

TRIM NO.	SEAT SURFACE (BODY SEAT & DISC SEAT)				STEM & BACK SEAT	STEM	BACKSEAT	AVAILABLE TYPE OF BODY SEAT RING
	NOMINAL TRIM	MATERIAL TYPE	HARDNESS (HB) MIN.	MATERIAL	MATERIAL	HARDNESS (HB)	HARDNESS (HB)	
1	F6	13Cr	c	A217-CA15, A182-F6a	A276-T410, T420	200 - 275	250	
2	304	18Cr-8Ni	d	A351-CF8, A182-F304	A276-T304	d	d	X, Y, Z
^a 2S	304 and Hardfaced	18Cr-8Ni Trim 5	d 350 i	A351-CF8, A182-F304 A5.13 E or RCo-Cr	A276-T304	d	d	X, Y, Z
3	F310	25Cr-20Ni	d	A351-CK20, A182-F310	A276-T310	d	d	X, Y, Z
5	Hardfaced	Co-CrA g	350 e	A5.13 ER Co Cr-A (Typical)	A276-T410, T420	200 - 275	250	X, Y, Z
5A	Hardfaced	Ni-Cr	350 e	h	A276-T410, T420	200 - 275	250	X, Y, Z
8	F6 and Hardfaced	13Cr Co-CrA g	300 i 350 i	A217-CA15, A182-F6a A5.13 E or RCo-CrA	A276-T410, T420	200 - 275	250	X, Y, Z
8A	F6 and Hardfaced	13Cr Ni-Cr	300 i 350 i	A217-CA15, A182-F6a h	A276-T410, T420	200 - 275	250	X, Y, Z
9	Monel	Ni-Cu	d	A494-M35-1 & 2, M-30C, M-30H, B564-N04400	B164-N04400	d	d	X, Y, Z
10	316	18Cr-8Ni	d	A351-CF8M, A182-F316	A276-T316	d	d	X, Y, Z
11	Monel and Hardfaced	Ni-Cu Trim 5	d 350 i	A494-M35-1 & 2, M-30C, M-30H, B564-N0440 A5.13 E or RCo-CrA	B164-N04400	d	d	X, Y, Z
12	316 and Hardfaced	18Cr-8Ni Trim 5	d 350 i	A351-CF8M, A182-F316 A5.13 E or RCo-CrA	A276-T316	d	d	X, Y, Z
13	Alloy 20	19Cr-29Ni	d	A351-CN7M, B462-N08020	B473-N08020	d	d	X, Y, Z
14	Alloy 20 and Hardfaced	19Cr-29Ni Trim 5	d 350 i	A351-CN7M, B462-N08020 A5.13 E or RCo-CrA	B473-N08020	d	d	X, Y, Z
15	Hardfaced	Co-CrA g	350 e	A5.13 E or RCo-CrA	A276-T304	d	d	X, Y, Z
16	Hardfaced	Co-CrA g	350 e	A5.13 E or RCo-CrA	A276-T316	d	d	X, Y, Z
17	Hardfaced	Co-CrA g	350 e	A5.13 E or RCo-CrA	A276-T347	d	d	X, Y, Z
18	Hardfaced	Co-CrA g	350 e	A5.13 E or RCo-CrA	B473-N08020	d	d	X, Y, Z
^a 19	304L	18Cr-8Ni-LC	d	A351-CF3, A182-F304L	A276-T304L	d	d	X, Y, Z
^a 20	316L	18Cr-8Ni-LC	d	A351-CF3M, A182-F316L	A276-T316L	d	d	X, Y, Z
^a 21	Hardfaced	Co-CrA g	350 e	A5.13 E or RCo-CrA	A276-T304L	d	d	X, Y, Z
^a 21S	304L and Hardfaced	18Cr-8Ni-LC Trim 5	d 350 i	A351-CF3, A182-F304L A5.13 E or RCo-CrA	A276-T304L	d	d	X, Y, Z
^a 22	Hardfaced	Co-CrA g	350 e	A5.13 E or RCo-CrA	A276-T316L	d	d	X, Y, Z
^a 22S	316L and Hardfaced	18Cr-8Ni-LC Trim 5	d 350 i	A351-CF3M, A182-F316L A5.13 E or RCo-CrA	A276-T316L	d	d	X, Y, Z
^a 23	347	18Cr-8Ni-Cb	d	A351-CF8C, A182-F347	A276-T347	d	d	X, Y, Z
^a 23S	347 and Hardfaced	18Cr-8Ni-Cb Trim 5	d 350 i	A351-CF8C, A182-F347 A5.13 E or RCo-CrA	A276-T347	d	d	X, Y, Z
^a 24	Hardfaced	Co-CrA g	350 e	A5.13 E or RCo-CrA	B164-N0440	d	d	X, Y, Z
^a 25	Hastelloy B		d	A494-N-12MV, B335-N10001	B335-N10001	d	d	X, Y, Z
^a 25H	Hardfaced	Co-CrA g	350 e	A5.13 E or RCo-CrA	B335-N10001	d	d	X, Y, Z
^a 25S	Hastelloy B & Hardfaced	Trim 5	d 350 i	A494-N-12MV, B335-N10001 A5.13 E or RCo-CrA	B335-N10001	d	d	X, Y, Z
^a 26	Hastelloy C (C276)		d	A494-CW-12MW, (B574-N10276)	B574-N10276	d	d	X, Y, Z
^a 26H	Hardfaced	Co-CrA g	350 e	A5.13 E or RCo-CrA	B574-N10276	d	d	X, Y, Z
^a 26S	Hastelloy C (C276) & Hardfaced	Trim 5	d 350 i	A494-CW-12MW, (B574-N10276) A5.13 E or RCo-CrA	B574-N10276	d	d	X, Y, Z
^a 27	Inconel 600		d	A494-CY-40, B564-N06600	B166-N06600	d	d	X, Y, Z
^a 27H	Hardfaced	Co-CrA g	350 e	A5.13 E or RCo-CrA	B166-N06600	d	d	X, Y, Z
^a 27S	Inconel 600 & Hardfaced	Trim 5	d 350 i	A494-CY-40, B564-N06600 A5.13 E or RCo-CrA	B166-N06600	d	d	X, Y, Z

API-602
TRIM MATERIAL
Forged Steel Valves

TRIM NO.	SEAT SURFACE (BODY SEAT & DISC SEAT)				STEM & BACK SEAT	STEM	BACKSEAT	AVAILABLE TYPE OF BODY SEAT RING
	NOMINAL TRIM	MATERIAL TYPE	HARDNESS (HB) MIN.	MATERIAL	MATERIAL	HARDNESS (HB)	HARDNESS (HB)	
^a 28	Inconel 625		d	A494-CW-6MC, B564-N06625	B446-N06625	d	d	X, Y, Z
^a 28H	Hardfaced	Co-CrA g	350 e	A5, 13 E or RCo-CrA	B446-N06625	d	d	X, Y, Z
^a 28S	Inconel 625 & Hardfaced	Trim 5	d 350 i	A494-CW-6MC, B564-N06625 A5, 13 E or RCo-CrA	B446-N06625	d	d	X, Y, Z
^a 29	Inconel 800		d	A351-CT15C, B564-N08800	B408-N08800	d	d	X, Y, Z
^a 29H	Hardfaced	Co-CrA g	350 e	A5, 13 E or RCo-CrA	B408-N08800	d	d	X, Y, Z
^a 29S	Inconel 800 & Hardfaced	Trim 5	d 350 i	A351-CT15C, B564-N08800 A5, 13 E or RCo-CrA	B408-N08800	d	d	X, Y, Z
^a 30	Inconel 825		d	B564-N08825	B425-N08825	d	d	X, Y, Z
^a 30H	Hardfaced	Co-CrA g	350 e	A5, 13 E or RCo-CrA	B425-N08825	d	d	X, Y, Z
^a 30S	Inconel 825 & Hardfaced	Trim 5	d 350 i	B564-N08825 A5, 13 E or RCo-CrA	B425-N08825	d	d	X, Y, Z
^a 31	Duplex		d	A351-CK3MCuN A890-CD4NCu, CD4MCuN, CE8MN, CE3MN, CD6MN, CD3NN, CD3NWCuN A182-F44, F51, F53	A479-S31254 S31803, S32750	d	d	X, Y, Z
^a 31H	Hardfaced	Co-CrA g	350 e	A5, 13 E or RCo-CrA	A479-S31254 S31803, S32750	d	d	X, Y, Z
^a 31S	Duplex & Hardfaced	Trim 5	d 350 i	A351-CK3MCuN A890-CD4NCu, CD4MCuN, CE8MN, CE3MN, CD6MN, CD3NN, CD3NWCuN A182-F44, F51, F53 A5, 13 E or RCo-CrA	A479-S31254 S31803, S32750	d	d	X, Y, Z
O	The other combination							

NOTES:

Trim numbers correspond to API 602.

(a) These trim numbers are not included in API 602.

(b) Type of Body Seat Ring: X : Renewable seat (API602 Pressed)
Y : Seal-welded
Z : Integral

(c) Body and Disc Seat surfaces should be 250 HB minimum with a 50 HB minimum differential between the Body and Disc Seat surfaces.

(d) KINKA's standard hardness.

(e) Differential hardness between the Body and Disc Seat surfaces is not required.

(g) Including trademarked materials such as Stellite 6, Stoddy 6, and Wallex 6.

(h) KINKA's standard hardfacing with a maximum iron content of 25 percent.

(i) Differential hardness between the Body and Disc Seat surfaces shall be KINKA's standard.