

SIZE	A	B	C	D	F	G	H	I	J	K	L	M	N	O	P
3	8.50	2.50	8.37	.38	11.50	10	.86	8	N/A	N/A	8.50	N/A	3.09	N/A	N/A
4	9.25	2.50	9.81	.41	13.81	13	.86	9	11	3.50	9.09	10.31	4.02	N/A	N/A
6	10.50	2.50	13	.44	15.25	19	1.00	10.50	12.38	3.50	10.75	11.46	6.06	N/A	N/A
8	11.50	2.50	15.62	.50	20.18	25	1.00	11.50	14	3.75	12.50	13.06	8.06	N/A	N/A
10	14.50	2.50	19.43	.63	25.50	32	1.18	13	14.38	3.88	13.75	14	10.09	N/A	N/A
12	15	2.50	21.12	.69	26.31	37	1.18	14	14.88	3.88	14.50	14.75	12.09	N/A	N/A
14	22	3.50	25.62	.84	35.37	50	1.50	22	N/A	N/A	22	N/A	14.18	N/A	N/A
16	22	3.50	25.62	.84	35.37	50	1.50	16	23	5	19	19 7/32	16.09	28.40	7.95
18**	19.25	3.50	34.25	.97	43.50	62	1.75	19.12	N/A	N/A	19.25	N/A	18.31	N/A	N/A
20**	18.50	3.50	34.25	.97	43.50	62	1.75	19.50	23	5	19	N/A	20.16	30	8.50
24**	28.25	3.50	43.75	1.08	49.50	74	2.00	21.56	30.65	5	24.88	N/A	24.12	38.38	9

**GEAR REDUCTION RECOMMENDED

6 OPERATING NUT:

1 11/16" SQ. TOP
1 3/4" SQ. BOTTOM

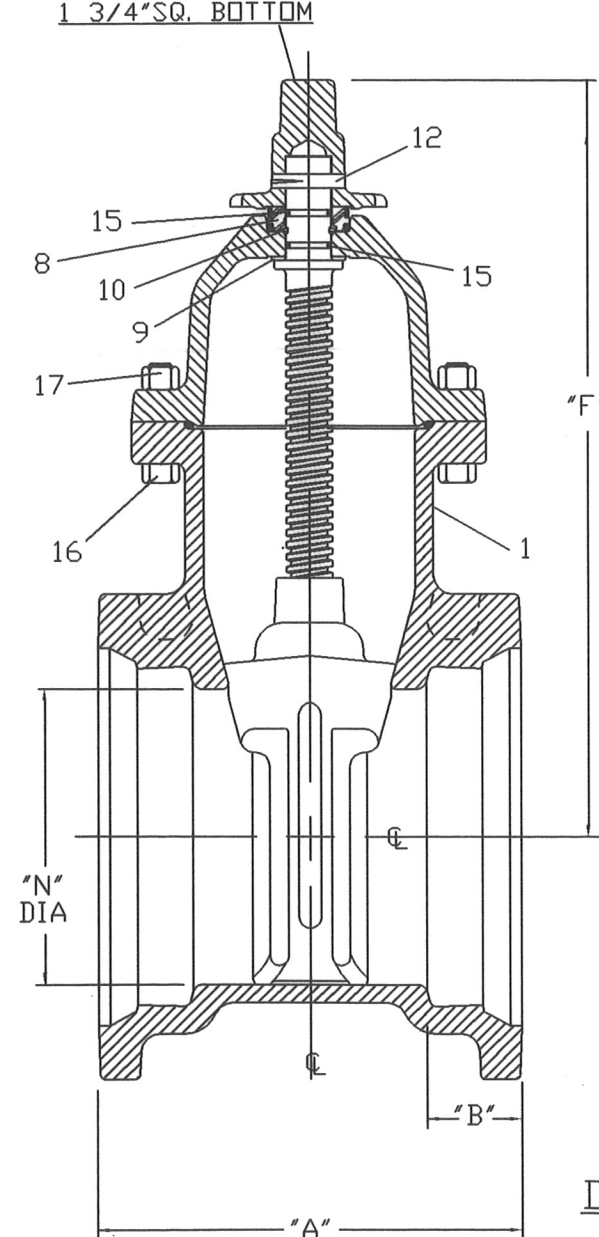


FIG. 5460
DOUBLE MECHANICAL JOINT
SEE NOTE "B", & "C"

G=NUMBER OF TURNS TO OPEN

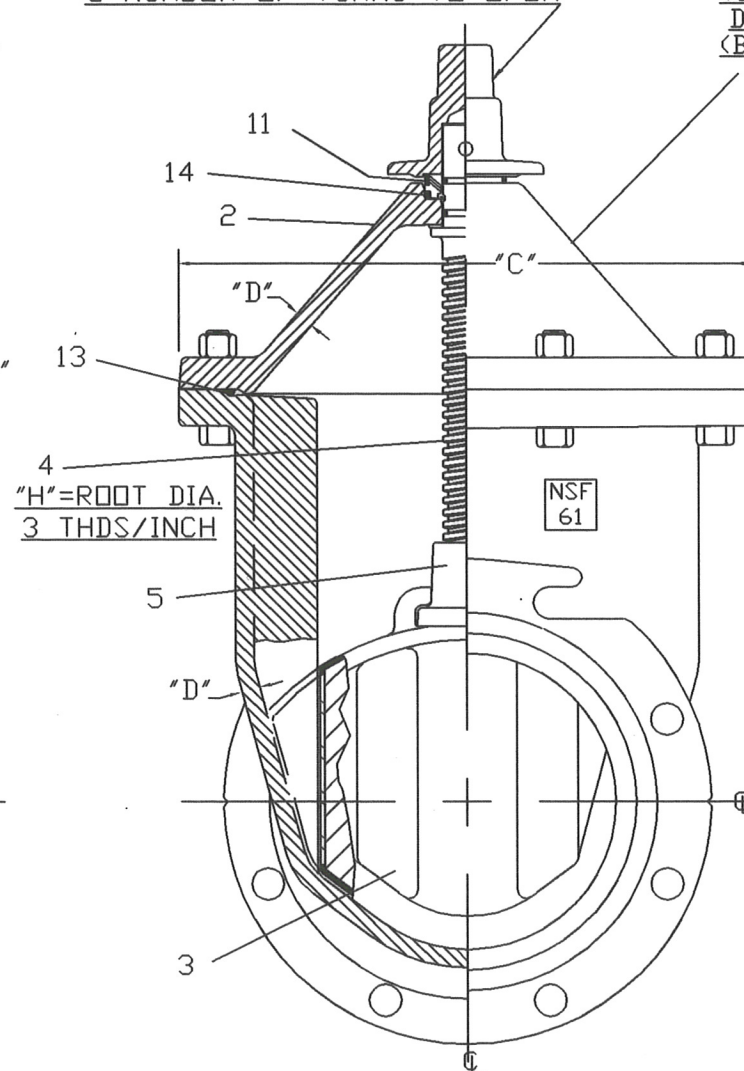


FIG. 5100
DOUBLE FLANGE
SEE NOTE "C"

CAST IN RAISED LETTERS
USP
YEAR
D.I.
(BODY OR BONNET)

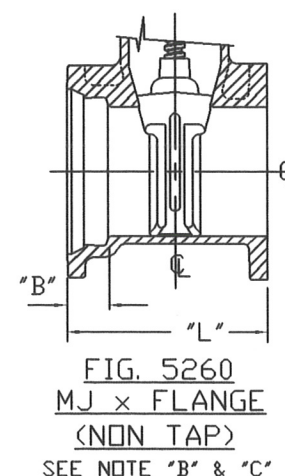


FIG. 5260
MJ x FLANGE
(NON TAP)
SEE NOTE "B" & "C"

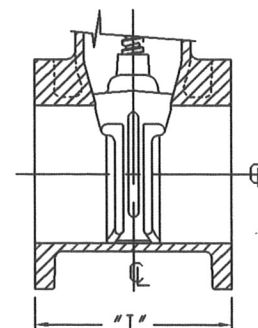


FIG. 5220
TYTON® x FLANGE
(NON TAP)
SEE NOTE "B" & "C"

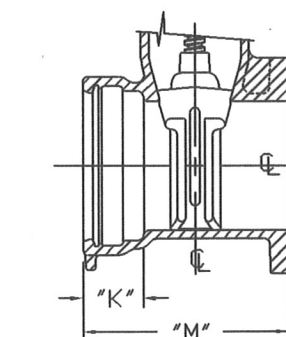


FIG. 5080
TYTON® ENDS W/LUGS
SEE NOTE "B"

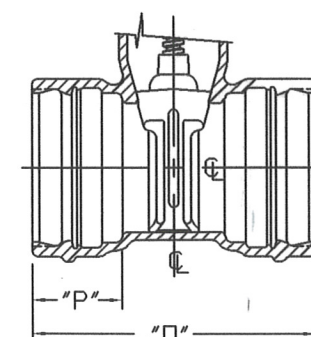


FIG. 5170
TR-FLEX® ENDS
SEE NOTE "B"

ITEM NO.	NAME OF PART	QTY. REQ'D	MATERIAL	SPECIFICATION
1	BODY	1	DUCTILE IRON	ASTM A536
2	BONNET	1	DUCTILE IRON	ASTM A536
3 *	GATE, RUBBER COVERED	1	DUCTILE IRON	ASTM A536
4 Δ	STEM (70T, 30Y)	1	MANG. BRONZE	ASTM B584 C865-MOD.
5	STEM NUT	1	BRONZE	ASTM B584 C836
6	OPERATING NUT	1	CAST IRON	ASTM A126 CL. B
8	CARTRIDGE	1	"DELIN"	DUPONT CO.
9	THRUST WASHER	1	"DELIN"	DUPONT CO.
10	RETAINER RING	1	"DELIN"	DUPONT CO.
11	DIRT SEAL	1	RUBBER	SBR ASTM D2000
12	PIN, "SHEARPROOF"	1	STEEL	ZINC PLATED ASTM B633
13	BONNET SEAL	1	RUBBER	NBR ASTM D2000
14	"O"RING (CARTRIDGE)	1	RUBBER	NBR ASTM D2000
15	"O"RING (STEM)	2	RUBBER	NBR ASTM D2000
16	BOLT, HEX HEAD		STN. STL.	ASTM A-276 (18-8)
17	NUT, HEX		STN. STL.	

* 3" GATE MATERIAL IS BRONZE ASTM B584 C836/8345
Δ 14-24 STEM MATERIAL ASTM B584 C86200

NOTE "A": BODY(1) AND BONNET(2) ARE COATED ON ALL SURFACES WITH PERMAFUSE® (FUSION BONDED EPOXY) IN COMPLIANCE WITH AWWA C550 ("HOLIDAY FREE" IF SPECIFIED ON ORDER)

NOTE "B": MECHANICAL JOINT, TR® FLEX, AND TYTON® ENDS PER ANSI/AWWA C111/A21.11

NOTE "C": FLANGES ARE CLASS 125 PER ANSI/AWWA C115/A21.15. USE ONLY U.S. PIPE'S FLANGETITE® GASKET, 1/8" THICK FULL FACE, OR RING GASKET PER ANSI/AWWA C110/A21.10

NOTE "D": 3"-16" VALVES RATED FOR 250 PSI WORKING AND 500 PSI TEST PRESSURE. STANDARD 18"-24" VALVES ARE RATED FOR 150 PSI WP AND 300 PSI TEST.

ALL VALVES ARE NSF-61 LISTED

DRAWN KLC	DATE 4/7/00	UNITED STATES PIPE AND FOUNDRY CO. CHATTANOOGA VALVE & FITTINGS VALVE & HYDRANT DEPARTMENT CHATTANOOGA, TENNESSEE 37408 3"-24" METROSEAL® 250 RESILIENT SEATED GATE VALVES PER ANSI/AWWA C509 VARIOUS ENDS SHOWN
CHECKED DJD	DATE 4/7/00	
APPROVED JJP	DATE 4-7-00	
REV. DATE		

MASS. WATER RESOURCE AUTHORITY DWG. NO. 860524