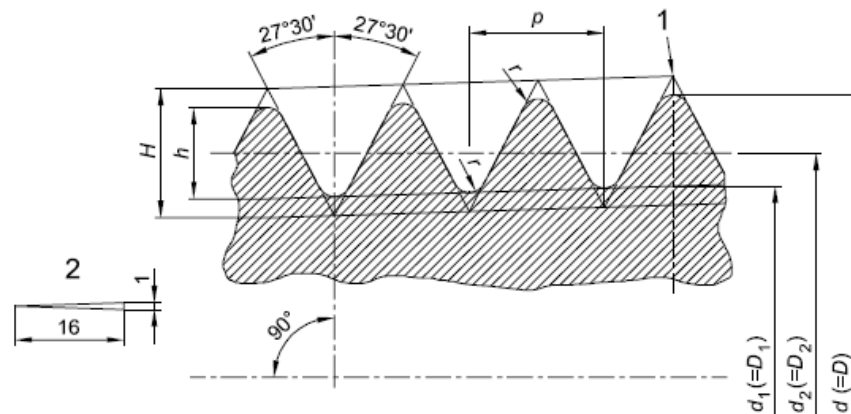
Hardness: $\leq \text{HB150}$

Although the material of the 300-6 also meets the EU standards, we adopt higher standards to ensure that our products can be used in a wider and more severe environment, which is one of the reasons why the quality of our products is better than other brands.

	EN1562	Jianzhi standard
Malleable cast iron	300-6 or 350-10	350-10

➤ Thread standard: ISO7-1/EN10226,

external threads are taper (R), image from EN10226

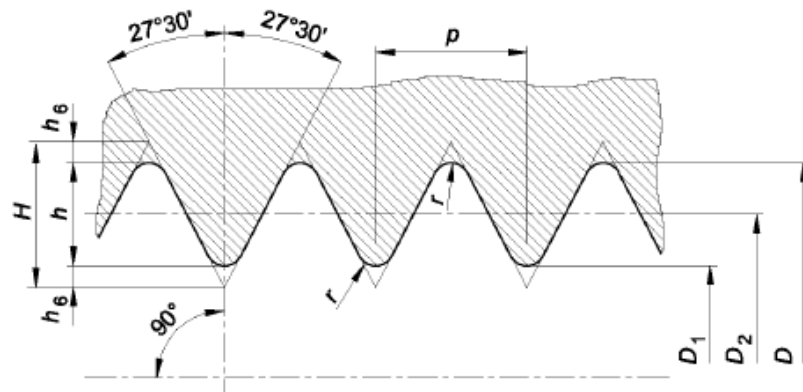


Key

- 1 gauge plane
- 2 taper
- P pitch
- H $0,980237P$
- h $0,640327P$
- r $0,137278P$

Figure 2 — Taper thread (external)

internal thread is parallel (RP), image from EN10226



Key

P	pitch
H	$0,960491P$
h	$0,640327P$
r	$0,137329P$

Figure 1 — Parallel thread (internal)

for backnuts, union nuts and their mating threads are in accordance with ISO228-1/ENISO228.

The axes of the screw thread is accurate to within $\pm 0.5^\circ$ of the specified angle according to ISO7-1, Jianjin axes of the screw thread accuracy is $\pm 0.3^\circ$, higher 40% than ISO7-1.

	ISO7-1/EN10226	Jianzhi standard
Axe angle	$\pm 0.5^\circ$	$\pm 0.3^\circ$

Pipe thread dimensions according ISO7-1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Thread size	Number of threads in 25,4 mm	Pitch P	Height of thread h	Diameters at gauge plane			Gauge length (external thread)					Assembly length	Length of useful external thread not less than			Tolerance on position of gauge plane on internal thread			
				Major (gauge diameter) d=D	Pitch d ₂ =D ₂	Minor d ₁ =D ₁	Nominal	Tolerance T _{1/2}		max.	min.		Turns of thread	For nominal gauge length	For maximum gauge length	For minimum gauge length	Tolerance T _{2/2}		Equivalent diametral tolerance ^a on parallel internal threads
								mm ^b	Turns of thread								mm ^b	Turns of thread	
1/16	28	0,307	0,581	7,723	7,142	6,561	4	+0,9	1	4,9	3,1	2,5	2,3/4	6,5	7,4	5,6	+/-1,1	1,1/4	+/-0,071
1/8	28	0,307	0,581	9,723	9,147	8,566	4	+0,9	1	4,9	3,1	2,5	2,3/4	6,5	7,4	5,6	+/-1,1	1,1/4	+/-0,071
1/4	19	1,337	0,856	13,157	12,301	11,445	6	+1,3	1	7,3	4,7	3,7	2,3/4	9,7	11	8,4	+/-1,7	1,1/4	+/-0,104
3/8	19	1,337	0,856	16,662	15,806	14,950	6,4	+1,3	1	7,7	5,1	3,7	2,3/4	10,1	11,4	8,8	+/-1,7	1,1/4	+/-0,104
1/2	14	1,814	1,162	20,955	19,793	18,631	8,2	+1,8	1	10,0	6,4	5,0	2,3/4	13,2	15	11,4	+/-2,3	1,1/4	+/-0,142
3/4	14	1,814	1,162	26,441	25,279	24,117	9,5	+1,8	1	11,3	7,7	5,0	2,3/4	14,5	16,3	12,7	+/-2,3	1,1/4	+/-0,142
1	11	2,309	1,479	33,249	31,770	30,291	10,4	+2,3	1	12,7	8,1	6,4	2,3/4	16,8	19,1	14,5	+/-2,9	1,1/4	+/-0,180
1 1/4	11	2,309	1,479	41,910	40,431	38,952	12,7	+2,3	1	15,0	10,4	6,4	2,3/4	19,1	21,4	16,8	+/-2,9	1,1/4	+/-0,180
1 1/2	11	2,309	1,479	47,803	46,324	44,845	12,7	+2,3	1	15,0	10,4	6,4	2,3/4	19,1	21,4	16,8	+/-2,9	1,1/4	+/-0,180
2	11	2,309	1,479	59,614	58,135	56,656	15,9	+2,3	1	18,2	13,6	7,5	3,1/4	23,4	25,7	21,1	+/-2,9	1,1/4	+/-0,180
2 1/4	11	2,309	1,479	75,184	73,705	72,226	17,5	+3,5	1,1/2	21,0	14,0	9,2	4	26,7	30,2	23,2	+/-3,5	1,1/2	+/-0,216
3	11	2,309	1,479	87,884	86,405	84,926	20,6	+3,5	1,1/2	24,1	17,1	9,2	4	29,8	33,3	26,3	+/-3,5	1,1/2	+/-0,216
4	11	2,309	1,479	113,030	111,551	110,072	25,4	+3,5	1,1/2	28,9	21,9	10,4	4,1/2	35,8	39,3	32,3	+/-3,5	1,1/2	+/-0,216
5	11	2,309	1,479	138,430	136,951	135,472	28,6	+3,5	1,1/2	32,1	25,1	11,5	5	40,1	43,6	36,6	+/-3,5	1,1/2	+/-0,216
6	11	2,309	1,479	163,830	162,351	160,872	28,6	+3,5	1,1/2	32,1	25,1	11,5	5	40,1	43,6	36,6	+/-3,5	1,1/2	+/-0,216

	ISO7-1/EN10226	Jianzhi standard
Turns of thread of external thread	±1 -- ±1 1/2	Only ±1
Turns of thread of internal thread	±1 1/4 --- ±1 1/2	±1

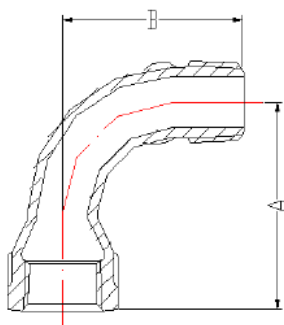
➤ Galvanization: According to EN10242

Jianzhi pipe fitting can offer customer in black or galvanized finishing. The surface related mass of the zinc coating shall be not less than 500g/m², as an average of 5 fittings, this corresponds to a medium layer thickness of 70μm. Zinc coating on the internal surface of the fitting is continuous, the same thickness as external surface, with the exception of machined black internal thread. The zinc coating is free from zinc blisters, zinc burrs, non-metallic remainders. The surface of the fittings is free of polycyclic aromatic hydrocarbons.

➤ Dimensions and tolerances : EN10242

Please check our product pages or download our production catalog.

Dimensions samples(mm)



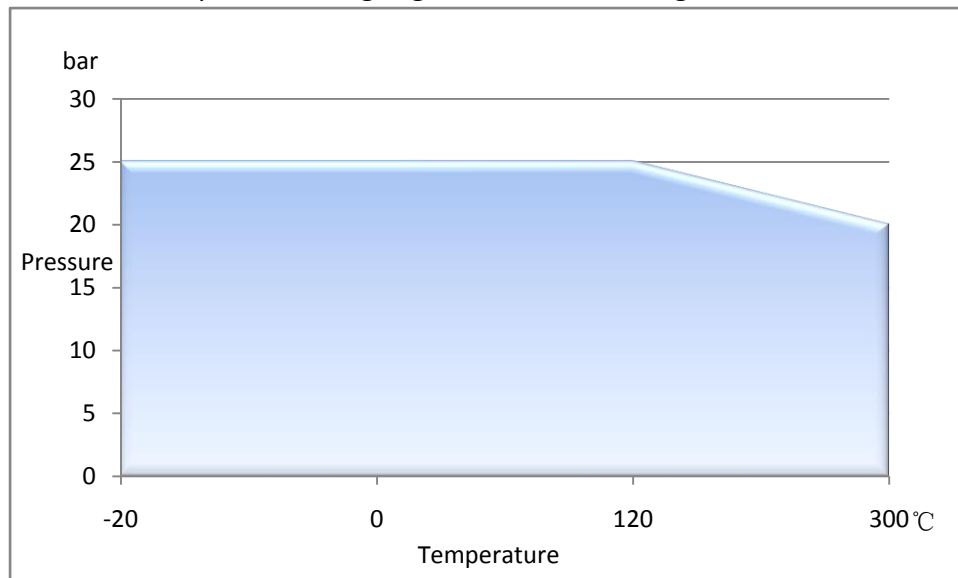
规格		A	B	规格		A	B
mm	in			mm	in		
10	3/8	48	42	40	1 1/2	116	105
15	1/2	55	48	50	2	140	130
20	3/4	69	60	65	2 1/2	176	165
25	1	85	75	80	3	205	190
32	1 1/4	105	95	100	4	260	245

Tolerance on length (mm)

Dimension	Tolerance
≤30	±1.5
>30≤50	±2.0
>50≤75	±2.5
>75≤100	±3.0
>100≤150	±3.5
>150≤200	±4.0
>200	±5.0

➤ Permissible working pressure and temperature

Jianzhi fittings of all sizes are suitable for the maximum permissible working pressure within the temperature ranges given in the following chart.



1bar = 100kPa =14.5PSI =0.1Mpa

➤ Test and inspection:

All Jianzhi pipe fittings are inspected strictly with the specifications of standard of EN10242. Some points are higher than EN10242 to ensure our wonderful quality.

Air tightness test: higher 20% than EN10242, according EN10242 pipe fittings are test by one of the following methods

a) An internal hydrostatic pressure of not less than 20 bar.


b) An internal pneumatic pressure of not less than 5 bar.

Jianzhi adapt 6 bar pneumatic pressure, higher 20% than EN10242, to ensure each fittings with fantastic performance while using.

	EN10242	Jianzhi standard
Pneumatic pressure	5 bar / 0.5Mpa	6 bar / 0.6Mpa

➤ Marking:



All Jianzhi pipe fitting will mark  as our brand. Each pipe fittings with this brand marking is ensured with trustable quality and our highest compensation standard.

- Quality assurance system: ISO 9001:2015
- Occupational health and safety management system: OHSAS 18001:2007
- Environmental management system: ISO 14001:2015

➤ Fitting size and normal size(DN)

Fitting size	Normal size (DN)
1/8	6
1/4	8
3/8	10
1/2	15
3/4	20
1	25
1 1/4	32
1 1/2	40
2	50
2 1/2	65
3	80
4	100
5	125
6	150