

Beric Valves Trim Chart (hardness values in HB), November 11, 2015

Trim No	Trim Symbol	Material Type					Service
		Seat Surfaces	Disc/Wedge Surfaces	Stem/Hinge Pin	Backseat	Small Internal Parts	
1	Cr13 (F6)	Obsolete					
2	18-8 (304)						
3	F310	310	310	310	310	310	For moderate pressure in corrosive or non-corrosive service between -265°C and 450°C
4	Hard F6	Hard 13Cr 750 min	Hard 13Cr	13Cr 200 min to 275 max	13Cr 250 min	13Cr	As trim No. 1 but for medium pressure. Seat surface hardness 750 HB.
5	Hardfaced	Co-Cr A 350 min	Co-Cr A 350 min	13Cr 200 min to 275 max	13Cr 250 min	13Cr	High pressure slightly erosive and corrosive service between -265°C and 650°C
5A	Hardfaced	Ni-Cr 350 min	Ni-Cr 350 min	13Cr 200 min to 275 max	13Cr 250 min	13Cr	As trim No. 5 where Co is not allowed
6	F6 and Cu-Ni	Cu-Ni 175 min	13Cr 250 min	13Cr 200 min to 275 max	13Cr 250 min	13Cr	As trim No. 1
7	F6 and Hard F6	Hard 13Cr 750 min	13Cr 250 min	13Cr 200 min to 275 max	13Cr 250 min	13Cr	As trim No. 1 but for moderate pressure
8	F6 and Hardfaced	Co-Cr A 350 min	13Cr 250 min	13Cr 200 min to 275 max	13Cr 250 min	13Cr	As trim No. 5 for moderate pressure
8A	F6 and Hardfaced	Ni-Cr 350 min	13Cr 250 min	13Cr 200 min to 275 max	13Cr 250 min	13Cr	As trim No. 5A for moderate pressure
9	Monel™	Ni-Cu Alloy					Very corrosive fluids. Erosive-corrosive service between -240°C and 480°C. Sea water and reduced concentrations of Sulphuric/Hydrochloric acid.
10	316	18Cr-8Ni-Mo	18Cr-8Ni-Mo				
11	Monel™ and Hardfaced	Trim 5 or 5A 350 min	Ni-Cu Alloy				As trim No. 9 but for medium pressure
12	316 and Hardfaced	Trim 5 or 5A 350 min	18Cr-8Ni-Mo				As trim No. 10 but for medium pressure
13	Alloy 20 (B463/B473)	19Cr-29Ni					Very corrosive service. Excellent for Sulphuric acid and Chloride applications. For moderate pressure between -45°C and 320°C
14	Alloy 20 and Hardfaced	Trim 5 or 5A 350 min	19Cr-29Ni				As trim No. 13 but for medium pressure
15	Hardfaced	Co-Cr A 350 min	Co-Cr A 350 min	A276 Gr. 304	18Cr-8Ni 250 Min	18Cr-8Ni	
16	Hardfaced	Co-Cr A 350 min	Co-Cr A 350 min	A276 Gr. 316	18Cr-8Ni-Mo 250 Min	18Cr-8Ni-Mo	
17	Hardfaced	Co-Cr A 350 min	Co-Cr A 350 min	A276 Gr. 347	18Cr-10Ni-Cb	18Cr-10Ni-Cb	
18	Hardfaced	Co-Cr A 350 min	Co-Cr A 350 min	B473	19Cr-29Ni	19Cr-29Ni	
19	Nickel	Ni Alloy (Mfg. Std)					
19a	Alloy 625	A494 (CW6MC) (Cast) B564 UNS N06625 (Forged)		B564 UNS N06625			Applications above 1100 deg F.
19b	Alloy C276	A494 (CW2M) (Cast) B564 UNS N10276 (Forged)		B564 UNS N10276			
19c	Alloy 825	A494 (CU5MCuC) (Cast) B564 UNS N08825 (Forged)		B564 UNS N08825			

20	Nickel and Hardfaced	Co-Cr A 350 min	Ni Alloy (Mfg. Std)	
20a	Alloy 625 and Hardfaced	Co-Cr A 350 min	A494 (CW6MC) (Cast) B564 UNS N06625 (Forged)	B564 UNS N06625
20b	Alloy C276 and Hardfaced	Co-Cr A 350 min	A494 (CW2M) (Cast) B564 UNS N10276 (Forged)	B564 UNS N10276
20c	Alloy 825 and Hardfaced	Co-Cr A 350 min	A494 (CU5MCuC) (Cast) B564 UNS N08825 (Forged)	B564 UNS N08825
21	Hardfaced	Co-Cr A 350 min	Ni Alloy (Mfg. Std)	