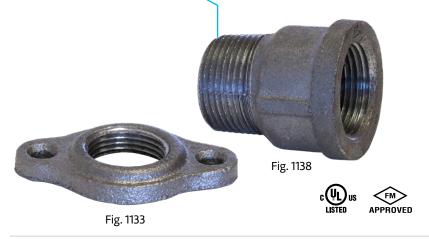


Fig. 1133 Waste Nut

Fig. 1138 Extension Piece



Malleable Iron Threaded Pipe Unions

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 ¼"-1" (6-25mm)	Sizes 1¼"-2" (32-51mm)	Sizes 2 ½"−3" (64-76mm
°F/°C	PSI/bar	PSI/bar	PSI/bar	°F/°C	PSI/bar	PSI/bar	PSI/bar	PSI/bar
- 20°-150°	300	500	600	-20°-150°	300	2000	1500	1000
-28.9°-65.6°	20.7	34.5	41.4	-28.9°-65.6°	20.7	137.9	103.4	68.9
200°	265	455	550	200°	265	1785	1350	910
93.3°	18.3	31.4	37.9	93.3°	18.3	123.1	93.1	62.7
250°	225	405	505	250°	225	1575	1200	825
121.1°	15.5	27.9	34.8	121.1°	15.5	108.6	82.7	56.9
300°	185	360	460	300°	185	1360	1050	735
148.9°	12.8	24.8	31.7	148.9°	12.8	93.8	72.4	50.7
350°	150	315	415	350°	150	1150	900	650
176.7°	10.3	21.7	28.6	176.7°	10.3	79.3	62.1	44.8
400°	110	270	370	400°	_	935	750	560
204.4°	7.6	18.6	25.5	204.4°		64.5	51.7	38.6
450°	75	225	325	450°	_	725	600	475
232.2°	5.2	15.5	22.4	232.2°		50.0	41.4	32.8
500° 260.0°	_	180 12.4	280 19.3	500° 260.0°	_	510 35.2	450 31.0	385 26.5
550° 287.8°	_	130 9.0	230 15.9	550° 287.8°	_	300 20.7	300 20.7	300 20.7

Engineered Solutions

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. Anvil Class 150/300 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).

An ASC Engineered Solution

Pressure - Temperature Ratings

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:	



Waste Nut & Extension Piece (Class 150 Standard) Fig. 1133, 1138



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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Building connections that last



Fig. 1133

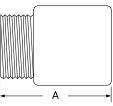
Waste Nut (Class 150 Standard)*

Fig. 1138

Extension Piece (Class 150 Standard)







Size	Unit Weight		0:		Unit Weight	
	Black	Galvanized	Size	A	Black	Galvanized
NPS/DN	Lbs./kg	Lbs./kg	NPS/DN	In./mm	Lbs./kg	Lbs./kg
1/2	0.12	_	1/2	1 5/8	0.19	0.19
15	0.05	_	15	41	0.09	0.09
3/4	0.15	0.15	3/4	1 ¹⁵ /16	0.35	0.35
20	0.07	0.07	20	49	0.16	0.16
			1	21/16	0.48	0.48
			25	52	0.22	0.22

Note:

*Not to be used for pressure service.

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 3/8" (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. 1133, 1138 Waste Nut & Extension Piece (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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