



xanik®



alloy valves



# xanik

## Alloy Valves



*Xanik specializes in manufacturing Special Alloy Valves to customer specifications.*

*We have a flexible system that allows us to manufacture these valves in small and large quantities, with very short lead times.*

*The valves are manufactured in special materials consisting of austenitic and superaustenitic stainless steels, duplex and superduplex stainless steels, nickel alloys, and other special alloys.*

*The oil refineries, petrochemical and chemical plants require High Alloy Valves for:*

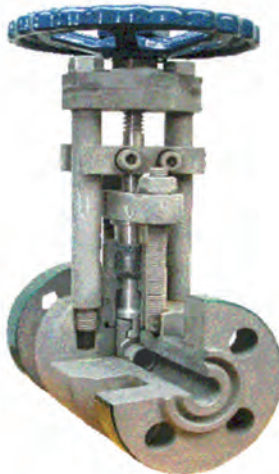
- Corrosive Products
- Abrasive liquids
- High pressure
- High and low temperatures

*Product line:*

- Bolted Bonnet
- Pressure Seal
- Welded Bonnet

*Valves type:*

- Gate
- Globe
- Swing Check
- Lift Check
- Stop Check
- Tilting Disc Check



*Material Range:*

*Austenitic and Superaustenitic, Duplex, Superduplex, 6 Mo, Monel, Inconel, Incoloy, Hastelloy, Titanium, Zirconium*

*Size range:*

<i>Class 150 1/2" to 54"</i>	<i>Class 900 1/2" to 24"</i>
<i>Class 300 1/2" to 36"</i>	<i>Class 1500 1/2" to 24"</i>
<i>Class 600 1/2" to 30"</i>	<i>Class 2500 1/2" to 24"</i>
<i>Class 800 1/2" to 2"</i>	<i>Class 4500 1/2 to 6"</i>

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## BODY MATERIAL

Material	Product form								
	Forgings			Castings			Bars		
Comercial Name	MATERIAL No.	Spec. No.	Grade	MATERIAL No.	Spec. No.	Grade	MATERIAL No.	Spec. No.	Grade
304 Standard	<b>304</b>	A182	F304	<b>CF8</b>	A351	CF8	<b>304</b>	A479	304
304 High Temp. Service	<b>04H</b>	A182	F304H	<b>F10</b>	A351	CF10	<b>04H</b>	A479	304H
304L (low carbon S. S.)	<b>04L</b>	A182	F304L	<b>CF3</b>	A351	CF3	<b>04L</b>	A479	304L
316 Standard	<b>316</b>	A182	F316	<b>F8M</b>	A351	CF8M	<b>316</b>	A479	316
316 High Temp. Service	<b>16H</b>	A182	F316H	<b>10M</b>	A351	CF10M	<b>16H</b>	A479	316H
316L (low carbon S. S.)	<b>16L</b>	A182	F316L	<b>F3M</b>	A351	CF3M	<b>16L</b>	A479	316L
317 Standard	<b>317</b>	A182	F317	<b>G8M</b>	A351	CG8M	<b>317</b>	A182	F317
317L (low carbon S. S.)	<b>17L</b>	A182	F317L	<b>G3M</b>	A351	CG3M	<b>17L</b>	A182	F317L
321 Standard	<b>321</b>	A182	F321				<b>321</b>	A479	321
321 High Temp. Service	<b>21H</b>	A182	F321H				<b>21H</b>	A479	321H
347 Standard	<b>347</b>	A182	F347	<b>F8C</b>	A351	CF8C	<b>347</b>	A479	347
347 High Temp. Service	<b>47H</b>	A182	F347H	<b>F8C</b>	A351	CF8C	<b>47H</b>	A479	347H
348 Standard	<b>348</b>	A182	F348				<b>348</b>	A479	348
348 High Temp. Service	<b>48H</b>	A182	F348H				<b>48H</b>	A479	348H
309 (Heat resistant S.S.)	<b>09H</b>	A182	F309H	<b>H20</b>	A351	CH20	<b>09H</b>	A182	F309H
310 (Heat resistant S.S.)	<b>10H</b>	A182	F310H	<b>K20</b>	A351	CK20	<b>10H</b>	A479	310H
Duplex S31803	<b>F51</b>	A182	F51	<b>3MN</b>	A995	4A (CD3MN)	<b>803</b>	A479	S31803
Super Duplex S32750	<b>F53</b>	A182	F53	<b>CUN</b>	A995	6A (CD3MWCuN)	<b>750</b>	A479	S32750
Super- austenitic(S31254)	<b>F44</b>	A182	F44	<b>CK3</b>	A351	CK3MCuN	<b>254</b>	A479	S31254
904L (Avesta 904L)	<b>904</b>	B649	N08904				<b>904</b>	B649	N08904
Austenitic-6% Moly (AL-6XN)	<b>367</b>	B564	N08367	<b>CN3</b>	A744	CN3MN	<b>367</b>	B691	N08367
Alloy 20(Carpenter 20)	<b>020</b>	B462	N08020	<b>C20</b>	A990	CN3MCu	<b>020</b>	B473	N08020
Nickel	<b>200</b>	B160	N02200	<b>CZC</b>	A494	CZ100	<b>200</b>	B160	N02200
Nickel low C	<b>201</b>	B160	N02201				<b>201</b>	B160	N02201
Monel 400	<b>400</b>	B564	N04400	<b>M35</b>	A494	M35-1	<b>400</b>	B164	N04400
Inconel 600	<b>600</b>	B564	N06600	<b>CY4</b>	A494	CY40	<b>600</b>	B166	N06600
Inconel 625	<b>625</b>	B564	N06625	<b>6MC</b>	A494	CW6MC	<b>625</b>	B446	N06625
Incoloy 800	<b>800</b>	B564	N08800	<b>15C</b>	A351	CT15C	<b>800</b>	B408	N08800
Incoloy 800H	<b>810</b>	B564	N08810	<b>15C</b>	A351	CT15C	<b>810</b>	B408	N08810
Incoloy 825	<b>825</b>	B425	N08825	<b>825</b>	A494	CU5MCuC	<b>825</b>	B425	N08825
Hastelloy B-2	<b>HB2</b>	B335	N10665	<b>HB2</b>	A494	N7M	<b>HB2</b>	B335	N10665
Hastelloy C276	<b>276</b>	B574	N10276	<b>W6M</b>	A494	CW6M	<b>276</b>	B574	N10276
Hastelloy C-22	<b>C22</b>	B574	N06022	<b>2MW</b>	A494	CX2MW	<b>C22</b>	B574	N06022
Hastelloy C-4	<b>HC4</b>	B574	N06455	<b>W2M</b>	A494,A990	CW2M	<b>HC4</b>	B574	N06455
Hastelloy N	<b>HCN</b>	B573	N10003				<b>HCN</b>	B573	N10003
Hastelloy X	<b>HGX</b>	B572	N06002				<b>HGX</b>	B572	N06002
Hastelloy 20MOD	<b>H20</b>	B621	N08320				<b>H20</b>	B621	N08320
Hastelloy G	<b>HCG</b>	B581	N06007				<b>HCG</b>	B581	N06007
JS-700	<b>700</b>	B672	N08700				<b>700</b>	B672	N08700
Alloy G3	<b>AG3</b>	B581	N06985				<b>AG3</b>	B581	N06985
Alloy 31	<b>A31</b>	B564	N08031				<b>A31</b>	B649	N08031
Alloy 330	<b>330</b>	B511	N08330				<b>330</b>	B511	N08330
Unalloyed Titanium Grade 2	<b>TF2</b>	B381	Gr 2	<b>TC2</b>	B367	Gr 2	<b>482</b>	B348	Gr 2
Titanium Grade 7	<b>TF7</b>	B381	Gr 7	<b>TC7</b>	B367	Gr 7	<b>487</b>	B348	Gr 7
Unalloyed Zirconium	<b>702</b>	B493	R60702	<b>02C</b>	B752	702C	<b>702</b>	B550	R60702
Zirconium w/ Stanium				<b>04C</b>	B752	704C			
Zirconium w/ Coloumbium	<b>705</b>	B493	R60705	<b>05C</b>	B752	705C	<b>705</b>	B550	R60705

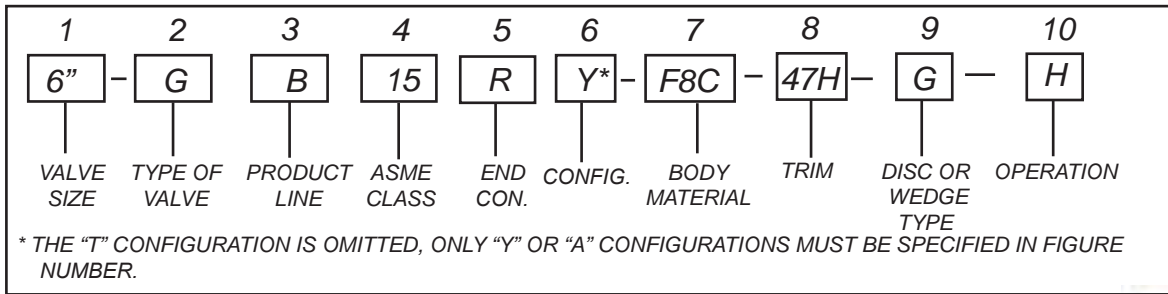


## TRIM MATERIAL

Trim No.	Nominal Trim	Seal Material Type	Body Seat Surfaces	Disc Seat Surfaces	Stem and Other Trim Parts
2	304	18Cr-8Ni	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel
2H	304 Hardfaced	Co Cr - A	Stellite 6	Stellite 6	304 Stainless Steel
3	F310	25Cr - 20Ni	310 Stainless Steel	310 Stainless Steel	310 Stainless Steel
3H	310 Hardfaced	Co Cr - A	Stellite 6	Stellite 6	310 Stainless Steel
9	Monel	Ni-Cu Alloy	Monel	Monel	Monel K500
9H	Monel Hardfaced	Co Cr - A	Stellite 6	Stellite 6	Monel K500
10	316	16Cr-12 Ni- 2Mo	316 Stainless Steel	316 Stainless Steel	316 Stainless Steel
10H	316 Hardfaced	Co Cr - A	Stellite 6	Stellite 6	316 Stainless Steel
13	Alloy 20	19-29 Cr-Ni	Alloy 20	Alloy 20	Alloy 20
13H	Alloy 20 Hardfaced	Co Cr - A	Stellite 6	Stellite 6	Alloy 20
15	304L	Low C. S.S	304L Stainless Steel	304L Stainless Steel	304L Stainless Steel
15H	304L Hardfaced	Co Cr - A	Stellite 6	Stellite 6	304L Stainless Steel
16	316L	Low C 316SS	316L Stainless Steel	316L Stainless Steel	316L Stainless Steel
16H	316L Hardfaced	Low C 316SS	Stellite 6	Stellite 6	316L Stainless Steel
17	317 or 317L	317 or 317LSS	317 or 317L Stainless Steel	317 or 317L Stainless Steel	317 or 317L Stainless Steel
17H	317 or 317LSS Hardfaced	317 or 317LSSCoCr-A	Stellite 6	Stellite 6	317 or 317L Stainless Steel
18	Hastelloy B2	Hastelloy B-2	Hastelloy B-2	Hastelloy B-2	Hastelloy B-2
19	Hastelloy C-276or Hastelloy C-4	Hastelloy C-276, C-4	Hastelloy C-276, C-4	Hastelloy C-276, C-4	Hastelloy C-276, C-4
19H	Hastelloy C-276, C-4 Hardfaced	Co Cr - A	Stellite 6	Stellite 6	Hastelloy C-276, C-4
321	321 SS	18Cr - 10Ni - Ti	321 Stainless Steel	321 Stainless Steel	321 Stainless Steel
21H	321 Hardfaced	Co Cr - A	Stellite 6	Stellite 6	321 Stainless Steel
347	347 SS	18Cr - 10Ni - Cb	347 Stainless Steel	347 Stainless Steel	347 Stainless Steel
47H	347 Hardfaced	Co Cr - A	Stellite 6	Stellite 6	347 Stainless Steel
600	Inconel 600	72Ni-15Cr-8Fe	Inconel 600	Inconel 600	Inconel 600
60H	Inconel 600 Hardfaced	Co Cr - A	Stellite 6	Stellite 6	Inconel 600
625	Inconel 625	60Ni-22Cr-9Mo-3.5Cb	Inconel 625	Inconel 625	Inconel 625
62H	Inconel 625 Hardfaced	Co Cr - A	Stellite 6	Stellite 6	Inconel 625
825	Incoloy 825	42Ni-21.5Cr-3Mo-2.3Cu	Incoloy 825	Incoloy 825	Incoloy 825
82H	Incoloy 825 Hardfaced	Co Cr - A	Stellite 6	Stellite 6	Incoloy 825
22	Titanium	Titanium	Titanium	Titanium	Titanium
23	Duplex S.S.	UNS - S31803	UNS - S31803	UNS - S31803	UNS - S31803
23H	Duplex S.S. Hardfaced	Co Cr - A	Stellite 6	Stellite 6	UNS - S31803
25	Super-Duplex S.S.	UNS-32750	UNS-32750	UNS-32750	UNS-32750
25H	Super-Duplex S.S. Hardfaced	Co Cr - A	Stellite 6	Stellite 6	UNS-32750
24	904L S.S.	44Fe-25Ni-21Cr-Mo	UNS - N08904	UNS - N08904	UNS - N08904
24	904L S.S. Hardfaced	Co Cr - A	Stellite 6	Stellite 6	UNS - N08904
26	Zirconium	Zirconium	Zirconium	Zirconium	Zirconium
ZNN	Other	- to specify by user -			



## FIGURE NUMBER SYSTEM



### 1. - Valve size

{1/2"} {3"} {16"} {30"} {3/4"} {4"} {18"} {36"} {1"} {6"} {20"} {42"} {1 1/4"} {8"} {22"} {48"} {1 1/2"} {10"} {24"} {54"} {2"} {12"} {26"} {60"} {2 1/2"} {14"} {28"} {66"} 
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### 2. - Valve Type

- {G} Gate
- {B} Globe
- {W} Swing Check
- {S} Stop Check
- {L} Lift Check
- {T} Tilting Disc check

### 3. - Product Line

- {B} Bolted Bonnet
- {P} Pressure Seal
- {S} Welded Bonnet

### 4. - ASME Class

{01} 150	{09} 900	{25} 2500
{03} 300	{15} 1500	{27} 2700
{06} 600	{17} 1700	{45} 4500
{08} 800		

### 5. - End Connections

- {R} Raised Face
- {J} Ring Type Joint
- {B} Butt Weld
- {F} Flat Face
- {W} Socket Weld
- {T} Threaded

### 6. - Configuration

- {T} "T" Pattern
- {Y} "Y" Pattern
- {A} Angle Pattern

### 7. - Body material

See page A-2 for material codification

### 8. - Trim Material

See page A-3 for trim codification

### 9. - Disc or wedge type

- {F} Flexible Wedge
- {R} Solid Wedge
- {C} Split Wedge (Double Disc)
- {S} Parallel Slide Discs Spring Loaded
- {G} Guided Plug Disc (Globe)
- {V} Swivel Plug Disc (Globe)
- {T} Tilting Disc
- {P} Piston Disc (Stop or Lift Check)
- {W} Swing Check Disc (Swing Check)
- {B} Ball Check Disc (Check)

### 10. - Operation

- {H} Handwheel
- {I} Impact Handwheel
- {W} Chain Wheel
- {E} Enclosed Bevel Gear
- {B} Bevel Gear with Impact Handwheel
- {U} Bevel Gear with Nut for Air Gun
- {C} Bevel Gear with Chain Wheel
- {M} Electric Motor Actuator
- {P} Pneumatic Cylinder Linear Actuator
- {D} Diaphragm Pneumatic Linear Actuator
- {Y} Hydraulic Cylinder Linear Actuator
- {S} Check with outside Snubber (Damped check)
- {T} Bare Stem (For customer actuator installation)
- {N} Without Operator (Check Valves)

