



**BUHLMANN**

[www.buhlmann-group.com](http://www.buhlmann-group.com)



# HF PIPING

Piping and components for HF alkylation service

A complete package of services and innovative concepts from a single source

# CRITICAL ONE-STOP SOLUTIONS

The Buhlmann Group offers full service to the oil refinery market and delivers a complete range of carbon steel and low-temp materials from stock:

- Pipes
- Fittings
- Flanges
- Bars
- Welding consumables
- Valves

These products are suitable for use with hydrofluoric acid (HF) as a catalyst in converting isobutane and low-molecular weight alkenes into alkylates (a high quality gasoline component).

As the chemical composition of these carbon steel piping components is specifically designed for use in such applications, a number of key refineries worldwide are already using this special service provided by BUHLMANN to their complete satisfaction.

NACE has created a bespoke and unique specification for these materials in the form of NACE paper No. 03651. ASTM has also adopted this grade quality as HF. Quality requirements can be found in the supplementary requirements of a number of standards including:

- ASTM S/A106 Gr. B S9 for HF-N carbon steel pipes
- ASTM S/A333 Gr. 6 S2 for low-temp HF-N carbon steel pipes
- ASTM S/A234 WPB & S/A960 S78 for HF-N carbon steel piping fittings
- ASTM S/A420 WPL6 & S/A960 S78 for HF-N carbon steel piping fittings
- ASTM S/A105 & S/A961 S62 for HF-N carbon steel flanges, forged fittings and other forgings
- ASTM S/A350 LF2 & S/A961 S62 for HF-N carbon steel flanges, forged fittings and other forgings

Alongside these stocked piping components, BUHLMANN offers a complete range of special forgings, machined in and certified by our dedicated in-house facilities Unicorn and NRG Special Products. Examples of such products include reinforced branch outlet fittings such as various types of outlets, machined from stocked HF bar material.



## INTERESTED?

For additional contact information and more about our company

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