

# Penn Machine

Since 1931

## Forged Shape Fittings



1/8" to 4" Threaded and Socketweld 90, 45, Tees, Crosses, Street Elbows and Laterals. 2000#, 3000#, 6000# and 9000# Pressure Ratings.

## Bar Fittings



1/8" to 6" Barstock Fittings Including Couplings, Reducers, Caps, Unions, Couplets, Bosses, Bushings, Inserts, Plugs (Hex-Square-Round), Counter Sunk Plugs and Specialty Items.

## Branch Connections



Outlet Types – Socket Weld, Butt Weld, and Threaded; 45 and 90 Degree Outlets. Outlet Size 1/8" to 72". Typical Bores – S/10, STD, XH S/160 and XXH. Special Bores – S/5, TRUE 40, TRUE 80, S/100, S/120 and Minwall Requirements.

## Material Grades:

Listed are some of the available grades. Additional alloys available on request.

**Carbon Steels:** A105, Normalized, Plus A694- F42; F52; F60; F65; F70, A105N-HF, A106B, WPB, LF2, LF3

**Stainless Steels:** 304/304L, 316/316L, 309, 310, 317L, 321/H, 347/H, AL6XN (N08367), F44 (254SMO), F51 (2205), F53 (2507), F55, 405, 410, F6A, A904L (N08904), Alloy 20 (N08020)

**Nickel Alloys:** A400 (N04400), A200 (N02200), A201 (N02201), A800 (N08800), A800H (N08810), A800HT

(N08811), A825 (N08825), A600 (N06600), A625 (N06625), A925, C276 (N10276), C-22 ® (N06022), C2000, B2 (N10665), B3, G30, Nitronic 60

**Chrome Moly Alloys:** F11, F22, F5, F9, F91, F92

**Titanium:** Grade 2

**Aluminum Alloys:** 6061, 5083, 5086

**Copper Nickel:** 70/30, 90/10



# Penn Machine Custom Fittings

## SWAGES

- Concentric
- Eccentric
- Split Schedules
- Special Lengths

## BOSSES

- Socket Weld
- Threaded
- Combination  
(Socket Weld / Threaded)

## UNIONS

- O Ring Unions
- Orifice Unions
- Insulating Unions

## UNION ELBOWS

- Male Threaded
- Female Threaded

## REDUCERS

- Butt Weld
- Eccentric  
(Socket Weld / Threaded)

## PLUGS

- Bull Plugs
- Special Length
- Counter Sunk
- Radiograph Plugs

## ADAPTERS

- Socket x Thread
- Butt Weld x Thread
- Male x Female Adapters
- OD Tube Adapters

## REDUCING FITTINGS

- Tees - Socket x Thread
- 90's - Socket x Thread
- Bull Head Tees
- Butt Weld Tees
- Male Thread - Tees, 90's

## NIPPLES

- Seamless
- Welded

## THREADS

- Left Hand
- Straight
  - NPTF (Dry Seal)
  - NPSC
  - NPTM
  - NGT (Gas Taper)
- British Standard
  - Taper
  - Parallel
- Metric
- JIS
- SAE

## OUTLETS

- Flange Outlet
- Sweep Outlet
- Insert Outlet

## SPECIAL FITTINGS

- Thermowells
- Nozzles

## Quality

ISO 9001 / PED Certification, SHARP Certification, NAFTA Certification, Canadian Registration Numbers, SDS, US CAGE Numbers, GHS Safety Data Sheet, NSF-61 Certified and USMCA Certification.

## Services

Order Tracking | Material Testing reports | Custom Fittings | Box Quantity Packaging | Special Order Handling | Special Product Testing | Product Certifications Engineered Products | (ASI) Make & Melt in USA | (2) Shipping Locations | Same Day Service | Emergency Call Out Services for Weekends and Holidays | World Wide Delivery | 24 Hour Service

1-800-Penn-USA (1-800-736-6872) | [www.pennusa.com](http://www.pennusa.com)  
MANUFACTURERS OF PENN FORGED PIPE FITTINGS SINCE 1931

