

Class 150 Copper Nickel Flanges 5 Inch C70600 ANSI B16.5 TR Threaded

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Kasugai
- Certification: ISO PED AD2000
- Model Number: C70600 ANSI B16.5 Class 150 TR
- Minimum Order Quantity: Negotiable
- Price: Negotiable
- Packaging Details: Seaworthy Packng
- Delivery Time: 30 - 60 working days
- Payment Terms: L/C, T/T
- Supply Ability: 200 ton per month




Product Specification

- Product Name: ASTM B151 C70600 ANSI B16.5 Class 150 Copper Nickel Threaded (TR) Flanges
- Size Range: 1/2" To 24"
- Pressure Class: Class 150, 300, 400, 600, 900, 1500, 2500
- Thickness: Sch10S To Sch160
- Standards: ASTM B151, ASME/ANSI B16.5/B16.47, JIS B2220
- Type: Threaded (TR)
- Highlight: **5 Inch Copper Nickel Flanges, Threaded Class 150 Flanges, C70600 Copper Nickel Flanges**

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Product Description

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Thickness	Sch10S to Sch160
Standards	ASME/ANSI B16.5/B16.47, JIS B2220
Type	Threaded (TR)
Dimensions	ASME/ANSI B16.5/B16.47, Custom Drawings
Origin	China

Standards & Materials: ASTM B151

Chemical Composition of ASTM B151 (%)

UNS	C	Ni	Pb	Fe	Mn	Zn	P	S	C
C70600	Remainder	9.0-11.0	0.05	1.0-1.8	1.0	1.0			
C71500	Remainder	29.0-33.0	0.05	0.40-1.0	1.0	1.0			

Mechanical Properties of ASTM B151 C70600

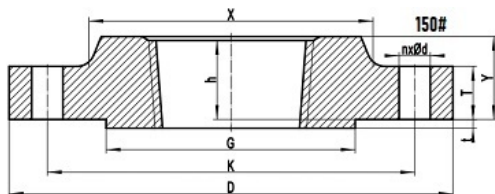
Tempe r Code	Dia. or Distance Between Parallel Surfaces (mm)		Tensile Strength, min (MPa)	Yield Strength at 0.5%Extensio n Under Load, min (MPa)	Elongation in 4xDia or Thickness of Specimen, min (%)
O60, M30	Round, Hex and Octagonal rods and square bars	All sizes	260	105	30
H04	Round, Hex and Octagonal rods and square bars	Up to 9.5, incl	415	260	10
		Over 9.5 to 25, incl	345	205	15
		Over 25 to 80, incl	275	105	30
		Over 80 to 125, incl	260	105	20
O60	Rectangular bars and shapes	All sizes	260	105	30
H04	Rectangular bars	Up to 9.5, incl	380	205	10
		Over 9.5 to 12, incl	345	195	12
		Over12 to 80, incl	275	115	20
H04	Shapes	All sizes	(As agreed upon between the manufacturer or supplier and the purchaser)		

Flange Type: Threaded Flange

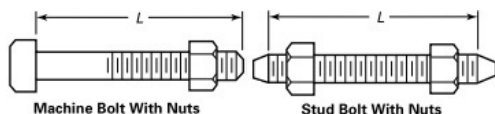
The threaded flange manufactured in accordance with ASME B16.5 is similar to the slip on flange, but the bore shall have a taper pipe thread conforming to ASME B1.20.1. The thread shall be concentric with the axis of the flange opening, and variations in alignment (perpendicular to the flange face) shall not exceed 5 mm per meter. Threaded flanges are available in sizes NPS 1/2 through NPS 24 for pressure ratings of Class 150, Class 300, Class 400, Class 600 and Class 900. Sizes for Class 1500 and Class 2500 are available from NPS 1/2 to NPS 2-1/2.

Class 150 threaded flanges are made without a counter bore. The threads shall be chamfered approximately to the major diameter of the thread at the back of the flange at an angle of approximately 45 degree with the axis of the thread. The chamfer shall be concentric with the thread and shall be included in the measurement of the thread length. Class 300 and higher pressure class flanges shall be made with a counter bore at the back of the flange. The threads shall be chamfered to the diameter of the counter bore at an angle of approximately 45 degree with the axis of the threads. The counter bore and chamfer shall be concentric with the thread.

Dimensions of ASME B16.5 Class 150 Threaded Flange



A typical drawing for Class 150 threaded flange with raised face (RF), ASME B16.5.



Both machine bolt with nuts and stud bolt with nuts can be applied to 150# threaded flange.

NPS	D	G	X	K	n	d	l	L	h	Y	T
1/2	90	34.9	30	60.3	4	5/8	1/2	55	16	14	9.6
3/4	100	42.9	38	69.9	4	5/8	1/2	65	16	14	11.2
1	110	50.8	49	79.4	4	5/8	1/2	65	17	16	12.7
1-1/4	115	63.5	59	88.9	4	5/8	1/2	70	21	19	14.3
1-1/2	125	73.0	65	98.4	4	5/8	1/2	70	22	21	15.9
2	150	92.1	78	120.7	4	3/4	5/8	85	25	24	17.5
2-1/2	180	104.8	90	139.7	4	3/4	5/8	90	29	27	20.7
3	190	127.0	108	152.4	4	3/4	5/8	90	30	29	22.3
3-1/2	215	139.7	122	177.8	8	3/4	5/8	90	32	30	22.3
4	230	157.2	135	190.5	8	3/4	5/8	90	33	32	22.3
5	255	185.7	164	215.9	8	7/8	3/4	95	36	35	22.3
6	280	215.9	192	241.3	8	7/8	3/4	100	40	38	23.9
8	345	269.9	246	298.5	8	7/8	3/4	110	44	43	27.0
10	405	323.8	305	362.0	12	1	7/8	115	49	48	28.6
12	485	381.0	365	431.8	12	1	7/8	120	56	54	30.2
14	535	412.8	400	476.3	12	1-1/8	1	135	57	56	33.4
16	595	469.9	457	539.8	16	1-1/8	1	135	64	62	35.0
18	635	533.4	505	577.9	16	1-1/4	1-1/8	145	68	67	38.1
20	700	584.2	559	635.0	20	1-1/4	1-1/8	160	73	71	41.3
22	750	641.4	610	692.2	20	1-3/8	1-1/4	170	...	78	44.5
24	815	692.2	663	749.3	20	1-3/8	1-1/4	170	83	81	46.1

General Note: All dimensions are in millimeters except that d and l are provided in inch. For all threaded flanges of class 150, t (height of raised face) = 2mm.

Notes: D: outside diameter of flange; K: diameter of bolt circle; G: outside diameter of raised face; X: diameter of hub at base; n: number of bolts; d: diameter of bolt holes; l: diameter of bolts; L: length of stud bolts for 2 mm raised face; h: minimum thread length; Y: length through hub; T: minimum thickness of flange.

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