

 **SUPER ALLOY VALVES**

**CASTING BALL VALVES**



V-006



V-255



MD-82



MD-54

**BAR MATERIAL BALL VALVES**



VS-06



HPV-40/41



HPV-43

**API 600 / API 603 Design Gate • Globe • Check Valves**



Gate Valve  
GTF



Globe Valve  
GBF

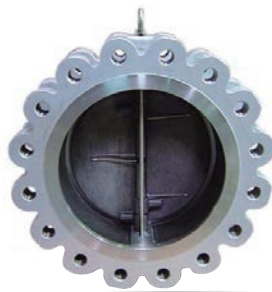


Check Valve  
SF

**OTHERS**



Check Valve  
MV-1220  
Wafer Type



Check Valve  
MV-1221  
Lug Type



Needle Valve  
NV-0060  
NV-0061



## SUPER ALLOY VALVES MATERIAL LIST

Other metal materials other than the above listed can be offered upon request

### Material Conversation Chart

Material code	Nominal	Casting			Bar or forged		
	Designation	ASTM	DIN	UNS	ASTM	DIN	UNS
<b>Austenitic Stainless Steel</b>							
SS304	18Cr-8Ni	A351 CF8	1.4308	J92600	A276 304	1.4301	S30400
SS304L	18Cr-8Ni-LC	A351 CF3	1.4306	J92500	A276 304L	1.4306	S30403
SS316	18Cr-9Ni-2Mo	A351 CF8M	1.4408	J92900	A276 316	1.4401	S31600
SS316L	18Cr-9Ni-2Mo-C<0.03%	A351 CF3M	1.4404	J92800	A276 316L	1.4404	S31603
SS317	18Cr-12Ni-3.5Mo	A351 CG8M		J93000	A276 317	1.4449	S31700
SS317L	18Cr-12Ni-3.5Mo-C<0.03%	A351 CG3M		J92999	A276 317L	1.4438	S31703
SS347	18Cr-10Ni-Nb	A351 CF8C	1.4552	J92710	A276 347	1.4550	S34700
904L	19Cr-23Ni-4.0Mo				AISI 904L	1.4539	N08904
Alloy 20	29Ni-20.5Cr-3.5Cu-2.5Mo	A351 CN7M	1.4536	J95150	B473	2.466	N08020
<b>Super Austenitic Stainless Steel</b>							
254Mo	20Cr-18Ni-6.5Mo-N-Cu	A351 CK3MCuN	1.4547	J93254	A276		S31254
<b>Nickel based Alloy</b>							
Nickel CZ100	97Ni	A494 CZ-100	2.4066	N02100			
Monel 400	67Ni-30Cu	A494 M-35-1	2.4365	N24135	B164	2.4360	N04400
Hastelloy B	67Ni-28Mo-5Fe	A494 N-12MV	2.4882	N30012	B335	2.4819	N10001
Hastelloy B2	67Ni-30Mo-1Fe	A494 N-7M	2.4617		B335	2.4856	N10665
Hastelloy C	58Ni-16Cr-16Mo-6Fe-4W	A494 CW12MW	2.4686	N30002	B574	2.4819	N10002
Hastelloy C276	64Ni-18Cr-18Mo	A494 CW6M	2.4819	N30107	B574	1.7752	N10276
Hastelloy C22	58Ni-21Cr-14Mo-4Fe-3W	A494 CX2MW	9.4602	N26022	B574	2.4602	N06022
Inconel 600	78Ni-15Cr-5Fe	A494 CY-40	2.4816	N06040	B166	2.4817	N06600
Inconel 625	65Ni-22Cr-9Mo-3.5Nb	A494 CW6MC	2.4856	N26625	B446	2.4856	N06625
<b>Duplex Stainless Steel</b>							
1A	25Cr-5Ni-Mo-Cu	A890 CD4Mu	1.4507	J93370	A790 31260		S31260
1B	25Cr-5Ni-Mo-Cu-N	A890/995CD4MCuN	1.4507	J93372	A790 31260		
2A	24Cr-10Ni-Mo-N	A995 CE8MN		J93345			
2205/4A	22Cr-5Ni-Mo-N	A890/995 CD3MN	1.4462	J92205	A790 31803	1.4462	S31803
<b>Super Duplex Stainless Steel</b>							
2507/ 5A	25Cr-7Ni-4Mo-N	A890/995 CE3MN		J93404	A479 32750	1.4410	S32750
Z100/ 6A	25Cr-7Ni-3Mo-Cu-N-W	A890/995 CD3MWCuN	1.4468	J93380	A479 32760	1.4460	S32760
Ferrallium 255/1C	25Cr-6Ni-Mo-Cu-N	A890 CD3MCuN		J93373	A479 39277		S39277
329	25Cr-7Ni-3Mo-N		1.4507		A479 32760	1.4460	S32900
<b>Titanium</b>							
Grade 2		B367 C2			B348 C2		
Grade 5	6Al-4V	B367 C5			B348 C5		



## API 600 / API 603 FLANGED GATE • GLOBE • CHECK VALVES

Other materials are available upon request

### GTF-150 / 300 / 600 / 900 / 1500 / 2500



#### Design Feature

- Design per API 600
- 2" – 48" (DN50 - DN1200)
- Rising stem, non rising handwheel
- O.S. & Yoke, flexible wedge
- Bolted bonnet design

<b>Body / Stem</b>	ASTM A216 Gr.WCB / A182 Gr.F6
<b>Disc</b>	ASTM A216 Gr.WCB + 13% Cr. coated
<b>Face to Face</b>	ASME B16.10 Class 150/300/600/900/1500/2500
<b>Flange Dia.</b>	ASME B16.5 Class 150/300/600/900/1500/2500

### GTF-150 / 300 / PN / JIS



#### Design Feature

- Design per API 603
- 1/2" – 24" (DN15 - DN600)
- Rising stem, non rising handwheel
- O.S. & Yoke, flexible wedge, integral seats
- Bolted bonnet design

<b>Body</b>	ASTM A351 Gr.CF8M
<b>Disc / Stem</b>	ASTM A351 Gr.CF8M / A182 Gr.F316
<b>Face to Face</b>	ASME B16.10 Class 150/300 / EN558-1 F1/F4/F5
<b>Flange Dia.</b>	ASME B16.5 Class 150/300 RF EN1092-1 PN 10/16/25/40/ JIS10K

### GBF-150 / 300 / 600 / 900 / 1500 / 2500



#### Design Feature

- Design per ANSI B16.34 / BS1873 / API600
- 2" – 24" (DN50 - DN600)
- Rising stem, rising handwheel
- O.S. & Yoke, flexible wedge
- Bolted bonnet design

<b>Body / Stem</b>	ASTM A216 Gr.WCB / A182 Gr.F6
<b>Disc</b>	ASTM A216 Gr.WCB + 13% Cr. coated
<b>Face to Face</b>	ASME B16.10 Class 150/300/600/900/1500/2500
<b>Flange Dia.</b>	ASME B16.5 Class 150/300/600/900/1500/2500

### GBF-150 / 300 / PN / JIS



#### Design Feature

- Design per ANSI B16.34 / BS1873 / API603
- 1/2" – 14" (DN15 - DN350)
- Rising stem, rising handwheel
- O.S. & Yoke, flexible wedge, Conical seat design
- Bolted bonnet design

<b>Body</b>	ASTM A351 Gr.CF8M
<b>Disc / Stem</b>	ASTM A351 Gr.CF8M / A182 Gr.F316
<b>Face to Face</b>	ASME B16.10 Class 150/300 / EN558-1 F1/F4/F5
<b>Flange Dia.</b>	ASME B16.5 Class 150/300 RF EN1092-1 PN 10/16/25/40/ JIS10K

### SF-150 / 300 / 600 / 900 / 1500 / 2500



#### Design Feature

- Design per API 600
- 2" – 36" (DN50 - DN900)
- Swing type
- Bolted bonnet design

<b>Body</b>	ASTM A216 Gr.WCB
<b>Disc</b>	ASTM A216 Gr.WCB + 13% Cr. coated
<b>Face to Face</b>	ASME B16.10 Class 150/300/600/900/1500/2500
<b>Flange Dia.</b>	ASME B16.5 Class 150/300/600/900/1500/2500

### SF-150 / 300 / PN / JIS



#### Design Feature

- Design per ANSI B16.34 / BS1868 / API603
- 1/2" – 14" (DN15 - DN350)
- Swing type
- Conical seat design
- Bolted bonnet design

<b>Body</b>	ASTM A351 Gr.CF8M
<b>Disc</b>	ASTM A351 Gr.CF8M
<b>Face to Face</b>	ASME B16.10 Class 150/300 / EN558-1 F1/F4/F5
<b>Flange Dia.</b>	ASME B16.5 Class 150/300 RF EN1092-1 PN 10/16/25/40/ JIS10K