

# SPECIALTY METALS

TITANIUM - STAINLESS - EXOTIC

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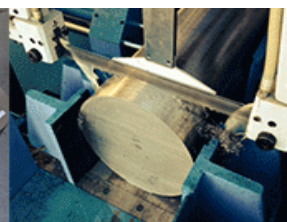
Need Metal? We get it!

Special Alloy Valves



## SPECIAL ALLOY VALVES

- Titanium & Titanium Alloy Valves
- Zirconium & Zirconium Alloy
- Valves Pure Nickel Valves
- Hastelloy Valves
- Inconel Valves
- Monel Valves
- Incoloy Valves
- Monel Valves
- Duplex Valves
- Ni-Al-Bronze Valves





## SPECIFICATION

### Ball Valves

- Type: Floating or trunnion mounted
- Seats: Soft or metal seated
- Body style: One piece body, split body, end entry
- Design: Fire-safe, anti-static, blow-out proof, ISO 5211 Mounting Pad
- Sizes Range: from 3/8" up to 48"
- Pressure ratings: Up to 2500 Lb
- End connections: Flanged, BW, SW, THR, Wafer
- Options: Extended stem, various surface treatment on ball & seats, various seat materials, single or double piston design
- Operator: (Lockable) Lever, gear, bare stem



### Gate Valves

- Type: Flexible or solid wedge
- Bonnet Bolted, welded, pressure sealed bonnet
- Design: Integral seat, replaceable seat
- Sizes: Range from 1/2" up to 60"
- Pressure ratings: Up to 2500 Lb
- End connections: Flanged, BW, SW, THR,
- Options: Extended bonnet
- Operator: Handwheel, gear, bare stem



### Check Valves

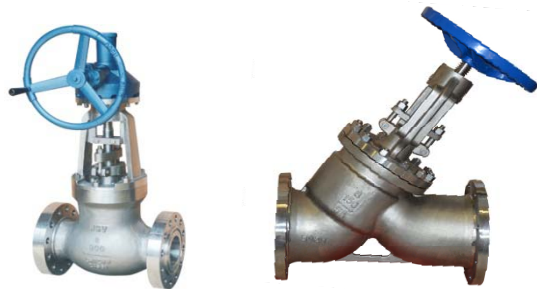
- Type: Piston, Swing
- Body style: Vertical or horizontal
- Sizes Range: from 1/2" up to 32"
- Pressure ratings: Up to 2500 Lb
- End connections: Flanged, BW, SW, THR, Wafer
- Options: Spring loaded



## SPECIFICATION

### Globe Valves

- Type Plug, needle, swivel, regulating disc
- Bonnet Bolted, welded, pressure sealed bonnet
- Body style: Straight, Angle, Y-type
- Design: Integral seat, replaceable seat, full/reduce bore
- Conical sealing surface, flat sealing surface
- Sizes: Range from 1/2" up to 16"
- Pressure ratings: Up to 2500 Lb
- End connections: Flanged, BW, SW, THR,
- Options: Extended stem, SDNR
- Operator: Handwheel, gear, bare stem



### Butterfly Valves

- Type: Concentric, double eccentric, triple eccentric
- Seats: Soft or metal seated
- Unidirectional or bidirectional seated
- Sizes Range: from 2" up to 100"
- Pressure ratings: Up to 300 Lb
- End connections: Flanged, wafer, Lug, BW,
- Operator: Lever, gear, bare stem



### Plug Valves

- Seats: Soft or metal seated
- Body style: Two-way, three-way
- Design: Double Gland, trunnion
- Sizes Range: from 1/2" up to 14"
- Pressure ratings: Up to 600 Lb
- End connections: Flanged, BW, SW, THR
- Operator: Lever, gear, bare stem



## SPECIFICATION

### Dual Plate Check Valves

Type: Dual plate  
Design: Retainerless  
Sizes Range: from 2" up to 60"  
Pressure ratings: Up to 2500 Lb  
End connections: Wafer, Lug, Flanged  
Options: Spring loaded, long pattern



### Single Plate Check Valves

- Type: Single plate
- Sizes Range: from 2" up to 20"
- Pressure ratings: Up to 1500 Lb
- End connections: Wafer, Lug, Flanged
- Options: Long or short Pattern



### Knife Gate Valve

- Type: Bi-directional, Uni-Directional Seal
- Sizes Range: from 2" up to 24"
- Pressure ratings: 150LB, PN10, PN16
- End connections: Wafer, Lug
- Seals Options: PTFE, Viton, BIIR
- Operator: Handwheel, gear, bare stem



Need Metal? We get it!

Available Materials List

Material	ASTM		
	Casting	Forging	Bars
<b>Titanium &amp; Titanium Alloy</b>			
Titanium Gr.2	B367 Gr.C-2	B381 Gr.F-2	B348 Gr.2
Titanium Gr.3	B367 Gr.C-3	B381 Gr.F-3	B348 Gr.3
Titanium Gr.5	B367 Gr.C-5	B381 Gr.F-5	B348 Gr.5
Titanium Gr.6	B367 Gr.C-6	B381 Gr.F-6	B348 Gr.6
Titanium Gr.12	B367 Gr.C-12	B381 Gr.F-12	B348 Gr.12
Titanium Gr.7	B367 Gr.C-7	B381 Gr.F-7	B348 Gr.7
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Nickel 200	A494 CZ100	B160 N02200	B160 N02200
Nickel 201		B160 N02201	B160 N02201
<b>Nickel Base Alloy</b>			
Monel 400	A494 M35-1	B564 N04400	B164 N04400
Monel K500		B865 N05500	B865 N05500
Inconel 600	A494 CY40	B564 N06600	B166 N06600
Inconel 625	A494 CW6MC	B564 N06625	B446 N06625
Incoloy 800	A351 CT15C	B564 N08800	B408 N08800
Incoloy 825	A494 CU5MCuC	B564 N08825	B425 N08825
Hastelloy B	A494 N12MV	B335 N10001	B335 N10001
Hastelloy B-2	A494 N7M	B462 N10665	B335 N10665
Hastelloy C276	A494 CW12MW	B574 N10276	B574 N10276
Hastelloy C-22	A494 CX2MW	B574 N06022	B574 N06022
Hastelloy C-4	A494 CW2M	B574 N06455	B574 N06455
Hastelloy G		B462 N06007	B581 N06007

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**Available Materials List**

Material	ASTM		
	Casting	Forging	Bars
<b>Zirconium &amp; Zirconium</b>			
Zirconium 702	B752 702C	B493 R60702	B550 R60702
Zirconium 705	B752 705C	B493 R60705	B550 R60705
<b>Super Austenitic Stainless Steel</b>			
904L	904L	A182 F904L	B649 N08904
254SMO	A351 CK3MCuN	A182 F44	A276 S31254
AL-6XN	A351 CN3MN	B462 N08367	B688 N08367
ALLOY 20	A351 CN7M	B462 N08020	B473 N08020
<b>Duplex &amp; Super Duplex</b>			
Duplex S31803	A890 4A	A182 F51	A276 S31803
Super Duplex S32750	A890 5A	A182 F53	A276 S32750
Super Duplex S32760	A890 6A	A182 F55	S276 S32760
<b>Al-Bronze</b>			
Ni-Al-Br	B148 C95800		
Ni-Al-Br	B148 C95500		
Ni-Al-Br	B148 C95400		
<b>Austenitic Stainless Steel</b>			
SS304	A351 CF8	A182 F304	A276 304
SS304L	A351 CF3	A182 F304L	A276 304L
SS316	A351 CF8M	A182 F316	A276 316
316L	A351 CF3M	A182 316L	A276 316L
316Ti		A182 F316Ti	A276 316 Ti
SS317	A351 CG8M	A182 F317	A276 317
317L	A351CG3M	A182 F317L	A276 317L
347SS	A351 CF8C	A182 F347	A276 347
SS310	A351 CK20	A182 F310	A276 310