

Bray Part	Mtrl Desc	Mtrl Code	Wrought Cast	Spec Ref	Chemical Composition Standards											Yield (PSI)	Tensile (PSI)	Elongation (%)
					Aluminum	Carbon	Chromium	Copper	Iron	Manganese	Molybdenum	Nickel	Silicon	Titanium	Zinc			
Body	Aluminum	523	C	ASTM B-26, Alloy 356.0-T6	Bal	-	-	.25	.6	.35	-	-	7.0	.25	.35	20,000	30,000	3
Body/Disc	Alum Bronze	524	C	ASTM B-148 954	10	-	-	Bal	1	-	-	-	-	-	-	35,000	65,000	20
Body	Carbon Steel	527	C	ASTM A-216 WCB	-	.3	.4	.5	Bal	1.0	.25	.5	.6	-	-	36,000	70,000	22
Body/Disc	Cast Iron	521	C	ASTM A-126 Class B	-	3.2	-	-	Bal	.6	-	-	2.0	-	-	-	31,000	-
Body/Disc/Handle	Ductile Iron	522	C	ASTM A-536 Grade 65-45-12	-	3.2	-	-	Bal	.6	-	-	2.0	-	-	45,000	65,000	12
Body	Ductile Iron	819	C	ASTM A-395	-	3.0	-	-	Bal	-	-	-	2.5	-	-	40,000	60,000	18
Disc	Monel	584	C	ASTM A-494 M35	-	-	-	30	-	-	-	Bal	-	-	-	32,500	65,000	25
Body/Disc	316SS	580	C	ASTM A-351 CF8M	-	.08	18	-	Bal	1.5	2.0	10	1.5	-	-	30,000	70,000	30
Disc-Stem	316SS	580	C	ASTM A-351 CF8M	-	.08	18	-	Bal	1.5	2.0	10	1.5	-	-	30,000	70,000	30
Disc Stem	Hastelloy C-276	585	C	ASTM B-575, Alloy N10276	-	.01	15.5	-	5.5	1.0	16.0	Bal	.08	-	-	41,000	100,000	40
Disc Stem Insert	17-4 PH SS	583	C	ASTM A-747, Alloy CB7 Cu-1-H900	-	.07	16.6	2.9	Bal	0.7	-	4.1	1.0	-	-	145,000	170,000	5
Stem	Carbon Steel	520	W	ASTM A-108	-	.15	-	-	Bal	.6	-	-	-	-	-	70,000	85,000	28
Stem	Monel-400	584	W	ASTM B-164	-	.15	-	30	1.25	1	-	Bal	.25	-	-	55,000	84,000	40
Stem	416SS	582	W	ASTM A-582 Type 416	-	.15	12	.5	Bal	1.3	.6	.8	1.0	-	-	90,000	120,000	15
Stem	304SS	581	W	ASTM A-276 Type 304	-	.08	18	.75	Bal	2.0	.75	8.0	1.0	-	-	30,000	75,000	35
Stem	316SS	580	W	ASTM A-276 Type 316	-	.08	18	.75	Bal	2.0	2.0	10	1.0	-	-	30,000	75,000	35
Stem	17-4 PH SS	583	W	ASTM A-564 Type G30-H900	-	.07	16.3	4.0	Bal	1.0	-	4.0	1.0	-	-	170,000	190,000	10