

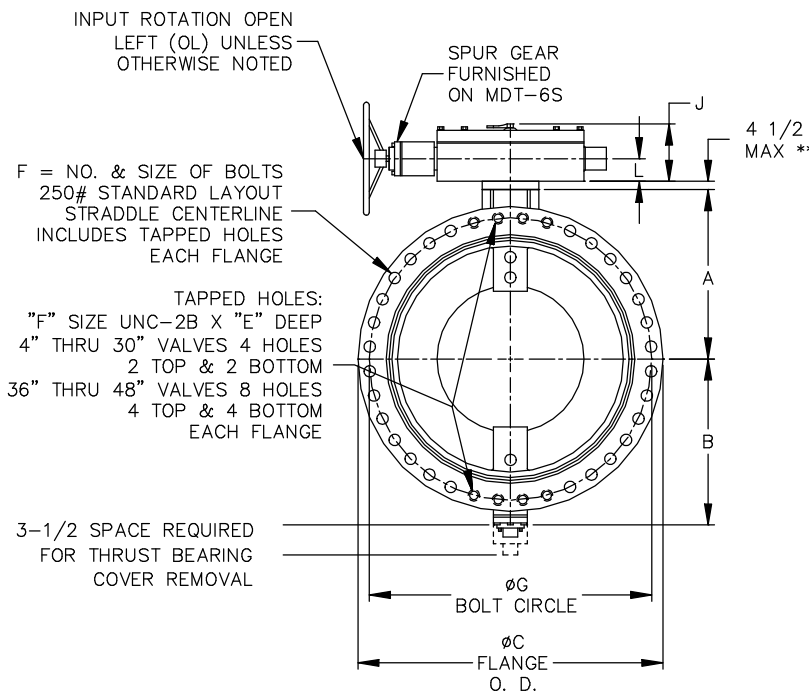
FOR UNI-DIRECTIONAL SERVICE ACTUATOR IS SIZED FOR FLOW IN THIS DIRECTION ONLY

FOR BI-DIRECTIONAL SERVICE ACTUATOR IS SUITABLE FOR FLOW IN EITHER DIRECTION

ACTUATOR POSITION 1

NOTES:

- ALL DIMENSIONS SHOWN IN INCHES.
- "D" DIMENSION $\pm 1/8"$.
- FOR BOLTS SMALLER THAN $\phi 1-3/4$, BOLT HOLES WILL BE $1/8"$ LARGER THAN DIAMETER OF BOLT. FOR BOLTS $\phi 1-3/4$ OR LARGER, BOLT HOLES WILL BE $1/4"$ LARGER THAN DIAMETER OF BOLT.
- DIMENSIONS AND DRILLING OF END FLANGES CONFORM TO THE AMERICAN CAST IRON FLANGE STANDARDS, CLASS 250 (B16.1).
- RECOMMENDATION FOR MATING FLANGES: WHERE INSULATING BUSHINGS ARE USED, IT IS NECESSARY THAT BOLT HOLES BE DRILLED OVERSIZE BY AN AMOUNT EQUAL TO TWO TIMES THE INSULATING SLEEVE THICKNESS TO MAINTAIN THE SAME MINIMUM CLEARANCE FOR BOLTS.
- CAUTION: IT IS RECOMMENDED THAT VALVES BE INSTALLED INTO THE PIPING SYSTEM IN ACCORDANCE WITH AWWA M-11 IN ORDER TO PREVENT ANY UNDUE PIPING STRESS, DEFLECTION OR BENDING THAT MAY AFFECT THE PERFORMANCE OF THE VALVE.
- **7. A DIMENSION OF $7-1/2$ MAX MAY BE REQUIRED TO INCLUDE HEIGHT OF SPACER BONNET FOR CLEARANCE OF HANDWHEEL OR CHAINWHEEL IN POSITION 2.



INPUT ROTATION OPEN LEFT (OL) UNLESS OTHERWISE NOTED

SPUR GEAR FURNISHED ON MDT-6S

F = NO. & SIZE OF BOLTS
 250# STANDARD LAYOUT STRADDLE CENTERLINE INCLUDES TAPPED HOLES EACH FLANGE

TAPPED HOLES:
 "F" SIZE UNC-2B X "E" DEEP
 4" THRU 30" VALVES 4 HOLES
 2 TOP & 2 BOTTOM
 36" THRU 48" VALVES 8 HOLES
 4 TOP & 4 BOTTOM EACH FLANGE

3-1/2 SPACE REQUIRED FOR THRUST BEARING COVER REMOVAL

VALVE SIZE	A	B	C	D	E	F	G
3	4-3/4	4-1/8	8-1/4	5	1-1/8	8--3/4	6-5/8
4	5-1/2	4-1/8	10	5	1-1/4	8-3/4	7-7/8
6	7-1/4	8-3/8	12-1/2	6	1-7/16	12--3/4	10-5/8
8	8-1/2	9-5/8	15	8	1-5/8	12--7/8	13
10	9-3/4	11	17-1/2	8	1-7/8	16--1	15-1/4
12	11-1/2	12-5/8	20-1/2	8	2	16--1-1/8	17-3/4
14	12-3/4	13-7/8	23	12	2-1/8	20--1-1/8	20-1/4
16	14	15-1/8	25-1/5	12	2-1/4	20--1-1/4	22-1/2
18	15-1/4	16-3/8	28	12	2-3/8	24--1-1/4	24-3/4
20	17	17-5/8	30-1/2	12	2-1/2	24--1-1/4	27
24	19-3/4	20-1/4	36	12	2-3/4	24--1-1/2	32
30	25-5/8	26	43	12	3	28--1-3/4	39-1/4
36	28-1/8	31-1/8	50	15	3-3/8	32--2	46
42	32-1/8	35-1/8	57	15	3-11/16	36--2	52-3/4
48	36-1/4	39-5/8	65	15	4	40--2	60-3/4

ACTUATOR SIZE	J	L	M	N	P	Q	R	S	T	V	W	NUMBER OF TURNS
MDT-2S	4-11/16	2	2-1/8	2	4-1/2	4-1/2	8-1/4	7-7/8	7-7/8	8	9-1/8	32
MDT-3S	5-5/8	2-7/16	3-1/4	3-5/32	5-5/8	5-3/8	10-3/8	10-1/2	10-1/8	12	9-1/8	30
MDT-4S	6-3/8	2-27/32	3-3/8	4	7-5/16	6-3/4	11-5/16	11-1/2	11	12	9-1/8	40
MDT-5	7-9/16	3-15/32	4-1/2	5-1/2	8-3/4	10	17	17 3/16	17-3/16	18	16-7/16	44
MDT-5S	8-5/16	3-15/16	5-1/2	7	10-1/2	15-15/16	19-7/8	20	19-13/16	24	22-1/4	136
MDT-6S	10-3/16	5-1/16	7	8-1/4	12-5/8	14-3/16	26-1/2	27-3/4	27-1/2	24	22-1/4	215

12/7/05	JH	CEG	25-1/2 WAS 25-1/5, 4-1/8 WAS 3-1/2	4/3/06	JH	ADDED 3" VALVE SIZE
11-21-01	MJH	DWB	REVISED TITLE BLOCK	REV.-DATE	BY	APP.
REV.-DATE	BY	APP.	REVISION	REV.-DATE	BY	APP.