



API Trim Chart
Valve Information
API 600,602,623,594



Trim	Common Name	Seat / Disc		Stem / Backseat	Notes
		Material Type	Hardness (BH) Min.	Material (Typical Mat Spec.)	
1	F6 (Full 410)	13Cr (410)		13Cr (ASTM A276 T410)	Obsolete Use Trim 8
2	304	18Cr-8Ni (304)	See Note	18Cr-8Ni (ASTM A276 T304)	Materials are prone to galling. A differential hardness between the seat and the disk is required to minimize galling.
3	F310	25Cr-20Ni (310)		25Cr-20Ni (ASTM A273 T310)	
4	Hard F6	Hard 13 Cr (410 Case Hardened)	750	13Cr (ASTM A276 T410)	
5	Stellite Based Full Hard-faced	COCR-A (AKA Stellite® 6)	350	13Cr (ASTM A276 T410)	Better corrosion/erosion resistance than trim 8
5A	Non Cobalt Based Full Hard-faced	Ni-Cr (Non Cobalt Based HF)	350		Used in applications where Cobalt is not desired
5B	Ultimet Based Hard-faced	UNS R31233 (AKA Ultimet®)	350		Cobalt based HF alternative to traditional Stellite®
6	F6 and Cu-Ni	13Cr (410)	250	13Cr (ASTM A276 T410)	
		Cu-Ni	175		
7	F6 and Hard F6	13Cr (410)	250	13Cr (ASTM A276 T410)	
		Hard 13 Cr (410 Case Hardened)	750		
8	F6 and Half Hard Face	13Cr (410)	250	13Cr (ASTM A276 T410)	Most Common Trim in GGC valves
		COCR-A (AKA Stellite® 6)	350		
8A	F6 and Half Hard Face	13Cr (410)	250	13Cr (ASTM A276 T410)	
		Ni-Cr (Non Cobalt Based HF)	350		
9	Monel™	Ni-CU Alloy	See Note	Ni-CU Alloy	Materials are prone to galling. A differential hardness between the seat and the disk is required to minimize galling. Suggest Trim 11
10	316	18Cr-8Ni-2Mo (316)	See Note	18Cr-8Ni-2Mo (ASTM A276 T316)	Materials are prone to galling. A differential hardness between the seat and the disk is required to minimize galling. Suggest Trim 12
11	Monel™ and Hard-faced	Ni-CU Alloy		Ni-CU Alloy	
		COCR-A (AKA Stellite® 6)	350		

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12	316 and Hard-faced	18Cr-8Ni-2Mo (316)	350	18Cr-8Ni-2Mo (ASTM A276 T316)	
		COCR-A (AKA Stellite® 6)			
13	Alloy 20	18Cr-29Ni (A20)	See Note	18Cr-29Ni (ASTM B473)	Materials are prone to galling. A differential hardness between the seat and the disk is required to minimize galling. Suggest Trim 14
14	Alloy 20 and Hard-faced	18Cr-29Ni (A20)	350	18Cr-29Ni (ASTM B473)	
		COCR-A (AKA Stellite® 6)			
15	304 and Full Hard-faced	COCR-A (AKA Stellite® 6)	350	18Cr-8Ni (ASTM A276 T304)	
16	316 and Full Hard-faced	COCR-A (AKA Stellite® 6)	350	18Cr-8Ni-2Mo (ASTM A276 T316)	
17	347 and Full Hard-faced	COCR-A (AKA Stellite® 6)	350	18Cr-29Ni (ASTM B473)	
18	Alloy 20 and Full Hard-faced	COCR-A (AKA Stellite® 6)	350	18Cr-29Ni (ASTM B473)	
19	Nickel	Nickel Alloy		Nickel Alloy	
19A	Alloy 625 (AKA Inconel™ 625)	Alloy 625		Alloy 625 (ASTM B564 UNS N06625)	
19B	Alloy C276 (AKA Hastalloy™ C276)	Alloy C276		Alloy C276 (ASTM B564 UNS N10276)	
19C	Alloy 825 (AKA Inconel™ 825)	Alloy 825		Alloy 825 (ASTM B564 UNS N08825)	

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20	Nickel and Hard-faced	Nickel Alloy	350	Nickel Alloy	
		COCR-A (AKA Stellite® 6)			
20A	Alloy 625 and Hard-faced	Alloy 625	350	Alloy 625 (ASTM B564 UNS N06625)	
		COCR-A (AKA Stellite® 6)			
20B	Alloy C276 and Hard-faced	Alloy C276	350	Alloy C276 (ASTM B564 UNS N10276)	
		COCR-A (AKA Stellite® 6)			
20C	Alloy 825 and Hard-faced	Alloy 825	350	Alloy 825 (ASTM B564 UNS N08825)	
		COCR-A (AKA Stellite® 6)			
21	Nickel and Full Hard-faced	COCR-A (AKA Stellite® 6)	350	Nickel Alloy	

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