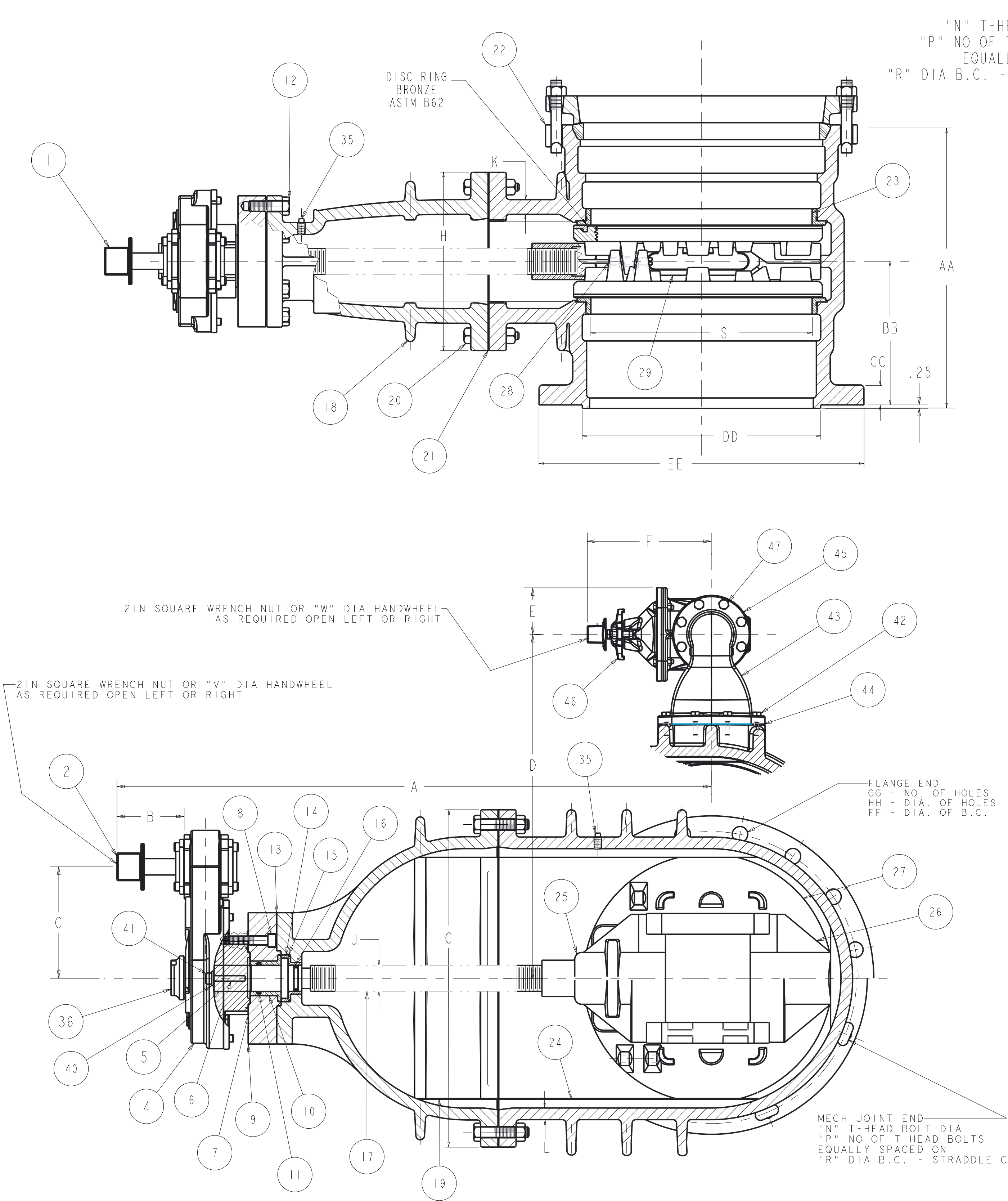
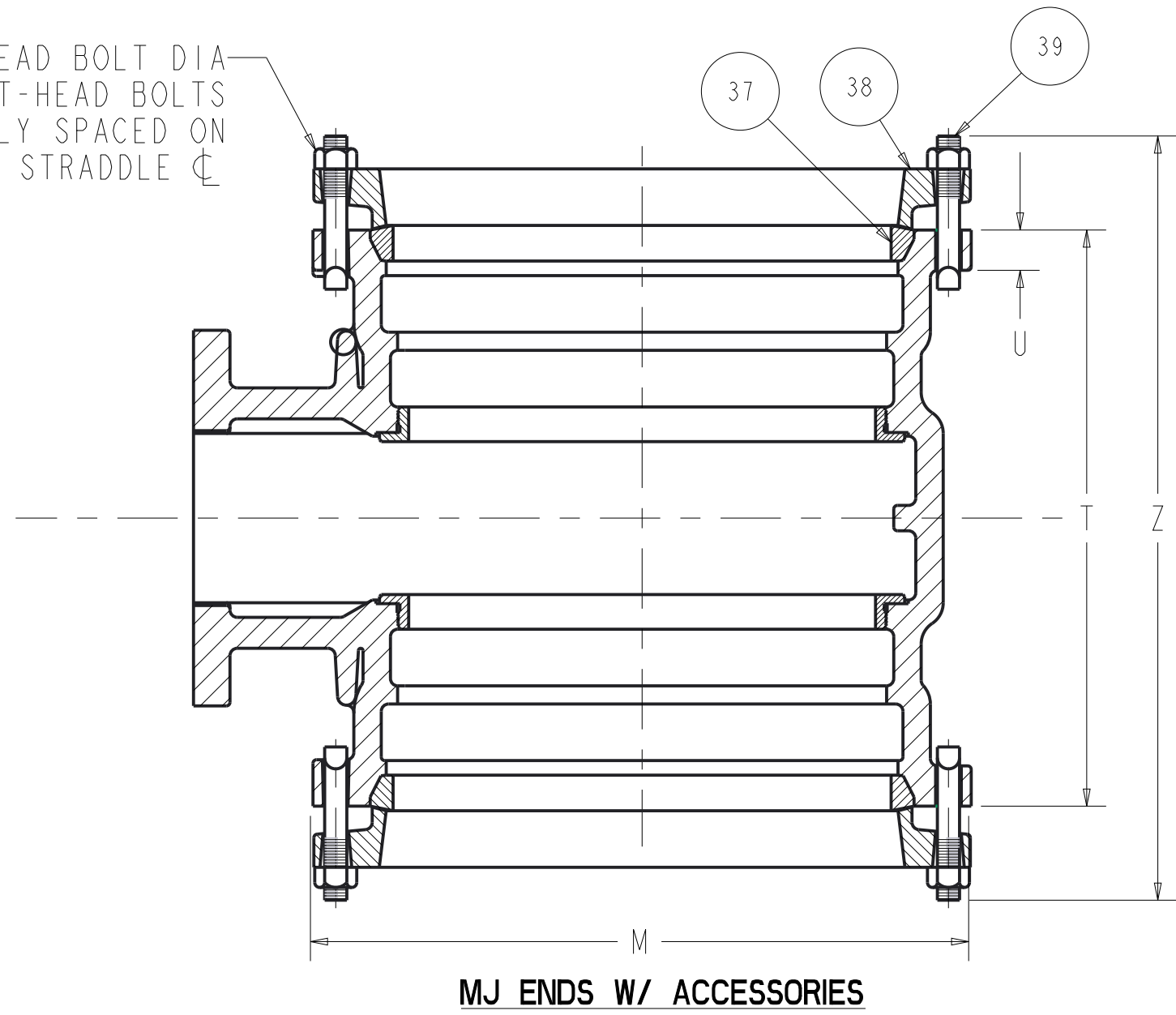
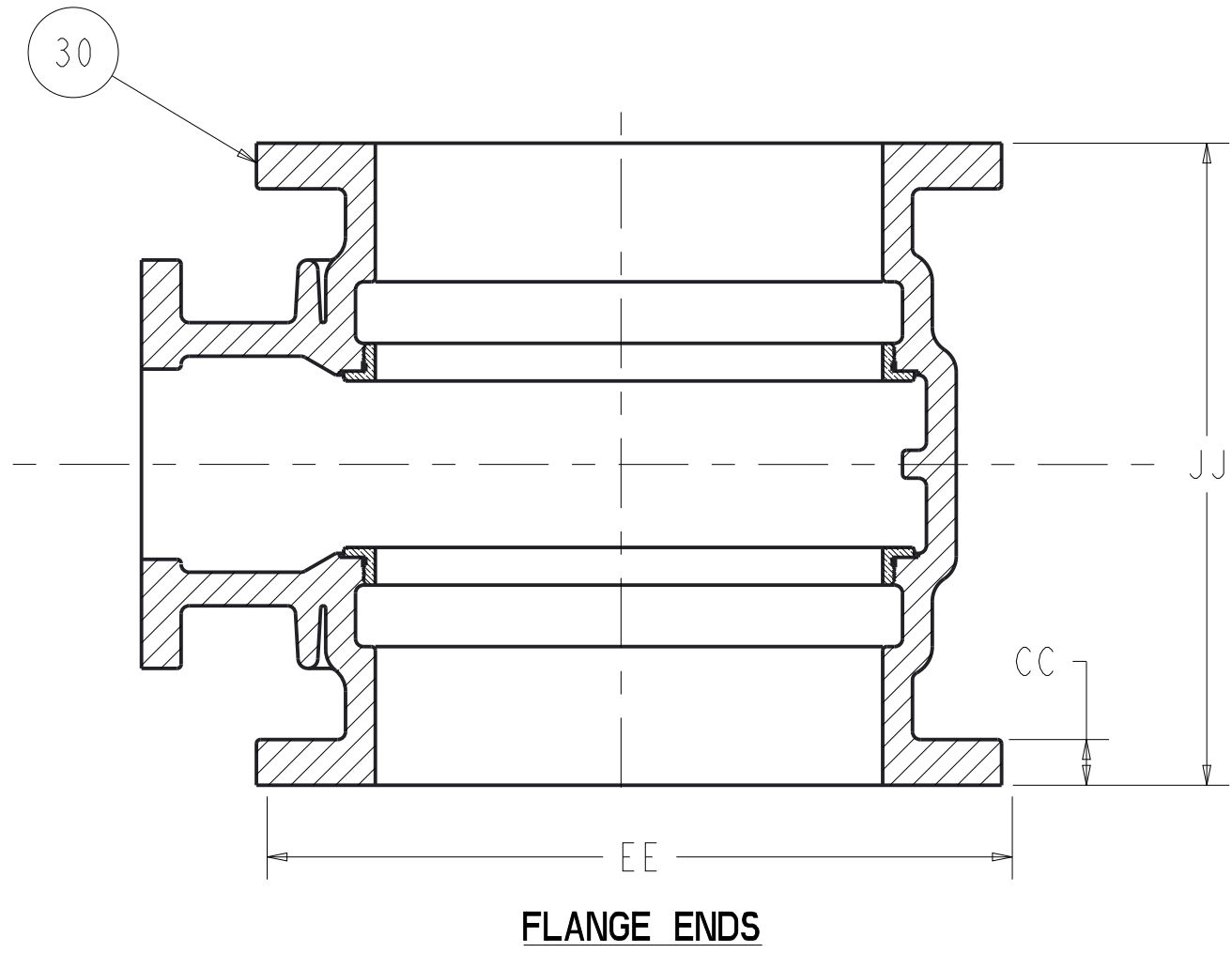




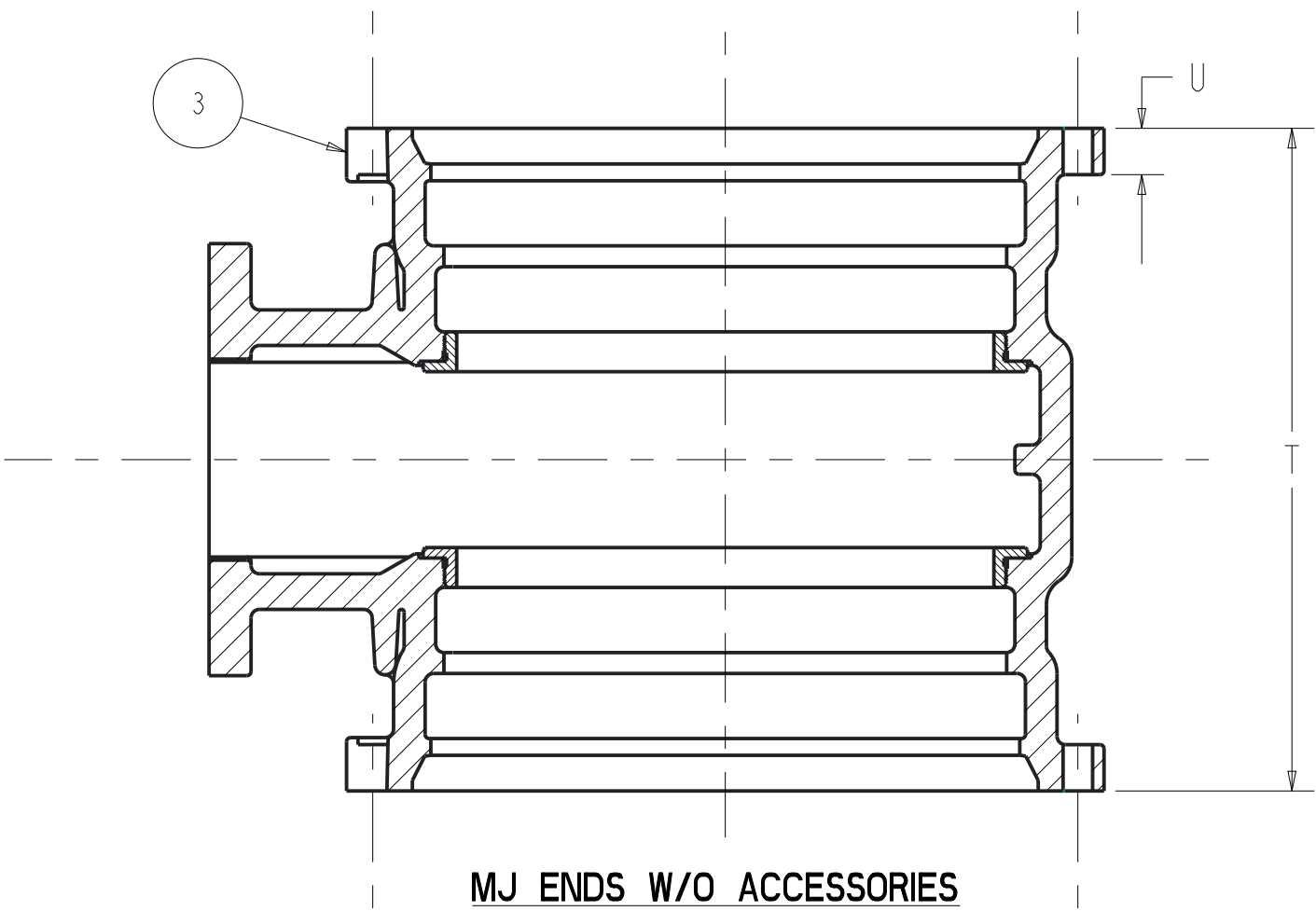
"N" T-HEAD BOLT DIA
"P" NO OF T-HEAD BOLTS
EQUALLY SPACED ON
"R" DIA B.C. - STRADDLE



MJ ENDS W/ ACCESSORIES



FLANGE ENDS



MJ ENDS W/O ACCESSORIES

PARTS LIST

ITEM	DESCRIPTION	REQ'D	MATERIAL	ASTM	
1	CAP SCREW	1	304 SS	F593	GROUP 1-CW
2	WRENCH NUT	1	D.I.	A536	65-45-12
3	BODY, MJ ENDS	1	D.I.	A536	65-45-12
4	VALVE ACTUATOR	1			
5	DRIVE SLEEVE	1			SEE NOTE 1
6	KEY	1	STEEL		
7	ACTUATOR GASKET	1	NEOPRENE	D2000	MUELLER R51
8	CAP SCREW	4	STEEL	A307	GR B PLATED
9	ACTUATOR ADAPTER	1	D.I.	A536	65-45-12
10	ADAPTER BUSHING	1	BRONZE	B62	
11	O-RING	1	RUBBER	D2000	MUELLER R34
12	CAP SCREW	6	304 SS	F593	GROUP 1-CW
13	STANDARD GASKET	1	RUBBER	D2000	
14	BONNET BUSHING	1	BRONZE	B62	
15	O-RING	1	RUBBER	D2000	MUELLER R34
16	O-RING	1	RUBBER	D2000	MUELLER R34
17	STEM	1	BRONZE		SEE NOTE 2
18	BONNET	1	D.I.	A536	65-45-12
19	BONNET TRACK	1	BRONZE	B62	
20	BONNET BOLT	"X"	304 SS	F593	GROUP 1-CW
21	BONNET GASKET	1	RUBBER		CLOTH INSERTED
22	BODY, TAP. VALVE	1	D.I.	A536	65-45-12
23	SEAT RING	2	BRONZE	B62	
24	BODY TRACK	1	BRONZE	B62	
25	TOP WEDGE NUT	1	BRONZE	B62	
26	BOTTOM WEDGE	1	BRONZE	B62	
27	DISC W/BRONZE RING	2	D.I.	A536	65-45-12
28	DISC PIN	2	BRASS	B21	ALLOY 464
29	SIDE SPREADER	2	BRONZE	B62	
30	BODY, FL ENDS	1	D.I.	A536	65-45-12
35	TEST PLUG	2	304 SS	F593	GROUP 1-CW
36	PIPE PLUG	1	D.I.		
37	MECH. JOINT GASKET	1	RUBBER	D2000	MUELLER R42
38	M. J. PIPE GLAND	1	D.I.	A536	65-45-12
39	T-HEAD BOLT	"P"	STEEL		SEE NOTE 3
40	WASHER	1	STEEL		PLATED
41	CAP SCREW	1	STEEL		

BY-PASS VALVE PARTS

42	STUD	"Y"	304 SS	F593	GROUP 1-CW
43	BY-PASS ELL	2	D.I.	A536	65-45-12
44	BY-PASS O-RING	2	RUBBER		
45	ELL O-RING	2	RUBBER		
46	BY-PASS VALVE	1	SEE BY-PASS VALVE CHART		
47	BYPASS VALVE BOLT	"KK"	304 SS		

VALVE SIZE	TURNS TO OPEN	BY-PASS SIZE	TURNS TO OPEN
16	201±3	3	11
18	234±3	3	11
20	258±3	3	11
24	308±3	4	14
30	382±3	4	14
36	456±3	6	20.5

BY-PASS VALVE CHART	
BY-PASS SIZE	SUB ASS'Y DWG NO
3	7248
4	7248
6	7248

NOTES:
1) SUPPLIED W/ACTUATOR BUT FINISHED BY MUELLER CO.
2) 16IN SIZE ONLY - ASTM B138 ALLOY 675
W/ADDED LEAD FOR MACHINABILITY
18IN - 24IN SIZES - ASTM B584 ALLOY 864
3) ASTM A242 TYPE 1 OR ASTM A588 GRADE B

VALVE SIZE	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T	U	V	W	X	Y	Z	AA	BB	CC	DD	EE	FF	GG	HH	JJ	KK
16	42.73	4.76	8.03	20.69	4.32	12.38	24.38	12.88	1.88	1.06	0.84	22.56	0.75	12	21.00	16.00	19.76	1.38	12.00	8.0	18	12	26.00	20.25	10.38	1.44	17.25	23.50	21.25	16	1.12	20.25	8
18	45.86	4.76	8.03	24.00	4.32	12.38	28.00	14.88	2.00	1.12	0.94	24.83	0.75	12	23.25	18.00	21.00	1.44	12.00	8.0	20	12	27.00	21.50	11.00	1.56	19.47	25.00	22.75	16	1.25	22.00	8
20	50.86	4.76	8.03	25.25	4.32	12.38	30.50	16.12	2.12	1.18	1.00	27.08	0.75	14	25.50	20.00	21.52	1.50	12.00	8.0	20	12	27.52	21.88	11.12	1.69	21.47	27.50	25.00	20	1.25	22.25	8
24	59.10	4.76	8.03	28.13	5.40	14.19	35.25	18.00	2.38	1.44	1.18	31.58	0.75	16	30.00	24.00	23.50	1.62	18.00	11.0	24	16	30.26	24.50	12.75	1.88	25.47	32.00	29.50	20	1.38	25.50	16
30	69.50	4.76	12.00	30.94	5.40	14.19	42.63	21.00	3.00	1.94	1.56	38.75	0.75	20	36.88	30.00	28.00	1.81	30.00	11.0	30	16	36.36	28.75	14.19	2.13	30.94	38.75	29.50	20	1.38	28.75	16
36	79.10	4.76	12.00	36.00	6.75	18.00	49.75	23.25	3.24	2.19	1.75	46.00	0.75	24	43.75	36.00	31.00	2.31	36.00	13.0	36	20	38.38	32.00	16.00	2.50	36.94	46.00	42.75	32	1.62	32.00	16

APPROVED
By Matt Sutterfield at 5:00 pm, Feb 07, 2017

DR BY	CSH	02/06/17	UNLESS OTHERWISE NOTED	THIRD ANGLE PROJECTION	C.B. NO.
CHKD	MPS	02/06/17	BREAK CAST CORNER(S)		
ENGR	MTS	02/06/17	BREAK MACH CORNER(S)		
MGR			TOLERANCES	PURCH. NO.	FINISH ASM
MFG			UNLESS OTHERWISE NOTED	REF. NO.	SCALE
TOOL			LINEAR		NONE
FDRY			ANGULAR	STK. NO.	
MAT'L	NOTED				
	Mueller Co.		DESCR.	16" - 36" DDGV W/ 304 SS FASTENERS, W/ SPUR GEAR & W/ RWGV SIDE BY PASS	NUMBER 7383