

Engineering Data: VALVES

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Wrought Designations	Alloys	Cast Equivalents
304	ASTM A-744	CF 8
304 L	ASTM A-744	CF 3
304 H	ASTM A-352	CF 10
304 Modified	ASTM A-744	CF 8 0.4Min / 0.8Max
-	-	Carbon
316	ASTM A-351 / A-744	CF8M
316 L	ASTM A-744	CF3M
317	ASTM A-744	CG8M
317 L	ASTM A-744	CG3M
317 LM	ASTM A-744	CG3M Modified
-	Molybdenum 4.0-5.0	-
-	Carbon 0.3% Max	-
347	ASTM A-744	CF8C
347 H	ASTM A-351	CF8C Modified
-	-	.04Min / .08Max Carbon
405	ASTM A-352	CA6NM
410	ASTM A-487	CA15-C
Alloy 20 Cast	ASTM A-744	CN7M
Monel 400	ASTM A-494	M35-1
Monel	ASTM A-494	M35-2
Monel	ASTM A-494	M-30H
Duplex SS-Bar	ASTM A-479	Ferrallium 255
Duplex SS-Bar	ASTM A-479	S-31803
Duplex SS-Cast	ASTM A-744	CD-4MCU
Duplex SS-Cast	ASTM A-890	CD-3MN
Nickel 200	ASTM A-494	CZ100
Inconel 600	ASTM A-494	CY40-CL1
Inconel 600	ASTM A-494	CY40-CL2
Inconel 625	ASTM A-494	CW6MC
Inconel X 750	-	-
Inconel 800	ASTM A-351	CT15C
Inconel 800-H	ASTM A--351	CT15C

Hast.	ASTM A-494	N7MCL 1
Hast. B-Cast	ASTM A-494	N-12MV
Hast. B-2	ASTM A-494	N7M
Hast. C-Cast	ASTM A-494	CW12MW
Hast. C-276 Bar	ASME SB-574	N10276
Hast. C4	ASTM A-494	CW2M
Hast. C4-Cast Modified	ASTM A-474	CW2M Class 1 Modified
-	-	Si 0.40% Max
-	-	Si 0.015% Max
Hast. C-22 Bar	ASME SB 574	NO 6022
Hast. C-22 Cast	ASTM A-494	CX2MW
Titanium-Cast	ASTM B-367	GR2
Titanium-Cast	ASTM B-367	GR3
Titanium-Cast	ASTM B-367	GRC5
Titanium	ASTM B-367	CR7B
Avesta 254 SMO	ASTM A-351 / NO 8926	CK3MCUN
Zirconium-Cast	ASTM B-752	GR 702 C
Zirconium-Bar	ASTM B-550	-

Carbon and low Alloys

Carbon-Molybdenum	Cast	Forged
1.25 CR	WC6	F22
2.25 CR	WC9	F5
5.0 CR	C5	F9
9.0 CR	C12	F91
12.00 CR	C12A	F22

API 600 Trim Number Chart

Trim	Material	Seat	Disk	Backseat	Stem	Notes
1	410	410	410	410	410	
2	304	304	304	304	304	
3	F310	310	310	310	310	
4	Hard 410	Hard 410	Hard 410	410	410	seats 750BHN Min.
5	Hardfaced	Stellite	Stellite	410	410	
5A	Hardfaced	Ni-Cr	Ni-Cr	410	410	
6	410 and Cu-Ni	Cu-Ni	410	410	410	
7	410 and Hard 410	Hard 410	Hard 410	410	410	seats 750BHN Min.
8	410 and Hardfaced	Stellite	410	410	410	
8A	410 and Hardfaced	Ni-Cr	410	410	410	
9	Monel	Monel	Monel	Monel	Monel	
10	316	316	316	316	316	
11	Monel and Hardfaced	Stellite	Monel	Monel	Monel	
12	316 and Hardfaced	Stellite	316	316	316	
13	Alloy 20	Alloy 20	Alloy 20	Alloy 20	Alloy 20	
14	Alloy 20 and Hardfaced	Stellite	Alloy 20	Alloy 20	Alloy 20	
15	304 and Hardfaced	Stellite	Stellite	304	304	
16	316 and Hardfaced	Stellite	Stellite	316	316	
17	347 and Hardfaced	Stellite	Stellite	347	3477	
18	Alloy 20 and Hardfaced	Stellite	Stellite	Alloy 20	Alloy 20	