

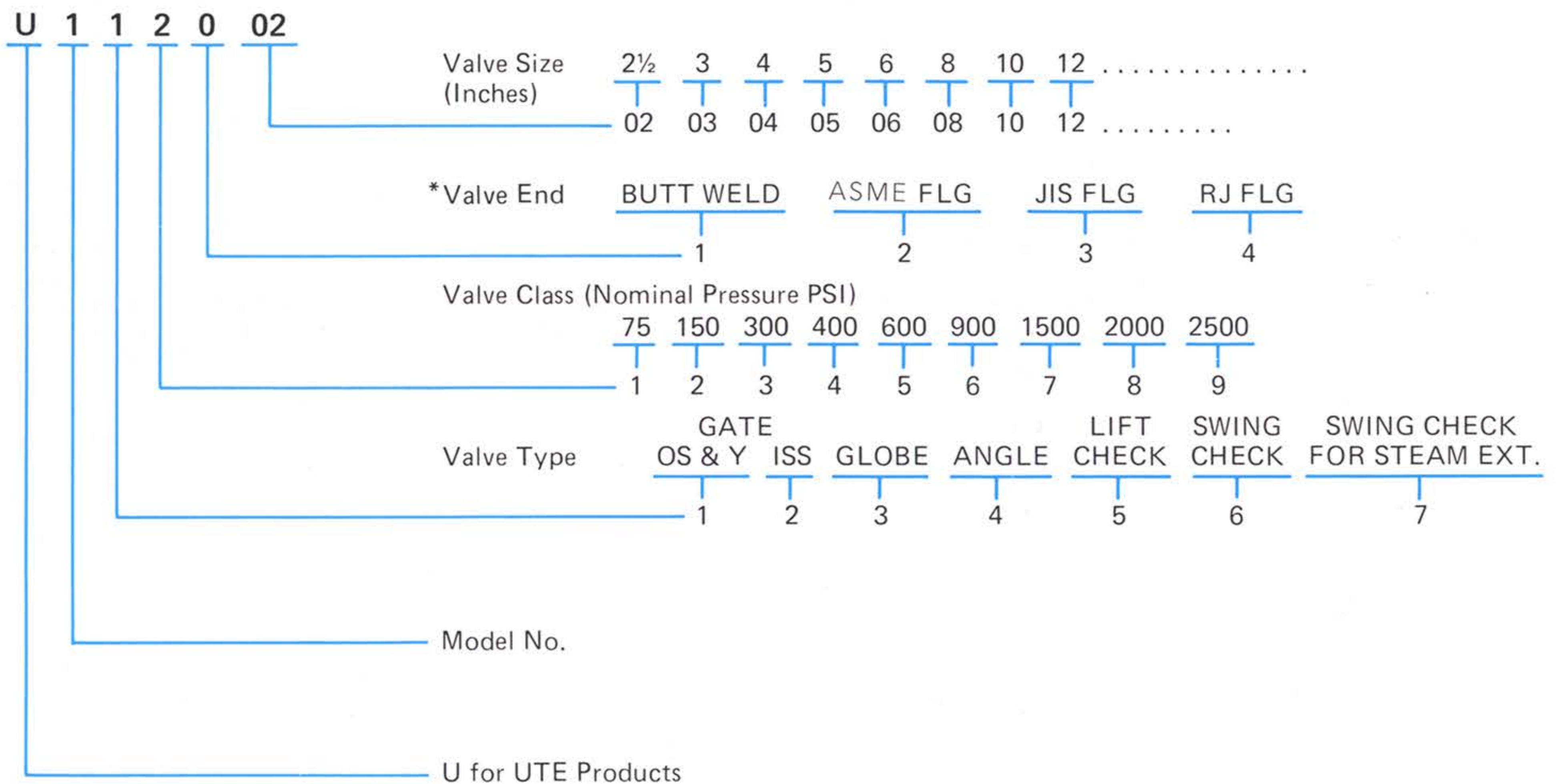
CAST, STAINLESS, ALLOY STEEL
WEDGE GATE
GLOBE
SWING CHECK
VALVE

WTE
VALVE

Nearly eighty years since its founding, UTSUE VALVE CO., LTD. (UTE) has been manufacturing high quality valves while devoting constant attention to research for improvement in design and technology. In recent years we have worked in particular to develop the kind of high pressure/high temperature valves needed in nuclear installations. Plant capabilities include complete quality program which complies with ASME requirements. UTE will continue its efforts in the future to keep pace with the progress of technology and to meet the demand for high quality, more efficient and more economical products.

1-1. What the Type Numbers Mean

The type numbers used on UTE products are made up of the letter "U" followed by six numerals. These numerals have the following significance:



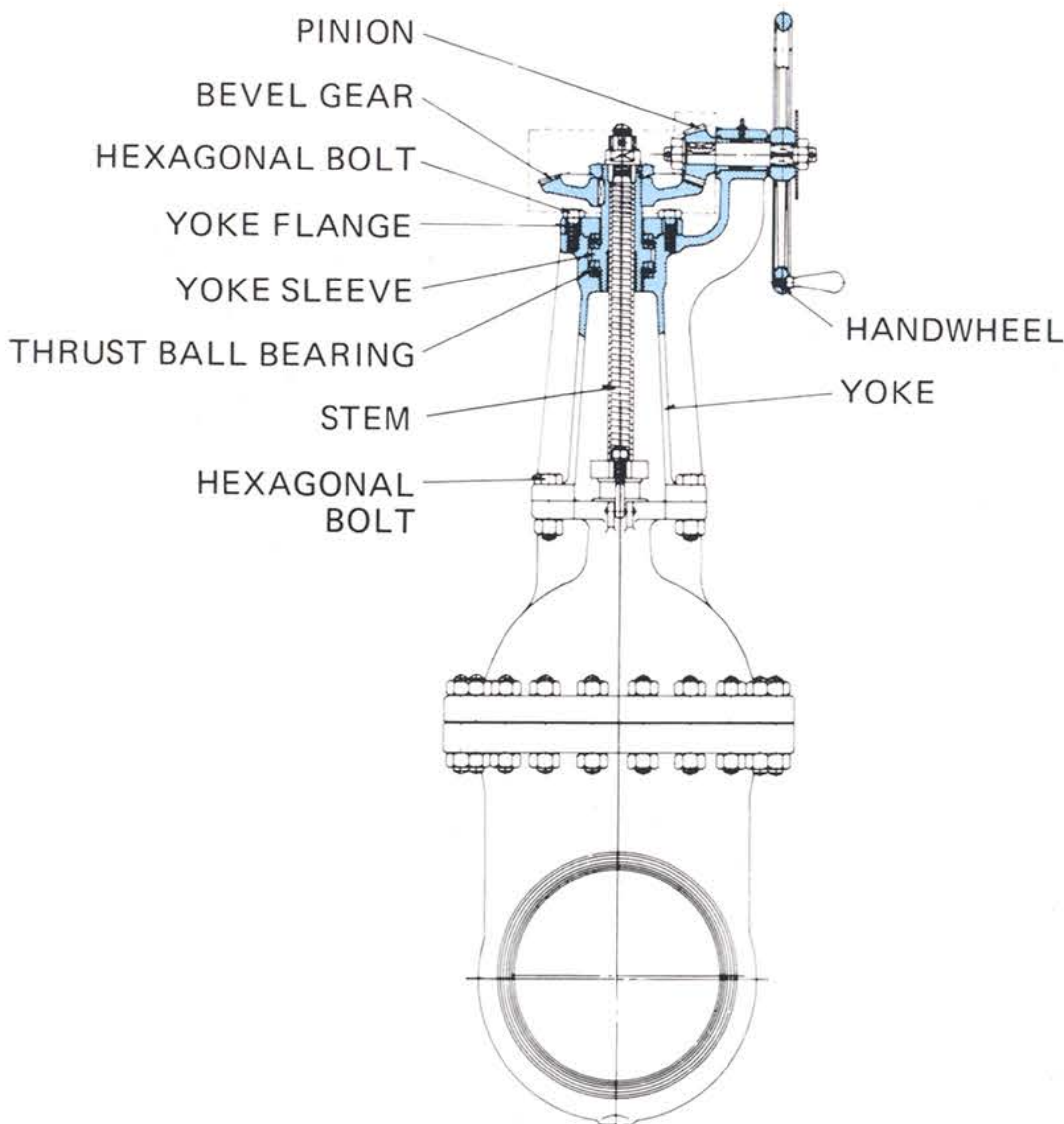
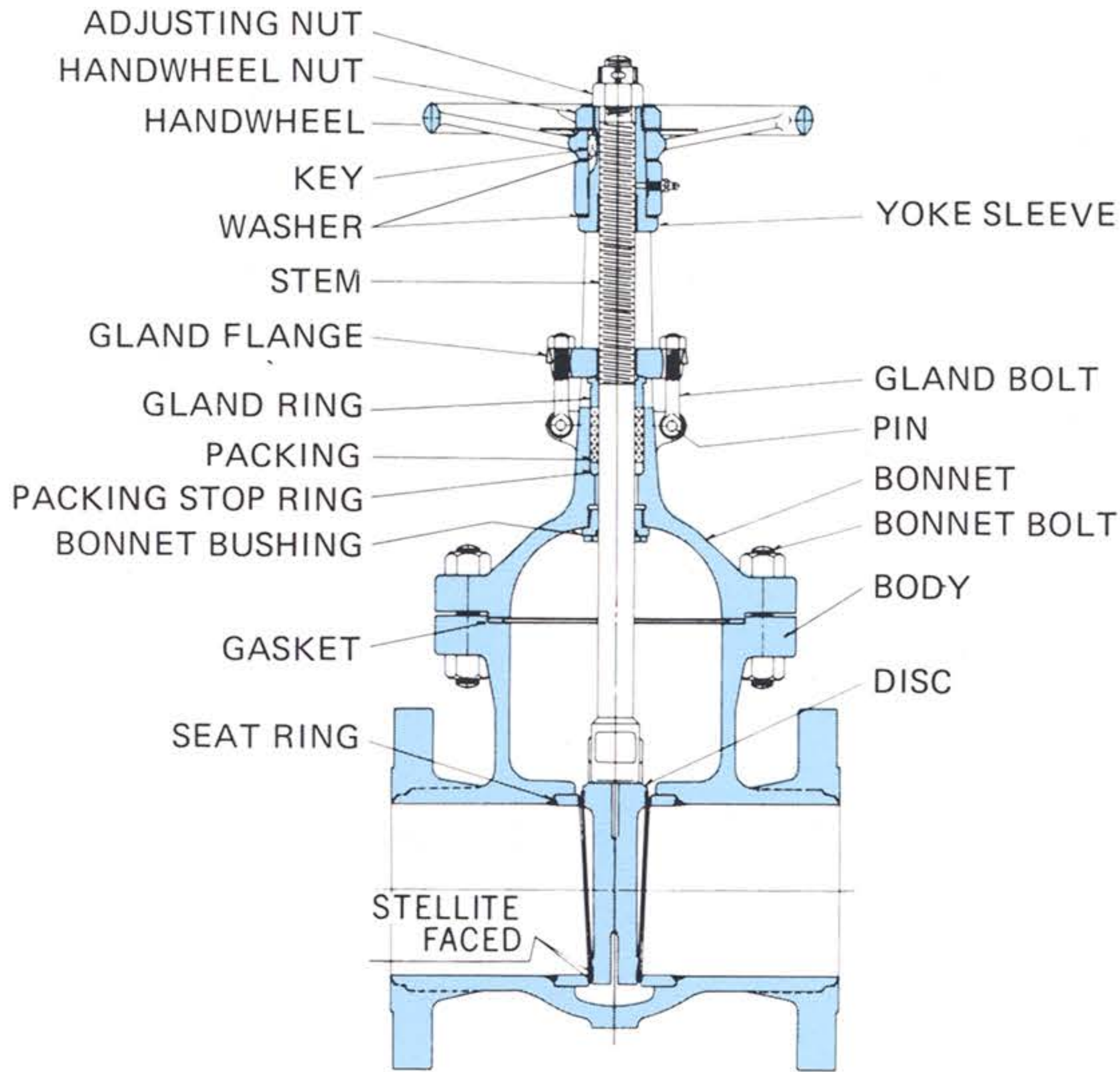
*Note: In the sample type number above and the type numbers in the Table of Dimensions, a zero appears at this point. In practice, this will be replaced by a number indicating which of the four available types of valve end is used.

1-2. Materials for Body and Bonnet

Nuclear valves carrying the "N" stamp will use the ASME materials that correspond to the materials listed below.

No.	Materials	JIS	ASTM
1	Carbon Steel	G5151 SCPH2	A216 Grade WCB
2	Carbon 1/2 Moly.	G5151 SCPH11	A217 Grade WC1
3	1-1/4Cr-1/2 Moly.	G5151 SCPH21	A217 Grade WC6
4	2-1/4Cr-1 Moly.	G5151 SCPH32	A217 Grade WC9
5	Carbon Steel (Low temp.)	G5152 SCPL1	A352 Grade LCB
6	Carbon 1/2 Moly. (Low temp.)	G5152 SCPL11	A352 Grade LC1
7	Stainless Steel (Type 304)	G5121 SCS13A	A351 Grade CF8
8	Stainless Steel (Type 316)	G5121 SCS14A	A351 Grade CF8M

UTE CAST STEEL GATE VALVE BOLTED BONNET TYPE



GEARED OPERATION

STANDARD MATERIALS IN USE

NAME OF PART	MATERIAL	
BODY	1, 2, 3, 4, 5, 6 (See Page 1, 1-2)	7, 8 (See Page 1, 1-2)
BONNET		
DISC	Ref. to Note 1	
YOKE	Carbon Cast Steel	
HANDWHEEL	Malleable Iron – Outside Dia 17-3/4 In or Under Cast Iron – Outside Dia 19-3/4 In or Over	
YOKE FLANGE	Carbon Steel	
SEAT RING	Ref. to Note 1	
STEM	Stainless Steel Type 403 or 416	Stainless Steel Type 630
BONNET BUSHING	Stainless Steel Type 416	Austenite Stainless Steel
PACKING STOP RING		
GLAND RING		
YOKE SLEEVE	Stainless Steel Type 416 Dia of the Stem 1-1/4 In or Under High-tension Brass	
GLAND FLANGE	Carbon Steel or Malleable Iron	
BONNET BOLT	Alloy Steel	
GLAND BOLT	Carbon Steel or Stainless Steel	
HEXAGONAL BOLT	Carbon Steel	
PIN	Carbon Steel or Stainless Steel	
KEY		
HANDWHEEL NUT	Carbon Steel	
ADJUSTING NUT		
WASHER	Stainless Steel	
BEVEL GEAR	Carbon Steel	
PINION		
THRUST BALL BEARING	Steel	
PACKING	Graphite with Stainless Wire	
GASKET	Graphite • Stainless Hoop or Graphite Seet	

Note 1
Materials are of higher grade material than those used in valve body. Seat faces are stellited.

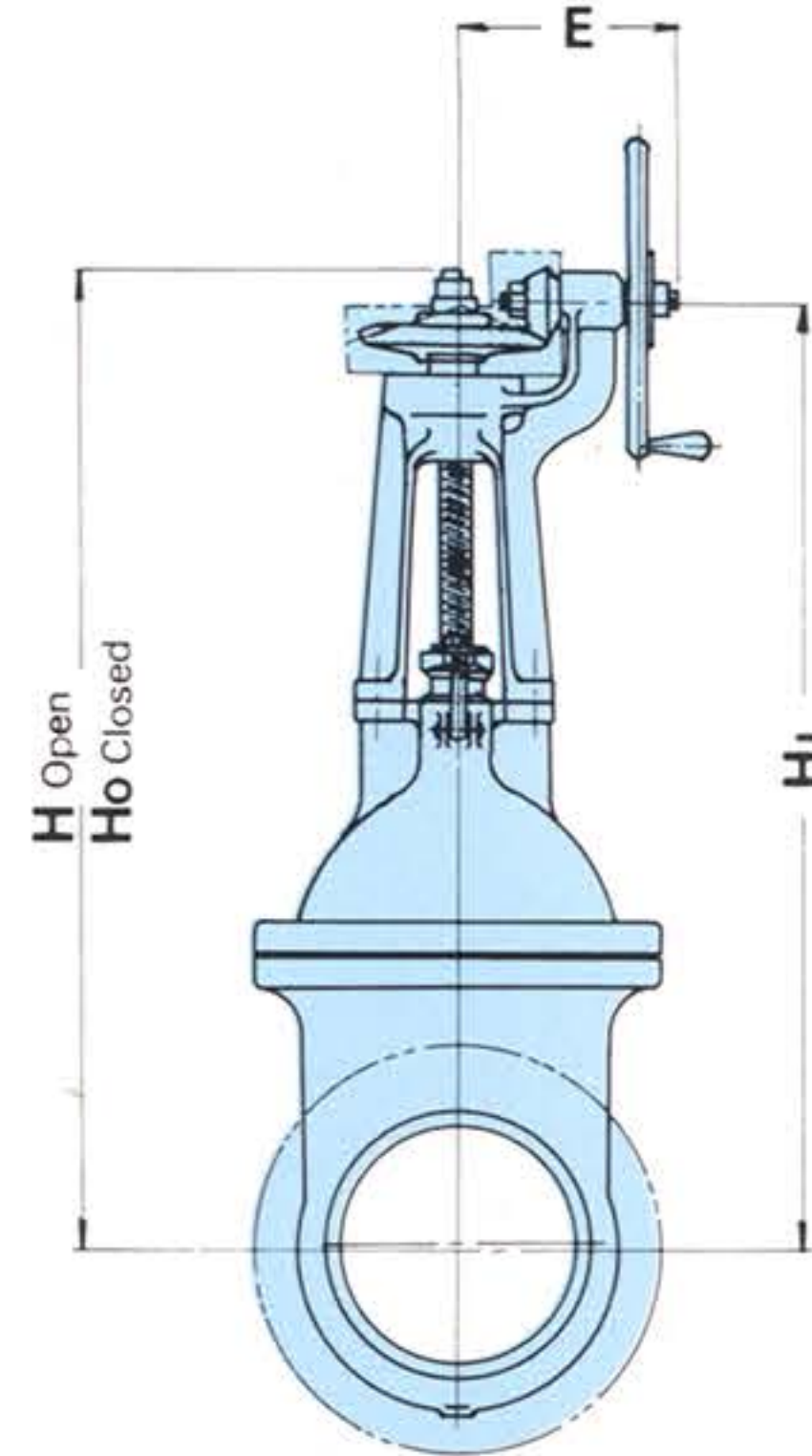
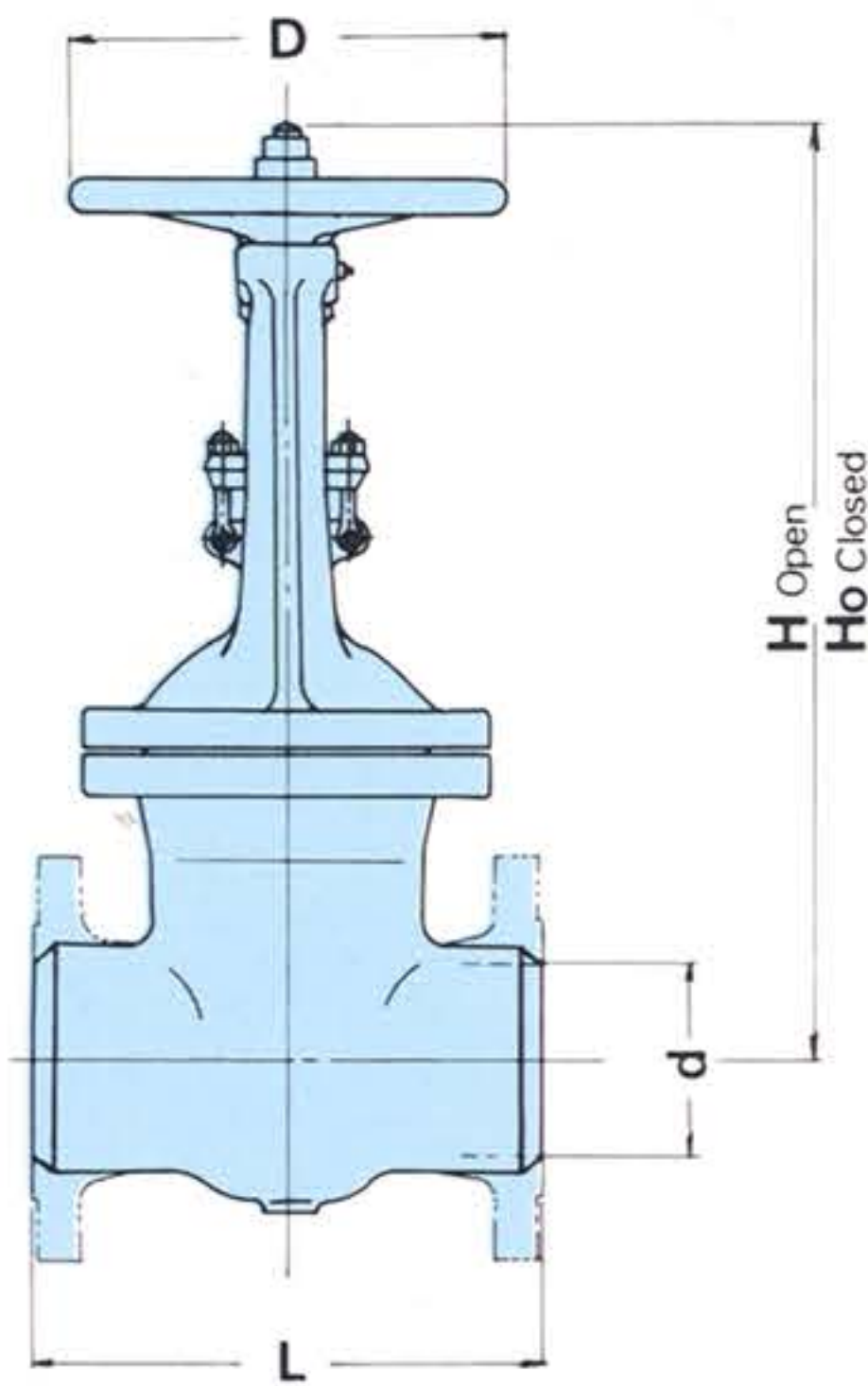


TABLE OF DIMENSION

DIMENSIONS IN INCHES (mm)
WEIGHT IN POUNDS (kg)

150 CLASS

TYPE NO.	U 112002	U 112003	U 112004	U 212005 ~ 212012	U 112014	U 112016	U 112018	U 112020	U 112022	U 112024
VALVE-SIZE	2-1/2	3	4	5 ~ 12	14	16	18	20	22	24
d BORE	2-1/2 (64)	3 (76)	4 (102)	SEE PAGE 6	3-1/4 (337)	15-1/4 (387)	17-1/4 (438)	19-1/4 (489)	20-7/8 (530)	23-1/4 (591)
L	FACE TO FACE (FLANGED)	7-1/2 (190)	8 (203)	9 (229)	"	15 (381)	16 (406)	17 (432)	18 (457)	20 (508)
	END TO END (BW ENDS)	9-1/2 (241)	11-1/8 (283)	12 (305)	"	22-1/2 (572)	24 (610)	26 (660)	28 (711)	30 (762)
H OPEN	16-3/8 (417)	18-1/8 (459)	21-3/8 (543)	EXCO TYPE	67-3/8 (1708)	76 (1924)	88-1/2 (2248)	95 (2408)	105 (2662)	116 (2945)
Ho CLOSED	13-3/4 (349)	14-7/8 (379)	17-1/4 (439)	"	53-3/8 (1356)	59-7/8 (1520)	70-1/8 (1787)	75 (1905)	85-3/4 (2089)	92 (2334)
H1 GEARED	-	-	-	"	-	-	-	72-1/4 (1838)	80-1/4 (2037)	86 (2182)
E GEARED	-	-	-	"	-	-	-	14-1/8 (359)	14-1/8 (359)	14-3/8 (364)
D HANDWHEEL	7-7/8 (200)	7-7/8 (200)	9-7/8 (250)	"	23-5/8 (600)	23-5/8 (600)	27-9/16 (700)	19-11/16 (500)	19-11/16 (500)	19-11/16 (500)
WEIGHT	FLANGED	59 (27)	73 (33)	99 (45)	"	1056 (480)	1342 (610)	2134 (970)	2596 (1180)	-
	BW ENDS	48 (22)	57 (26)	84 (38)	"	990 (450)	1254 (570)	1980 (900)	2530 (1150)	2954 (1340)

300 CLASS

TYPE NO.	U 113002	U 113003	U 113004	U 213005 ~ 213012	U 113014	U 113016	U 113018	U 113020	U 113022	U 113024
VALVE-SIZE	2-1/2	3	4	5 ~ 12	14	16	18	20	22	24
d BORE	2-1/2 (64)	3 (76)	4 (102)	SEE PAGE 6	13-1/4 (337)	15-1/4 (387)	17 (432)	19 (483)	20-7/8 (530)	23 (584)
L	FACE TO FACE (FLANGED)	9-1/2 (241)	11-1/8 (283)	12 (305)	"	30 (762)	33 (838)	36 (914)	39 (991)	43 (1092)
	END TO END (BW ENDS)	11-1/8 (283)	12 (305)	12 (305)	"	30 (762)	33 (838)	36 (914)	39 (991)	43 (1092)
H OPEN	16-3/8 (417)	18-1/8 (459)	21-3/8 (543)	EXCO TYPE	69-1/2 (1765)	74-1/2 (1893)	83-1/2 (2117)	89 (2262)	98-1/4 (2502)	107-1/2 (2728)
Ho CLOSED	13-3/4 (349)	14-7/8 (379)	17-1/4 (439)	"	56 (1422)	59-3/8 (1508)	66-1/2 (1687)	70-1/2 (1791)	78-3/8 (1989)	85-3/4 (2165)
H1 GEARED	-	-	-	"	-	57-1/2 (1459)	64-1/2 (1642)	68 (1730)	75-1/2 (1921)	82-1/2 (2096)
E GEARED	-	-	-	"	-	13-5/8 (346)	14-5/8 (371)	14-5/8 (371)	17-1/4 (439)	22-3/4 (579)
D HANDWHEEL	7-7/8 (200)	7-7/8 (200)	9-7/8 (250)	"	27-9/16 (700)	19-11/16 (500)	19-11/16 (500)	19-11/16 (500)	23-5/8 (600)	23-5/8 (600)
WEIGHT	FLANGED	66 (30)	81 (37)	119 (54)	"	1672 (760)	2116 (960)	2877 (1305)	3549 (1610)	3990 (1810)
	BW ENDS	48 (22)	57 (26)	84 (38)	"	1365 (620)	1716 (780)	2388 (1080)	2950 (1340)	3461 (1570)

400 CLASS

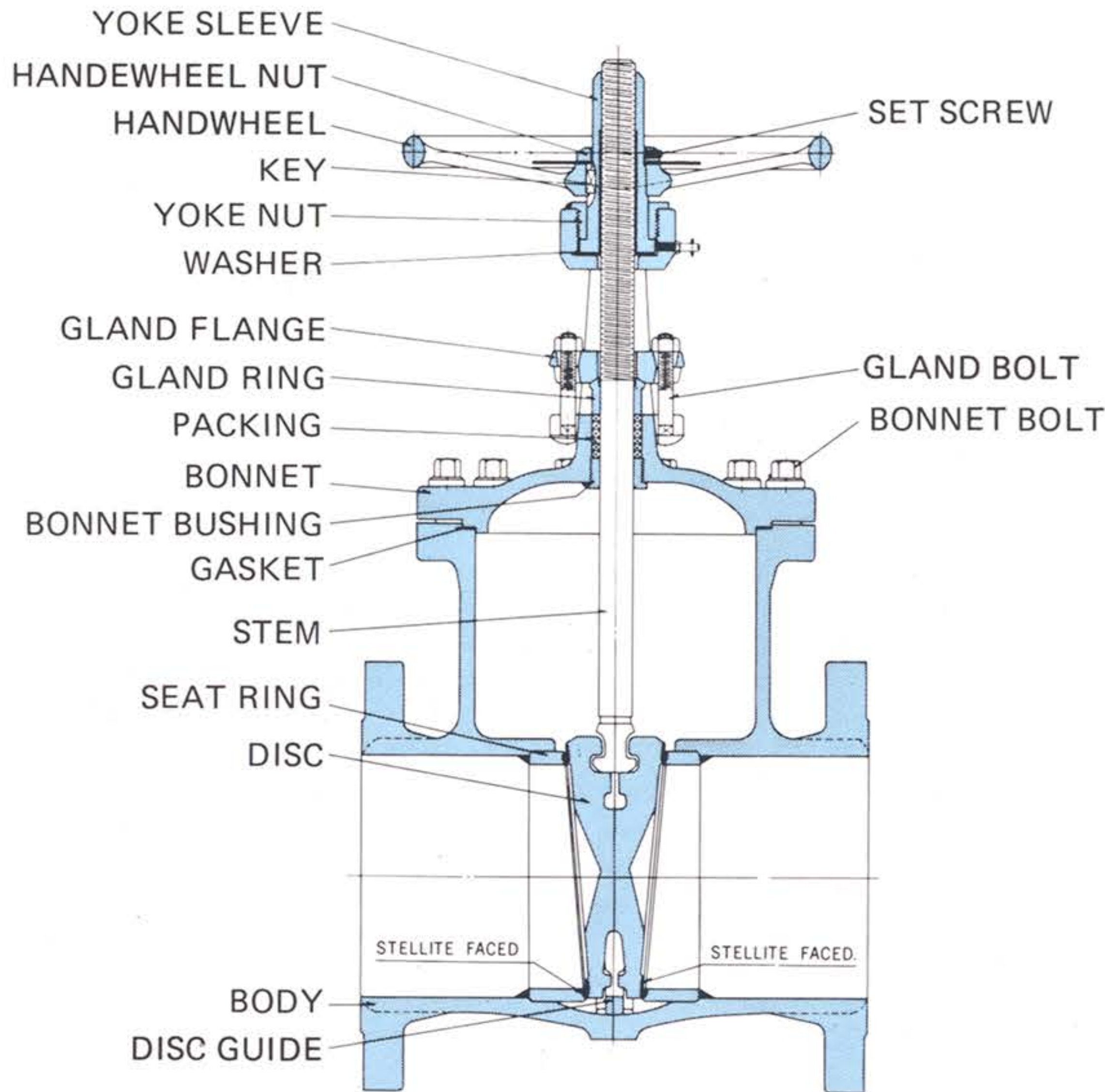
TYPE NO.	U 114002	U 114003	U 114004	U 114005	U 114006	U 114008	U 114010	U 114012	U 114014	U 114016	U 114018	U 114020
VALVE-SIZES	2-1/2	3	4	5	6	8	10	12	14	16	18	20
d BORE	2-1/2 (64)	3 (76)	4 (102)	5 (127)	6 (152)	8 (203)	10 (254)	12 (305)	13-1/8 (333)	15 (381)	17 (432)	18-7/8 (479)
L	FACE TO FACE (FLANGED)	13 (330)	14 (356)	16 (406)	18 (457)	19-1/2 (495)	23-1/2 (597)	26-1/2 (673)	30 (762)	32-1/2 (826)	35-1/2 (902)	38-1/2 (978)
	END TO END (BW ENDS)	13 (330)	14 (356)	16 (406)	18 (457)	19-1/2 (495)	23-1/2 (597)	26-1/2 (673)	30 (762)	32-1/2 (826)	35-1/2 (902)	38-1/2 (978)
H OPEN	18-3/4 (475)	21-1/8 (538)	26-3/8 (670)	30 (761)	35-1/4 (894)	44-5/8 (1132)	56-7/8 (1443)	67-1/2 (1715)	68-1/2 (1740)	76 (1931)	83-1/2 (2121)	87 (2209)
Ho CLOSED	15-3/4 (400)	17-5/8 (449)	22 (559)	24-5/8 (624)	28-7/8 (732)	36-3/8 (924)	46-1/4 (1176)	55-1/8 (1401)	55-3/8 (1406)	61 (1552)	66-1/2 (1690)	68-1/2 (1737)
H1 GEARED	-	-	-	-	-	-	-	53-3/8 (1357)	59-3/8 (1507)	63-3/4 (1620)	71-1/2 (1817)	-
E GEARED	-	-	-	-	-	-	-	13-5/8 (346)	14-5/8 (371)	14-5/8 (371)	17-1/4 (439)	-
D HANDWHEEL	7-7/8 (200)	9-7/8 (250)	11-13/16 (300)	11-13/16 (300)	13-3/4 (350)	15-3/4 (400)	19-11/16 (500)	27-9/16 (700)	19-11/16 (500)	19-11/16 (500)	23-5/8 (600)	23-5/8 (600)
WEIGHT	FLANGED	119 (54)	139 (63)	214 (97)	286 (130)	400 (182)	640 (291)	1045 (475)	1610 (730)	1975 (896)	2470 (1122)	3240 (1470)
	BW ENDS	93 (42)	103 (47)	160 (73)	220 (100)	308 (140)	500 (228)	845 (384)	1320 (600)	1587 (720)	1980 (900)	2640 (1200)

600 CLASS

TYPE NO.	U 115002	U 115003	U 115004	U 115005	U 115006	U 115008	U 115010	U 115012	U 115014	U 115016	U 115018	U 115020
VALVE-SIZE	2-1/2	3	4	5	6	8	10	12	14	16	18	20
d BORE	2-1/2 (64)	3 (76)	4 (102)	5 (127)	6 (152)	7-7/8 (200)	9-3/4 (248)	11-3/4 (298)	12-7/8 (327)	14-3/4 (375)	16-1/2 (419)	18-1/4 (464)
L	FACE TO FACE (FLANGED)	13 (330)	14 (356)	17 (432)	20 (508)	22 (559)	26 (660)	31 (787)	33 (838)	35 (889)	39 (991)	43 (1092)
	END TO END (BW ENDS)	13 (330)	14 (356)	17 (432)	20 (508)	22 (559)	26 (660)	31 (787)	33 (838)	35 (889)	39 (991)	43 (1092)
H OPEN	19-1/8 (486)	21-3/4 (553)	28 (710)	32-5/8 (829)	42 (1067)	49-7/8 (1266)	61-1/4 (1557)	68 (1730)	71-1/4 (1809)	78-3/8 (2014)	86-1/2 (2198)	94-3/8 (2397)
Ho CLOSED	16-3/8 (416)	18 (470)	23-3/4 (602)	27-9/16 (700)	35-7/8 (910)	41-3/4 (1060)	51-1/8 (1299)	56-3/8 (1431)	58-1/2 (1487)	64-3/4 (1644)	70-1/2 (1787)	76-1/2 (1945)
H1 GEARED	-	-	-	-	-	-	-	53-15/16 (1370)	55-3/4 (1416)	62-3/4 (1592)	67-5/8 (1718)	74 (1879)
E GEARED	-	-	-	-	-	23-5/8 (600)	-	13 (331)	17-1/4 (439)	22-7/8 (580)	22-7/8 (580)	26-7/8 (684)
D HANDWHEEL	11-13/16 (300)	11-13/16 (300)	13-3/4 (350)	15-3/4 (400)	19-11/16 (500)	22-1/16 (560)	27-9/16 (700)	23-5/8 (600)	23-5/8 (600)	23-5/8 (600)	23-5/8 (600)	23-5/8 (600)
WEIGHT	FLANGED	132 (60)	172 (78)	286 (130)	440 (200)	683 (310)	990 (450)	1890 (860)	2491 (1130)	2965 (1345)	3788 (1718)	4720 (2142)
	BW ENDS	101 (46)	136 (62)	220 (100)	320 (145)	540 (245)	793 (360)	1540 (700)	2094 (950)	2469 (1120)	3086 (1400)	3858 (1750)

Note: For data not shown in this table, accurate data will be included on the drawings submitted for approval.

UTE CAST STEEL GATE VALVE EXCO TYPE

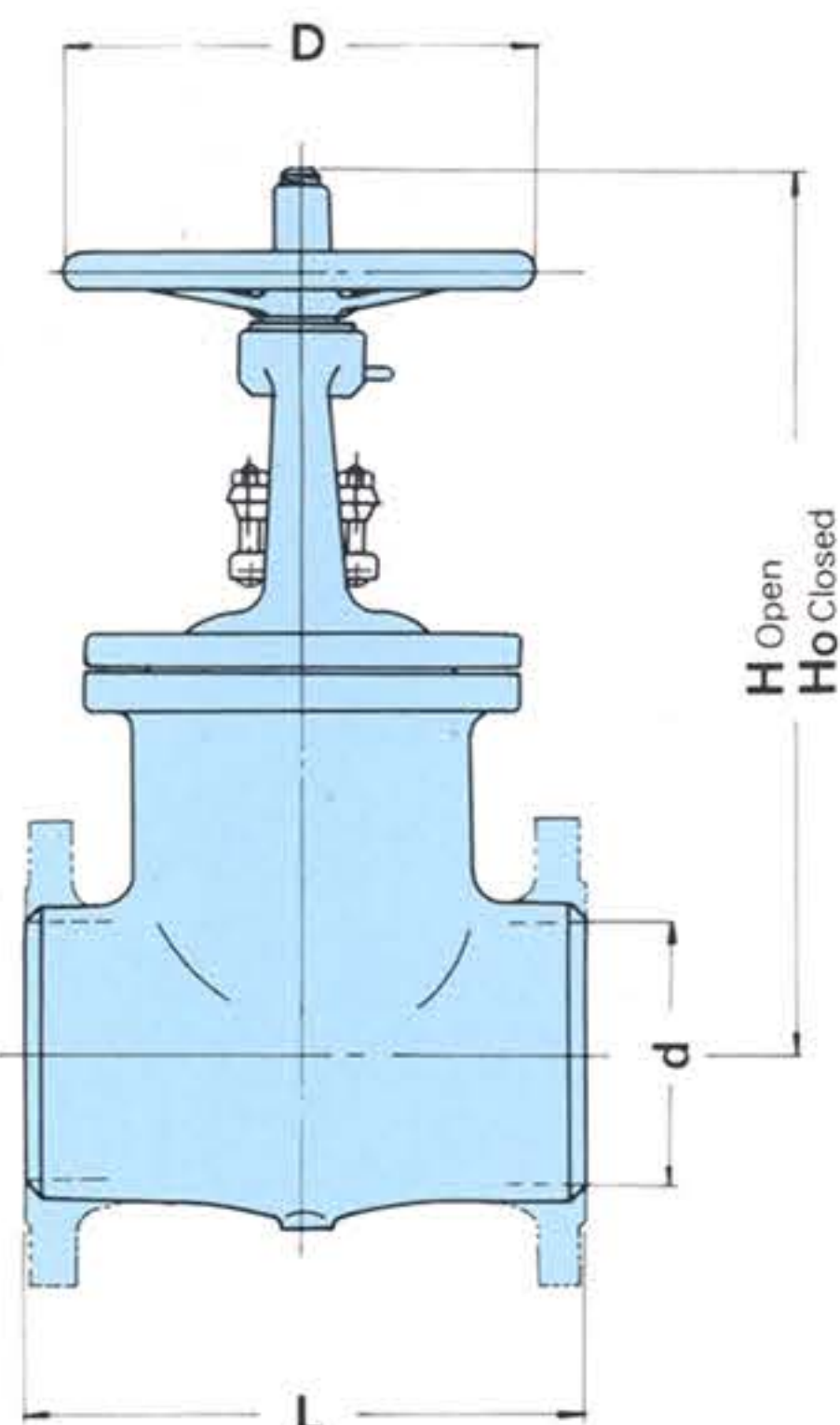


STANDARD MATERIALS IN USE

NAME OF PART	MATERIAL
BODY	1, 2, 3, 4, 5, 6 (See Page 1, .1-2)
BONNET	
DISC	
HANDWHEEL	Malleable Iron
YOKE NUT	
SEAT RING	Ref. to Note 1
STEM	Stainless Steel Type 403 or 416
BONNET BUSH	Stainless Steel Type 416
GLAND RING	
YOKE SLEEVE	
GLAND FLANGE	Malleable Iron
BONNET BOLT	Alloy Steel
GLAND BOLT	Stainless Steel Type 403
KEY	Carbon Steel
HANDWHEEL NUT	Malleable Iron
SET SCREW	Carbon Steel
WASHER	Stainless Steel Type 410
PACKING	Graphite with Stainless Wire
GASKET	Graphite • Stainless Hoop or Graphite Seat
DISC GUIDE	Carbon Steel

Note 1
Materials are of higher grade material than those used in valve body. Seat faces are stellite.

TABLE OF DIMENSION



150 CLASS

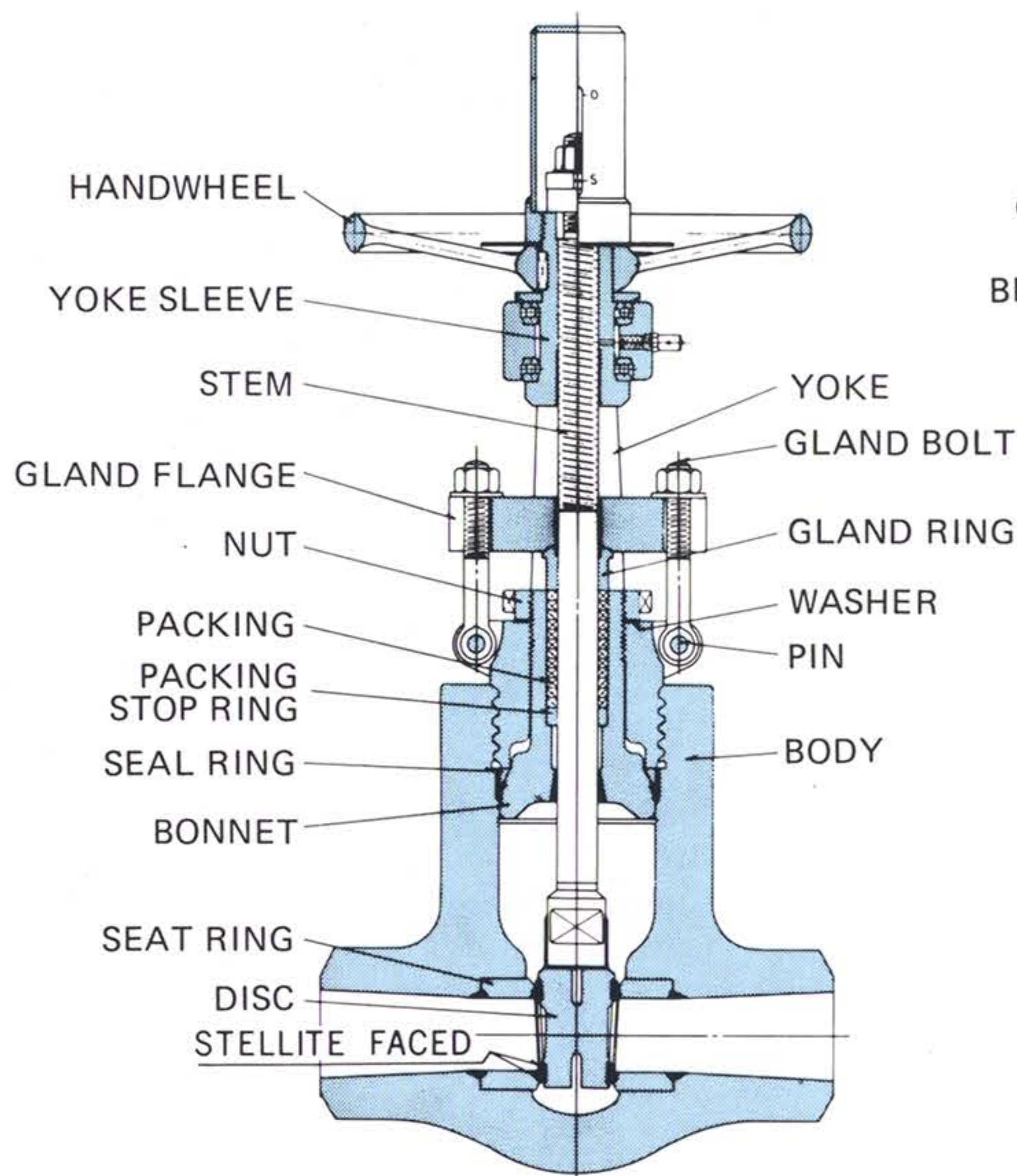
TYPE NO.	U 212005	U 212006	U 212008	U 212010	U 212012
VALVE-SIZE	5	6	8	10	12
d BORE	5 (127)	6 (152)	8 (203)	10 (254)	12 (305)
L	FACE TO FACE (FLANGED)	10 (254)	10-1/2 (267)	11-1/2 (292)	13 (330)
	END TO END (BW ENDS)	15 (381)	15-7/8 (403)	16-1/2 (419)	18 (457)
H OPEN	24-7/8 (632)	28-5/16 (719)	34 (862)	41-3/8 (1052)	49-1/8 (1249)
Ho CLOSED	19-7/8 (504)	22-3/8 (567)	26-1/8 (665)	31-5/8 (802)	37-1/2 (951)
D HANDWHEEL	9-7/8 (250)	9-7/8 (250)	11-13/16 (300)	13-3/4 (350)	15-3/4 (400)
WEIGHT	FLANGED	128 (58)	181 (82)	236 (107)	366 (166)
	BW ENDS	103 (48)	156 (71)	200 (91)	320 (145)

300 CLASS

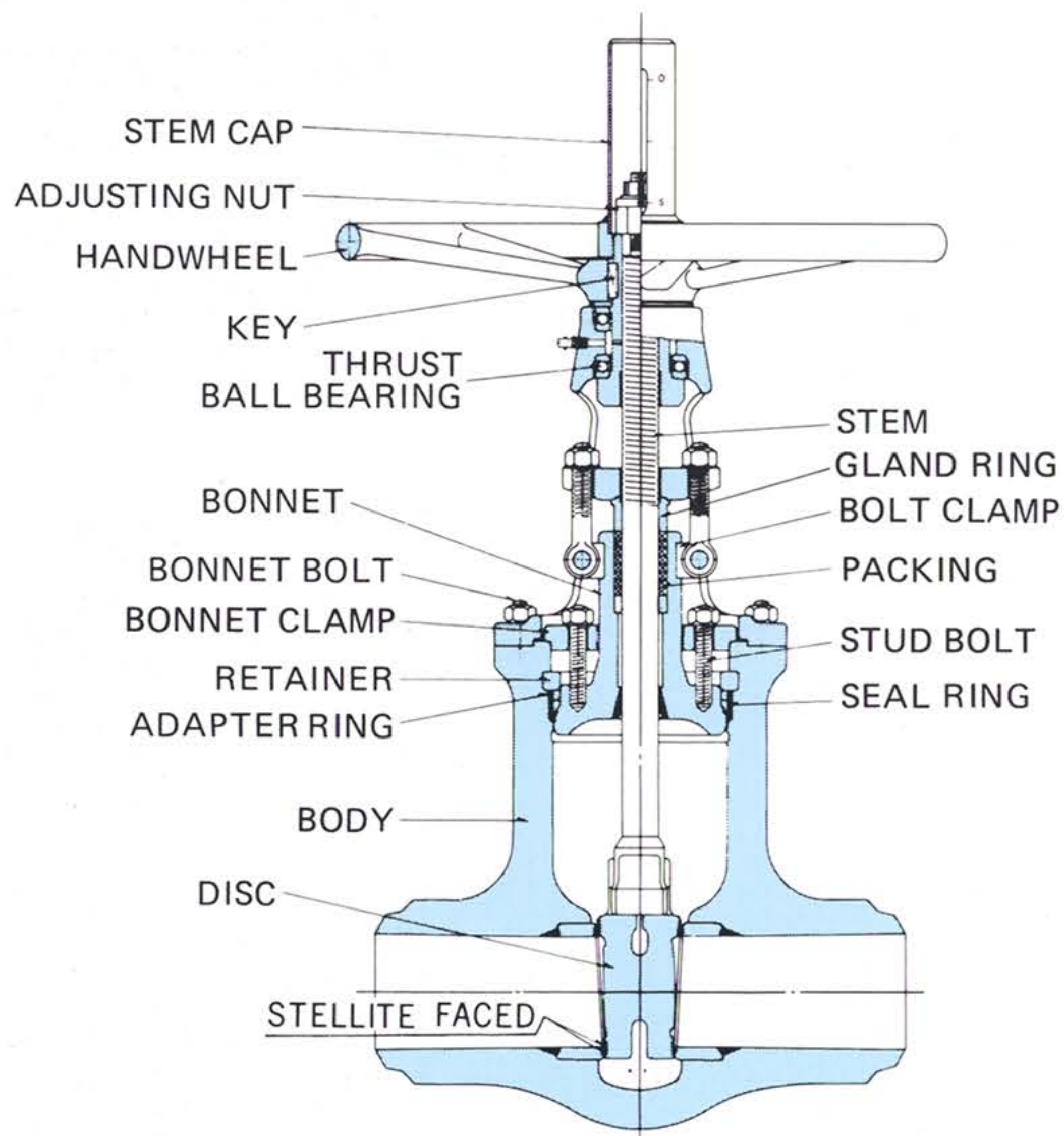
TYPE NO.	U 213005	U 213006	U 213008	U 213010	U 213012
VALVE-SIZE	5	6	8	10	12
d BORE	5 (127)	6 (152)	8 (203)	10 (254)	12 (305)
L	FACE TO FACE (FLANGED)	15 (381)	15-7/8 (403)	16-1/2 (419)	18 (457)
	END TO END (BW ENDS)	15 (381)	15-7/8 (403)	16-1/2 (419)	18 (457)
H OPEN	24-7/8 (632)	28-5/8 (719)	34-3/8 (873)	42-5/16 (1075)	49-1/2 (1258)
Ho CLOSED	19-7/8 (504)	22-5/16 (567)	26-5/8 (676)	32-1/2 (825)	37-3/4 (960)
D HANDWHEEL	10 (250)	10 (250)	12 (300)	15-3/4 (400)	17-3/4 (450)
WEIGHT	FLANGED	161 (73)	230 (104)	373 (169)	543 (246)
	BW ENDS	108 (49)	159 (72)	262 (119)	395 (179)

DIMENSIONS IN INCHES (mm)
WEIGHT IN POUNDS (kg)

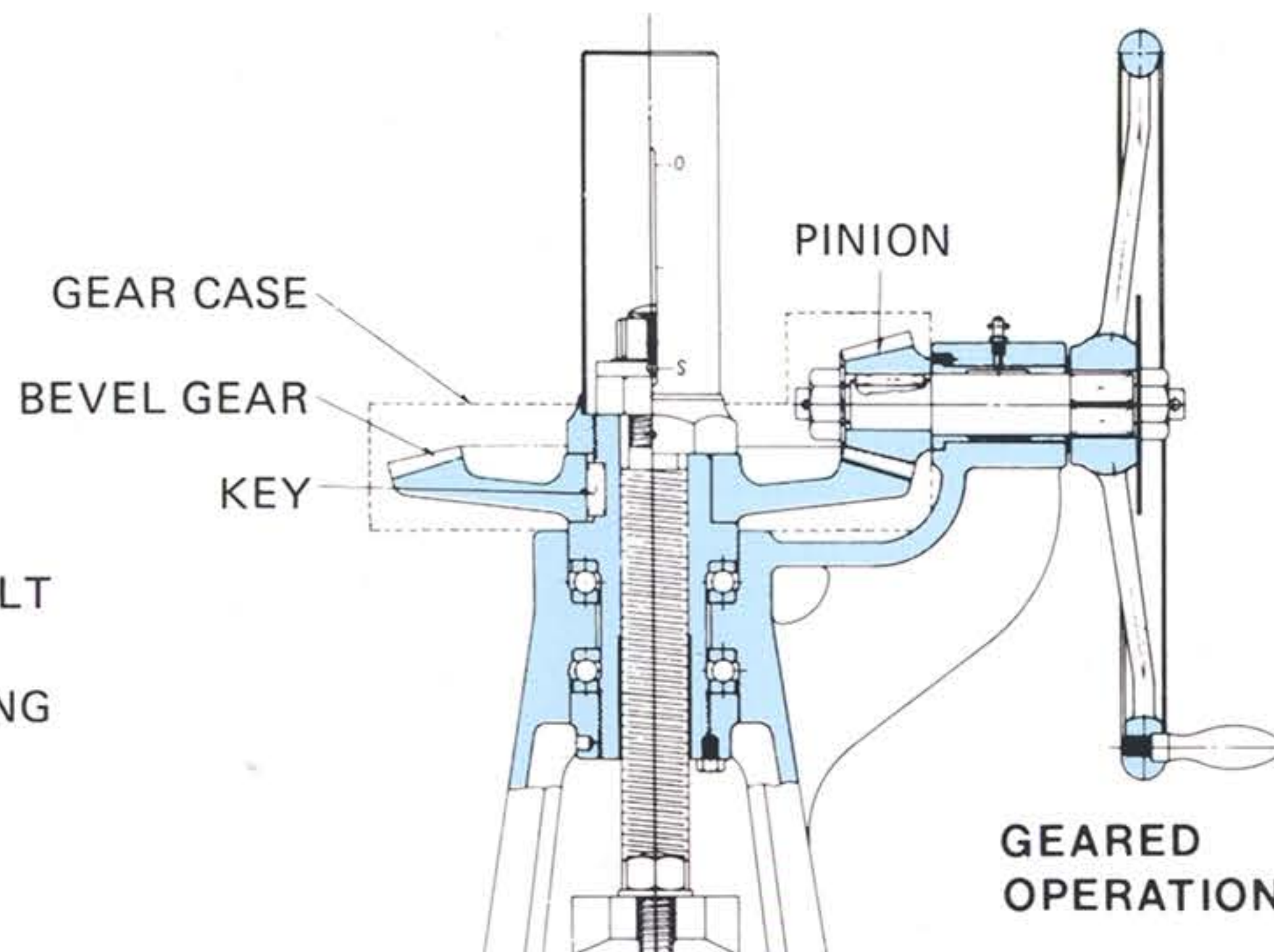
UTE CAST STEEL GATE VALVE PRESSURE SEAL BONNET TYPE



4 INCH OR UNDER



5 INCH OR OVER



GEARED OPERATION

STANDARD MATERIALS IN USE

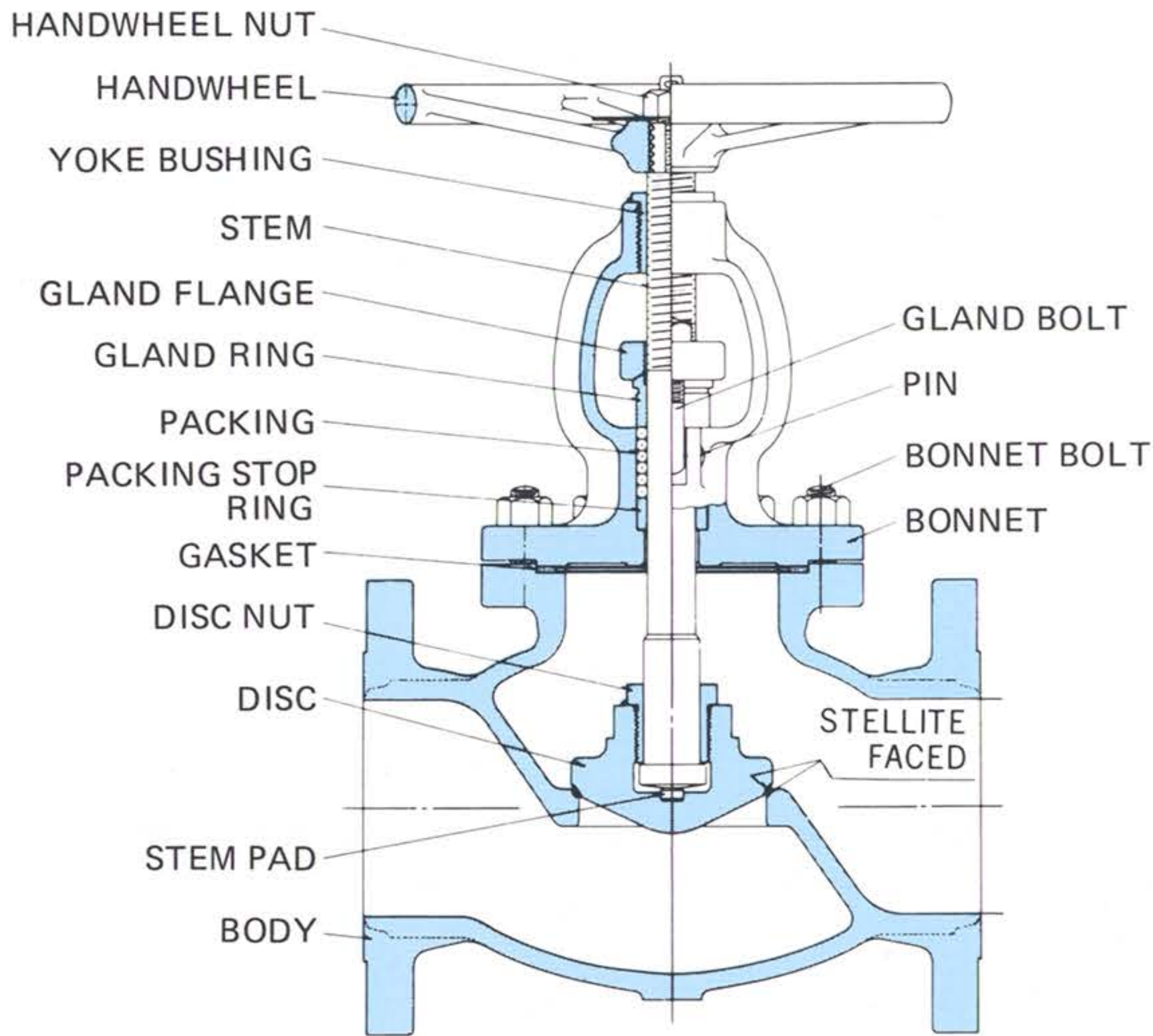
NAME OF PART	MATERIAL	
BODY	1, 2, 3, 4, 5, 6	
BONNET (Ref. to Note 3)	(See Page 1, 1-2)	7, 8 (See Page 1, 1-2)
DISC	Ref. to Note 1	
YOKE	Carbon Cast Steel	
HANDWHEEL	Malleable Iron - Outside Dia 17-3/4 In or Under Cast Iron - Outside Dia 19-1/2 In or Over	
SEAT RING	Ref. to Note 1	
STEM	Stainless Steel Type 403	Stainless Steel Type 630
PACKING STOP RING	Stainless Steel Type 416	Austenite Stainless Steel
GLAND RING		
YOKE SLEEVE	High-tension Brass	
GLAND FLANGE	Carbon Steel	
BONNET BOLT	Alloy Steel (Ref. to Note 2)	
GLAND BOLT	Alloy Steel	
KEY		
ADJUSTING NUT		
BEVEL GEAR	Carbon Steel	
PINION		
THRUST BALL BEARING	Steel	
PACKING	Graphite with Stainless Wire	
SEAL RING	Soft Steel (Ref. to Note 2)	
STEM CAP	Carbon Steel	
WASHER	Stainless Steel	
PIN	Alloy Steel	
GEAR CASE	Carbon Steel	
RETAINER	Stainless Steel Type 403	
BONNET CLAMP	Carbon Steel	
BOLT CLAMP		
STUD BOLT	Alloy Steel	
ADAPTER RING	Stainless Steel Type 403	
NUT	Carbon Steel	

Note 1
Materials are of higher grade material than those used in valve body. Seat faces are stellite.

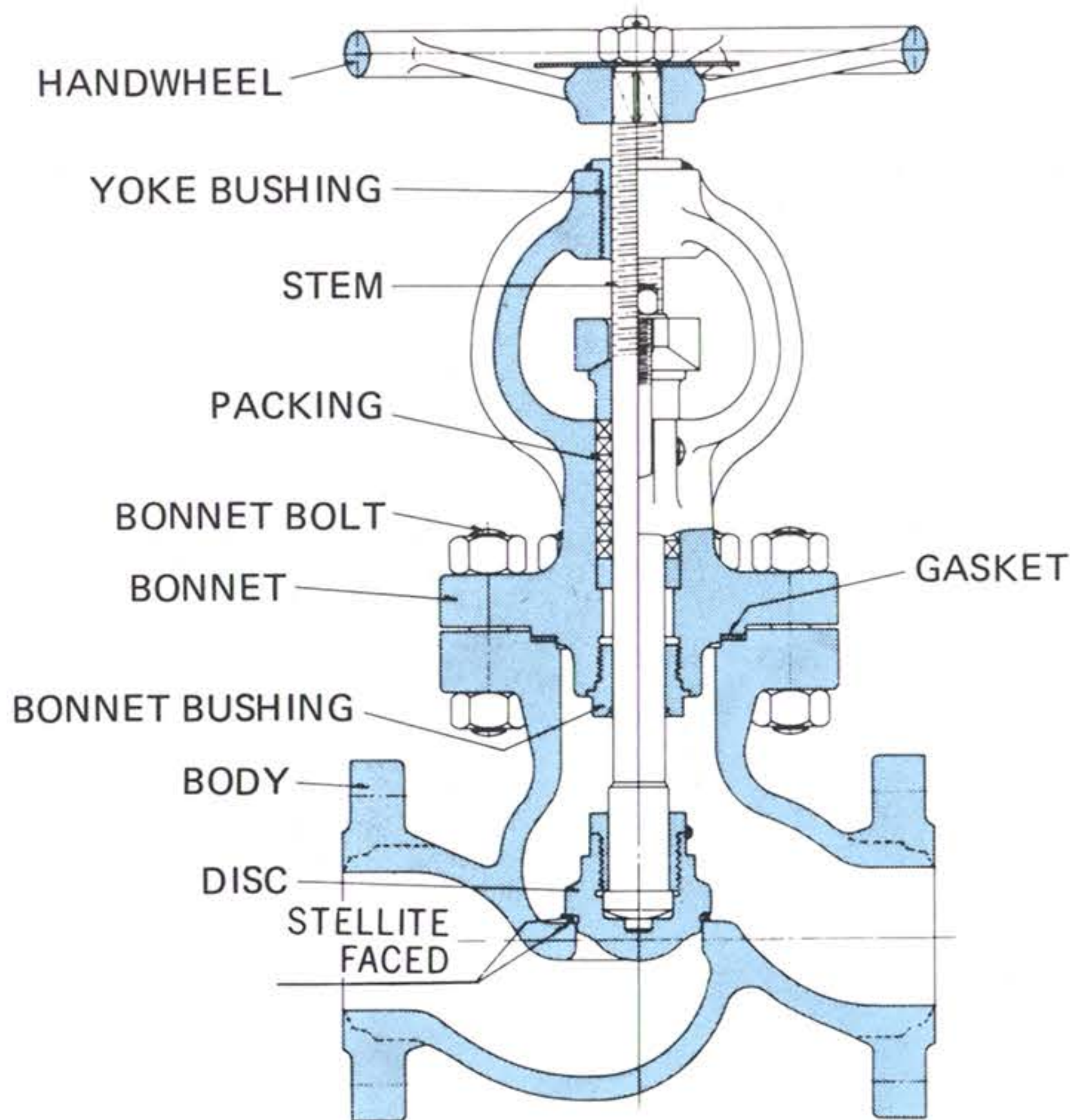
Note 2
Materials will be used which will meet or exceed the service conditions.

Note 3
Bonnet is of better forged material than used in valve body.

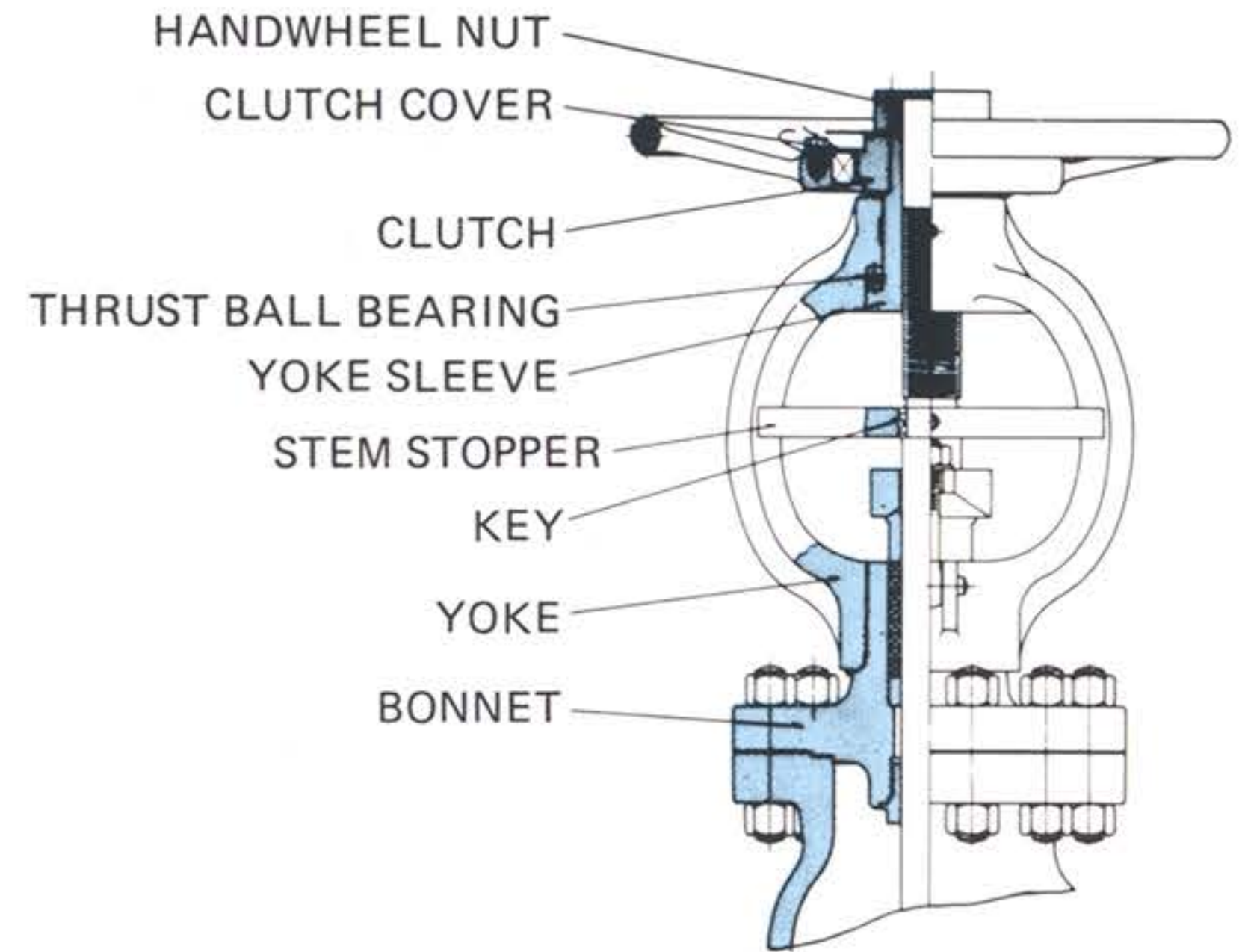
UTE CAST STEEL GLOBE VALVE BOLTED BONNET TYPE



CLASS 150~400



CLASS 600·900
3 INCH OR UNDER



CLASS 600·900
4 INCH OR OVER

STANDARD MATERIALS IN USE

NAME OF PART	MATERIAL	
BODY	1, 2, 3, 4, 5, 6	7, 8
BONNET	(See Page 1, 1-2)	(See Page 1, 1-2)
DISC	Ref. to Note 1	
YOKE	Carbon Cast Steel	
HANDWHEEL	Malleable Iron – Outside Dia 17-3/4 In or Under	
	Cast Iron – Outside Dia 19-3/4 In or Over	
STEM	Stainless Steel Type 403 or 416	Stainless Steel Type 630
DISC NUT	Stainless Steel Type 416	Austenite Stainless Steel
BONNET BUSHING		
PACKING STOP RING		
GLAND RING	Stainless Steel Type 416 Dia of the stem 1-1/4 In or Under	
YOKE BUSHING (SLEEVE)	High-tension Brass	
GLAND FLANGE	Carbon Steel or Malleable Iron	
BONNET BOLT	Alloy Steel (Ref. to Note 2)	
GLAND BOLT	Carbon Steel or Stainless Steel	
STEM PAD	Alloy Steel	
STEM STOPPER	Carbon Steel	
PIN	Carbon Steel or Stainless Steel	
HANDWHEEL NUT	Carbon Steel	
CLUTCH		
CLUTCH COVER		
KEY		
THRUST BALL BEARING	Steel	
PACKING	Graphite with Stainless Wire	
GASKET	Graphite · Stainless Hoop	

Note 1
Materials are of higher grade material than those used in valve body. Seat faces are stellite.

Note 2
Materials will be used which will meet or exceed the service conditions.

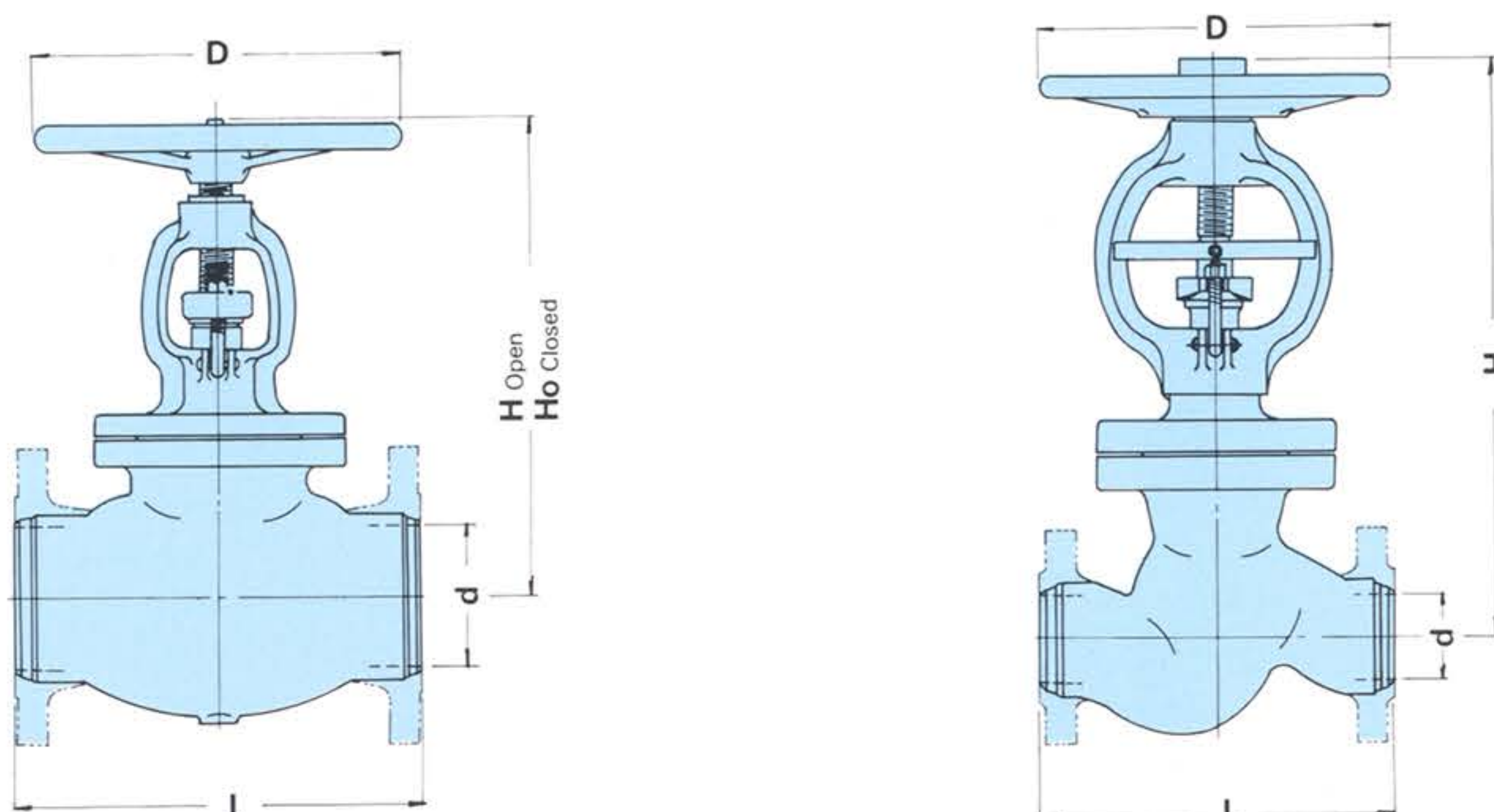


TABLE OF DIMENSION

DIMENSIONS IN INCHES (mm)
WEIGHT IN POUNDS (kg)

150 CLASS

TYPE NO.	U 132002	U 132003	U 132004	U 132005	U 132006	U 132008	U 132010	U 132012	U 132014	
VALVE-SIZE	2-1/2	3	4	5	6	8	10	12	14	
d BORE	2-1/2 (64)	3 (76)	4 (102)	5 (127)	6 (152)	8 (203)	10 (254)	12 (305)	13-1/2 (337)	
L FACE TO FACE END TO END	8-1/2 (216)	9-1/2 (241)	11-1/2 (292)	14 (356)	16 (406)	19-1/2 (495)	24-1/2 (622)	27-1/2 (698)	31 (787)	
H OPEN	13-3/8 (341)	13-5/8 (346)	15-1/2 (393)	18-7/8 (478)	21-1/4 (539)	23-5/8 (600)	29-5/8 (753)	34-1/4 (871)	40-1/4 (1021)	
Ho CLOSED	12-3/8 (315)	12-1/2 (317)	14 (355)	17-1/8 (435)	19-3/16 (488)	21-1/8 (536)	26-3/16 (665)	30-5/8 (777)	35-1/2 (901)	
D HANDWHEEL	7-7/8 (200)	8-7/8 (225)	9-7/8 (250)	11-13/16 (300)	13-3/4 (350)	15-3/4 (400)	15-3/4 (400)	19-11/16 (500)	22-1/16 (560)	
WEIGHT	FLANGED	55 (25)	70 (32)	103 (47)	149 (68)	209 (95)	319 (145)	670 (305)	890 (404)	1365 (620)
	BW ENDS	44 (20)	53 (24)	77 (35)	127 (58)	176 (80)	264 (120)	590 (268)	770 (350)	1210 (550)

300 CLASS

TYPE NO.	U 133002	U 133003	U 133004	U 133005	U 133006	U 133008	U 133010	U 133012	U 133014	
VALVE-SIZE	2-1/2	3	4	5	6	8	10	12	14	
d BORE	2-1/2 (64)	3 (76)	4 (102)	5 (127)	6 (152)	8 (203)	10 (254)	12 (305)	13-3/16 (335)	
L FACE TO FACE END TO END	11-1/2 (292)	12-1/2 (318)	14 (356)	15-3/4 (400)	17-1/2 (444)	22 (559)	24-1/2 (622)	28 (711)	31 (787)	
H OPEN	13-3/8 (341)	13-5/8 (346)	15-1/2 (393)	21 (533)	22-7/8 (580)	26-1/2 (673)	35-3/8 (898)	37-3/4 (959)	44-1/8 (1120)	
Ho CLOSED	12-3/8 (315)	12-1/2 (317)	14 (355)	19-1/4 (490)	20-13/16 (529)	24 (609)	32-1/16 (817)	34-1/16 (865)	40 (1016)	
D HANDWHEEL	7-7/8 (200)	8-7/8 (225)	9-7/8 (250)	13-3/4 (350)	17-3/4 (450)	19-11/16 (500)	22-1/16 (560)	24-13/16 (630)	24-13/16 (630)	
WEIGHT	FLANGED	66 (30)	77 (35)	123 (56)	211 (96)	264 (120)	480 (218)	924 (420)	1210 (550)	1694 (770)
	BW ENDS	48 (22)	53 (24)	88 (40)	152 (67)	198 (90)	370 (168)	770 (350)	990 (450)	1380 (630)

400 CLASS

TYPE NO.	U 134002	U 134003	U 134004	U 134005	U 134006	U 134008	U 134010	U 134012	
VALVE-SIZE	2-1/2	3	4	5	6	8	10	12	
d BORE	2-1/2 (64)	3 (76)	4 (102)	5 (127)	6 (152)	8 (203)	10 (254)	11-1/2 (292)	
L FACE TO FACE, END TO END	13 (330)	14 (356)	16 (406)	18 (457)	19-1/2 (495)	23-1/2 (597)	26-1/2 (673)	30 (762)	
H OPEN	16-1/4 (412)	17 (431)	19-3/8 (492)	23-1/2 (598)	25-1/2 (649)	26-1/2 (673)	35-3/8 (898)	49-1/2 (1257)	
Ho CLOSED	15 (380)	15-5/8 (396)	17-11/16 (449)	21-1/2 (546)	23 (584)	24 (609)	32-1/16 (817)	46 (1168)	
D HANDWHEEL	9-7/8 (250)	11-13/16 (300)	13-3/4 (350)	15-3/4 (400)	17-3/4 (450)	19-11/16 (500)	22-1/16 (560)	24-13/16 (630)	
WEIGHT	FLANGED	103 (47)	143 (65)	236 (107)	290 (132)	422 (192)	681 (310)	1005 (456)	1584 (720)
	BW ENDS	77 (35)	108 (49)	183 (83)	224 (102)	330 (150)	540 (247)	803 (365)	1294 (588)

600 CLASS

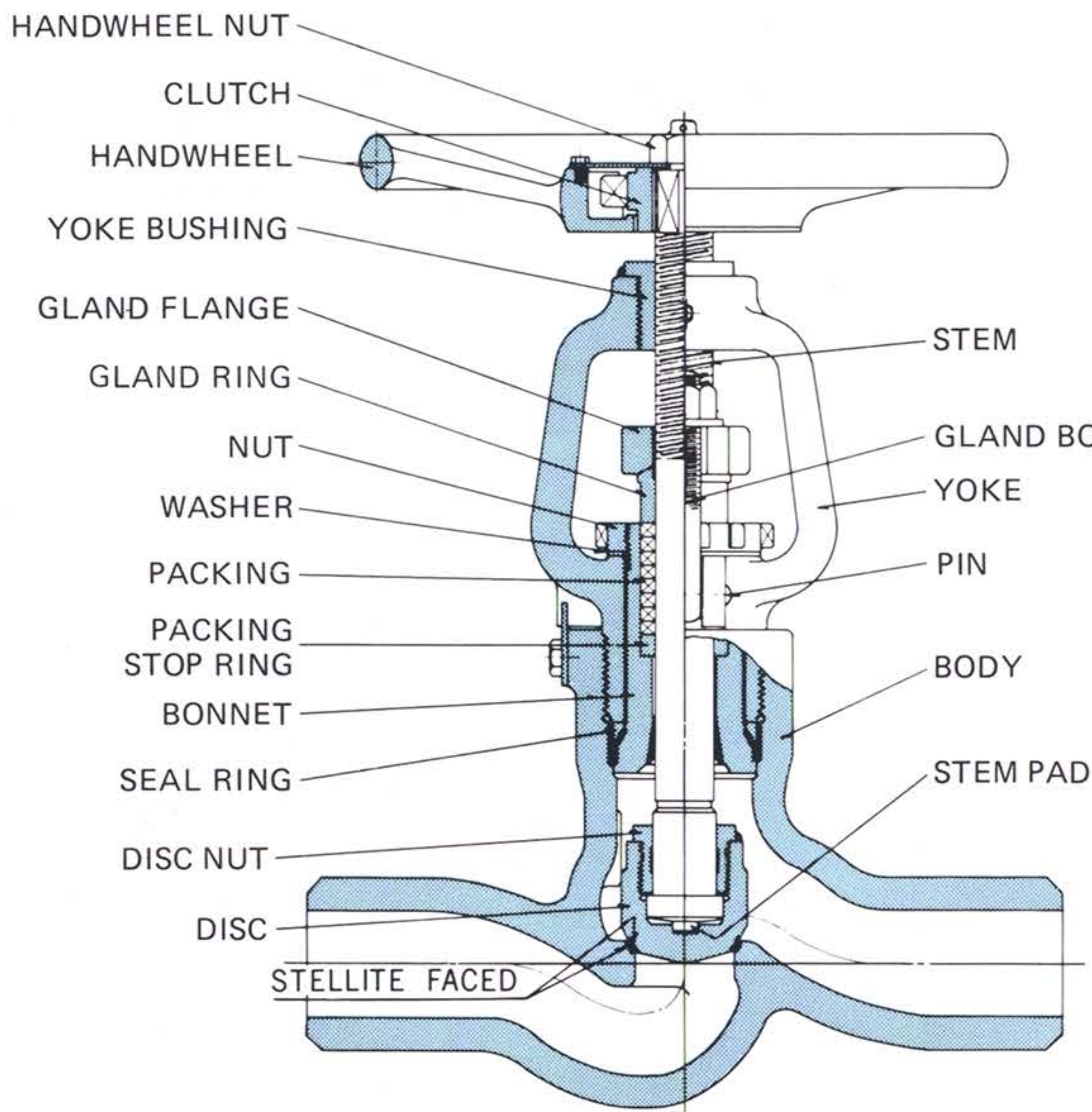
TYPE NO.	U 135002	U 135003	U 135004	U 135005	U 135006	U 135008	U 135010	U 135012	
VALVE-SIZE	2-1/2	3	4	5	6	8	10	12	
d BORE	2-1/2 (64)	3 (76)	4 (102)	5 (127)	6 (152)	7-7/8 (200)	9-5/8 (245)	11-7/16 (290)	
L FACE TO FACE END TO END	13 (330)	14 (356)	17 (432)	20 (508)	22 (559)	26 (660)	31 (787)	33 (838)	
H OPEN	21-1/8 (536)	22-1/2 (571)	26 (660)	30-5/8 (779)	34-3/4 (882)	39-1/8 (995)	41-3/4 (1060)	54-1/2 (1383)	
Ho CLOSED	(499)	(530)	—	—	—	—	—	—	
D HANDWHEEL	11-13/16 (300)	13-3/4 (350)	15-3/4 (400)	19-11/16 (500)	22-1/16 (560)	24-13/16 (630)	28 (710)	30 (760)	
WEIGHT	FLANGED	163 (74)	204 (93)	352 (160)	550 (250)	693 (315)	1240 (564)	1973 (895)	2790 (1265)
	BW ENDS	132 (60)	167 (76)	286 (130)	429 (195)	550 (250)	1045 (475)	1599 (725)	2337 (1060)

900 CLASS

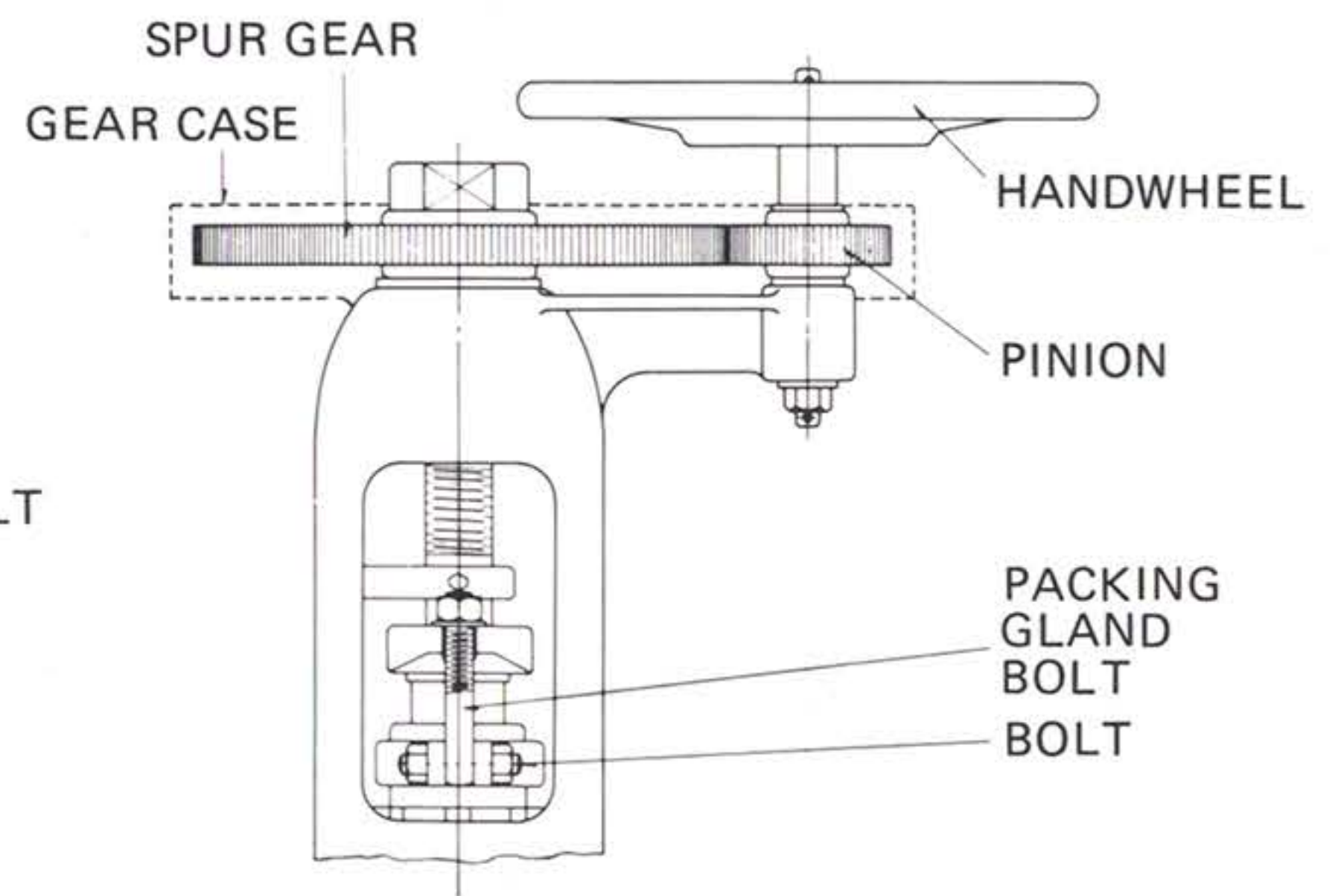
TYPE NO.	U 136102	U 136103	U 136104	U 136105	U 136106	U 136108	U 136110
VALVE-SIZE	2-1/2	3	4	5	6	8	10
d BORE	2-1/2 (62)	3 (73)	3-7/8 (97)	4-3/4 (120)	5-5/8 (143)	7-1/2 (190)	9-1/2 (240)
L FACE TO FACE END TO END	16-1/2 (419)	15 (381)	18 (457)	22 (559)	24 (610)	29 (737)	33 (838)
H OPEN	22-3/8 (569)	23-3/4 (604)	27-7/8 (708)	30-3/4 (780)	35 (890)	48-13/16 (1240)	65 (1651)
Ho CLOSED	20-7/8 (530)	22-1/8 (562)	—	—	—	—	—
D HANDWHEEL	12-5/8 (320)	14-1/8 (360)	17-3/4 (450)	22-1/16 (560)	24-13/16 (630)	28-3/8 (720)	30 (760)
WEIGHT (BW ENDS)	165 (75)	231 (105)	363 (165)	571 (260)	725 (330)	1521 (690)	2867 (1300)

Note: For data not shown in this table, accurate data will be included on the drawings submitted for approval.

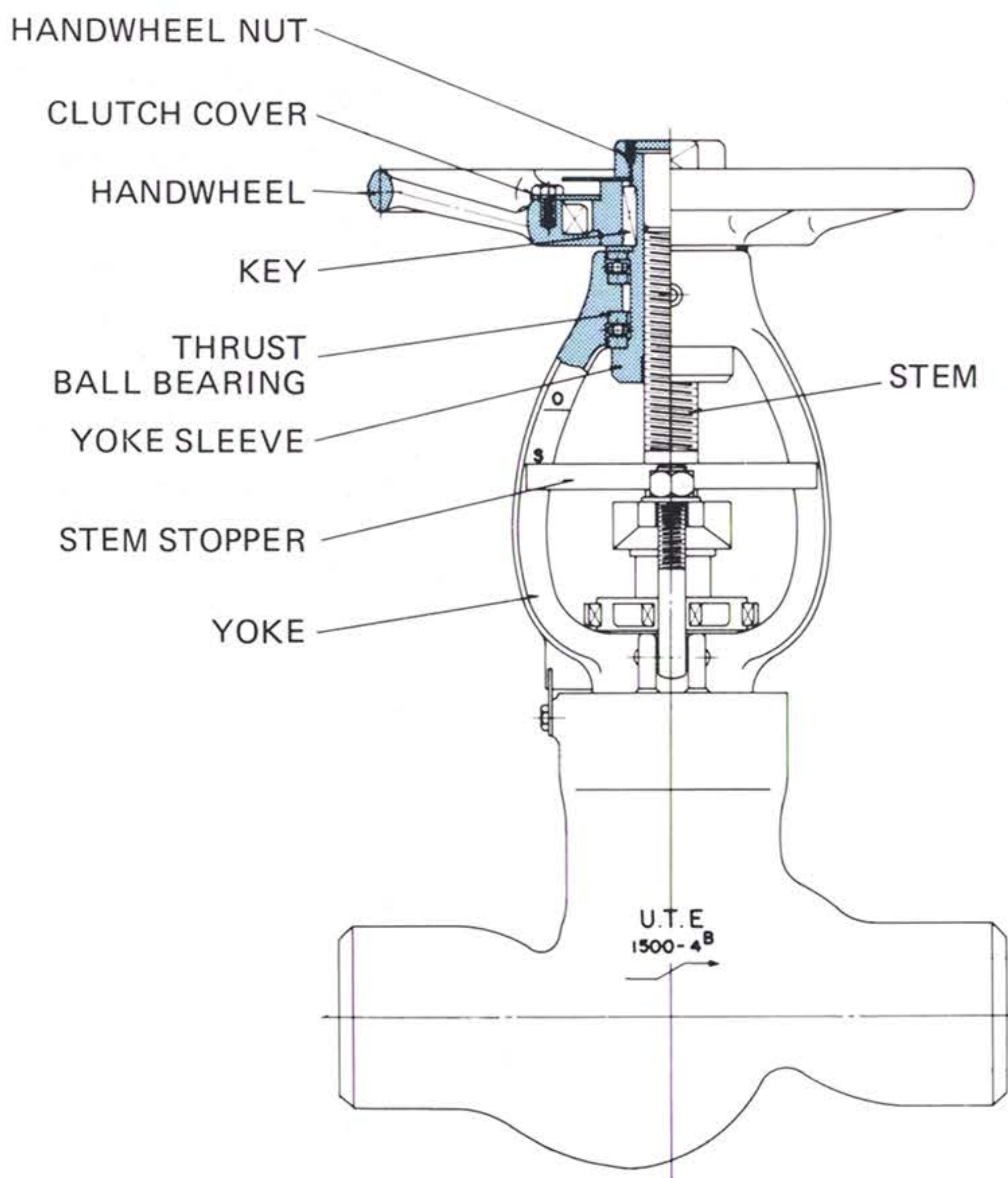
UTE CAST STEEL GLOBE VALVE PRESSURE SEAL BONNET TYPE



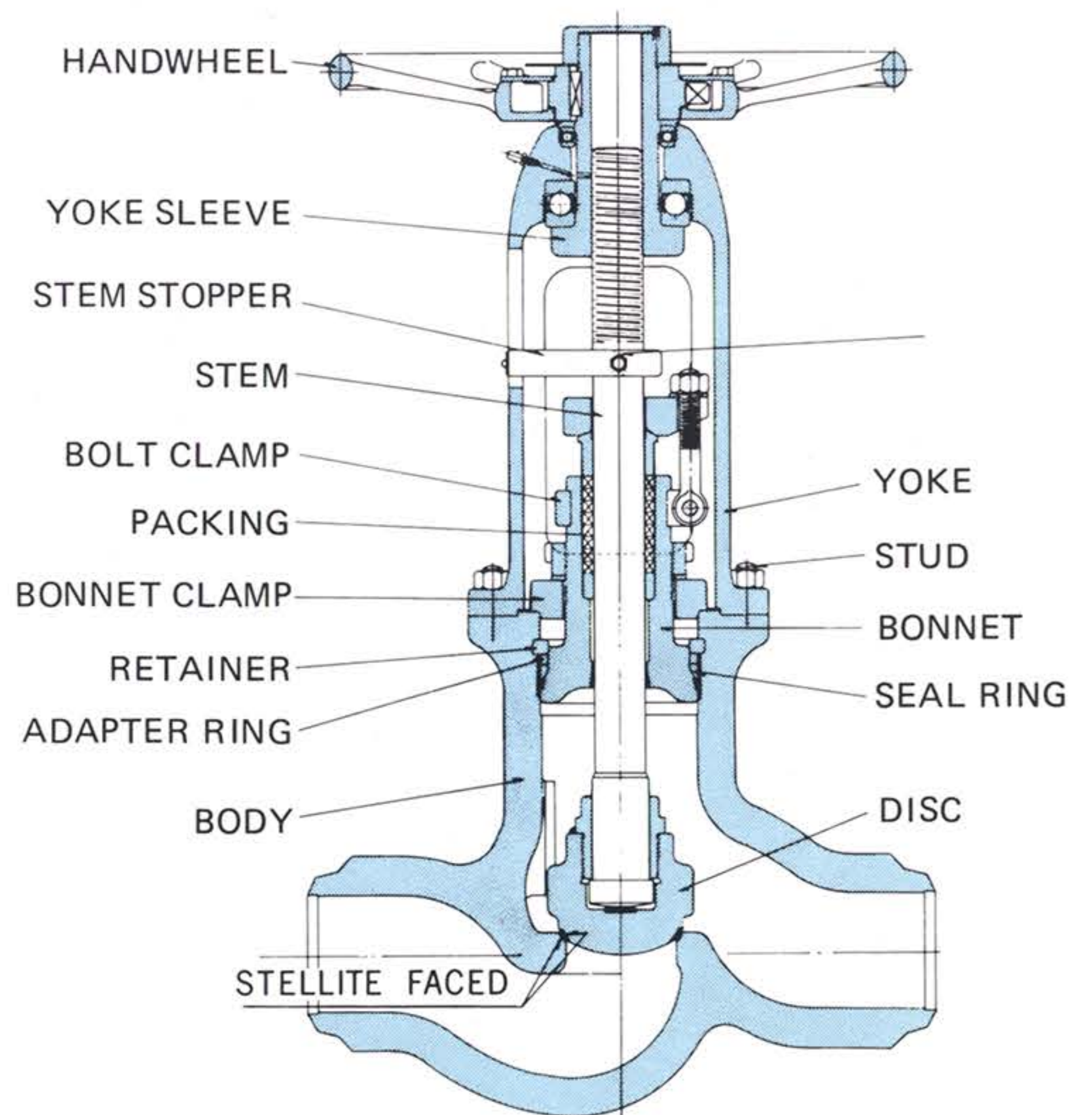
2 1/2 INCH & 3 INCH



GEARED OPERATION



4 INCH & 5 INCH



6 INCH OR OVER

STANDARD MATERIALS IN USE

NAME OF PART	MATERIAL	
BODY	1, 2, 3, 4, 5, 6 (See Page 1, 1-2)	7, 8 (See Page 1, 1-2)
BONNET (Ref. to Note 3)	Ref. to Note 1	
DISC	Carbon Cast Steel	
YOKE	Carbon Cast Steel	
HANDWHEEL	Carbon Cast Steel	
STEM	Stainless Steel Type 403 or 416	Stainless Steel Type 630
DISC NUT	Stainless Steel Type 416	Austenite Stainless Steel
PACKING STOP RING		
GLAND RING	High-tension Brass	
YOKE BUSHING (SLEEVE)	Carbon Steel	
GLAND FLANGE	Alloy Steel	
STUD	Alloy Steel	
PACKING GLAND BOLT	Carbon Steel	
STEM PAD	Alloy Steel	
STEM STOPPER	Carbon Steel	
PIN	Alloy Steel	

NAME OF PART	MATERIAL
KEY	Carbon Steel
HANDWHEEL NUT	
CLUTCH	
CLUTCH COVER	Stainless Steel
WASHER	
SPUR GEAR	Carbon Steel
PINION	
THRUST BALL BEARING	Steel
PACKING	Graphite with Stainless Wire
SEAL RING	Soft Steel
GEAR CASE	Carbon Steel
RETAINER	Stainless Steel Type 403
BONNET CLAMP	Carbon Steel
BOLT CLAMP	
ADAPTER RING	Stainless Steel Type 403
NUT	Carbon Steel

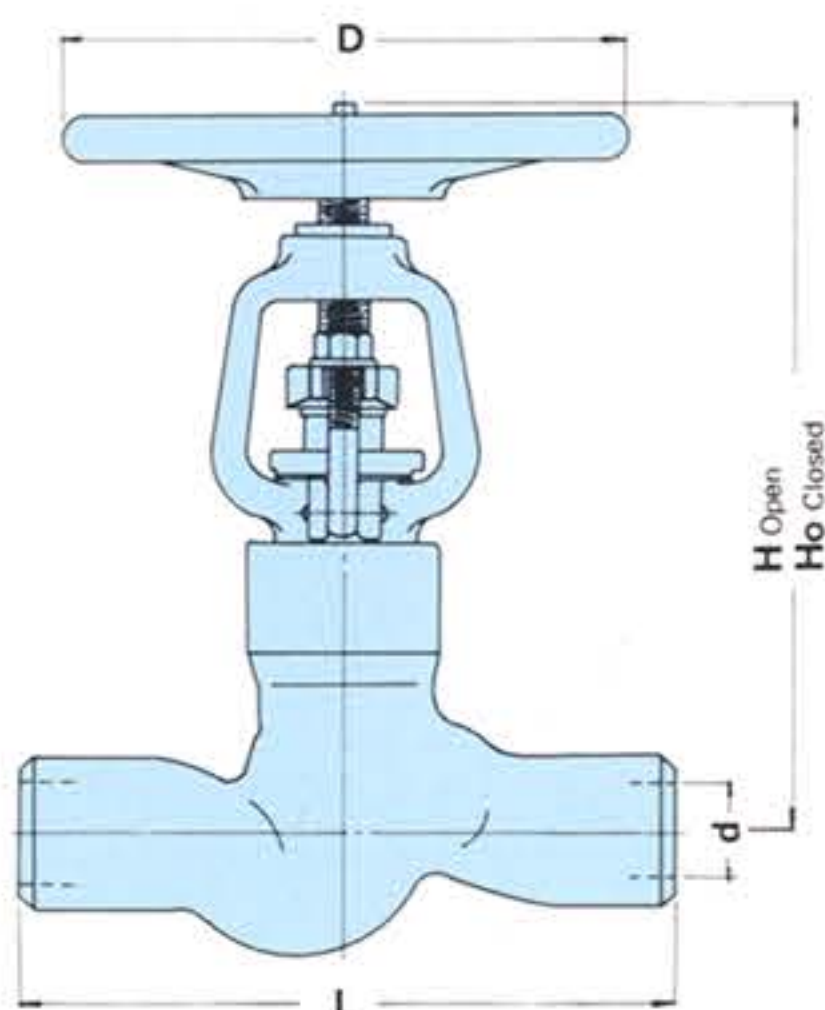
Note 1
Materials are of higher grade material than those used in valve body. Seat faces are stellite.

Note 2
Materials will be used which will meet or exceed the service conditions.

Note 3
Bonnet is of better forged material than used in valve body.

TABLE OF DIMENSION

DIMENSIONS IN INCHES (mm)
WEIGHT IN POUNDS (kg)



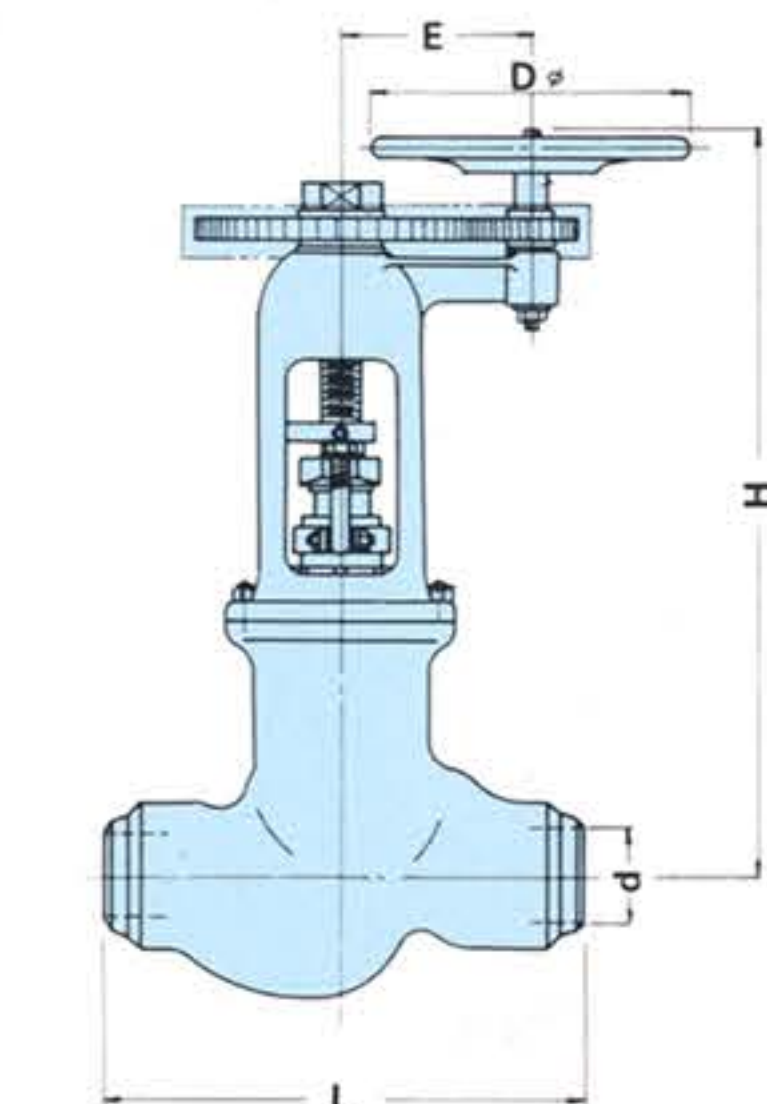
1500 CLASS

TYPE NO.	U 137102	U 137103	U 137104	U 137105	U 137106	U 137108
VALVE-SIZE	2-1/2	3	4	5	6	8
d BORE	2-1/4 (57)	2-5/8 (66)	3-7/16 (87)	4-1/4 (108)	5 (128)	6-7/8 (175)
L END TO END	16-1/2 (419)	18-1/2 (470)	21-1/2 (546)	26-1/2 (673)	27-3/4 (705)	32-3/4 (832)
H OPEN	19-1/2 (497)	23-3/8 (594)	27-1/2 (699)	33-1/2 (851)	38-3/4 (984)	49-1/4 (1251)
Ho CLOSED	18-1/8 (461)	21-3/4 (554)	—	—	—	—
E GEARED	—	—	—	—	—	10-3/8 (264)
D HANDWHEEL	15-3/4 (400)	17-3/4 (450)	19-11/16 (500)	22-1/16 (560)	24-13/16 (630)	22-1/16 (560)
WEIGHT	143 (65)	209 (95)	341 (155)	528 (240)	880 (400)	1410 (640)

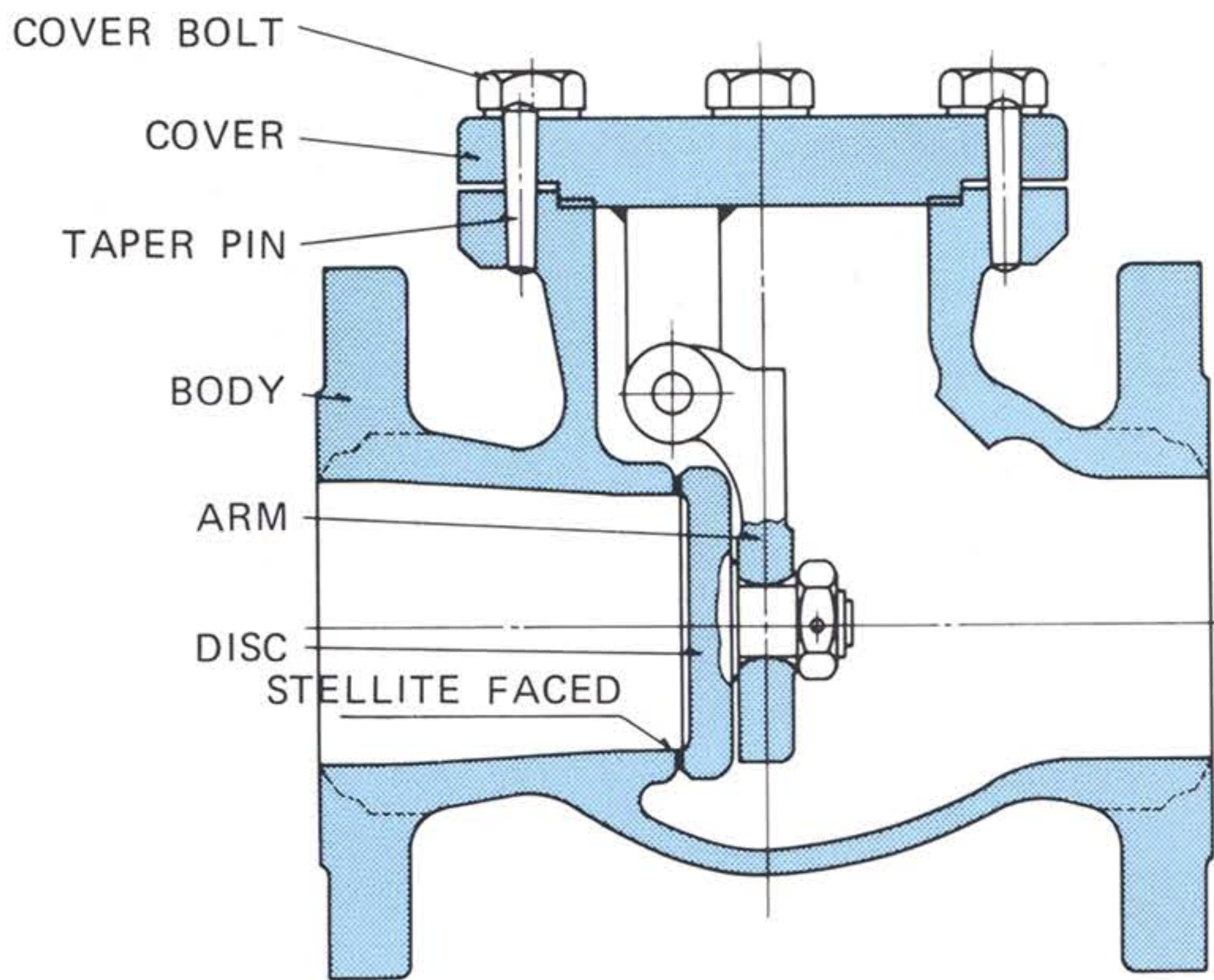
2500 CLASS

TYPE NO.	U 139102	U 139103	U 139104	U 139105	U 139106	U 139108
VALVE-SIZE	2-1/2	3	4	5	6	8
d BORE	1-3/4 (45)	2-1/4 (58)	3-1/8 (80)	4 (103)	4-7/8 (124)	5-7/8 (150)
L END TO END	20 (508)	22-3/4 (578)	26-1/2 (673)	31-1/4 (794)	36 (914)	35 (890)
H OPEN	20-5/8 (524)	23-5/8 (599)	30-1/2 (775)	35-3/8 (900)	45-1/4 (1150)	51-1/4 (1300)
Ho CLOSED	19-3/8 (492)	22 (559)	—	—	—	—
E GEARED	—	—	—	—	10-3/8 (264)	14-1/4 (360)
D HANDWHEEL	15-3/4 (400)	17-3/4 (450)	22-1/16 (560)	24-13/16 (630)	22-1/16 (560)	24-13/16 (630)
WEIGHT	180 (82)	260 (118)	508 (230)	880 (400)	1430 (650)	1100

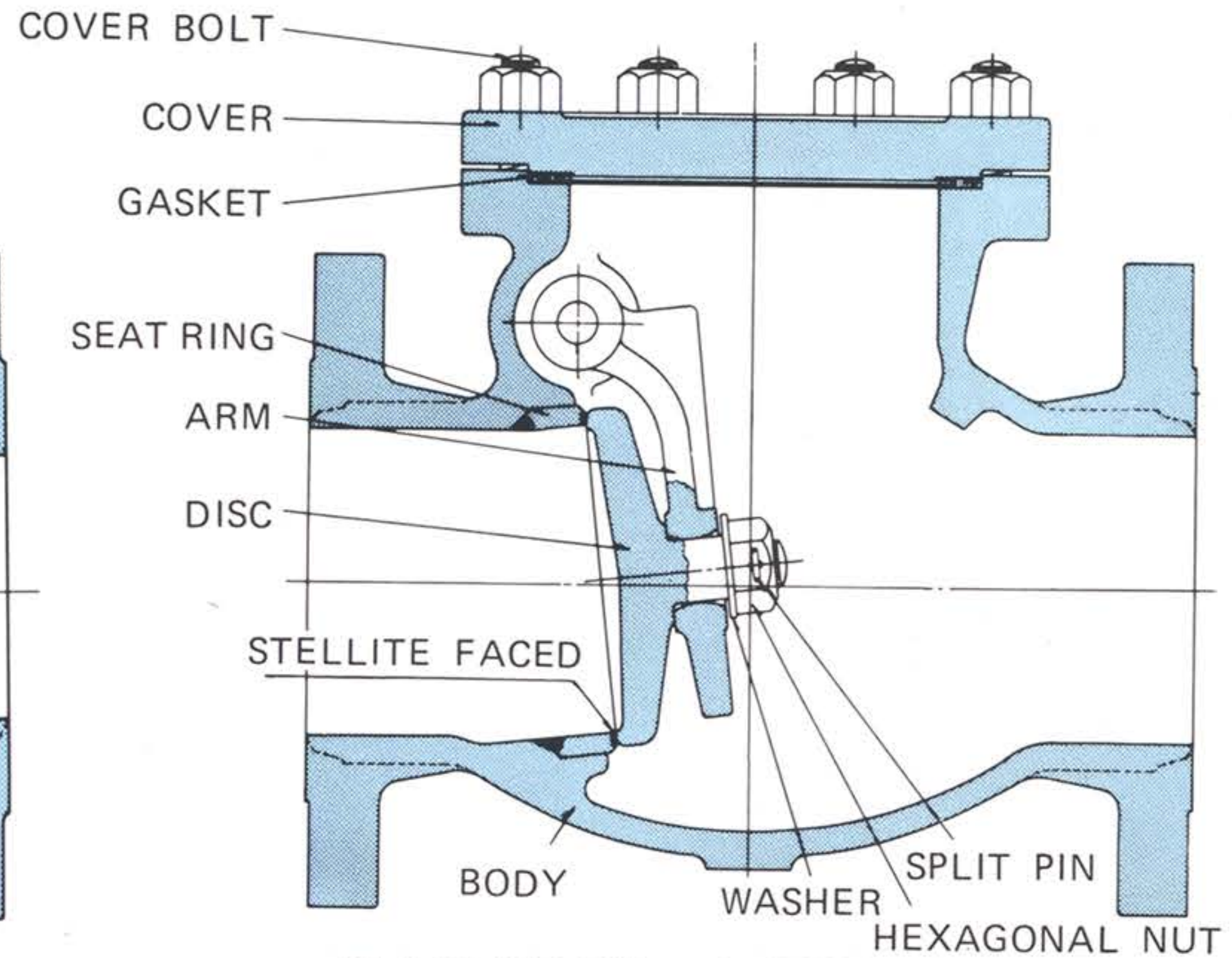
Note: For data not shown in this table, accurate data will be included on the drawings submitted for approval.



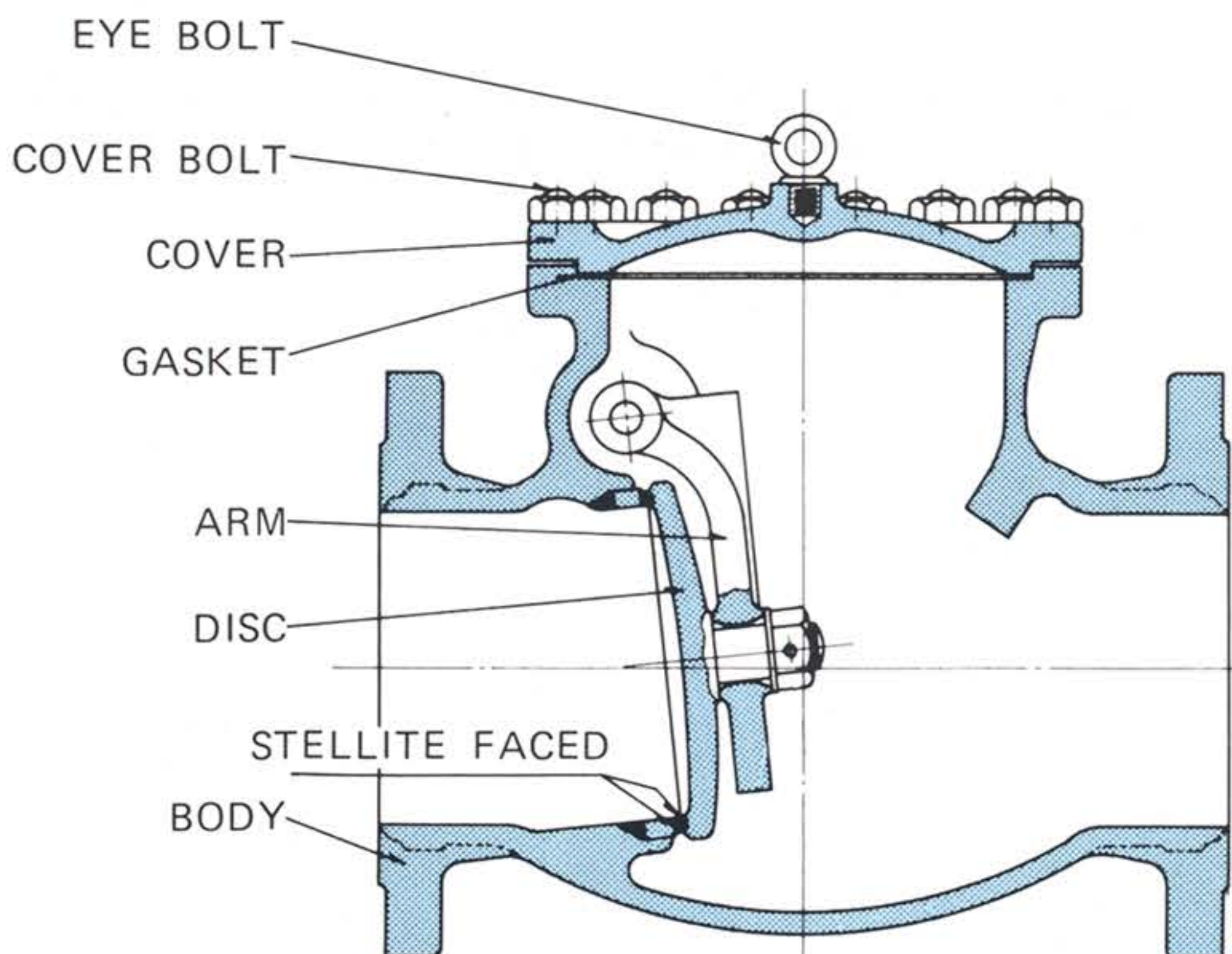
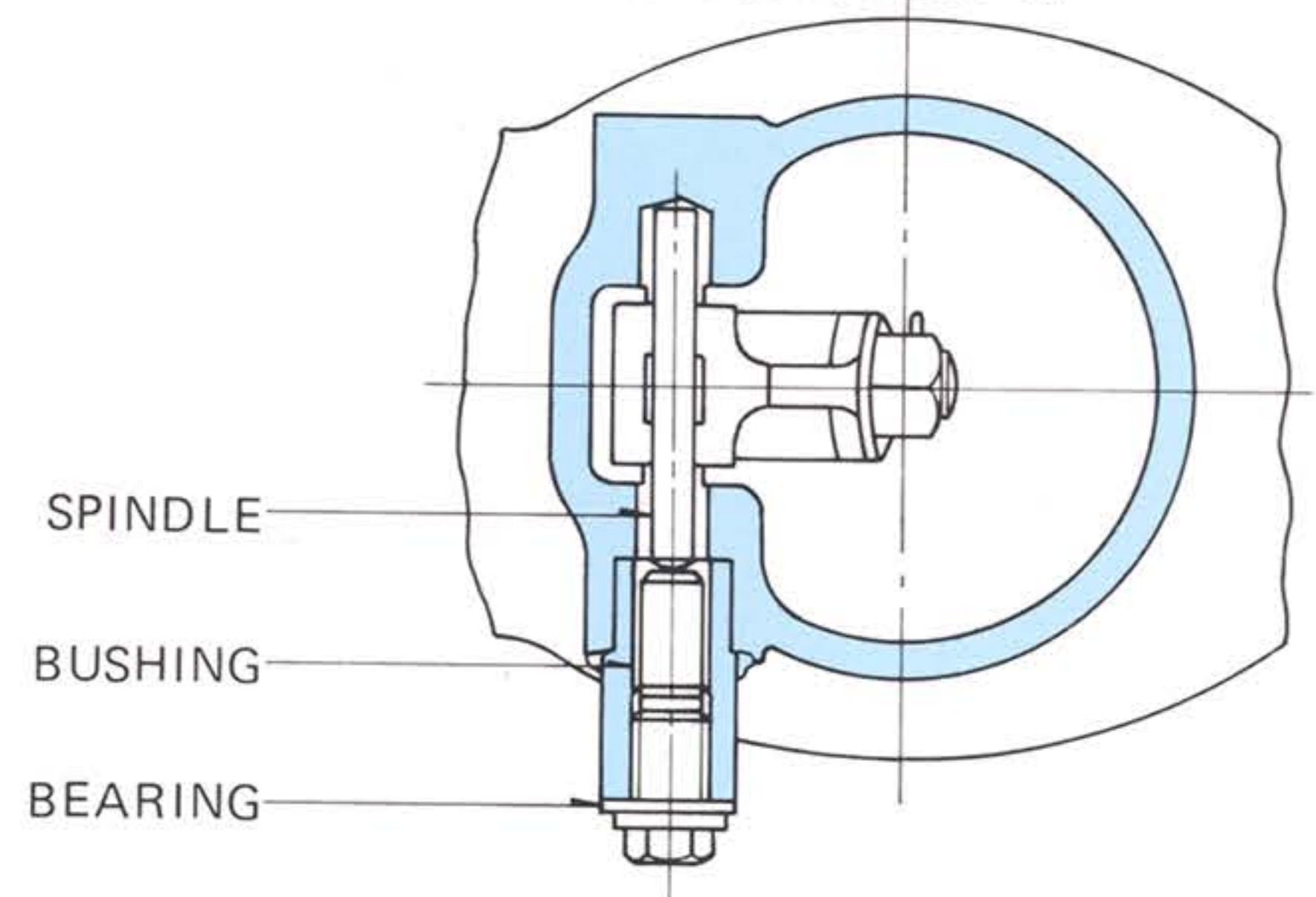
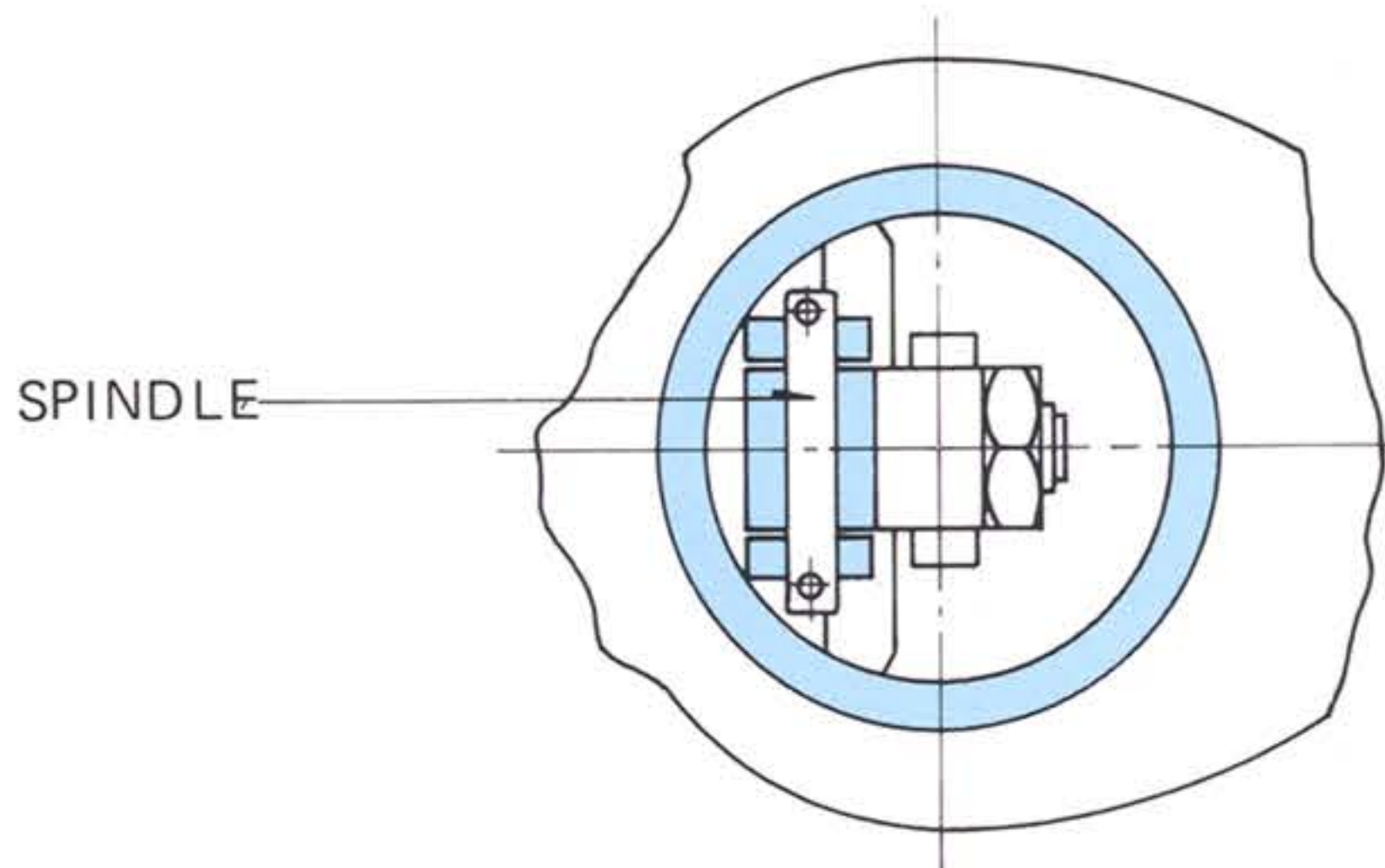
UTE CAST STEEL SWING CHECK VALVE BOLTED COVER TYPE



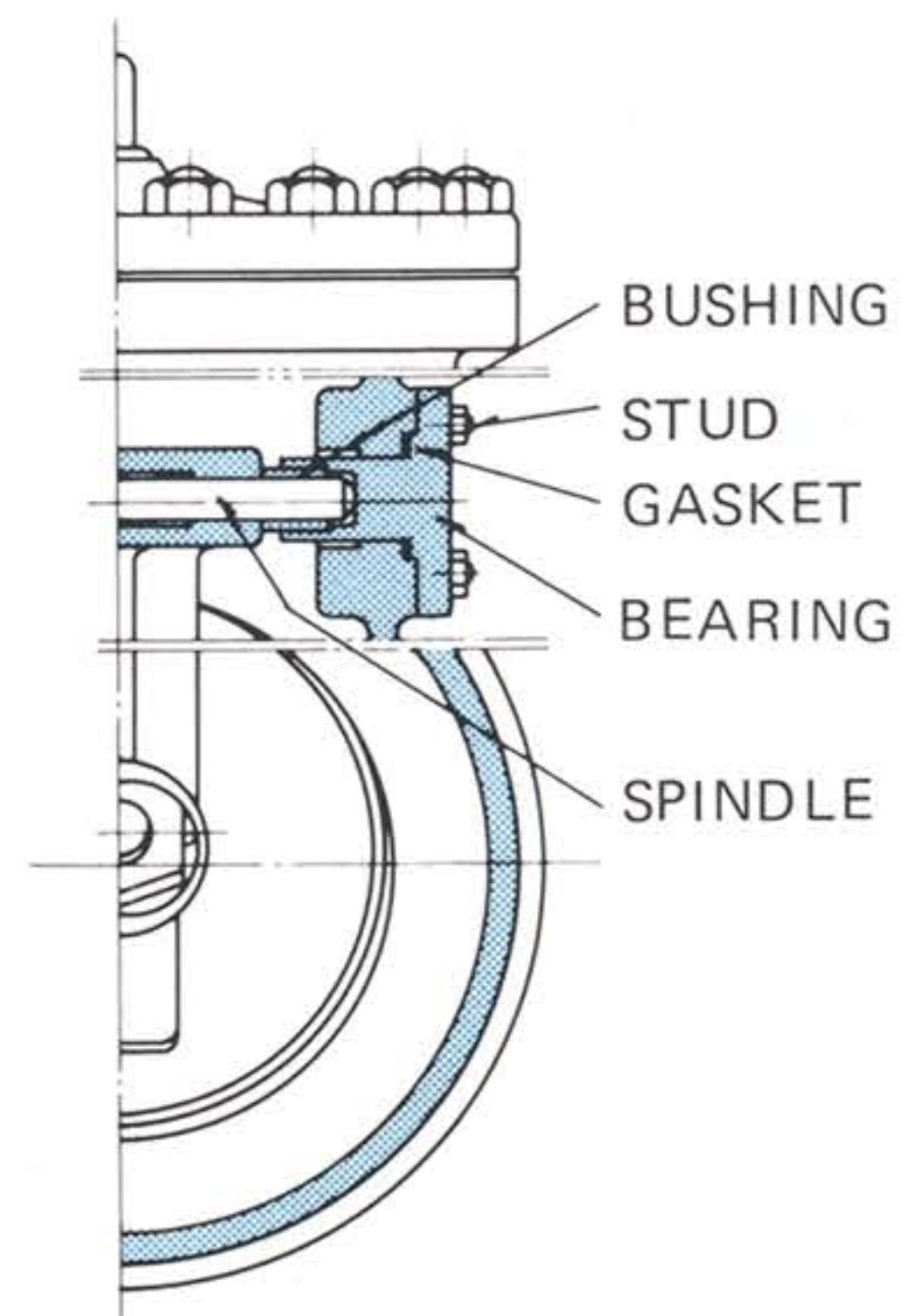
CLASS 150-300 – 4 INCH OR UNDER



CLASS 400-600 – 6 INCH OR UNDER
CLASS 150-300 – 5, 6 & 8 INCH
TYPE U2600 (See Note 4)

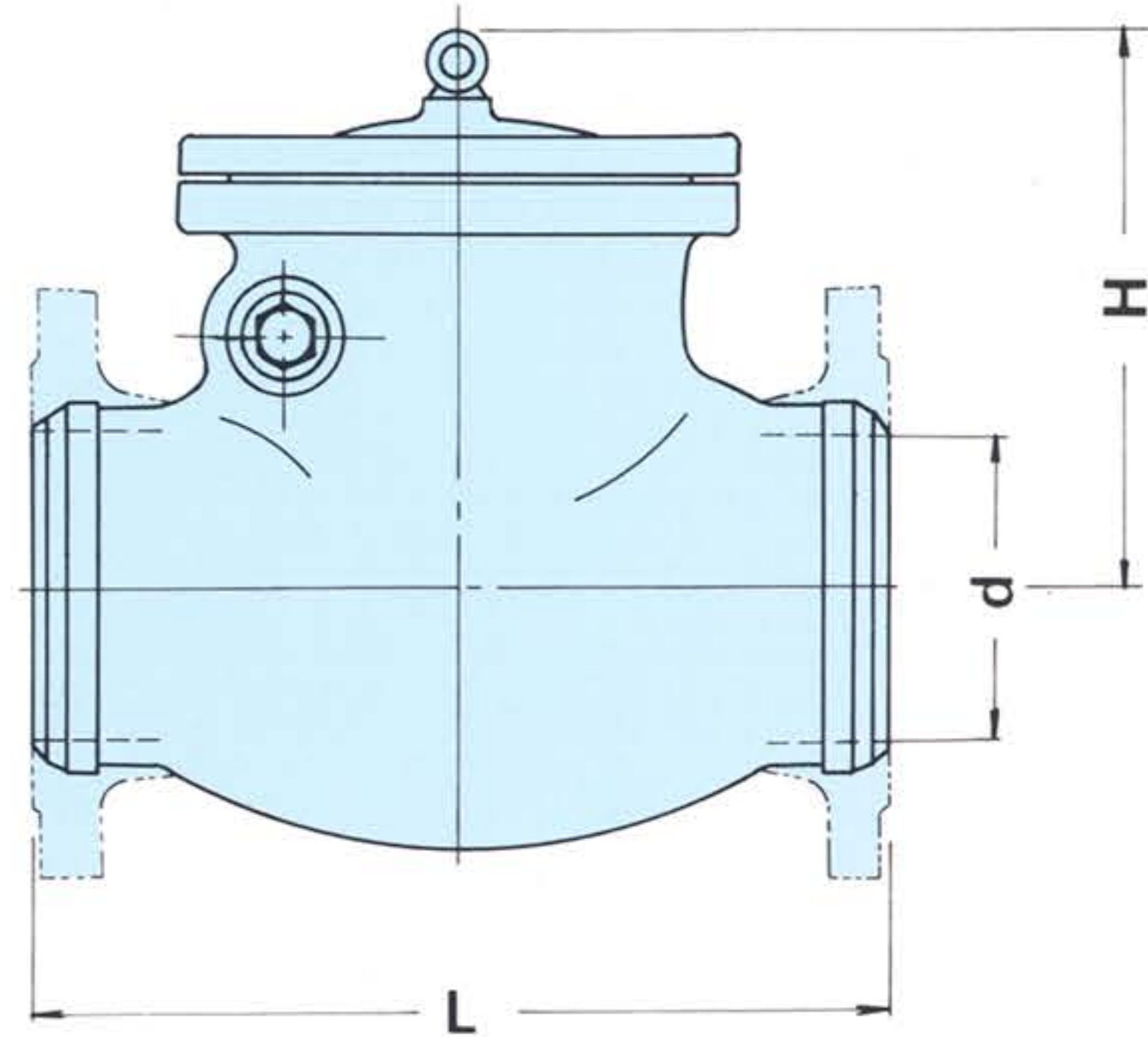


CLASS 150-300 – 10 INCH OR OVER
CLASS 400-600 – 8 INCH OR OVER



STANDARD MATERIALS IN USE

NAME OF PART	MATERIAL	
BODY		
COVER	1, 2, 3, 4, 5, 6 (See Page 1, 1-2)	7, 8 (See Page 1, 1-2)
ARM		
BEARING		
DISC	Ref. to Note 1	
SEAT RING		
SPINDLE	Stainless Steel Type 403 or 416	Stainless Steel Type 630
BUSHING	Stainless Steel Type 416	Austenite Stainless Steel
COVER BOLT	Alloy Steel (Ref. to Note 2)	
STUD		
EYE-BOLT	Carbon Steel	
TAPER PIN		
WASHER	Carbon Steel or Stainless Steel	
SPLIT PIN	Stainless Steel	
HEXAGONAL NUT	Carbon Steel or Alloy Steel	Austenite Stainless Steel
GASKET	Graphite • Stainless Hoop or Graphite Seet	



Note 1 Materials are of higher grade material than those used in valve body. Seat faces are stellited.

Note 2 Materials will be used which will meet or exceed the service conditions.

Note 3: Type U₁₆₀₀ stands for spindle arrangement fixed by the bearings from the both sides.

Note 4: Type U₂₆₀₀ stands for spindle arrangement fixed by the bearing from one side i.e. one end of spindle is blind.

TABLE OF DIMENSION

DIMENSIONS IN INCHES (mm)
WEIGHT IN POUNDS (kg)

150 CLASS

TYPE NO.	U 162002	U 162003	U 162004	U 262005	U 262006	U 262008	U 162010	U 162012	U 162014
VALVE-SIZE	2-1/2	3	4	5	6	8	10	12	14
d BORE	2-1/2 (64)	3 (76)	4 (102)	5 (127)	6 (152)	8 (203)	10 (254)	12 (305)	13-1/4 (337)
L FACE TO FACE, END TO END	8-1/2 (216)	9-1/2 (241)	11-1/2 (292)	13 (330)	14 (356)	19-1/2 (495)	24-1/2 (622)	27-1/2 (698)	31 (787)
H CENTER TO TOP	5-5/8 (143)	5-7/8 (148)	6-1/2 (165)	8-3/8 (212)	9-3/8 (239)	10-3/4 (274)	17-1/8 (437)	18 (457)	23-5/8 (600)
WEIGHT	FLANGED	44 (20)	55 (25)	79 (36)	121 (55)	187 (85)	308 (140)	517 (235)	726 (330)
	BW ENDS	33 (15)	37 (17)	53 (24)	97 (44)	154 (70)	253 (115)	440 (200)	603 (274)

300 CLASS

TYPE NO.	U 163002	U 163003	U 163004	U 263005	U 263006	U 263008	U 163010	U 163012	U 163014
VALVE-SIZE	2-1/2	3	4	5	6	8	10	12	14
d BORE	2-1/2 (64)	3 (76)	4 (102)	5 (127)	6 (152)	8 (203)	10 (254)	12 (305)	14 (337)
L FACE TO FACE, END TO END	11-1/2 (292)	12-1/2 (318)	14 (356)	15-3/4 (400)	17-1/2 (444)	21 (533)	24-1/2 (622)	28 (711)	31 (787)
H CENTER TO TOP	5-5/8 (143)	5-7/8 (148)	6-1/2 (165)	8-7/8 (226)	10-1/8 (256)	12 (305)	17-7/8 (455)	19-5/8 (498)	23-5/8 (600)
WEIGHT	FLANGED	53 (24)	66 (30)	99 (45)	191 (87)	253 (115)	473 (215)	760 (345)	1080 (490)
	BW ENDS	37 (17)	42 (19)	57 (26)	132 (60)	187 (85)	363 (165)	594 (270)	858 (390)

400 CLASS

TYPE NO.	U 264002	U 264003	U 264004	U 264005	U 264006	U 264008	U 164010	U 164012	U 164014
VALVE-SIZE	2-1/2	3	4	5	6	8	10	12	14
d BORE	2-1/2 (64)	3 (76)	4 (102)	5 (127)	6 (152)	8 (203)	10 (254)	12 (305)	13-1/8 (333)
L FACE TO FACE, END TO END	13-1/2 (330)	14-1/2 (356)	16 (406)	18 (457)	19-1/2 (495)	23-1/2 (597)	26-1/2 (673)	30 (762)	35 (889)
H CENTER TO TOP	5-7/8 (151)	6-7/8 (176)	7-3/8 (188)	8-7/8 (226)	10-1/8 (256)	12 (305)	17-7/8 (455)	24-9/16(624)	26-7/8 (682)
WEIGHT	FLANGED	81 (37)	103 (47)	150 (68)	209 (95)	306 (139)	521 (237)	816 (371)	1300 (590)
	BW ENDS	55 (25)	68 (31)	97 (44)	143 (65)	213 (97)	383 (174)	616 (280)	992 (450)

600 CLASS

TYPE NO.	U 265002	U 265003	U 265004	U 265005	U 265006	U 165008	U 165010	U 165012
VALVE-SIZE	2-1/2	3	4	5	6	8	10	12
d BORE	2-1/2 (64)	3 (76)	4 (102)	5 (127)	6 (152)	7-7/8 (200)	9-3/4 (248)	11-3/4 (299)
L FACE TO FACE, END TO END	13 (330)	14 (356)	17 (432)	20 (508)	22 (559)	26 (660)	31 (787)	33 (838)
H CENTER TO TOP	8-1/2 (215)	8-5/8 (220)	11 (280)	12-1/4 (312)	13-7/8 (354)	18-3/4 (477)	26-3/8 (671)	24-9/16 (624)
WEIGHT	FLANGED	115 (52)	154 (70)	273 (124)	419 (190)	539 (245)	902 (410)	1450 (660)
	BW ENDS	84 (38)	117 (53)	203 (94)	297 (135)	396 (180)	704 (320)	1100 (500)

Note: For data not shown in this table, accurate data will be included on the drawings submitted for approval.

WHEN YOU ORDER

When You Order

To efficiently process an order (or an inquiry), please let us know the following particulars.

1. UTE type No., or type of valve
2. Quantity
3. Service pressure and temperature
4. End connections
5. Material of major parts

It is also highly desirable, when other than standard conditions exist, that a full description of the working conditions be supplied; nature of fluid to be handled, and whether any unusual conditions of corrosion, shock or abrasion are likely to be present.

Guarantee

UTE guarantees its products for one year from date of shipment against defects in material and workmanship if the products are used as recommended and in accordance with the approved installation and operating practice. Prompt written notice of defects is required. UTE shall not be liable for damage resulting from improper storage, improper handling, or improper installation.

Terms and Condition of Sales

Quotations shall be made by UTE's head office or the local agents. All quotations, contracts, agreements and orders are subject to confirmation and approval of UTE head office.

Prices are subject to increase, without notice, in case of taxes, duties and tariffs levied on sales transactions. Also prices are subject to increase in case the production costs should substantially rise up to delivery date.

Delivery schedules are based upon conditions in effect at time of quotation. UTE assumes no responsibility for delays in delivery resulting from strikes, work stoppage, inability to obtain materials, fuels or transportation, government edict or any other cause unavoidable or beyond its control.

Orders are not subject to cancellation, change in specifications, shipping schedule, or conditions originally agreed upon without reimbursement for all consequential losses suffered or incurred by UTE.

Dies, tools and patterns necessary to manufacture the valves quoted upon shall not be the property of valve purchaser.

DESIGN:

UTE reserves the right to make entire or partial design change without notice.

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