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SALES

CUSTOMER SERVICE

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Adapters



Bleed Rings



Bosses



Connections



Bushings



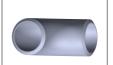
Caps



Couplings



Crosses



Elbows



Flanges



Inserts



Laterals



Line Blanks



Pipe Nipples



Plugs



Reducers



Return Bends



Stub Ends



Swage **Nipples**



Unions

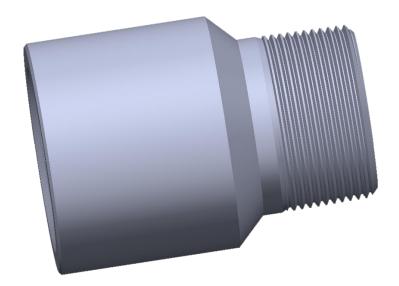
Wyes





Adapters

Similar to inserts, in most cases, adapters have a male threaded end with an opposite female end. The female end can be either Socket-weld, Threaded or Butt-weld. Round and hex adapters can be manufactured per customer prints, and are available in most grades of material.



SPECIFICATIONS

Per customer specifications

End sizes and types per customer specifications. Female end (threaded/socket-weld) size per ASME B16.11

Hex body is also available, as well as special and non-standard threads

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Bleed Rings

Used for instrument installation, monitoring and system measuring purposes.



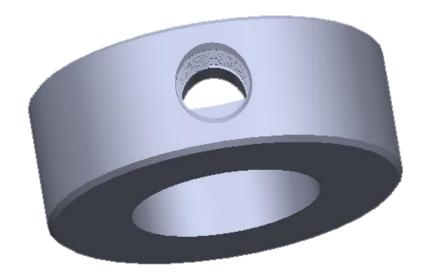


- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Raised Face Bleed Rings

Used for instrument installation, monitoring and system measuring purposes.



SPECIFICATIONS

¹/₂" through 24" all pressure classes

Specifications: ASME B16.5

Standard overall length: 1.5" for Raised Face

Other sizes available per customer request

Port Types: Threaded, Socket-weld and special

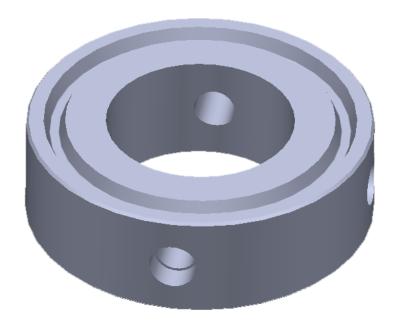
Also available with mounting bolt holes

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Ring Joint Bleed Rings

Used for instrument installation, monitoring and system measuring purposes.



SPECIFICATIONS

¹/₂" through 24" all pressure classes

Specifications: ASME B16.5

Standard overall length: 2.0" for Ring Joint

Other sizes available per customer request

Port Types: Threaded, Socket-weld and special

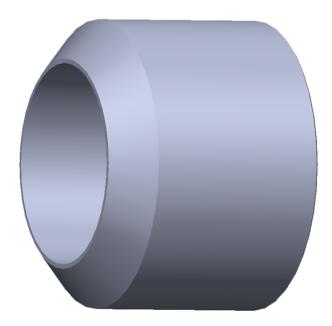
Also available with mounting bolt holes

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Bosses

Designed for a practical and reliable branch or outlet connection. The Butt-weld side is welded onto a pipe wall. The opposite end is usually a Threaded or Socket-weld connection, or a combination of them.



SPECIFICATIONS

Sizes: 1/2" through 2"

Female end, Socket-weld and Threaded, based on ASME B16.11

Weld-on side available with the following geometry:

- Weld ring type
- Thermowell type
- Drill thru type
- Extended type

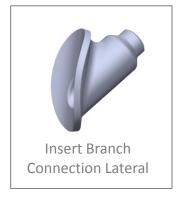
GIBSON
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MANUFACTURES
FROM A WIDE
VARIETY OF
MATERIALS

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Branch Connections

Branch Connections with Threaded, Socket-weld, Butt-weld or Flanged Ends can be supplied in any applicable schedule or pressure rating and are available in all materials and in sizes ranging from 1/8" through 24" for most styles. Special sizes also available per customer request.











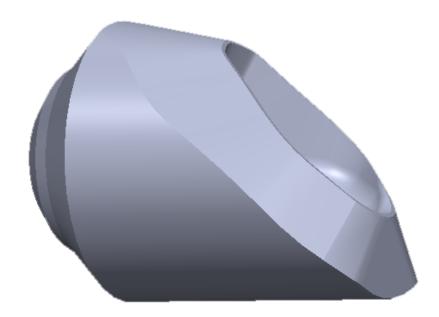


- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Lateral Branch Connection

Branch Connections can be supplied in any applicable schedule or pressure rating and are available in all materials and in sizes ranging from 1/2" through 24", depending on run size and schedule.



SPECIFICATIONS

Butt-weld: 1/2" through 24" all schedules

Socket-weld: 1/2" through 4" Class 3000 & 6000

Threaded: $\frac{1}{2}$ " through 4" Class 3000 & 6000

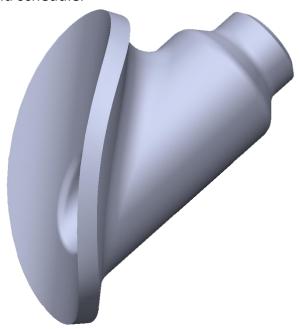
Specifications: MSS-SP-97 and ASME B31.1

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Insert Lateral Branch Connection

Branch Connections can be supplied in any applicable schedule or pressure rating and are available in all materials and in sizes ranging from 1/2" through 24", depending on run size and schedule.



SPECIFICATIONS

Butt-weld: 1/2" through 24" all schedules

Socket-weld: 1/2" through 4" Class 3000 & 6000

Threaded: 1/2" through 4" Class 3000 & 6000

Specifications: MSS-SP-97 and ASME B31.1

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Sweep Branch Connection

Branch Connections can be supplied in any applicable schedule or pressure rating and are available in all materials and in sizes ranging from 3/4" through 20", depending on run size and schedule.



SPECIFICATIONS

Butt-weld: 3/4" through 20" all schedules

Specifications: MSS-SP-97 and ASME B31.1

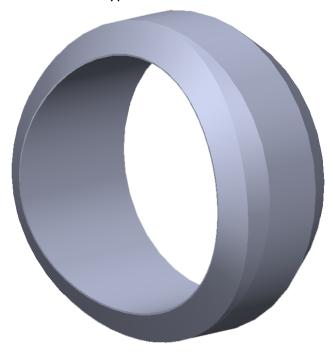
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MANUFACTURES
FROM A WIDE
VARIETY OF
MATERIALS

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Weld-on Branch Connection

Branch Connections can be supplied in any applicable schedule or pressure rating and are available in all materials and in sizes ranging from 1/8" through 24", depending run size and connection type.



SPECIFICATIONS

Butt-weld: 1/8" through 24" all schedules

Socket-weld: 1/8" through 6" Class 3000, 6000 & 9000

Threaded: 1/8" through 6" Class 3000, 6000 & 10,000

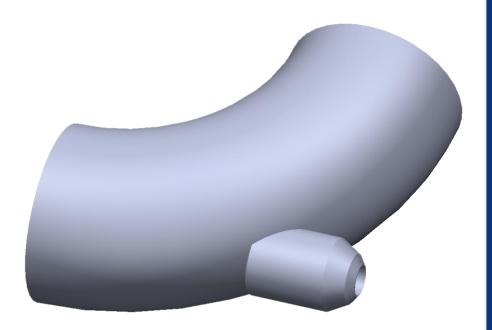
Specifications: MSS-SP-97, ASME B16.11 and ASME B31.1

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Elbow Branch Connection

Branch Connections can be supplied in any applicable schedule or pressure rating and are available in all materials and in sizes ranging from 1/8" through 24", depending on run size and end connection type.



SPECIFICATIONS

Butt-weld: 1/8" through 24" all schedules

Socket-weld: 1/4" through 4" Class 3000, 6000 & 9000

Threaded: 1/4" through 4" Class 3000, 6000 & 9000

Specifications: MSS-SP-97, ASME B16.11 and ASME

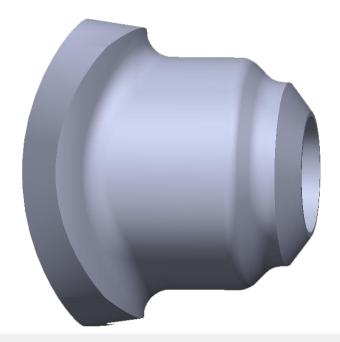
B31.1

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Insert Branch Connection

Branch Connections can be supplied in any applicable schedule or pressure rating and are available in all materials and in sizes ranging from 3/4" through 20", depending on run size and schedule.



SPECIFICATIONS

Butt-weld: 3/4" through 20" all schedules

Specifications: MSS-SP-97 and ASME B31.1

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Bushings

Threaded Bushings are available in all types of materials.



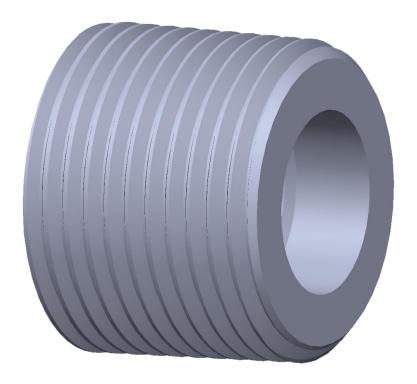


- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Flush Bushings

Threaded Bushings are available in all types of materials.



SPECIFICATIONS

External (male): Threads 1/4" through 8"

Internal (female): Threads 1/8" through 6"

Specifications: ASME B16.11 and ASME B16.14

Styles: Flush (Face)

Non-standard and special threads also available

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Hex Bushings

Threaded Bushings are available in all types of materials.



SPECIFICATIONS

External (male): Threads 1/4" through 8"

Internal (female): Threads 1/8" through 6"

Specifications: ASME B16.11 and ASME B16.14

Styles: Hex Head (outside/inside)

Non-standard and special threads also available

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Caps

Butt-weld, Socket-weld and Threaded Caps are available in all types of materials.





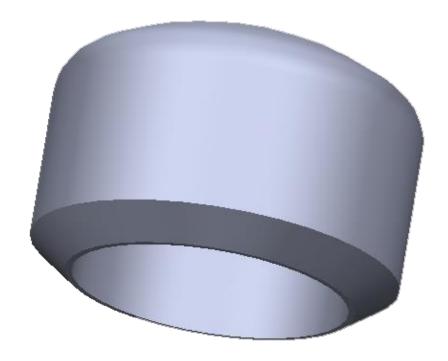


- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Butt-weld Caps

Butt-weld Caps are available in all types of materials.



SPECIFICATIONS

Butt-weld: 1/2" through 24"

Specification: ASME B16.9

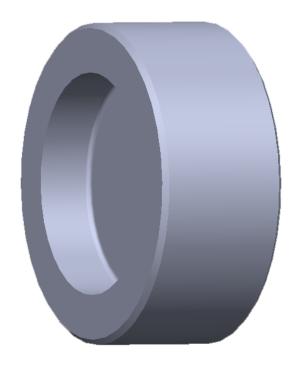
Other sizes and pressure classes available per customer request

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Socket-weld Caps

Socket-weld Caps are available in all types of materials.



SPECIFICATIONS

Socket-weld: $\frac{1}{8}$ " through 4" Class 3000 & 6000

Specification: ASME B16.11

Other sizes and pressure classes available per customer request

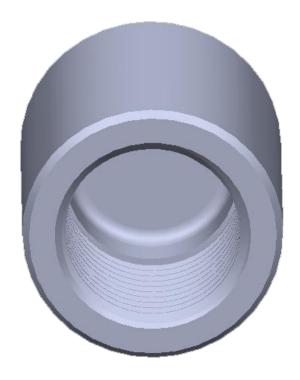
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MANUFACTURES
FROM A WIDE
VARIETY OF
MATERIALS

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Threaded Caps

Threaded Caps are available in all types of materials.



SPECIFICATIONS

Threaded: 1/8" through 6" Class 3000

Threaded: 1/8" through 4" Class 6000

Specification: ASME B16.11

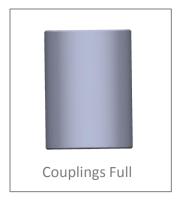
Other sizes and pressure classes available per customer request

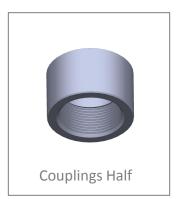
- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Couplings

Threaded and Socket-weld Pressure Fittings are available in all types of materials for couplings.





- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Couplings Full

Threaded and Socket-weld Couplings are available in all types of materials.



SPECIFICATIONS

Socket-weld: 1/8" through 8" Class 3000

Socket-weld: 1/8" through 4" Class 6000

Socket-weld: 1/2" through 2" Class 9000

Threaded: 1/8" through 8" Class 3000

Threaded: 1/8" through 4" Class 6000

Threaded: 1/4" through 3" Class 10,000

Specifications: ASME B16.11 except for Class 10,000

Also available in reducing, combination (socket-weld and threaded) and eccentric configurations

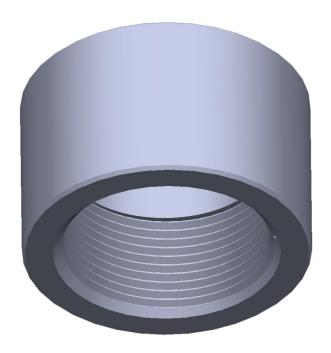
Other sizes and pressure classes available per customer specifications

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Couplings Half

Threaded and Socket-weld Pressure Fittings are available in all types of materials for couplings.



SPECIFICATIONS

Socket-weld: 1/8" through 8" Class 3000

Socket-weld: 1/8" through 4" Class 6000

Socket-weld: 1/2" through 2" Class 9000

Threaded: 1/8" through 8" Class 3000

Threaded: 1/8" through 4" Class 6000

Threaded: 1/4" through 3" Class 10,000

Specifications: ASME B16.11 except for Class 10,000

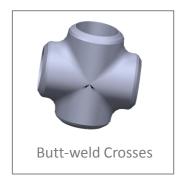
Other sizes and pressure classes available per customer specifications

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Crosses

Butt-weld, Socket-weld and Threaded crosses are available in all types of materials.





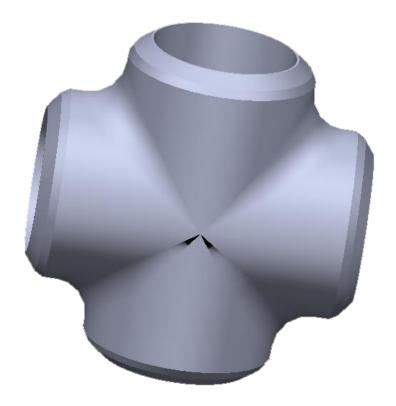


- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Butt-weld Crosses

Butt-weld Threaded crosses are available in all types of materials.



SPECIFICATIONS

Butt-weld 1/2" through 12" All schedules per ASME B16.9

Other sizes and pressure classes available per customer request

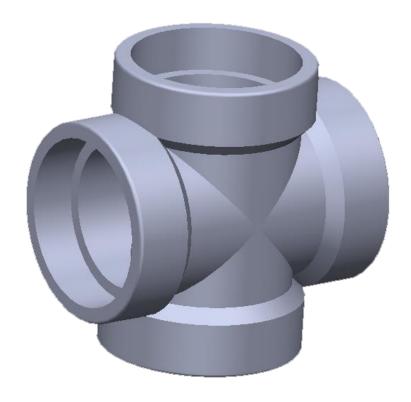
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MANUFACTURES
FROM A WIDE
VARIETY OF
MATERIALS

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Socket-weld Crosses

Socket-weld crosses are available in all types of materials.



SPECIFICATIONS

Socket-weld $^{1}/_{8}$ " through 4" Class 3000 & 6000 per ASME B16.11

Socket-weld 1/2" through 2" Class 9000

Other sizes and pressure classes available per customer request

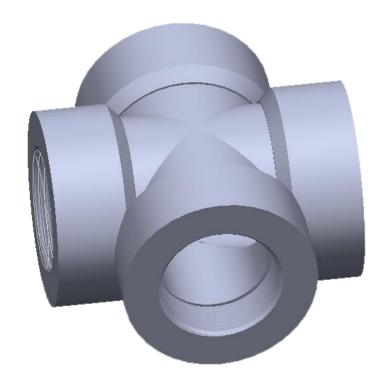
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PRODUCTS, INC.
MANUFACTURES
FROM A WIDE
VARIETY OF
MATERIALS

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Threaded-weld Crosses

Threaded crosses are available in all types of materials.



SPECIFICATIONS

Threaded $\frac{1}{8}$ " through 4" Class 3000 & 6000 per ASMEB16.11

Threaded $\frac{1}{4}$ " through 3" 10,000

Other sizes and pressure classes available per customer request

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MANUFACTURES
FROM A WIDE
VARIETY OF
MATERIALS

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Elbows

Butt-weld, Socket-weld and Threaded Elbows 90 & 45 degrees are available in all types of materials. Custom elbows can be manufactured per customer drawing.













- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Butt-weld Elbow 90°

Butt-weld Elbows 90 degrees are available in all types of materials. Custom elbows can be manufactured per customer drawing.



SPECIFICATIONS

Butt-weld S/R 90° 1" through 8" all schedules

Butt-weld L/R 90° 1/2" through 8" all schedules

Specifications: ASME B16.9

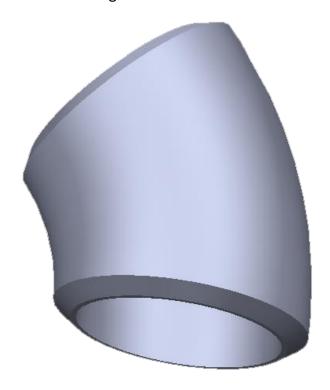
Other angles, sizes and pressure classes available per customer request

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) **Alkylation Service**
- Additional alloys per customer specification



Butt-weld Elbow 45°

Butt-weld Elbows 45 degrees are available in all types of materials. Custom elbows can be manufactured per customer drawing.



SPECIFICATIONS

Butt-weld S/R 45° 1" through 8" all schedules

Butt-weld L/R 45° 1/2" through 8" all schedules

Specifications: ASME B16.9

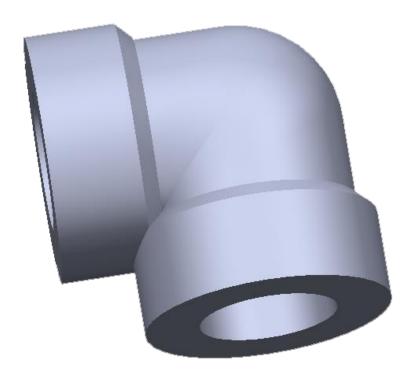
Other angles, sizes and pressure classes available per customer request

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Socket-weld Elbow 90°

Socket-weld Elbows 90 degrees are available in all types of materials. Custom elbows can be manufactured per customer drawing.



SPECIFICATIONS

Socket-weld 90° $^{1}/_{8}$ " through 4" Class 3000

Socket-weld 90° 1/8" through 4" Class 6000

Socket-weld 90° 1/2" through 2" Class 9000

Specifications: ASME B16.11

Other angles, sizes and pressure classes available per customer request

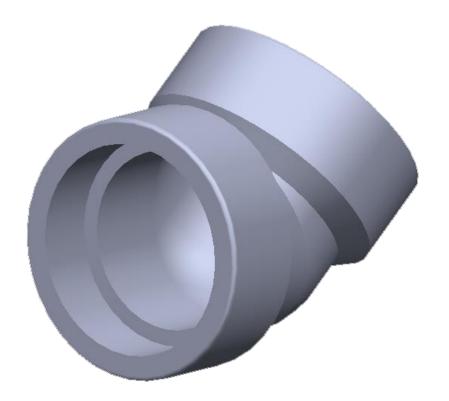
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PRODUCTS, INC.
MANUFACTURES
FROM A WIDE
VARIETY OF
MATERIALS

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Socket-weld Elbow 45°

Socket-weld 45 degrees are available in all types of materials. Custom elbows can be manufactured per customer drawing.



SPECIFICATIONS

Socket-weld 45° $^{1}/_{8}$ " through 4" Class 3000

Socket-weld 45° 1/8" through 4" Class 6000

Socket-weld 45° 1/2" through 2" Class 9000

Specifications: ASME B16.11

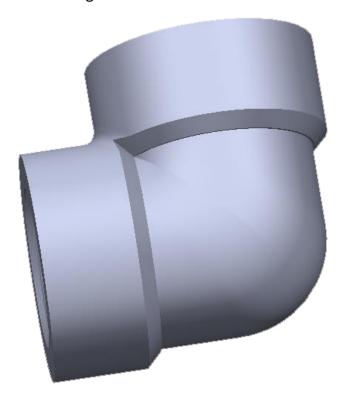
Other angles, sizes and pressure classes available per customer request

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Threaded Elbow 90°

Threaded Elbows 90 degrees are available in all types of materials. Custom elbows can be manufactured per customer drawing.



SPECIFICATIONS

Threaded 90° $^{1}/_{8}$ " through 4" Class 2000

Threaded 90° $^{1}/_{2}$ " through 4" Class 3000 & 6000

Threaded 90° 1/4" through 3" Class 10,000

Specifications: ASME B16.11

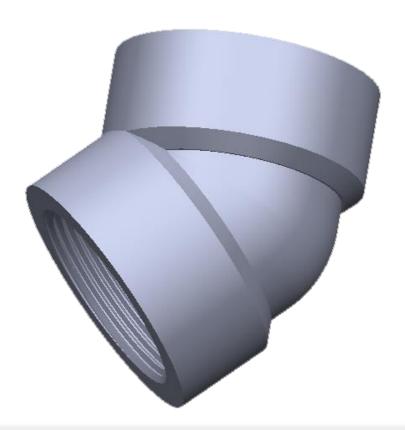
Other angles, sizes and pressure classes available per customer request

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Threaded Elbow 45°

Threaded Elbows 45 degrees are available in all types of materials. Custom elbows can be manufactured per customer drawing.



SPECIFICATIONS

Threaded 45° 1/2" through 4" Class 3000 & 6000

Threaded 45° 1/8" through 4" Class 2000

Threaded 45° 1/4" through 3" Class 10,000

Specifications: ASME B16.11

Other angles, sizes and pressure classes available per customer request

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Flanges

Manufactured to ASME B16.5 - Pipe Flanges and Flanged Fittings; ASME B16.36 - Orifice Flanges; ASME B16.47 – Large Diameter Steel Flanges; ASME B16.1 – Cast Iron Pipe Flanges and Flanged Fittings; JIS B2220 – Steel Pipe Flanges; MSS SP-44 – Steel Pipeline Flanges; and DIN EN 1092-1 – Steel Flanges – Part 1 . Other specifications and sizes are available per customer request.











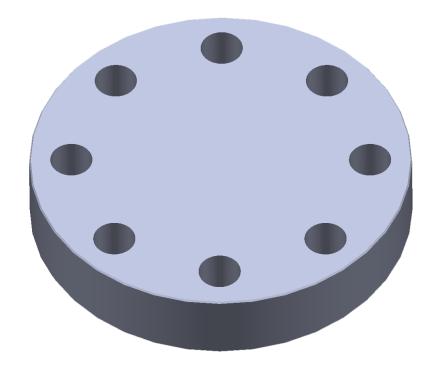


GIBSON
PRODUCTS, INC.
MANUFACTURES
FROM A WIDE
VARIETY OF
MATERIALS

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Blind Flanges



SPECIFICATIONS

 $^{1}/_{2}$ " through 24" Class 150, 300, 600, 900, 1500 per ASME B16.5

1/2" through 12" Class 2500 Per ASME B16.5

Facing Types: Raised Face, Flat Face, Ring Type Joint, Male, Female, Groove

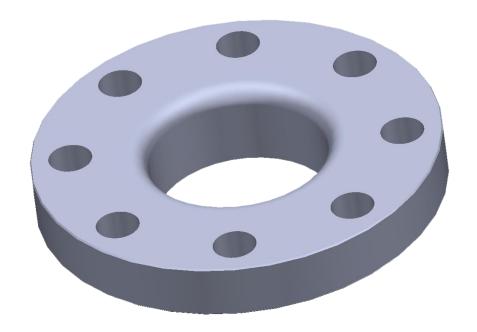
Specifications Available: ASME B16.5 - Pipe Flanges and Flanged Fittings; ASME B16.36 - Orifice Flanges; ASME B16.47 – Large Diameter Steel Flanges; ASME B16.1 – Cast Iron Pipe Flanges and Flanged Fittings; JIS B2220 – Steel Pipe Flanges; MSS SP-44 – Steel Pipeline Flanges; and DIN EN 1092-1 – Steel Flanges – Part 1

Reducing and Expanding sizes are also available for all facing and point of attachment type

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Lapped Joint Flanges



SPECIFICATIONS

 $^{1}/_{2}$ " through 24" Class 150, 300, 600, 900, 1500 per ASME B16.5

1/2" through 12" Class 2500 Per ASME B16.5

Specifications Available: ASME B16.5 - Pipe Flanges and Flanged Fittings

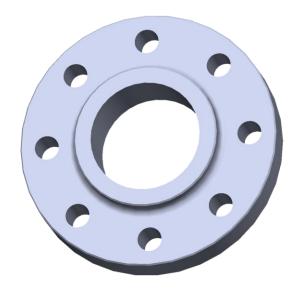
Reducing and Expanding sizes are also available

GIBSON
PRODUCTS, INC.
MANUFACTURES
FROM A WIDE
VARIETY OF
MATERIALS

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Slip-on Flanges



SPECIFICATIONS

¹/₂" through 24" Class 150, 300, 600, 900, 1500 per ASME B16.5**

¹/₂" through 12" Class 2500 Per ASME B16.5**

Facing Types: Raised Face, Flat Face, Ring Type Joint, Male, Female, Groove, Lens Joint, Lap Joint

Specifications Available: ASME B16.5 - Pipe Flanges and Flanged Fittings; ASME B16.36 - Orifice Flanges; ASME B16.47 – Large Diameter Steel Flanges; ASME B16.1 – Cast Iron Pipe Flanges and Flanged Fittings; JIS B2220 – Steel Pipe Flanges; MSS SP-44 – Steel Pipeline Flanges; and DIN EN 1092-1 – Steel Flanges – Part 1

Reducing and Expanding sizes are also available for all facing and point of attachment type

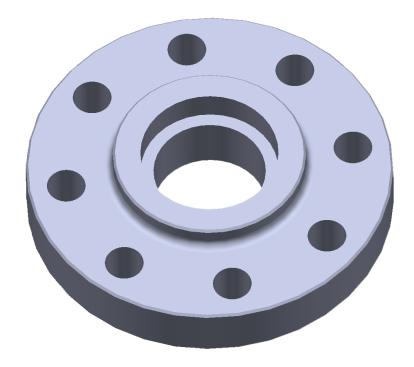
Also available inn Orifice Flange configuration

**NOTE: ASME B16.5 only covers $^{1}/_{2}$ " through 2 $^{1}/_{2}$ " for 1500# class flanges. Larger sizes can be made, but will not be stamped as B16 flanges. The same applies to all 2500# class sizes

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Socket-weld Flanges



SPECIFICATIONS

¹/₂" through 24" Class 150, 300, 600, 900, 1500 per ASME B16.5**

 $^{1}/_{2}$ " through 12" Class 2500 per ASME B16.5**

Facing Types: Raised Face, Flat Face, Ring Type Joint, Male, Female, Groove, Lens Joint, Lap Joint

Specifications Available: ASME B16.5 - Pipe Flanges and Flanged Fittings; ASME B16.36 - Orifice Flanges; ASME B16.47 – Large Diameter Steel Flanges; ASME B16.1 – Cast Iron Pipe Flanges and Flanged Fittings; JIS B2220 – Steel Pipe Flanges; MSS SP-44 – Steel Pipeline Flanges; and DIN EN 1092-1 – Steel Flanges – Part 1

**NOTE: ASME B16.5 only covers $^{1}/_{2}$ " through 3" for 150, and 600# class, and $^{1}/_{2}$ " through 2 $^{1}/_{2}$ " for 900 and 1500# class. Larger sizes can be manufactured, but will not be stamped as B16 flanges. The same applies to all 2500# class sizes

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Threaded Flanges



SPECIFICATIONS

¹/₂" through 24" Class 150, 300, 600, 900 per ASME B16.5**

¹/₂" through 12" Class 1500, and 2500 per ASME B16.5**

Facing Types: Raised Face, Flat Face, Ring Type Joint, Male, Female, Groove, Lens Joint, Lap Joint

Specifications Available: ASME B16.5 - Pipe Flanges and Flanged Fittings; ASME B16.36 - Orifice Flanges; ASME B16.47 – Large Diameter Steel Flanges; ASME B16.1 – Cast Iron Pipe Flanges and Flanged Fittings; JIS B2220 – Steel Pipe Flanges; MSS SP-44 – Steel Pipeline Flanges; and DIN EN 1092-1 – Steel Flanges – Part 1

Also available in Orifice Flange configuration

**NOTE: ASME B16.5 only applies through $^{1}/_{2}$ " through 2 $^{1}/_{2}$ " for class 1500, and 2500#. Larger sizes can be manufactured, but will not be stamped as B16 flanges

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Weld-neck Flanges



SPECIFICATIONS

 $^{1}/_{2}$ " through 24" Class 150, 300, 600, 900, 1500 per ASME B16.5

¹/₂" through 12" Class 2500 per ASME B16.5

Facing Types: Raised Face, Flat Face, Ring Type Joint, Male, Female, Groove, Lens Joint, Lap Joint

Specifications Available: ASME B16.5 - Pipe Flanges and Flanged Fittings; ASME B16.36 - Orifice Flanges; ASME B16.47 – Large Diameter Steel Flanges; ASME B16.1 – Cast Iron Pipe Flanges and Flanged Fittings; JIS B2220 – Steel Pipe Flanges; MSS SP-44 – Steel Pipeline Flanges; and DIN EN 1092-1 – Steel Flanges – Part 1

Also available in Orifice Flange configuration

GIBSON
PRODUCTS, INC.
MANUFACTURES
FROM A WIDE
VARIETY OF
MATERIALS

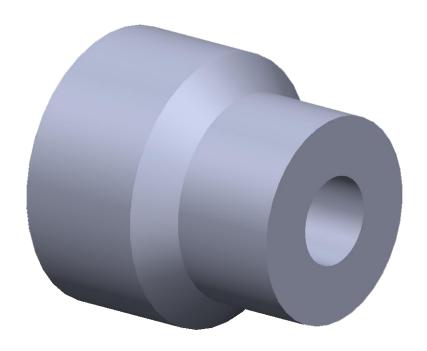
- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification

Learn more at GibsonProducts.com



Inserts

Threaded and Socket-weld Inserts are available in all types of materials.



SPECIFICATIONS

Socket-weld Reducer Type 1 & Type 2

 $^{1}/_{4}$ " X $^{1}/_{8}$ " through 4" X 1"

Specifications: MSS SP-79

The female end is defined by the equivalent coupling O.D. ASME B16.11 respective class (3000, 6000, & 9000). Female side is also available in threaded configurations

GIBSON
PRODUCTS, INC.
MANUFACTURES
FROM A WIDE
VARIETY OF
MATERIALS

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Laterals

Butt-weld, Socket-weld and Threaded laterals are available in all types of materials.







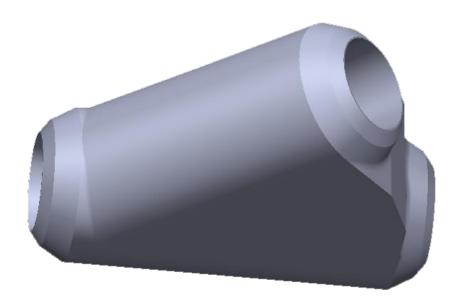
GIBSON PRODUCTS, INC. MANUFACTURES FROM A WIDE VARIETY OF MATERIALS

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Butt-weld Laterals

Butt-weld, Socket-weld and Threaded laterals are available in all types of materials.



SPECIFICATIONS

Butt-weld: 3/4" through 30" all schedules

Specifications: Butt-weld ends per ASME B16.25

Also available in reducing configurations

GIBSON
PRODUCTS, INC.
MANUFACTURES
FROM A WIDE
VARIETY OF
MATERIALS

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Socket-weld Laterals

Butt-weld, Socket-weld and Threaded laterals are available in all types of materials.



SPECIFICATIONS

3/8" through 3" Class 3000

¹/₂" through 2" Class 6000 & 9000

Specifications: Socket-weld ends per ASME B16.11

Also available in reducing configurations

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Threaded Laterals

Butt-weld, Socket-weld and Threaded laterals are available in all types of materials.



SPECIFICATIONS

1/4" through 3" Class 3000

1/4" through 2" Class 6000

1/4" through 1 1/4" Class 10,000

Specifications: Threaded ends per ASME B16.11

Also available in reducing configurations

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification

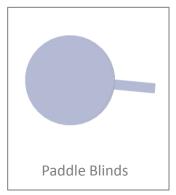


Line Blanks

Gibson Line Blanks can be relied upon to perform in the most challenging of applications.





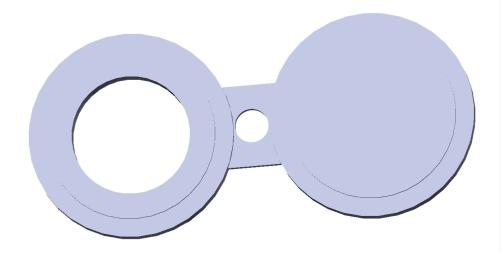


- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Spectacle Blank

Also called Figure-8 Blanks, a Spectacle Blank is a pressure-retaining plate with one solid end and one open end connected with a web or tie bar.



SPECIFICATIONS

Line Blank: RF and RTJ ¹/₂" through 24" Class 150, 300, 600, 900, 1500

Line Blank: RF and RTJ 1/2" through 12" Class 2500

Spectacle Blank: RF and RTJ $^{1}/_{2}$ " through 24" Class 150, 300, 600, 900, 1500

Spectacle Blank: RF and RTJ 1/2" through 12" Class 2500

Specifications: ASME B16.48

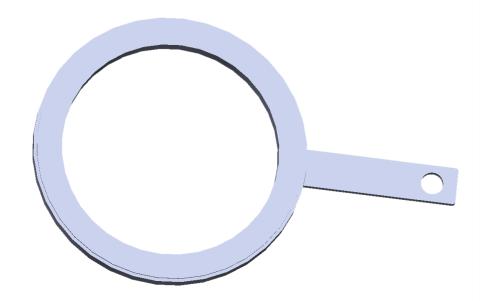
Special thicknesses and handle configurations are available per customer request

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Paddle Spacer

A Paddle Spacer is similar to the open end of a Figure-8 Blank. It has a plain radial handle and is generally used in conjunction with a Paddle Blind.



SPECIFICATIONS

Line Blank: RF and RTJ $\frac{1}{2}$ " through 24" Class 150, 300, 600, 900, 1500

Line Blank: RF and RTJ 1/2" through 12" Class 2500

Paddle Spacer: RF and RTJ 1/2" through 24"

Class 150, 300, 600, 900, 1500

Paddle Spacer: RF and RTJ $\frac{1}{2}$ " through 12" Class 2500

Specifications: ASME B16.48

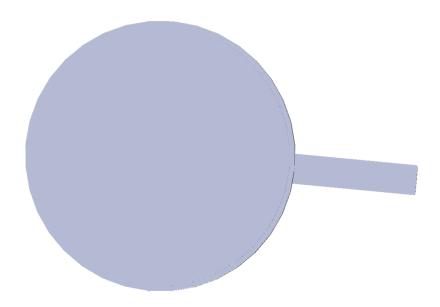
Special thicknesses and handle configurations are available per customer request

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Paddle Blinds (Blanks)

A Paddle Blind (Blank) is similar to the solid end of a Figure-8 Blank. It has a plain radial handle and is generally used in conjunction with a paddle spacer.



SPECIFICATIONS

Line Blank: RF and RTJ ¹/₂" through 24" Class 150, 300, 600, 900, 1500

Line Blank: RF and RTJ 1/2" through 12" Class 2500

Paddle Blind: RF and RTJ 1/2" through 24"

Class 150, 300, 600, 900, 1500

Paddle Blind: RF and RTJ 1/2" through 12" Class 2500

Specifications: ASME B16.48

Special thicknesses and handle configurations are available per customer request

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Pipe Nipples

Pipe Nipples are available in many sizes and schedules, and are manufactured in many grades of material.



SPECIFICATIONS

Butt-weld: 1/6" through 24" all schedules

Plain End: 1/16" through 24" all schedules

Threaded End: 1/16" through 24"** all schedules

Square End: 1/16" through 24" all schedules

Grooved End: 3/4" through 24" all schedules

Special sizes and wall thicknesses available per customer request

Specifications: ASTM/ASME pipe material requirements

All combination of ends are available

**Note: Standard wall or thicker is required in order to machine a male thread on pipe nipple

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) **Alkylation Service**
- Additional alloys per customer specification



Plugs

Gibson offers a complete range of male Socket-weld and male Threaded plugs with round or hex bodies. Plugs are available in all grades of materials.











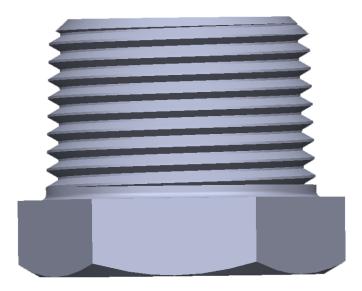


- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Hex Head Plugs

Gibson offers a complete range of male Socket-weld and male Threaded plugs. Plugs are available in all grades of materials.



SPECIFICATIONS

Available sizes: $\frac{1}{4}$ " through 8"

Specifications: ASME B16.11

Non-standard and special threads also available

Also available in special lengths

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Square Head Plugs

Gibson offers a complete range of male Socket-weld and male Threaded plugs. Plugs are available in all grades of materials.



SPECIFICATIONS

Available sizes: 1/8" through 6"

Specifications: ASME B16.11 and ASME B16.14

Non-standard and special threads also available

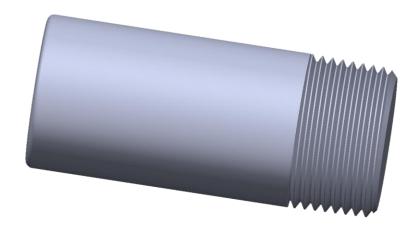
Also available in special lengths

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Round Head Plugs

Gibson offers a complete range of male Socket-weld and male Threaded plugs. Plugs are available in all grades of materials.



SPECIFICATIONS

Available sizes: $\frac{1}{8}$ " through 5"

Specifications: ASME B16.11

Non-standard and special threads also available

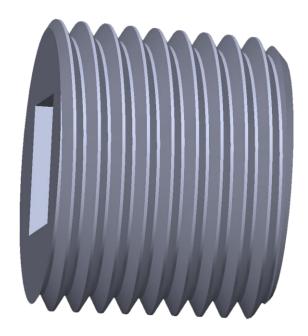
Also available in special lengths

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Countersunk Plugs

Gibson offers a complete range of male Socket-weld and male Threaded plugs. Plugs are available in all grades of materials.



SPECIFICATIONS

Available sizes: 1/8" through 4"

Specifications: ASME B16.14

Non-standard and special threads also available

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Radiographic Plugs

These plugs are for radiographic inspection of pipe Butt-welds where the radiographic source is inside of the pipe. They are available in all grades of material.



SPECIFICATIONS

Available sizes: All figures

Specifications: PFI ES-16

Non-special lengths also available

Also available in special lengths

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) **Alkylation Service**
- Additional alloys per customer specification



Bull Plugs

Gibson offers a complete range of male Socket-weld and male Threaded plugs. These plugs are available in all grades of materials.



SPECIFICATIONS

Available sizes: 1/8" through 12"

Specifications: MSS SP-95

Available in Butt-weld configuration all schedules

Also available in male Socket-weld configuration

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Reducers

Butt-weld Reducers are available in all types of materials, for both Concentric and Eccentric configurations.



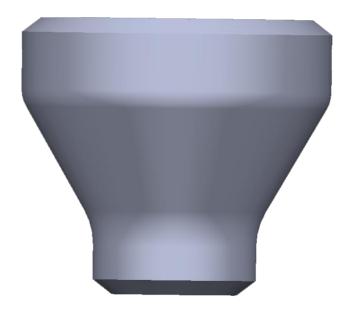


- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Concentric Reducer

Concentric Butt-weld Reducers are available in all types of materials.



SPECIFICATIONS

Available sizes: $\frac{3}{4}$ " x $\frac{1}{2}$ " through 26"x 16" all schedules

Specifications: ASME B16.9

Custom end preps, special sizes and conical shape are also available per customer request

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Eccentric Reducer

Eccentric Butt-weld Reducers are available in all types of materials.



SPECIFICATIONS

Available sizes: $\frac{3}{4}$ " x $\frac{1}{2}$ " through 26" x 16" all schedules

Specifications: ASME B16.9

Custom end preps, special sizes and conical shape are also available per customer request

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Return Bends

Formed Return Bends manufactured by Gibson can be trusted to work in the most demanding of industrial applications. Return bends are available in most grades of material.



SPECIFICATIONS

Butt-weld 180 Short Radius 1" through 4" all schedules

Butt-weld 180 Long Radius $\frac{1}{2}$ " through 4" all schedules

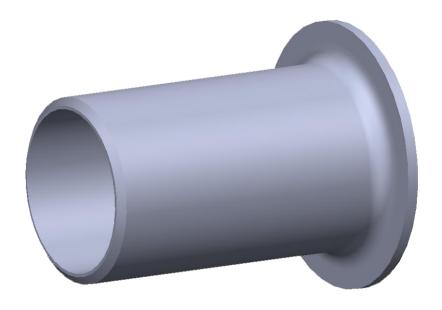
Specifications: ASME B16.9

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Stub Ends

Gibson stub ends can be relied upon to perform in the most demanding of applications. Stub ends are available in most grades of material.



SPECIFICATIONS

 $^{1}\!/_{2}$ " through 24" Short and Long Pattern for all pipe schedules

Specifications: MSS SP-43 and ASME 16.9

Custom overall lengths are available per customer request

Available in RTJ configuration as well as reducing configuration

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Studding Outlets

Studding outlets by Gibson are available in all ANSI flange pressure classes.





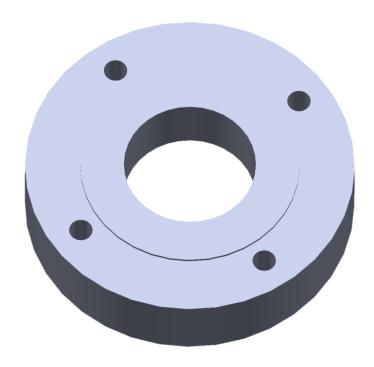


- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloys
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Insert Studding Outlets

Studding Outlets by Gibson are available in all ANSI flange pressure classes, and are available in most grades of material.



SPECIFICATIONS

Raised Face: 1/2" through 24" Class 150, 300, 600, 900, 1500

Raised Face: 1/2" through 12" Class 2500

Ring Joint facing also available

Specification: ASME B16.5

GIBSON
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MANUFACTURES
FROM A WIDE
VARIETY OF
MATERIALS

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Tangential Studding Outlets

Studding Outlets by Gibson are available in all ANSI flange pressure classes, and are available in most grades of material.



SPECIFICATIONS

Raised Face: 1/2" through 24" Class 150, 300, 600, 900, 1500

Raised Face: 1/2" through 12" Class 2500

Ring Joint facing also available

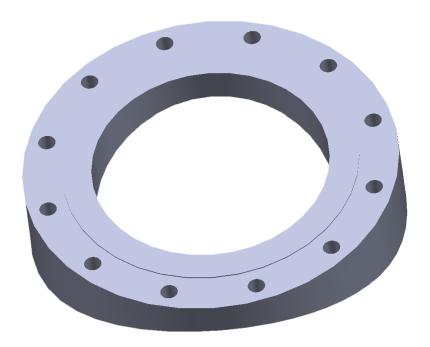
Specification: ASME B16.5

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Weld-on Studding Outlets

Studding Outlets by Gibson are available in all ANSI flange pressure classes, and are available in most grades of material.



SPECIFICATIONS

Raised Face: 1/2" through 24" Class 150, 300, 600, 900, 1500

Raised Face: 1/2" through 12" Class 2500

Ring Joint facing also available

Specification: ASME B16.5

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Swage Nipples

Gibson Swages can be relied upon to perform in the most challenging industrial applications.



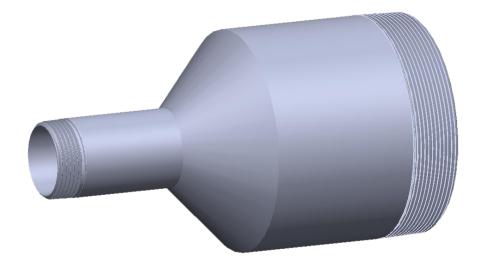


- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Concentric Swages

Gibson Swages can be relied upon to perform in the most challenging industrial applications. Swages are available in most grades of material.



SPECIFICATIONS

 $^{1}/_{4}$ " x $^{1}/_{8}$ " through 12" x 10" all schedules

Specifications: MSS SP-95

Available end preps: Male threaded end, Butt-weld beveled end, Plain square end, Grooved end and any combination of the ends listed above

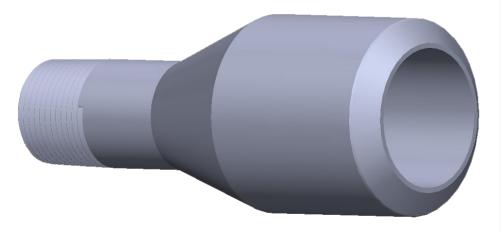
Special end preps and lengths are available per customer request

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Eccentric Swages

Gibson Swages can be relied upon to perform in the most challenging industrial applications, and are available in most grades of material.



SPECIFICATIONS

 $^{1}/_{4}$ " x $^{1}/_{8}$ " through 12" x 10" all schedules

Specifications: MSS SP-95

Available end preps: Male threaded end, Butt-weld beveled end, Plain square end, Grooved end and any combination of the ends listed above

Special end preps and lengths are available per customer request

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Tees

Butt-weld, Threaded and Socket-weld Tees are available in all types of material.





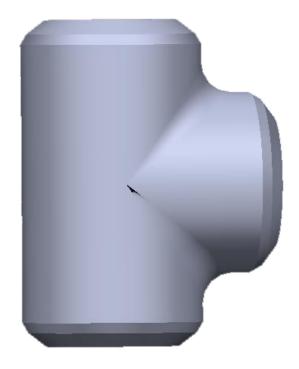


- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Butt-weld Tees

Butt-weld, Threaded and Socket-weld Tees are available in all types of material.



SPECIFICATIONS

Butt-weld: 1/2 " through 20" all schedules

Specifications: ASME B16.9

Other classes and sizes are available per customer request

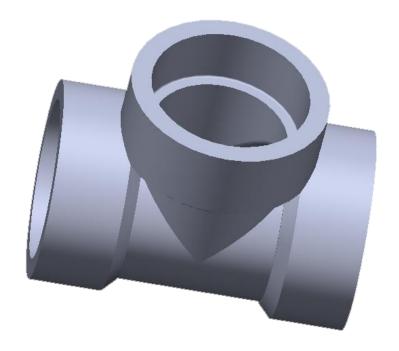
Also available in reducing and combination configurations

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Socket-weld Tees

Butt-weld, Threaded and Socket-weld Tees are available in all types of material.



SPECIFICATIONS

Socket-weld: 1/8" through 4" Class 3000

Socket-weld: 1/8" through 4" Class 6000

Socket-weld: 1/2" through 3" Class 9000

Specifications: ASME B16.11

Other classes and sizes are available per customer request

Also available in reducing and combination configurations

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Threaded Tees

Butt-weld, Threaded and Socket-weld Tees are available in all types of material.



SPECIFICATIONS

Threaded: $\frac{1}{8}$ " through 4" Class 3000 and 6000

Threaded: 1/4" through 3" Class 10,000

Specifications: ASME B16.11

Other classes and sizes are available per customer request

Also available in reducing and combination configurations

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Unions

Butt-weld, Socket-weld and Threaded Unions are available in all types of materials.





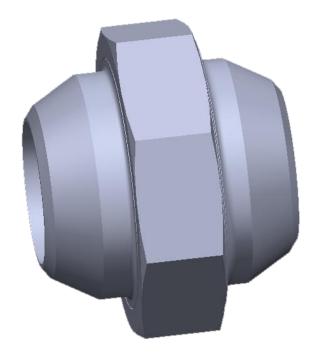


- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Butt-weld Unions

Butt-weld, Socket-weld and Threaded Unions are available in all types of materials.



SPECIFICATIONS

Butt-weld: 3/4" through 2" all schedules

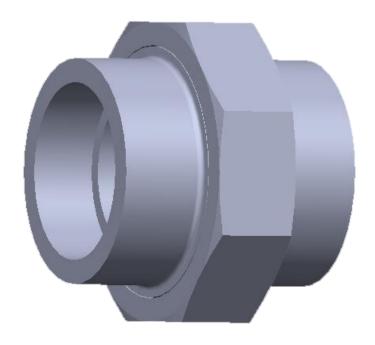
Specifications: Butt-weld ends per ASME B16.25

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Socket-weld Unions

Butt-weld, Socket-weld and Threaded Unions are available in all types of materials.



SPECIFICATIONS

Socket-weld: 1/8" through 3" Class 3000

Socket-weld: 1/8" through 2 1/2" Class 6000

Socket-weld: 1/4" through 2" Class 9000

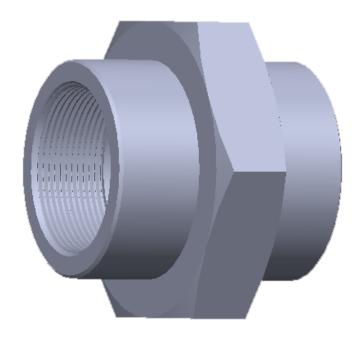
Specifications: MSS SP-83

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Threaded Unions

Butt-weld, Socket-weld and Threaded Unions are available in all types of materials.



SPECIFICATIONS

Threaded: 1/8" through 4" Class 3000

Threaded: 1/8" through 2 1/2" Class 6000

Threaded: 1/4" through 2" Class 9000

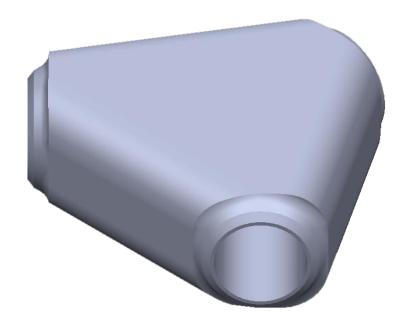
Specifications: MSS SP-83

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Wyes

Gibson Wyes are designed to perform well in the most demanding of applications, and are available in most grades of material.



SPECIFICATIONS

 $\frac{1}{2}$ " through 6" all schedules

3/8" through 2" Class 3000

 $\frac{3}{4}$ " through 1 $\frac{1}{2}$ " Class 6000

3/8" through 2" Class 3000

Specifications: Butt-weld ends per ASME B16.25

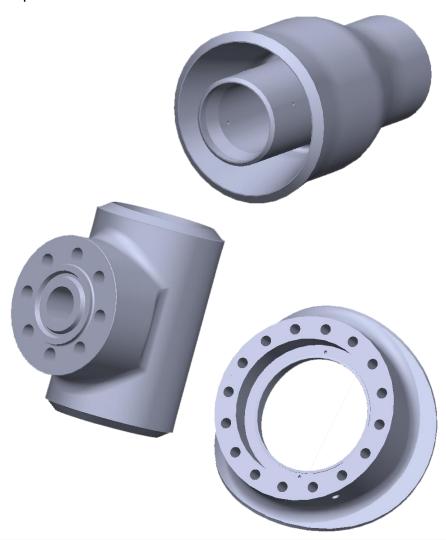
GIBSON
PRODUCTS, INC.
MANUFACTURES
FROM A WIDE
VARIETY OF
MATERIALS

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification



Special

Gibson can manufacture a range of "Special" products designed to perform in a range of challenging industrial applications, and in any grade of material per customer specification.



SPECIFICATIONS

Specifications: Per customer requirements

GIBSON
PRODUCTS, INC.
MANUFACTURES
FROM A WIDE
VARIETY OF
MATERIALS

- Carbon steel
- Stainless steel
- Chrome moly
- Nickel alloy
- Aluminum
- Copper nickel
- Titanium
- Zirconium
- Ferralium
- Materials used for Hydrofluoric Acid (HF) Alkylation Service
- Additional alloys per customer specification

Learn more at GibsonProducts.com