



Best High Pressure & Drilling Technology

HIGH PRESSURE EQUIPMENT FOR FERTILIZER PLANTS





BHDT - YOUR PARTNER FOR HIGHEST QUALITY AND RELIABILITY.

Decades of experience have made BHDT well known all over the world as a manufacturer of high pressure valves (angle, globe, check, safety, analyzer, sample and control valves), all kind of fittings (tees, elbows, reducers, nipples, threaded flanges, weld neck flanges, weldolets, etc.) and prefabricated HP isometrics (spools) especially for Urea and Ammonia plants.

Special know-how in the field of material science (Austenitic steel 316LUG and 25Cr-22Ni-2Mo, Duplex and Superduplex) for manufacturing of Fertilizer products in cooperation with all major licensors such as Stamicarbon, Toyo, Kellogg, Urea Casale and Snamprogetti.

Valves and fittings are made exclusively of forged material. The exact knowledge of process technologies guarantees optimum function and long service life of our products.

All connections can be produced to conform to all international standards including ANSI B 16.5, 1500#-2500#, DIN, IG, as well as

customer standards such as Snamprogetti 5002.84, Urea Casale and KBR.

We also offer all kinds of actuators (gear, electric, hydraulic or pneumatic).

PRODUKT RANGE:

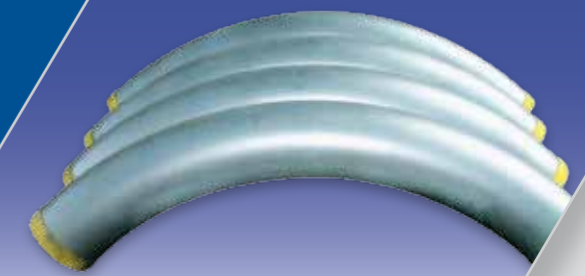
- Angle and Globe Valves
- Safety Relief Valves
- Check Valves
- Control Valves
- Sample Valves
- Prefabricated Isometrics
- Carbamate Mixer
- Fittings (elbows, reducers, tees
- lens gaskets, weld neck flanges
- threaded flanges, weldolets, etc.)



HIGH PRESSURE EQUIPMENT FOR FERTILIZER PLANTS: UREA, AMMONIA AND OTHER FLUIDS 20 MPa - 70 MPa

1.

FITTINGS AND PIPE BENDS (UPTO NS 16")



2.

ANGLE, GLOBE AND CHECK VALVES (UPTO NS 10")



3.

CONTROL VALVES (UPTO NS 16")



4.

MATERIALS



1. FITTINGS AND PIPE BENDS (UP TO NS 16")

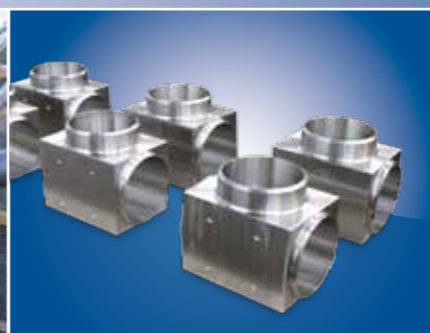
WELDING
of NS 14" Safurex pipe spool



WELDING NIPPLE
reducer up to NS 14"
25Cr-22Ni-2Mo
(Böhler A405)



PREFABRICATED ISOMETRICS
up to NS 10"
25Cr-22Ni-2Mo
(Böhler A405)



T-PIECE
NS 12"
SA182 F316LUG
(Böhler A220)

2. ANGLE, GLOBE AND CHECK VALVES (UP TO NS 10")



CHECK VALVE
with hollow cone, NS 6"
PN 25 MPa
25Cr-22Ni-2Mo
(Böhler A405)



ANGLE VALVE
gear operated, NS 6", weld neck flange, PN 2500 lbs
SA182 F316LUG
(Böhler A220)



ANGLE VALVE
stub ends, steam jacket
NS 5", PN 18.5 MPa
SA182 F316LUG
(Böhler A220)



VALVE BODY FOR MONOBLOCK VALVE
NS 1", PN 25 MPa
Safurex



ANGLE VALVE
NS 8", PN 37,8 MPa
SA350 LF2
(Böhler V313)



VALVE BODY FOR ANGLE VALVE
NS 1", PN 25 MPa
Safurex

3.

CONTROL VALVES (UPTO NS 16")

CONTROL VALVE: ANGLE, GLOBE, BUTTERFLY

- Characteristic: linear, equal %, on/off, modified
- Actuation: pneumatic: diaphragm, piston. Hydraulic and electric.
- Accessories: all types of positioner, position transmitter, solenoid valve, limit switch, air filter station, handwheel, booster, air lock relay, etc.
- Application: carbamate solution, urea let down, CO₂ vent, ammonia, etc.

MATERIAL

- Body: SA182 F316LUG (Böhler A220), 25Cr-22Ni-2Mo (Böhler A405) & LTCS A350 LF2 (Böhler V913), Titanium Gr. III & V & others to suit customer specs.
- Trim: HVD1, Ferralium 255, Super duplex (Böhler grade A905, A926), Titanium, Zirconium.

ENDS

- Flanged (threaded, weld neck), DMF & as per customer specs.

TESTS

- Hydrostatic test
- Leak test
- Functional test
- Performance test
- Check of Cv valve



CONTROL VALVE

NS 14", PN 250 bar, Linear characteristic
Cv value = 920, Pneumatic actuator with
Intelligent positioner SRD, Position transmitter
Mat. 25Cr-22Ni-2Mo (Böhler A405)

VALVE TEST FACILITY:

BHDT has its own control valve testing facility.

NP0.6 MPa to 250 MPa, NS up to 300 mm

- Flow coefficient KV (Cv), characteristics
- Media pressure drop factor FI
- Leak test Pressure upstream of the valve
- Pressure downstream of the valve
- Pressure drop
- Stroke position



IMAGE OF TESTING HALL
for control valve



TESTING OF CV VALVE
for control valve



CONTROL VALVES

NS 4", PN 25 MPa
SA182 F316LUG
(Böhler A220)

4. MATERIALS



CONTROL VALVE

up to NS 10", PN 32.5 MPa
Safurex



CONTROL VALVE

NS 16", PN 25 MPa
SA182 F316LUG
(Böhler A220)



GLOBE CONTROL VALVE

NS 4", PN 25 MPa
SA182 F316LUG
(Böhler A220)

BHDT STANDARD AUSTENITIC MATERIAL:

- 1.4435 - SA182 F316LUG (Böhler A220)
- 1.4466 - 25Cr-22Ni-2Mo - UNS S 31050 (Böhler A405)

BHDT STANDARD AUSTENITIC-FERRITIC MATERIAL (DUPLEX):

- 1.4467 - X2CrMnNiMoN26 5 4 (Böhler A905)
- 1.4462 - SA182 F51 / STAC BE.01 (Böhler A903)

BHDT STANDARD CARBON STEEL MATERIAL:

- 1.1133 - SA350 LF2 (Böhler V913)

All other materials also available acc. to customer specifications like: Safurex, Titanium, Zirconium, HVD1, Ferralium Alloy 255, etc.



BAR STOCK

up to dia 530 mm

ADDITIONAL PRODUCTS:



HIGH PRESSURE SYSTEMS

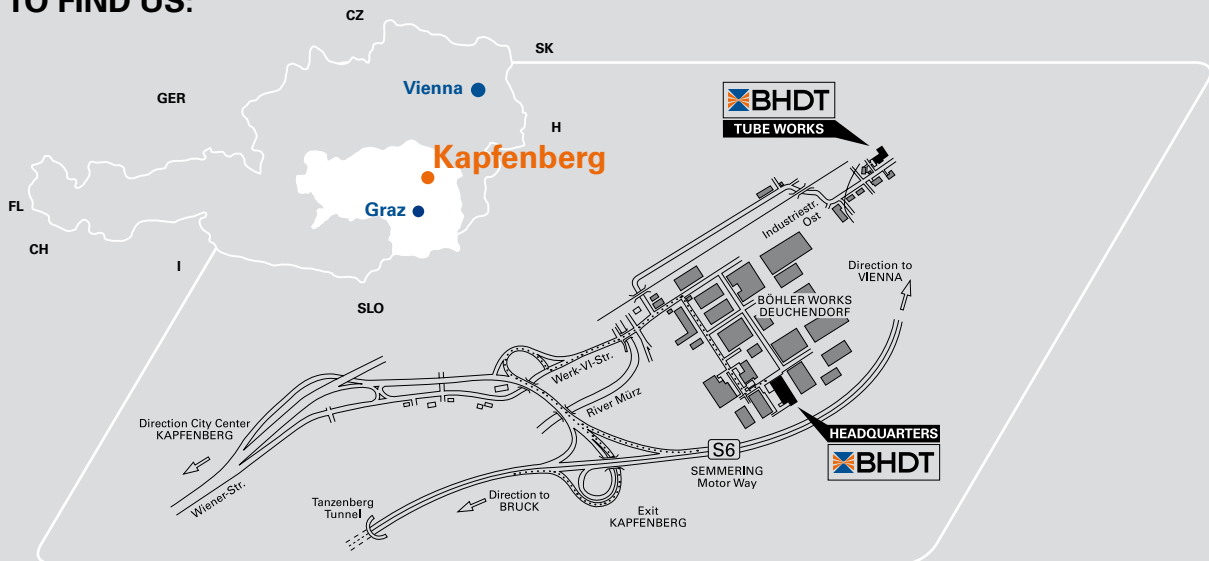
- Tubular reactors, interstage cooler
- Angle valves
- Control valves
- Safety relief valves
- Check valves
- Vessels
- Fittings
- Injection pumps, pressure test stations
- Bolt tensioning devices
- Isometrics, distribution blocks
- High pressure tubes



HIGH PRESSURE PUMPS

- Waterjet cutting applications
- Peroxide Dosing for LDPE plants
- Pressure test units and systems
- Autofrettage purposes

HOW TO FIND US:



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