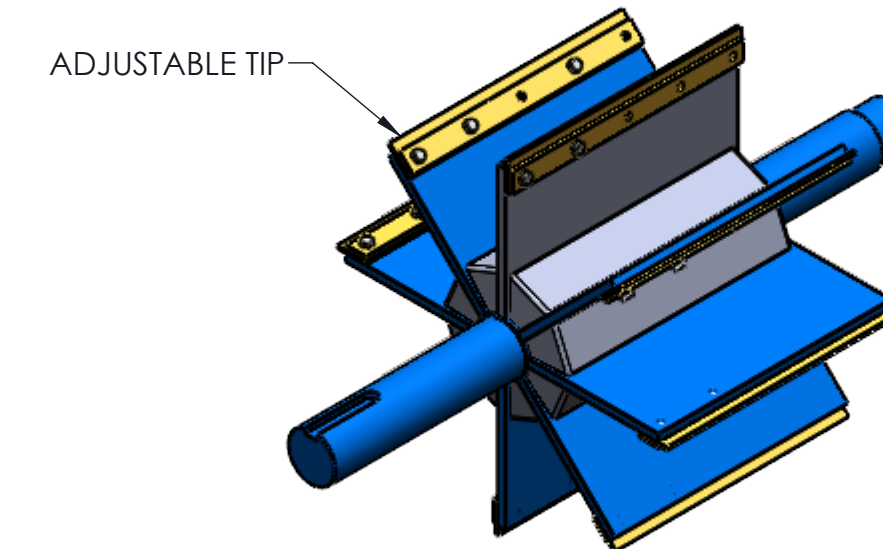


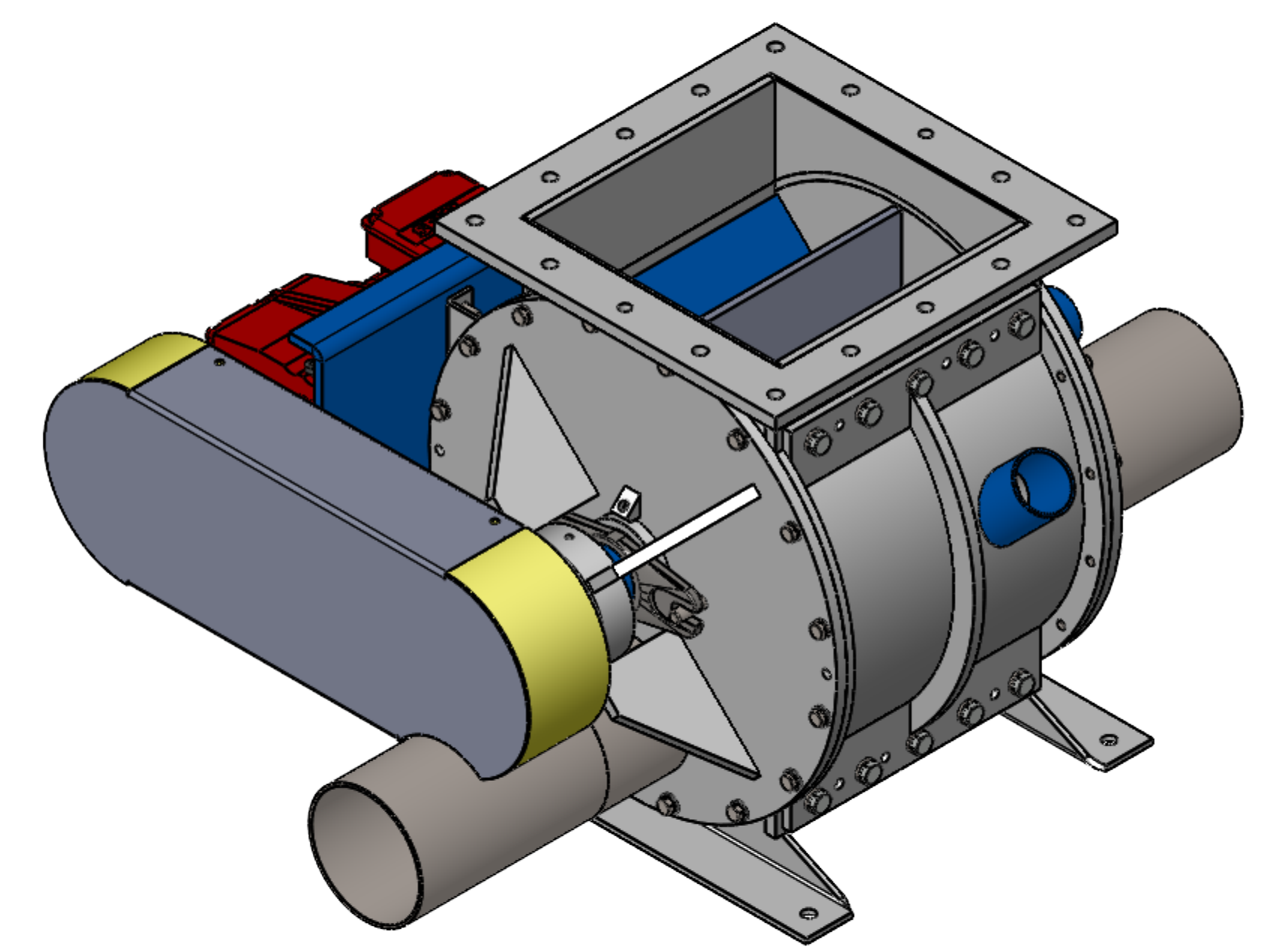
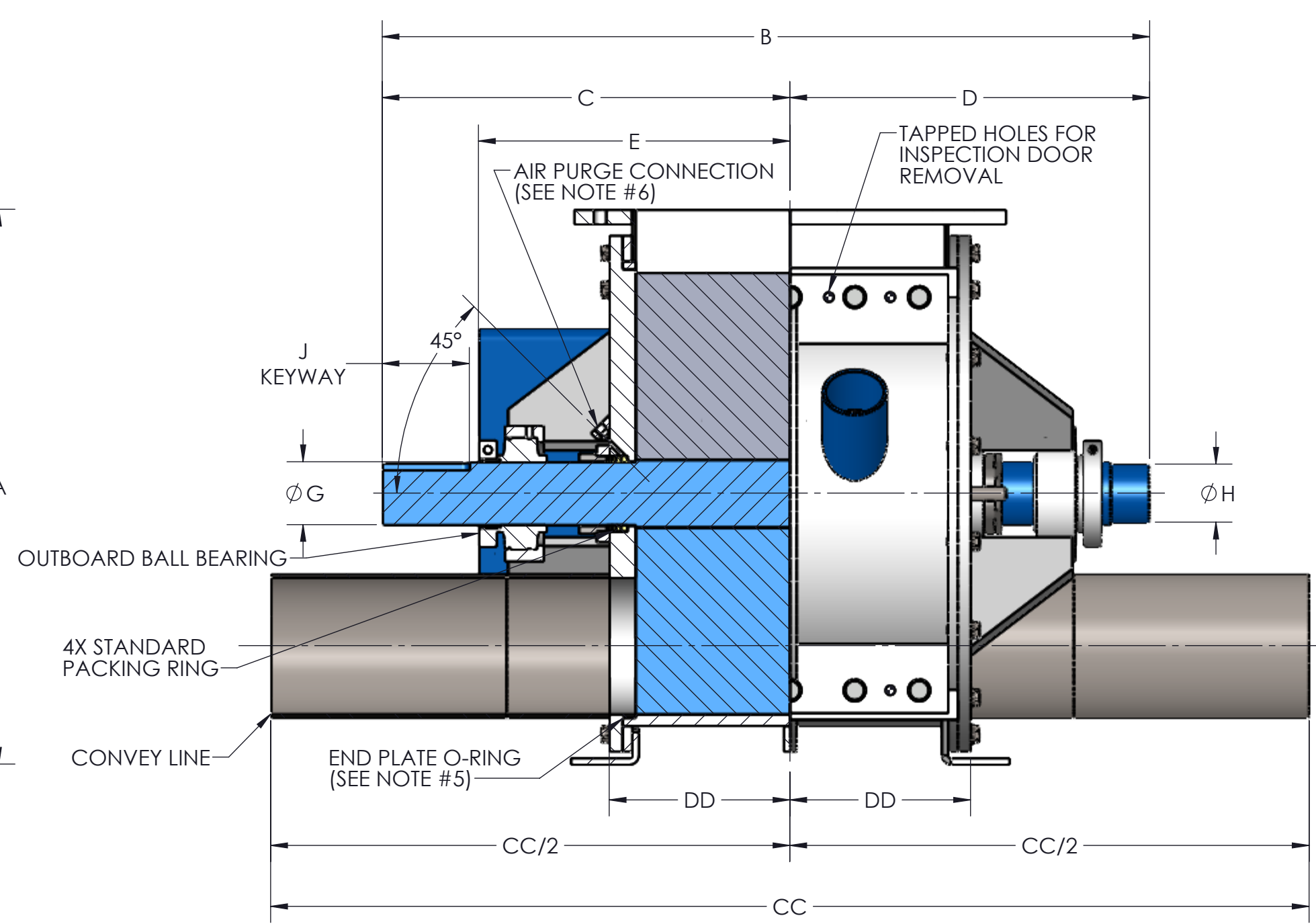
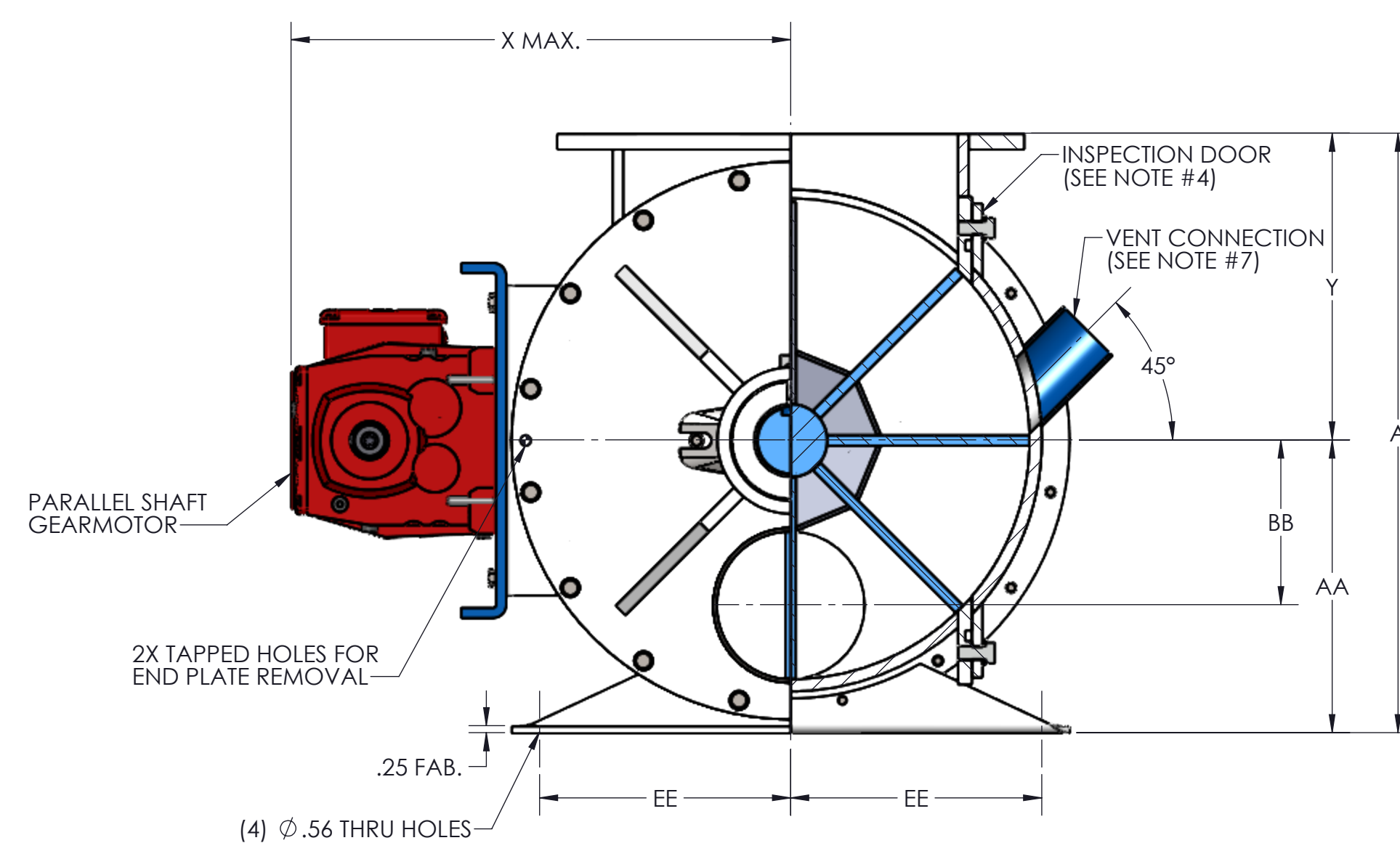
TYPE 'B' ROTOR



TYPE 'BD' ROTOR

- NOTES:
1. VALVE HOUSINGS ARE CAST OF IRON OR ALUMINUM, FABRICATED OF STEEL OR STAINLESS STEEL. ALL ROTORS ARE FABRICATED OF STEEL OR STAINLESS STEEL.
 2. VALVE HOUSINGS ARE AVAILABLE WITH EITHER A SQUARE OR ROUND INLET. CONVEY LINES ARE AVAILABLE AS PIPE OR TUBING AND WITH EITHER PLAIN OR FLANGED ENDS. ROUND FLANGES MATCH 150# ANSI DRILLING.
 3. STANDARD HOUSINGS ARE DESIGNED FOR 15 PSI (MAX) INTERNAL & DIFFERENTIAL @ 250 DEGREES F.
 4. INSPECTION DOOR IS OPTIONAL AND WILL BE FURNISHED ONLY WHEN SPECIFIED.
 5. END PLATES AND INSPECTION DOOR O-RINGS ARE OPTIONAL AND WILL BE FURNISHED ONLY WHEN SPECIFIED.
 6. AIR PURGE CONNECTIONS WITH BRASS LANTERN RINGS ARE OPTIONAL AND WILL BE FURNISHED ONLY WHEN SPECIFIED.
 7. VENT WITH SCH 10 PIPE IS OPTIONAL AND WILL BE FURNISHED ONLY WHEN SPECIFIED. VENT CONNECTION WILL CHANGE ROTOR ROTATION TO COUNTER-CLOCKWISE.

TOTALLY ENCLOSED OSHA DESIGNED CHAIN GUARD
TOTALLY ENCLOSED CHAIN DRIVE INCLUDES:
DRIVE SPROCKET
VALVE SPROCKET
ROLLER CHAIN



SIZE	ROTOR DIA. X LG.	CONVEY LINE O.D. X WALL	CAP. (CU. FT. PER REV) B	BD	STD RPM	VENT SIZE	STD HP	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V	W	X	Y	AA	BB	CC	DD	EE	WEIGHT C/S
1-BT-4	6 X 4	1.00" X .12"	.0288		38	1.25	.50	9.75	19.25	10.31	8.94	7.31	.31	1.19	1.00	.25 X .12 X 2.62	9.00	7.50	4.00	(4) .75	(4) .62-11UNC-2B	7.50	4.00	.62	3.12	*	(6) .56	(2) .50-13UNC-28	13.00	5.00	4.75	2.53	28.25	3.00	3.00	205
1.25-BT-4	6 X 4	1.25" X .12"	.0349		38	1.25	.50	9.75	19.25	10.31	8.94	7.31	.31	1.19	1.00	.25 X .12 X 2.62	9.00	7.50	4.00	(4) .75	(4) .62-11UNC-2B	7.50	4.00	.62	3.12	*	(6) .56	(2) .50-13UNC-28	13.00	5.00	4.75	2.38	28.25	3.00	3.00	210
1.50-BT-5	8 X 5	1.50" X .12"	.0762		38	1.50	.50	11.75	20.50	10.94	9.56	7.94	.44	1.44	1.25	.38 X .19 X 2.62	10.00	8.50	5.00	(4) .88	(4) .75-10UNC-2B	8.50	5.00	.62	3.62	*	(6) .56	(2) .50-13UNC-28	13.75	6.00	5.75	3.22	29.25	3.50	4.00	260
2-BT-5	8 X 5	2.00" X .12"	.0942		38	1.50	.50	11.75	20.50	10.94	9.56	7.94	.44	1.44	1.25	.38 X .19 X 2.62	10.00	8.50	5.00	(4) .88	(4) .75-10UNC-2B	8.50	5.00	.62	3.62	*	(6) .56	(2) .50-13UNC-28	13.75	6.00	5.75	3.00	29.25	3.50	4.00	265
2.50-BT-6	10 X 6	2.50" X .12"	.1838		32	1.50	.50	13.75	22.38	11.88	10.50	8.88	.44	1.94	1.75	.50 X .25 X 2.62	11.00	9.50	6.00	(4) .88	(4) .75-10UNC-2B	9.50	6.00	.62	4.12	*	(6) .56	(2) .50-13UNC-28	14.75	7.00	6.75	3.75	32.25	4.00	5.00	310
3-BT-8	12 X 8	3.00" X .12"	.3464		32	2.00	.75	16.50	24.38	12.88	11.50	9.88	.44	1.94	1.75	.50 X .25 X 2.62	13.50	11.75	8.00	(4) .88	(4) .75-10UNC-2B	11.50	8.00	.62	5.12	2.56	(14) .56	(2) .50-13UNC-28	15.88	8.50	8.00	4.44	34.25	5.00	6.00	385
3.50-BT-8	12 X 8	3.50" X .12"	.3796		32	2.00	.75	16.50	24.38	12.88	11.50	9.88	.44	1.94	1.75	.50 X .25 X 2.62	13.50	11.75	8.00	(4) .88	(4) .75-10UNC-2B	11.50	8.00	.62	5.12	2.56	(14) .56	(2) .50-13UNC-28	15.88	8.50	8.00	4.19	34.25	5.00	6.00	390
4-BT-10	15 X 10	4.00" X .12"	.7283		32	2.50	.75	19.50	26.62	13.88	12.75	10.88	.44	2.19	2.00	.50 X .25 X 2.62	16.00	14.25	10.00	(8) 1.00	(4) .88-9UNC-2B	14.75	10.00	1.00	6.38	3.19	(14) .56	(2) .50-13UNC-28	17.75	10.00	9.50	5.44	36.25	6.00	8.00	520
5-BT-12	17 X 12	5.00" X .12"	1.205		32	2.50	.75	21.50	29.75	15.81	13.94	12.06	.56	2.44	2.25	.62 X .31 X 3.38	19.00	17.00	12.00	(8) 1.00	(4) .88-9UNC-2B	16.75	12.00	1.00	7.38	3.69	(14) .56	(2) .50-13UNC-28	18.75	11.00	10.50	5.91	40.25	7.38	9.00	660
6-BT-14	19 X 13	6.00" X .12"	1.688		32	3.00	.75	23.50	30.75	16.31	14.44	12.56	.56	2.44	2.25	.62 X .31 X 3.38	21.00	18.75	13.00	(8) 1.12	(4) 1.00-8UNC	18.00	13.00	1.00	8.00	4.00	(14) .56	(2) .50-13UNC-28	19.75	12.00	11.50	6.38	42.25	7.62	10.00	885

GENERAL TOLERANCES
UNLESS OTHERWISE SPECIFIED THE FOLLOWING SHALL APPLY
MACHINING - XX# .02 XXX# .005 ANGLES - 30°
SURFACE ROUGHNESS HEIGHT .63 MICRONS OR LESS
FABRICATION - UNDER 6 6 TO 24 24 TO 60 OVER 60
± .06 ± .12 ± .19 ± .25
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.
UNLESS SPECIFIED DIMENSIONS & TOLERANCES INTERPRETED
PER ASME Y14.5-2009

REV. NO.	DESCRIPTION	DATE	BY
REVISIONS			
CUSTOMER:			
CUSTOMER PO NUMBER:			
YOUNG JOB NUMBER:			
TITLE			
YOUNG INDUSTRIES MODEL 'BT' ROTARY VALVE, SIZE 1"-14", CLASS 15 W/ PARALLEL SHAFT DRIVE, TUBING CONVEY LINE STANDARD DIMENSION SHEET			
DRAWN BY: MEA		DATE: 07/30/24	
CHECKED BY:		SCALE: 1:5	
DRAWING NUMBER	D-21404-19	SHEET 1 OF 1	REV: 00

