

Locknut & Flange (Class 150 Standard)

Fig. 1134 Hex Locknut

Fig. 1190 Floor Flange (Ductile Iron)



ASC Engineered Solutions™ offers the broadest line of malleable iron fitting sizes in both black and galvanized finishes. Every fitting is manufactured and tested to meet ASC's strict quality standards. All Anvil Class 150 Malleable Iron Fittings conform to ASME B16.3 and unions conform to ASME B16.39. All elbows and tees 3/8" (10 DN) and larger are 100% gas tested at a minimum of 100 PSI (6.9 bar). For Listings/Approval Details and Limitations, visit our website at www.asc-es.com or contact an ASC Engineered Solutions™ Representative.

See following page for standards and specifications.

#### Malleable Iron Threaded Pipe Unions Pressure - Temperature Ratings

Malleable Iron Threaded Fittings Pressure - Temperature Ratings

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_	Pressure				Pressure Class 300			
Temperature	Class 150	Class 250	Class 300	Temperature	Class 150	Sizes <sup>1</sup> ⁄4"-1" (6-25mm)	Sizes 1¼"-2" (32-51mm)	Sizes 21⁄2"-3" (64-76mm
°F/°C	PSI/bar	PSI/bar	PSI/bar	°F/°C	PSI/bar	PSI/bar	PSI/bar	PSI/bar
- <b>20°-150°</b>	<b>300</b>	<b>500</b>	<b>600</b>	- <b>20°-150°</b>	<b>300</b>	<b>2000</b>	<b>1500</b>	<b>1000</b>
-28.9°-65.6°	20.7	34.5	41.4	-28.9°-65.6°	20.7	137.9	103.4	68.9
<b>200°</b>	265	<b>455</b>	<b>550</b>	<b>200°</b>	<b>265</b>	<b>1785</b>	<b>1350</b>	<b>910</b>
93.3°	18.3	31.4	37.9	93.3°	18.3	123.1	93.1	62.7
<b>250°</b>	<b>225</b>	<b>405</b>	<b>505</b>	<b>250°</b>	<b>225</b>	<b>1575</b>	1200	<b>825</b>
121.1°	15.5	27.9	34.8	121.1°	15.5	108.6	82.7	56.9
<b>300°</b>	<b>185</b>	<b>360</b>	<b>460</b>	<b>300°</b>	<b>185</b>	<b>1360</b>	<b>1050</b>	<b>735</b>
148.9°	12.8	24.8	31.7	148.9°	12.8	93.8	72.4	50.7
<b>350°</b>	<b>150</b>	<b>315</b>	<b>415</b>	<b>350°</b>	<b>150</b>	<b>1150</b>	<b>900</b>	<b>650</b>
176.7°	10.3	21.7	28.6	176.7°	10.3	79.3	62.1	44.8
<b>400°</b>	110	<b>270</b>	<b>370</b>	<b>400°</b>	_	<b>935</b>	<b>750</b>	<b>560</b>
204.4°	7.6	18.6	25.5	204.4°		64.5	51.7	38.6
<b>450°</b>	<b>75</b>	<b>225</b>	<b>325</b>	<b>450°</b>	_	<b>725</b>	<b>600</b>	<b>475</b>
232.2°	5.2	15.5	22.4	232.2°		50.0	41.4	32.8
<b>500°</b> 260.0°	_	<b>180</b> 12.4	<b>280</b> 19.3	<b>500°</b> 260.0°	_	<b>510</b> 35.2	<b>450</b> 31.0	<b>385</b> 26.5
<b>550°</b> 287.8°	_	130 9.0	<b>230</b> 15.9	<b>550°</b> 287.8°	_	<b>300</b> 20.7	<b>300</b> 20.7	<b>300</b> 20.7



#### Note:

Unions with Copper or Copper Alloy seats are not intended for use where temperature exceeds 450°F.

PROJECT INFORMATION	APPROVAL STAMP
Project:	Approved
Address:	Approved as noted
Contractor:	Not approved
Engineer:	Remarks:
Submittal Date:	
Notes 1:	
Notes 2:	



# Hex Locknut & Floor Flange (Class 150 Standard) Fig. 1134, 1190



# **Standards and Specifications**

## Malleable Iron Fittings

	Dimensions	Material	Galvanizing*	Thread	Pressure Rating
Class 150/PN 20	ASME B16.3	ASTM A197	ASTM A153	ASME B1 20.1	ASME B16.3
Class 300/PN 50	ASME B16.3	ASTM A197	ASTM A153	ASME B1 20.1	ASME B16.3

### Malleable Iron Unions

	Dimensions	Material	Galvanizing*	Thread	Pressure Rating
Class 150/PN 20	ASME B16.39	ASTM A197	ASTM A153	ASME B1 20.1	ASME B16.39
Class 250	ASME B16.39	ASTM A197	ASTM A153	ASME B1 20.1	ASME B16.39
Class 300/PN 50	ASME B16.39	ASTM A197	ASTM A153	ASME B1 20.1	ASME B16.39

#### Note:

\* ASTM B633. Type I, SC 4, may be supplied as alternate zinc coating per applicable ASME B16 product standard.



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# Fig. 1134

Hex Locknut (Class 150 Standard)







#### Notes:

For additional sizes larger than 2" (50 DN) see Cast Iron page 52.

Not to be used for pressure service.

Supplied in steel only.

See first page for pressure-temperature ratings. Galvanized weights may vary. Please contact your ASC Engineered Solutions™ Representative if you need verification.

All elbows and tees 3/s" (10 DN) and larger are 100% gas tested at a minimum of 100 PSI (6.9 bar).

# Fig. 1190

Ductile Iron Floor Flange (Class 150 Standard)



Size	Diam. of Flange	Diam. of Bolt Circle	No. of Holes	Dia. of Holes	Unit Weight		
					Black	Galv.	
NPS/DN	In./mm	In./mm	In./mm	In./mm	Lbs./kg	Lbs./kg	
1⁄4	23/16	1 7/8	4	1⁄4	0.39	0.39	
8	56	48	4	6	0.18	0.18	
3/8	3	2	4	1⁄4	0.43	0.43	
10	76	51	4	6	0.20	0.20	
1/2	31/2	21/2	4	1⁄4	0.56	0.56	
15	89	64	4	6	0.25	0.25	
3/4	31/2	21/2	4	1⁄4	0.60	0.60	
20	89	64	4	6	0.27	0.27	
1	4	3	4	1⁄4	0.84	0.84	
25	102	76	4	6	0.38	0.38	
11⁄4	4	3	4	1/4	0.90	0.90	
32	102	76	4	6	0.41	0.41	
11/2	41/2	31/2	4	<sup>5</sup> / <sub>16</sub>	1.20	1.20	
40	114	89	4	8	0.54	0.54	
2	51/2	41⁄4	4	<sup>5</sup> / <sub>16</sub>	2.03	2.03	
50	140	108	4	8	0.92	0.92	

#### Notes:

Structural use only.

See first page for pressure-temperature ratings. Galvanized weights may vary. Please contact your ASC Engineered Solutions™ Representative if you need verification.

All elbows and tees  $\frac{3}{6}$ " (10 DN) and larger are 100% gas tested at a minimum of 100 PSI (6.9 bar).



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## Building connections that last



# Fig. 1134, 1190 Hex Locknut & Floor Flange (Class 150 Standard)

# General Assembly of Threaded Fittings

- 1 Inspect both male and female components prior to assembly.
  - Threads should be free from mechanical damage, dirt, chips and excess cutting oil.
  - Clean or replace components as necessary.

## 2 Application of thread sealant

- Use a thread sealant that is fast drying, sets-up to a semi hard condition and is vibration resistant. Alternately, an anaerobic sealant may be utilized.
- Throroughly mix the thread sealant prior to application.
- Apply a thick even coat to the male threads only. Best application is achieved with a brush stiff enough to force sealant down to the root of the threads.

## 3 Joint Makeup

- For sizes up to and including 2" pipe, wrench tight makeup is considered three full turns past handtight. Handtight engagement for ½" through 2" thread varies from 4½ turns to 5 turns.
- For 2½" through 4" sizes, wrench tight makeup is considered two full turns past handtight. Handtight engagement for 2½" through 4" thread varies from 5½ turns to 6¾ turns.



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Building connections that last\*