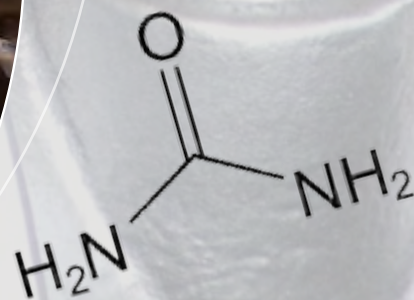
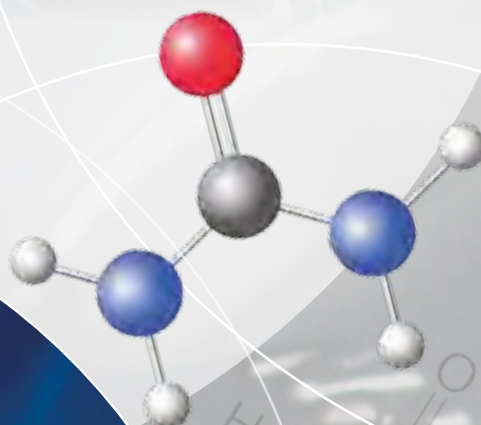




厦门固特阀门制造有限公司

# Valves for UREA





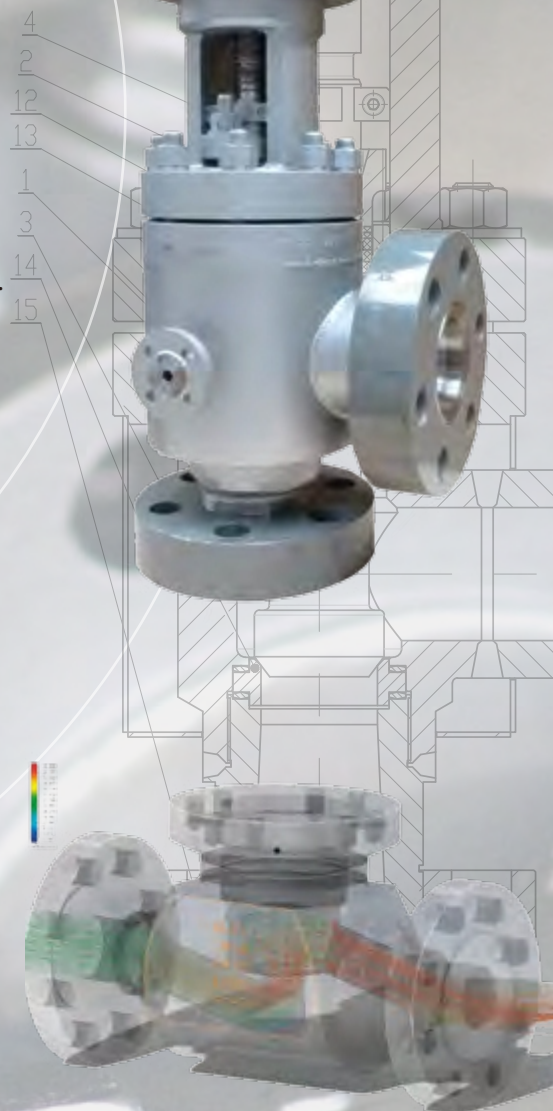
# XIAMEN GUTE VALVE COMPANY

## Construction

Designed for harsh synthesis environments, urea (carbamide) under conditions of high temperatures, high pressures, large pressure drops and, most importantly, for use in highly corrosive conditions, where working environments require special solutions for individual parts of the structure.

Moreover, each section of urea synthesis has its own features, where over the years of operation, the experience applied in specific and special solutions design of the fittings. The fittings body has a "flow" profile that eliminates the so-called "dead" points where urea exhibits its powerful corrosive properties. The body can be made in one-piece forging, welded or bolted design, according to customer requirements.

Spool and the rod are made from one piece material, since this solution is the most reliable. The valve and stem are subjected to special hardening and grinding. The guidient cage are made integrated (part of the body), in the form of a lens couplings in the body, as well as with reinforcement on thread or welding (old methods). Great attention is devoted to solving the design of the stuffing box assembly, where V-shape quality packings are applied high quality materials made of expanded graphite or pure PTFE. In the case of control valves with increased requirements to reduce noise and/or cavitation, our design department offers solutions taking into account specific requirements based on operation of equipment.



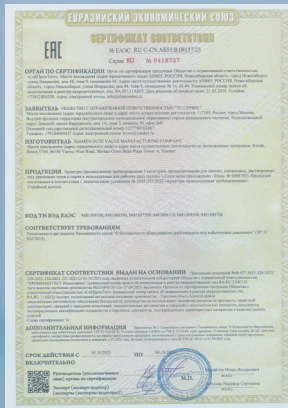
## Production Program

Nominal diameter	DN 15 - 200 (1/2" - 8")		
Conditional pressure	PN 16-400 (CL.150-2500)		
Body material	1.4435 (A182 F316L UG, 03X17H14M3),	1.4466 (25Cr-22Ni-2Mo, 03X24H6AM3),	1.4410 (Ferralium 255)

Type of reinforcement	Body type	Connections	Trim	Tightness Class	Operation	Options
shut-off valves (straight-through/angle)	Solid forged, welded, BB	Flange, SW, BW	Unbalanced/ Balanced Plug(Disc)	API 598 GOST R 54808- 2011 Class A ANSI/FCI 70-2-VI	Manual, Pneumatic, Electric, Hydraulic Actuator	other materials, heating jacket, soft seat, seal flushing
control valves (straight-through/angle)	Solid forged, welded, BB		Plunger, cage, anthusum/anti- cavitation construction	API 598 GOST R 54808- 2011 Class C ANSI/FCI 70-2-VI	Manual, Pneumatic, Electric, Hydraulic Actuator	other materials, heating jacket, soft seat, seal flushing
check valves (lift type)	welded, BB		Axial flow valve Piston	API 598 GOST R 54808- 2011 Class C ANSI/FCI 70-2-VI	-----	other materials, heating jacket, soft seat, seal flushing



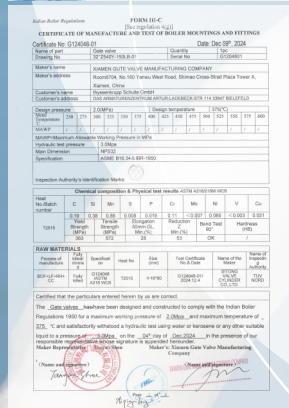
# XIAMEN GUTE VALVE COMPANY



## Quality control

All incoming materials are purchased only from first-class certified manufacturers and undergo initial control with the following tests:

Intergranular corrosion (IGC) testing.  
Ultrasonic Testing  
RT testing of welds (X-ray).  
Testing for ferrite phase content on the surface of finished products.





## PReferences list for the Urea prouction plants

Please contact us for detail reference list



**GUTE  
VALVE**

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