

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 Saipem.

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 Saipem 5002, Urea Casale and KBR.

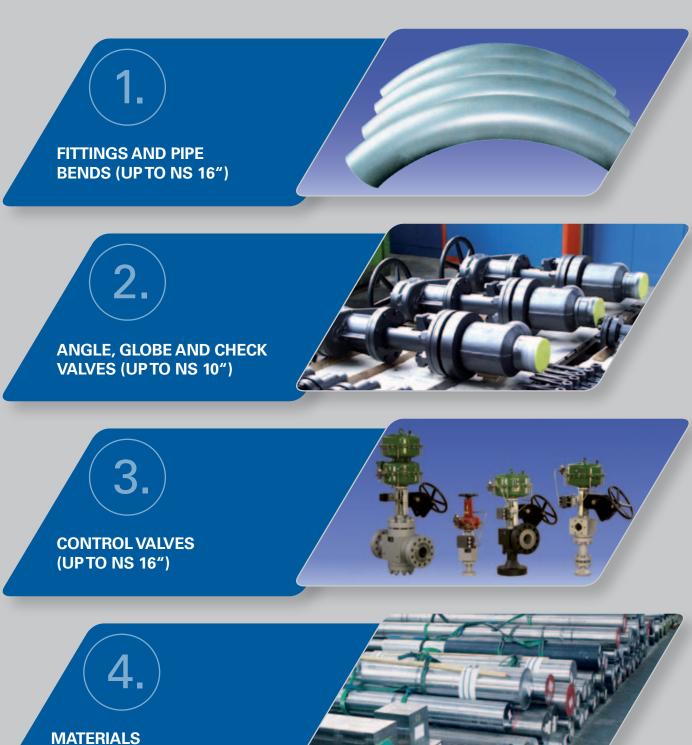
We also offer all kinds of actuators (gear, electric, hydraulic or pneumatic).

PRODUCT 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")



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

PIPE BENDS up to NS 16" Safurex

ELBOWS NS 3" SA403 WP316LUG (Böhler A220)



2.

ANGLE, GLOBE AND CHECK VALVES (UPTO 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 2", PN 25 MPa 2.4602 (Böhler L328)



ANGLE VALVES PN 32,5 MPa SA182 F316LUG

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)
 <CS A350 LF2 (Böhler V913), Titanium Gr. III & V & Safurex
- Trim: HVD1, Ferralium 255, Super duplex (Böhler grade A905, A926), Titanium, Zirconium, Safurex.

ENDS

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

TESTS

- Hydrostatic test
- Leac 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)



CONTROL VALVE up to NS 10", PN 32.5 MPa Safurex



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



BHDT

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



VALVETEST 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 OFTESTING HALL

for control valve

FURTHER APPLICATIONS LDPE PN500 EQUIPMENT



(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 / UNS S 31803 (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.



STOCK AVAILABILITY Round bar material up to dia 530mm Square bar material up to 610mm

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

- Pumps for waterjet cutting applications
- Peroxide dosing pumps for LDPE plants
- Mobile and stationary pressure test pumps and valve test stations
- Ultra high pressure pumps and equipment for autofrettage



OIL AND ENERGY

- Special Flanges
- Prefabricated piping isometrics
- Valves



- Engineering Services
- Installation Services
- Corrosion Inspection Services
- Troubleshooting Services
- Emergency Repair Services
- Spare Parts Management
- Training Services

CERTIFICATES



AD 2000-Merkblatt HP 0 / HP 100 R and EN ISO 3834-2

SZA Österreich according to PED 97/23/EC



EN ISO 9001:2008



PED 97/23/EC



GOST TR for valves



Korea Gas Safety (KGS)



ASME-Stampholder



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