

# PUP JOINT

## Product Overview

Pup joints are High Pressure Fluid Control Products widely used in the acidic operating environment (excluding containing CO<sub>2</sub>, H<sub>2</sub>S sour gas operating environment), in the high-pressure discharge line, input line, a temporary flow line, well testing, and other high-voltage transmission lines on pipelines. Pup joint specifications are 1 in ~ 4 in, length 0.5ft~15ft, rated working pressure 42MPa ~ 105MPa, working temperature -46 °C ~ 121 °C.



- The **high pressure pup joint** designed and manufactured by our company is forged by high quality structural alloy steel. Terminal union is forged together with pipe, which is able to avoid disassembling and ensure good sealing, small weight, convenient use and fast installation. High pressure Pup joint has various specifications including 1"~4" and lengths including 0.5ft~15ft, rated working pressure is 42MPa~105MPa. Any specification of pup joint or even **integral pup joint** special for acid environment is available according to users' needs.

## Design features

Pup joint technical parameters and performance specifications are in line with API 6A. Its product specification level PLS3, performance levels for the PR2.

Pup joint made of high strength steel, with a special toughening process. It uses ACME threaded connection, making it with the demolition convenient, fast, reliable connection, and reliable. Multiple seal design and high precision, to ensure the sealing performance of Pup joint.

- The integral pup joint is union instead of screw connection on the top, which is more secure and reliable;
- Easy and quick assembling and disassembling.
- High strength and low weight.
- Each technical parameters and performances of pup joints conform to standards of API Spec 6A and can be exchanged with like products internationally.

## Main Technical Parameters of High Pressure Pup Joints

Production Name	Terminal Connection Type	Buckle Model	Working Environment	Buckling Size
Pressure thread sealing pup joint	Tr100 × 12 Tr110 × 8	M × M M × F F × F	42 Mpa (6000 psi) 70 Mpa (10000 psi) 105 Mpa (15000 psi)	1-1/2" 2" 3" 4"
Non-pressure thread sealing pup joint				
Integral pup joint	Union head fig. 602	Flange		2-1/16" 2-9/16" 3-1/16" 3-1/8" 4-1/16"
Anti-sulfur integral pup joint	Union head fig. 1002			
Welding pup joint	Union head fig. 1502			
Welding flange pup joint				

Remark: "F" –threaded joint, "M" –sphere joint



## Precautions

- 1 Must be confirmed before operating Pup joint from the nameplate rated working pressure, applicable specifications, allowing the use of the temperature range.
- 2 Pup joint should regularly measure the wall thickness using ultrasonic thickness gauge is recommended once a month, if not reach the effective thickness value should be replaced immediately.
- 3 Pup joint work can not be immersed in water or underwater and also can not bear axial load at work.
- 4 When the installation, the operator should wear protective goggles to prevent the installation of a small debris flying eye injury.

## Caveat

- Do not use in excess of the rated working pressure conditions.
- Pup joint design operating temperature of  $-46\text{ }^{\circ}\text{C} \sim 121\text{ }^{\circ}\text{C}$ , when the ambient temperature is below  $-46\text{ }^{\circ}\text{C}$ , or contact the fluid temperature is higher than  $121\text{ }^{\circ}\text{C}$ , you should immediately discontinue use.
- Do not disassemble Pup joint work in the system pressure.
- Pup joint less than the required thickness of the non-use, non-use of old and new with Pup joint.

## Transport and storage

- Pup joint during transport, non-collision, to avoid the rain.
- Pup joint should be stored in ventilated, dry place, not the sun and rain. Forbidden contact with acid, alkali, salt and other corrosive substances.

## Service

- Under normal conditions of storage and use, starting six months from the date of shipment or product within three months, due to manufacturing quality and affect the normal use, the company responsible for free replacement or warranty.
- You can order Pup joint depending on the size of diameter and length. If you have special requirements, we can design and manufacture.

