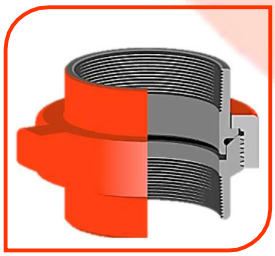
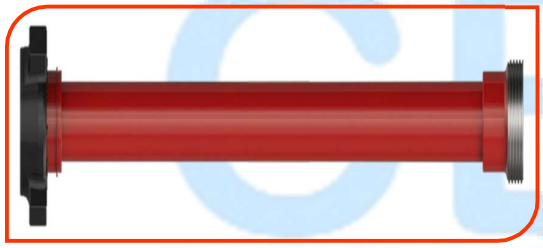
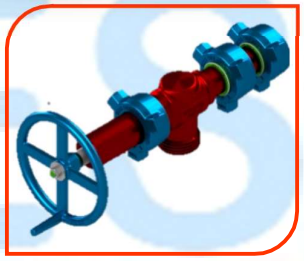
# CANNY ENGINEERING SERVICES

**Manufacturer and supplier of Oilfield Products & Engineering Equipment's**



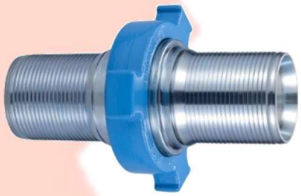




# HAMMER UNIONS

- Hammer union range in size from 1” to 12”.
- Manufactured by Steel forgings using appropriate materials to specific pressure ratings.
- Low temperature application with suitable impact value testing.
- Components of the same size and figure number are interchangeable with OEM.
- Unions are available in a choice of end connections. API line pipe threads are standard, Butt weld ends, and socket weld ends can be provided.
- H2S service is available and all H2S service conforms to the latest NACE MR 0175.

# Frac Subs/Hose Union / Suction Hose Union’s



- We manufacture a range of suction-hose and Frac Tank Unions in 4”, 6”and 8”
- Size in pressure ranging from 500 to 1,000 PSI CWP.

# PUP JOINTS

## Integral Pup Joints

- Integral Pup joints are made of high-quality alloy steel, integrally constructed, forged ended, and features seamless upset construction. Detachable wing union end connections enable fast, easy make-up and break-out of temporary flow lines.
- Pup joints are hydrostatically tested at 1.5 times the rated cold working pressure.
- Available from 2" to 3" sizes, lengths for pup joints range from 1 foot to 12 feet.
- Cold Working pressure 10000 PSI for H2S service and 15,000 psi for Standard Service.

## NPST Pup Joints

- NPST Pup joints are made of high-quality seamless pipeline with male and female detachable Hammer Unions.
- Available from 2" to 3" sizes, lengths for pup joints range from 2 foot to 20 feet.
- Cold Working pressure 10000 PSI for H2S service and 15,000 psi for Standard Service.

# SWIVEL JOINTS & Repair Kits

## Long Radius Swivel Joint

Available in sizes 2” & 3" up to 15,000 PSI

- Long Sweep Joints have long radius elbows for better flow characteristics.
- Recommended for high pressure applications.
- Field repairable and easy to use.
- Available in both union and threaded ends.

**info@cannyengineeringservices.com** www.cannyengineeringservices.com

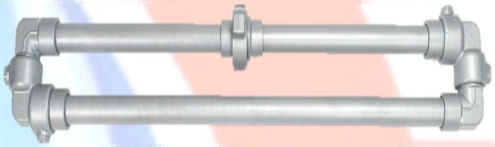
### Short Radius Swivel Joint

- Smooth rotation without sacrificing strength and integrity of steel.
- Superior hardened ball races ensure. uniform surface hardness and depth for longer life under severe thrust and radial loading
- Standard Swivel Joints are provided with API line pipe threads.
- Other end connections are available on request.
- Material meets the requirements of the ASTM / ANSI Standards.

## STEEL HOSE LOOPS

High pressure steel hoses incorporate swivel joints of forged steel with superior quality hardened ball races and high-pressure type packing units.

- Available in 2” and 3” of nominal pipe sizes in Standard and Sour Service.
- Suitable for Cementing Lines, Water Lines, Well Testing Lines etc.
- Long Radius Steel hoses are suitable for pressures up to 15,000 psi.
- Short Radius steel hoses are suitable for pressures up to 6,000 psi.



## INTEGRAL FITTING (Elbow, TEE, Cross)

## CROSSOVERS

Adapters and Crossover are available in high quality forged construction with threaded, integral & Welded hammer lug union end connection. Also available in different configurations on customer request.

# FLANGES (API /ASME)

Manufacturer of various types of Flanges and pipe fittings required in the oilfield, Petrochemical and different processes industries, Precision matching and unparalleled dedication to quality excellence which has kept us in the fore front of oil industry. We also manufactured adapters flanges which are available in various bore sizes and with quick union connection compatible, Flange /Adapters are supplied for standard or H2S service and working pressure up to 20,000 PSI.

Threaded

Adapter Flange

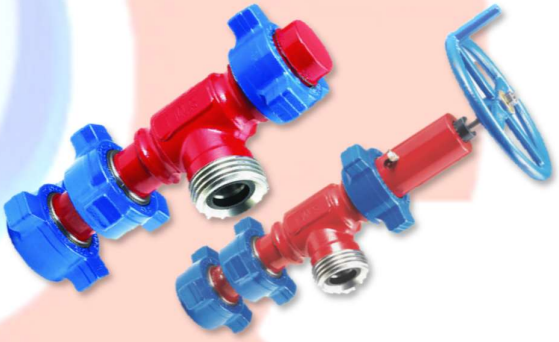
Blind Flange

Weld neck

# PLUG VALVE & Repair Kits

- Standard service is used up to 15,000psi and tested at 22,500psi.
- H2S service is used up to 10,000psi and tested at 15,000psi.
- Valve Parts are Interchangeable with most major designs
- Suitable for variety of high-pressure applications such as fracturing, cementing, acidizing etc,
- Sizes available 2" x 1", 2" x 2", 3" x 3" Fig 1502 HU Ends.

# CHOKE



## Adjustable Choke & Positive Choke

- 2" and 3" Fig 1502 MXF with 3/4", 1" and 2" Orifice
- Standard and H2S Service are used up to CWP 10,000 psi, tested at 15,000 psi Hammer Union end connection.
- Forged alloy steel body, stainless steel and tungsten carbide parts
- Suitable for a broad range of applications including wellheads, production manifolds, well testing, steam injection, choke and kill manifolds and well clean operations, etc

# CHOKE SEAT AND STEM

A choke is used to control the flow of fluids and is usually mounted on or close to the Christmas tree. High pressure gas/oil, with abrasive sand minerals pass through these chokes at high-speed causing a rapid wear. CES Bean Chokes have steel housings which may be nitride and are lined with Tungsten Carbide or Zirconia Ceramic inserts, to protect them from corrosive, erosive and abrasive wear.
These are mated with a precise diameter seat that forms the choke, through which all the abrasive/ corrosive fluids must pass. Beans are available in complete range of sizes (4/64 to 128/64) generally identified by the choke diameter stated in 64th of an inch. CES offers Tungsten Carbide / Zirconia lined choke beans & Tungsten Carbide stems for the above makes, other custom designed flanged positive chokes, threaded adjustable chokes & stems/ seats.

# CHOKE MANIFOLD

CES manufacture a range of Manifolds for applications like choke & kill lines, standpipe, and high-pressure pumping in sizes 2" and pressures up to 15,000 PSI. Customized manifolds to specific requirements can be ordered.

- 5 Valve Manifold
- 9 Valve Manifold

# PIPE NIPPLES

**Specification: -**

- **Material**: -
  -Carbon steel Seamless steel Pipe conforms to ASTM A 106 GR. B.
  -Stainless steel Pipe conforms to ASTM/ASME A182.
- **Dimensions:** -Seamless Steel Nipple Design / Dimensions conform to ASTM A733. Contact CES for exact dimensional information.
- **Threading: -**NPT Threads on Nipples conform to ASME B1.20.1
- **Marking: -**Manufacturer's Symbol, Material Grade, heat code

# SWAGE NIPPLES & BULL PLUGS

**Specification: -**

- **Material:** - Carbon Steel / alloy steel / Stainless steel.
- **Threading**: - Line Pipe – API 5B, NPT – ASME B1.20.1 as applicable
- **Weld Bevel**: ASME B16.9.
- **Dimensions:** -MSS SP-95
- **Marking:** - Manufacturer's Symbol, Material Grade, heat code
- **NACE MR-01-75** – as applicable
- **Coating:** -Zinc Electroplating / paint as applicable

# COUPLING, HEX PLUG, HEX BUSHING

**Specification: -**

- **Material:** - Carbon Steel / alloy steel / Stainless steel.
- **Threading**: - NPT – ASME B1.20.1 as applicable
- **Dimensions:** -ASME B16.11
- **Marking:** - Manufacturer's Symbol, Material Grade, heat code

# HEX UNIONS

**Specification: -**

- **Material:** - Carbon Steel / alloy steel / Stainless steel.
- **Threading**: - NPT – ASME B1.20.1 as applicable
- **Dimensions:** -ASME B16.11
- **Marking:** - Manufacturer's Symbol, Material Grade, heat code
- **Pressure:** - 3000 PSI

# HIGH PRESSURE GREASE FITTINGS / BONNET FITTINGS

**Specification: -**

- **Material:** - Carbon Steel / alloy steel / Stainless steel.
- **Threading**: - NPT – ASME B1.20.1 as applicable
- **Marking:** - Manufacturer's Symbol, Material Grade, heat code
- **Pressure:** - 10000 PSI, 15000 PSI,
- **Application:** -Plug valve, Gate valve

# API 20E STUD BOLTING

- Stud Bolt: -Used in high pressure bolting situations for pipeline, drilling, petroleum / petrochemical refining, and general industry for sealing and flange connections **all-thread, Double-end stud, tap-end stud, and stud bolts**.

- All-thread studs (Continuous thread): - All-thread studs bolt is a continuous threaded stud with 2 heavy hex nuts,
- Double-end studs: -Double end studs are equal thread lengths on both ends used for flange bolting.
- Tap-end studs: -Tap end studs are long thread at one end short thread on other end, short end thread called Tap-end threads, tightened in tapped holes,
- Hex Bolts: -bolt with Hex head used for general purpose.

- Material Specification: -as per API 20E latest edition.
  - ASTM A 193 Gr. B7, B7M
  - ASTM A194 Gr. 2H, 2HM, 7, 7M,
  - ASTM A320 Gr, L7, L7M

- Dimensions & Threading:
  - ASME B1.1 – UN/ UNR
  - ASME B18.31.2 - Studs
  - ASME B18.2.2 - Nuts
  - ASME B18.2.1 – Bolts

## Our Capability:

- Quality control: - Quality control requirements compliance as per API 20E controlled material procurement, material identification, dimensional inspection, Hardness, UT, MP, Thread gauging, equipment calibration, final marking, and traceability, sampling, heat-treatment, chemical testing, physical testing.
- Production: - cutting, turning, drilling, threading (External, Internal), coating (Phosphating, Xylan),
- Marking and packing: - customer specific marking & seaworthy wooden box packing to ensure threads safety.

## QMS: -ISO 9001:2015

- Inspection report using calibrated equipment's.
- Work test certificate as per EN10204 – 3.1
- All test results provided on certificates from NABL accredited labs.

**Work Address: -**

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