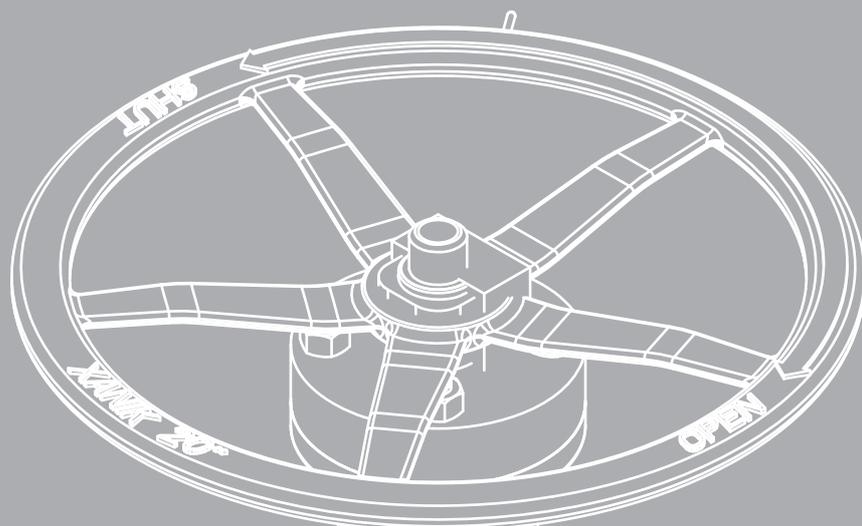




xanik[®]



high
performance
special valves



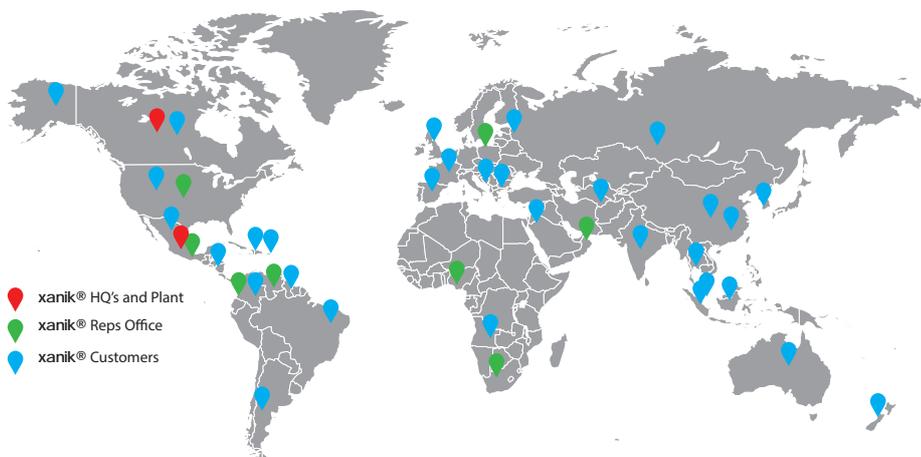


xanik® brand valves are manufactured by Xanor de Mexico, S.A. de C.V., a worldwide leader in manufacturing specialty valves. **xanik®** valves can be found across the globe in services such as: Refining and HF Alkylation, Power Generation, Chemical and Petrochemical, LNG, Mining and Fertilizers.

Delivery matters! **xanik®** production is optimized for fast manufacturing cycles without sacrificing quality. With freight times to the U.S. of less than five days world wide logistic experience and a near perfect track record for on-time shipping, you can depend on **xanik®**

xanik® focuses on the specialty valve market and concentrates around the high-pressure as well as high and low (cryogenic) temperature services. We have extensive experience manufacturing valves in high alloys such as Inconel, Hastelloy, Monel, Incoloy, and Titanium. **xanik®** valves are the best choice for abrasive or corrosive applications found in Refining, Petrochemical, and Mining industries.

xanik® World Map Where xanik® valves are used?



At Glance.

Facilities

xanik® valves are made in a state of the art plant in Mexico City, Mexico.

History

xanik® was founded in 1983 by an entrepreneur and valve experts.

Management

xanik® is a flexible company and its priority is to focus on customer's needs.

Technology

xanik® owns all its engineering and designs. It constantly invests in improving its products.

Industries

xanik® valves are used in Oil & Gas, Refineries, Power, Chemical, Petrochemical, Mining, among others.

Standards

Abides by all major international standards, such as: API, ASME, ASTM, NACE, MSS-SP, ISO.

Noteworthy Accomplishments

xanik® has been manufacturing HF Acid Alkylation valves for more than 20 years as an approved manufacturer by UOP. This approval allows **xanik®** to manufacture gates, globes, and checks on all pipe classes for both Phillips and UOP Alkylation units.



history and commitment to quality and support

1983	1986	1993	1994	1995	2001	2003	2004	2009	2013	2014	2015	2016
xanik® Founded	Developed Bolted Bonnet, Geothermal, Cryogenic, and Alloy valves.	ISO 9001 Certification	Developed and applied for HF Acid License	Developed Pressure Seal valves	Exxon Mobil AML Approval UOP Approval for HF Acid Valves	Developed Forged Bar Valves	Conoco Phillips Approval for HF Acid Valves PED 97/23/EC certification for HF Alkylation Valves	Approval of CE Marking 97/23/EC, QS System Module H- QS Modules E1, E, D1 & D	Approval for OLEFLEX® process Spec OR-17 and API Q1	Approval for Chevron, Fluor, KBR	Approval for Phillips 66 New HF Spec. 5-3-24 and Valero	Approval for CITGO, Canadian Natural and Total Esp. PVA-200 & 211

xanik® is committed to providing a quality valve, professional service, and personalized customer care. As a result of our dedication to quality, we have obtained the following international certifications:

ISO 9001:2008, API Specification Q1, PED 97/23/EC, API 600, API 602 and API 6D.

After an extensive review by our engineering department, the manufacturing process begins with the order entry and procurement of raw materials. Suppliers that continually meet our high standards for materials and provide on-time deliveries are the ones considered.

Materials are controlled throughout the entire process. Our highly trained team of Quality Assurance personnel carries out inspections throughout every step of production insuring a high quality valve.

A wide array of non-destructive testing and evaluation methods are available to ensure that both the raw materials and the finished valves meet or exceed customer requirements. Testing available in our facilities include:

Chemical Analysis EOS & PMI

Magnetic Particle

Radiographic Test

Metallography

Dye Penetrant

Pressure Testing

Hardness Testing

Ultrasonic Testing

Helium Spectrometer for Fugitive Emissions



10" -300# WCB/MONEL HF ACID GATE VALVE

xanik® recognizes the importance of safety, reliability, and performance towards our customers. We aim to meet and surpass all industry standards both domestic and international. xanik® will only utilize materials with full traceability from mill to market. Ongoing internal audits and constant feedback from customers provide the avenue for continual self-improvement.

why xanik?

Redefining industry expectations with quality, integrity, responsiveness and on time delivery.

With a near-perfect on-time delivery record, and ability to deliver valves quickly, **xanik®** is an excellent choice for your organization. **xanik®** has a “can do” approach to working with you in solving your customer’s needs and will back you every step of the way.



Some Recent Success Stories...

HF ACID

xanik® has been chosen as the exclusive multi-turn valves manufacturer for large alky units turnarounds in different countries.

xanik® has complied with all their customers requirements successfully.

NORTH AMERICAN BUILT

Distributor received MTRs from other manufacturer revealing material from an unacceptable country of origin. **xanik®** manufactured replacements on time to meet the end user’s needs.

ALLOYS & EXOTIC METALS

Major end user needed a trusted manufacturer of Nickel Alloy valves that could meet all material quality levels and NDE testing requirements in a short window **xanik®** delivered.

SPECIAL DESIGNS & ENGINEERED VALVES

Refinery had 6” line they did not want to modify but needed to replace with a 3” valve flow properties. **xanik®** custom-made a 3” valve with the same end to end dimensions and flange connections as their existing 6” valve.

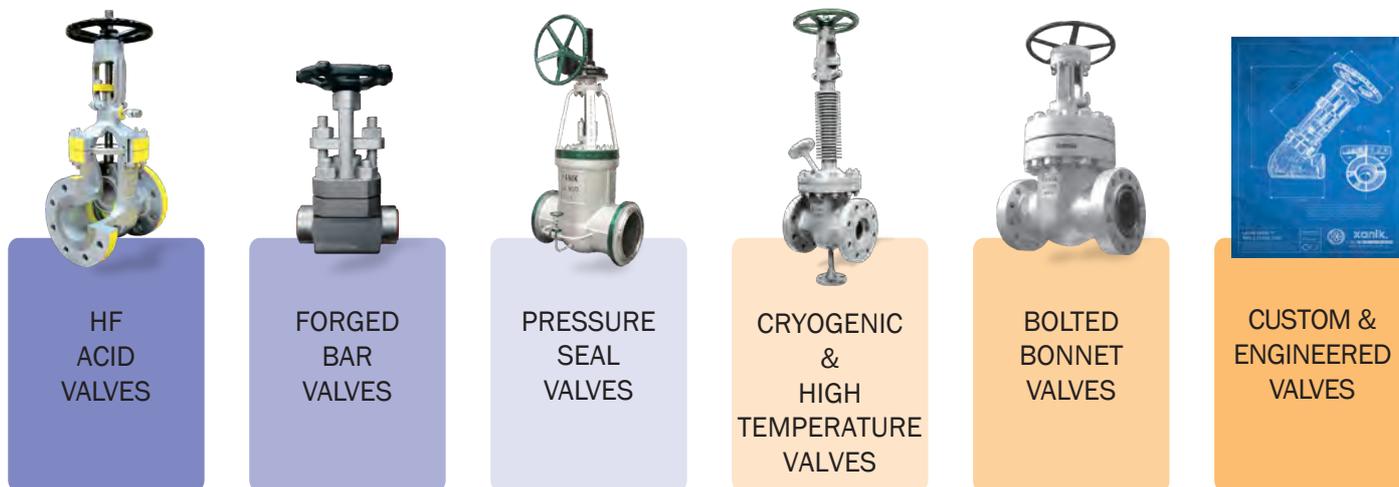
FAST DELIVERY

Refinery in turnaround could not repair a 20” HF Acid valve, as intended. **xanik®** produced and delivered a replacement in 10 days.



range of valves

xanik®'s production capabilities range across six main categories of valves: HF valves, forged bar, Pressure Seal, Special alloys and Bolted Bonnet in high/low temp service. From the smallest bleeder valve to the largest nickel alloy valve, we are your source for hard-to-find valves.



MATERIAL OPTIONS

CARBON STEELS	<p>Cast A216 grade WCB, WCC A352 grade LCC, LC1, LC2, LC3, LCB</p> <p>Forged A105 A350 grade LF1, LF2, LF3</p>
CHROMES	<p>Cast A217 grade WC1, WC4, WC5, WC6, WC9, C5, C12, C12A</p> <p>Forged A182 grade F1, F2, F11 CL.2, F22 CL.3, F21, F5A, F9, F91</p>
STAINLESS STEELS	<p>Cast A351 grade CF8, CF10, CF8M, CF10M, CG8M, CF3, CF3M, CG3M, CF8C, CH8, CH20, CK3MCuN</p> <p>A995 grade 4A (CD3MN), 5A (CE3MN), 6A (C3MWCuN)</p> <p>Forged A182 grade F304/F304H, F316/F316H, F317, F304L, F316L, F317L, F321/F321H, F347/F347H, F348/F348H, F309H, F310H, F44, F51, F53, F55</p>
ALLOYS	<p>Alloy JS-700 B672 N08700 Alloy 904L B649 N08904 Alloy G3 B581 N06985 Alloy 31 B563 N08031 Alloy 330 B511 N08330 Alloy 20 A351 CN7M, A990 CN3MCU, B462 N08020 Alloy AL-6XN B564 N08367</p> <p>Alloy A743 CN3MN Aluminum Bronze B148 C95800 and B150 C63000 Titanium B367/B381 2, 7 Zirconium B752 702C, 704C, 705C, and B493 R60702, R60705</p>
NICKEL ALLOYS	<p>Old Hastelloy B Hastelloy G Inconel 600 Hastelloy 20mod Hastelloy N Inconel 625 Hastelloy B-2 Hastelloy X Monel 400 Hastelloy C-22 Incoloy 800 Monel 500 Hastelloy C-276 Incoloy 800H Nickel Hastelloy C-4 Incoloy 825 Nickel Low C</p>

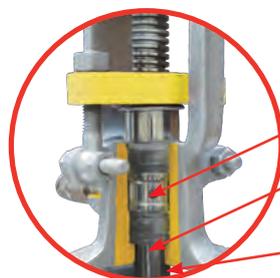
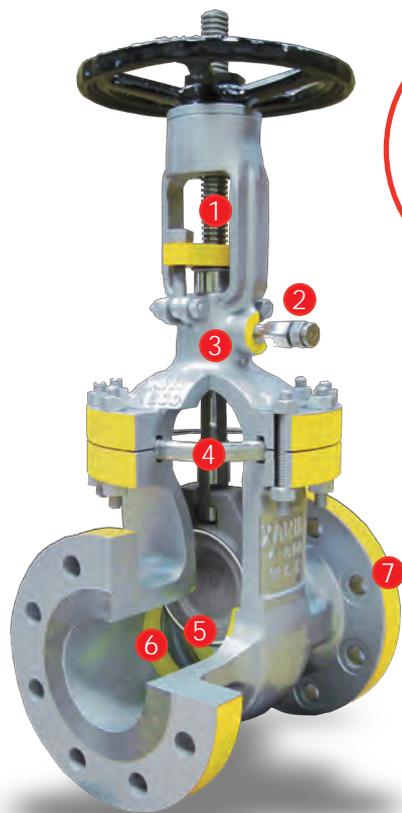
<p>GATE VALVES Flexible or Solid Wedge Parallel Slide Disc</p> <p>GLOBE VALVES "T" and "Y" Patterns Guided or Swivel Plug Disc</p>	<p>CHECK VALVES Lift (Ball or Piston) Swing Check Stop Check Tilting Disc</p>
<p>SIZES AVAILABLE ½" to 60" NPS: 15mm to 1500mm</p>	<p>PRESSURE CLASSES 150# to 4500# Special Classes</p>



hydroflouric (HF) acid alkylation valves approved by uop and phillips licenses



Through constant feedback and collaboration from the HF Alkylation unit managers and engineers xanik® has developed a state of the art HF valve, with a longer service life and lower maintenance costs.



Certified with UOP/COP, ExxonMobil GEMS, and Phillips 66 specifications

Lantern Ring Bushing.

99.5% Density graphite packing.

Provides low fugitive emissions (compliance with ISO 15848, API 622, and TA Lift).

Monel sleeve with top/bottom seal welding.

Providing zero leakage protection against in-service corrosion.

1. Monel K500 stem.
Greater strength and corrosive resistance than Monel 400.
2. Monel grease injector.
Optional Monel double-ball check grease injector for added protection.
3. Integral bushing guide.
4. Soft carbon steel Ring Type Join gasket.
Optional spiral wound Monel/graphite or Monel/Teflon gaskets.
5. High performance PTFE Teflon Primary Seal for positive shut off
Monel solid wedge for sustained secondary metal-to-metal seal
6. Full double-seal welded seat rings.
Providing leakage protection against in-service corrosion.
7. Acid detecting paint.
Provides visual indication of valve integrity.

LINE	TYPE	SIZE (in)	CLASS	MATERIALS	APPLICATION
HF SERVICE	GATE	½-36	150, 300, 600, 800	WCB (*), LCB(*), LCC(*) & A105(*)	UOP ConocoPhillips P66 ExxonMobil Chevron TOTAL
	GLOBE SWING CHECK LIFT CHECK				

*Materials with supplementary requirements for LRE¹ (S16 and S62) for HF Acid Service.

¹ LRE (Low Residual Elements).

NDE

(non destructive examination)



100% Radiographic Test on all casting.



Weldability Qualification for Monel Cast.



Magnetic Test on Carbon Steel.



Visual Examination MSS SP 55.



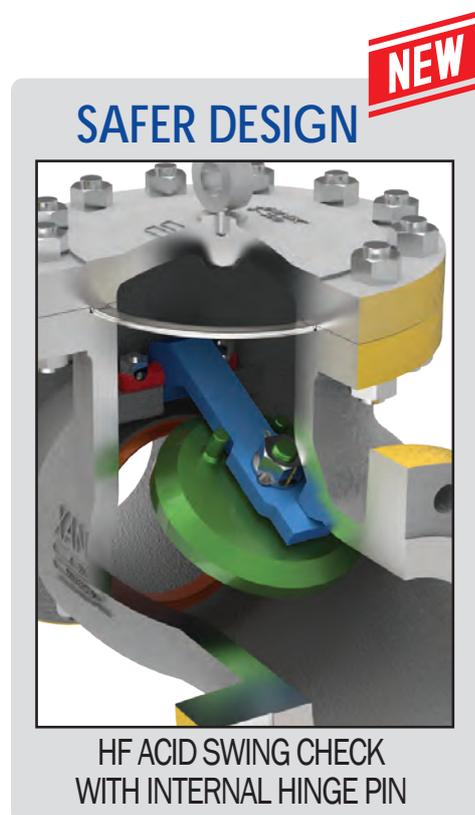
100% Dye Penetrant in Monel.



7 Hydro/Pneumatic tests with Helium, Paraffinic Oil and Low Pressure Air.



PMI on all Monel.



xanor de méxico, s.a. de c.v.

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www.xanik.com



pressure seal valves gate/globe/check valves for high pressure

xanik® manufacture a wide variety of valves for Power and Cogeneration, Chemical, Petrochemical, and other high pressure industrial services.

xanik® delivery time is far below from industry average.

Pressure Seal valves are an excellent choice for high pressure service (typically steam) in excess of 170 bar.

Conventional valves rely on compressed gaskets to provide a tight seal between the body and bonnet. At higher pressures, the gaskets have a higher tendency to fail and create leaks.

The Pressure Seal design differs greatly from conventional valves by providing a tighter seal between the body and bonnet as the pressure increases. This is why Pressure Seal valves are the preferred choice for use in closed (welded) systems where reliability under high pressure is essential.

VALVE BODY AND BONNET MATERIALS

Carbon Steels, WC6, WC9, C12A, Stainless Steels, and Nickel Alloys.

ENDS

Flanged RF or RTJ (ASME B16.5 and ASME B16.47) butt weld (BW ASME B16.25).

OPTIONS

Bypass, leak-off connections, dampers, counterweights.



24"-900#WCB PARALLEL SLIDE GATE VALVE WITH EQUALIZING BY PASS



10"-1500#WCB TILTING DISC CHECK VALVE



6"-4500# C12A Y-PATTERN GLOBE VALVE

LINE	TYPE	SIZE (in)	CLASS	MATERIALS	APPLICATION
PRESSURE SEAL	GATE GLOBE TILTING DISK CHECK SWING CHECK LIFT CHECK STOP CHECK	2-30	600-4500	WCB, WC6, WC9, C12A, CF8M, F8C NI-ALLOY S DUPLEX SS	POWER PLANTS • CHEMICAL PROCESSING • OIL SAND

bolted bonnet API 600

xanik® manufactures a complete line of high pressure gate, globe and swing check valves.

High pressure bolted bonnet valves are used in Chemical plants, Refineries and Power plans.

Upon request the flanges can be supplied in RF or RTJ (ASME B16.5), butt weld (BW ASME B16.5) or butt weld (BW ASME B16.25) ends.

VALVE BODY AND BONNET MATERIALS

Carbon Steel, Low Temperature Alloys: LCB and LC3, High Temperature Alloys: WCB, WC6, WC9, C5, C12, C12A, 300 SS, Duplex SS, Super Duplex SS, Ni Alloys and Aluminum Bronze.

TRIM MATERIALS

Wide choices of: 13% Cr, Hard facing, Stellite, Stainless Steel, Monel, Aluminium Bronze, Alloy 20, Hastelloy and Tribaloy.

OPTIONS

Grease fittings and lantern rings in stuffing boxes, resilient seats, bypass, leak-off connections, dampers and counter weights.

APPLICATIONS

Sea water, Oxygen service, Hydrogen service, UOP Oleflex, Chlorinated, Hot air (OR-17), Geothermal, Cryogenic, Refineries, High temperature, High pressure among many others.

TYPE	SIZE (in)	CLASS
GATE	1 ½-54	150
	1 ½-36	300
	1 ½-36	600
	3-24	900
	1 ½-20	1500
	2-18	2500

TYPE	SIZE (in)	CLASS
GLOBE AND STOP CHECK	1 ½-20	150
	1 ½-20	300
	1 ½-18	600
	3-18	900
	2-18	1500
	2-12	2500

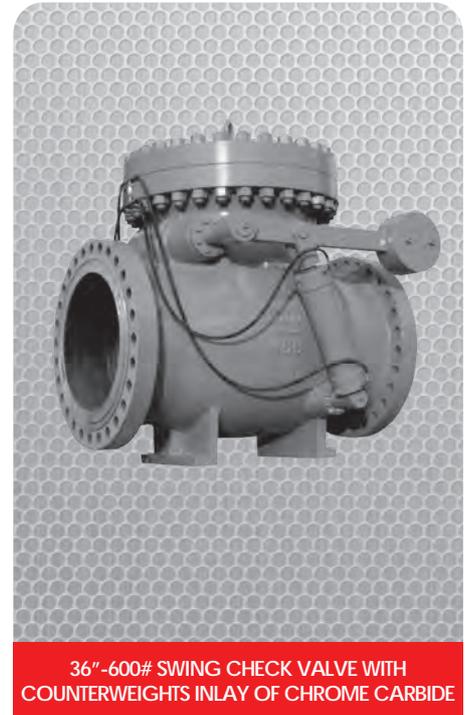
TYPE	SIZE (in)	CLASS
SWING CHECK	1 ½-36	150
	1 ½-36	300
	1 ½-24	600
	3-24	900
	2-20	1500
	2-18	2500



54"-150# WCB GATE VALVE



8"-300# CF8M 31655 CRYOGENIC GATE VALVE



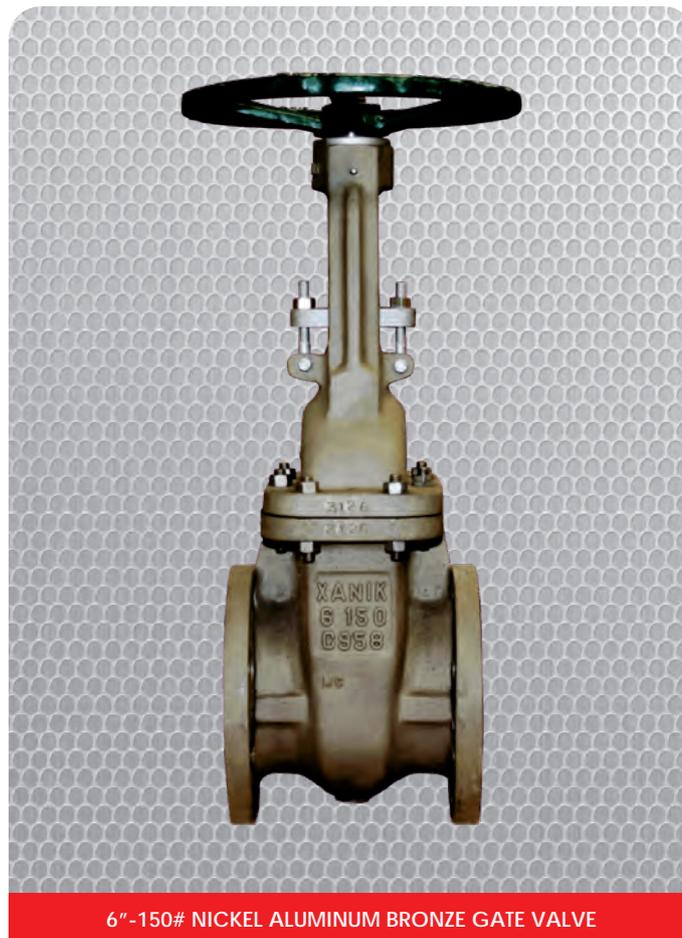
36"-600# SWING CHECK VALVE WITH COUNTERWEIGHTS INLAY OF CHROME CARBIDE



special alloy valves



4"-300# CF10 GATE VALVE EXTENDED BONNET WITH HEAT DISSIPATION COOLING FINS



6"-150# NICKEL ALUMINUM BRONZE GATE VALVE



8"-600# Inconel 625 VALVE

We specialize in materials such as CF3, CF3M, CF8M, CG3M, DUPLEX & SUPERDUPLEX SS, CARPENTER 20, SS-904L, INCOLLOY, INCONEL, MONEL, HASTELLOY and reactive alloys like TITANIUM and ZIRCONIUM.

LINE	TYPE	SIZE (in)	CLASS	MATERIALS	APPLICATION
SPECIAL ALLOYS BOLTED BONNET OR WELDED BONNET	GATE GLOBE SWING CHECK LIFT CHECK	½-54	150	316, 321, 347, CA15, CN7M (ALLOY 20), CK3MCuN, CN3MN, CD4MCU, CD3MWCuN, CA6NM, CZ100, DUPLEX SS 1B (CD4MCuN), 2A (CE8MN), 3A (CD3MN), 4A (CD3MN), 5A (CE3MN), 6A (CD3MWCuN), C12A, CN3N, INCONEL 600 (CY40), INCOLLOY 625 (CW6MC), INCOLLOY 825 (CU5MCuC), HASTELLOY B, HASTELLOY B2, HASTELLOY C, HASTELLOY C4, HASTELLOY X MONEL M30-C & M35-1, TITANIUM, ZIRCONIUM	CHEMICAL PETROCHEMICAL SEA WATER CHLORINE MINING
		½-36	300		
		½-30	900		
		½-24	1500		
		½-24	2500		
		½-12	4500		

forged bar special alloy valves



1"-800# F60 GATE VALVE



3/4"-1500# F60 GLOBE VALVE



3/4"-1500# LIFT CHECK IN 304L



1"-2500# F91 "Y"-PATTERN GLOBE VALVE WITH ELECTRIC ACTUATOR

Bar stock valves are produced for fast delivery and can be supplied in rough materials like F91, Inconel, Hastelloy or any proprietary alloy. The sizes can range from 1/2" to 4", in any class.

Applications

- Special services in Refineries, Chemical Plants and Power Industries.
- Short time deliveries.

LINE	TYPE	SIZE (in)	CLASS	MATERIALS	APPLICATION
BAR STOCK	GATE GLOBE CHECK	1/2-4	150-4500	CHROME STEEL STAINLESS STEEL DUPLEX STEEL NI-ALLOYS TITANIUM	SHORT DELIVERY TIMES (2-6 WEEKS) AS A REPLACEMENT OF FORGE & CAST VALVES



API certificates



API 600 Certificate
certificate # 600-0091



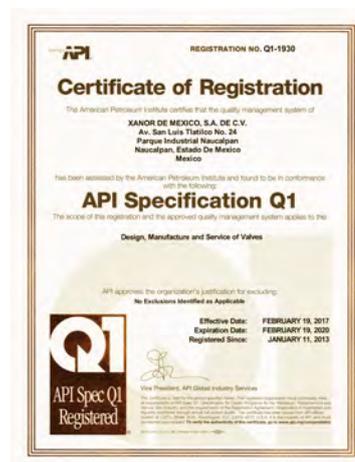
API 602 Certificate
certificate # 602-0018



API 6D Certificate
certificate # 6D-0087



ISO 9001:2008
certificate # 0179



API SPECIFICATION Q1
certificate # Q1-1930



Canadian Registration Number
CRN # 0C5464.5R1



European Directive 97/23/EC
"CE" Mark # 0035



Approved for UOP and
ConocoPhillips licensed plants



xanik®



xanik® valves are manufactured exclusively by:

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