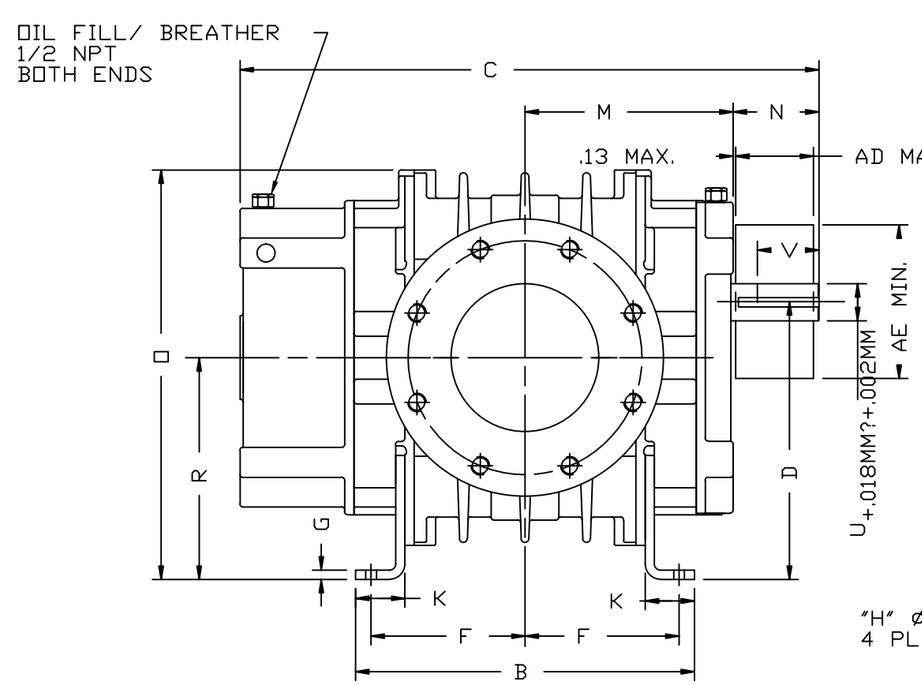

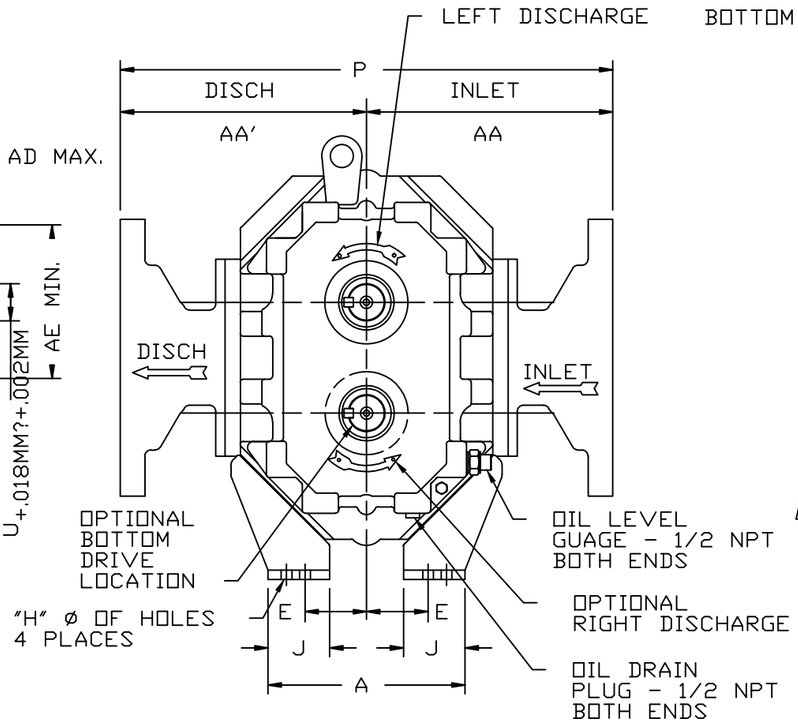

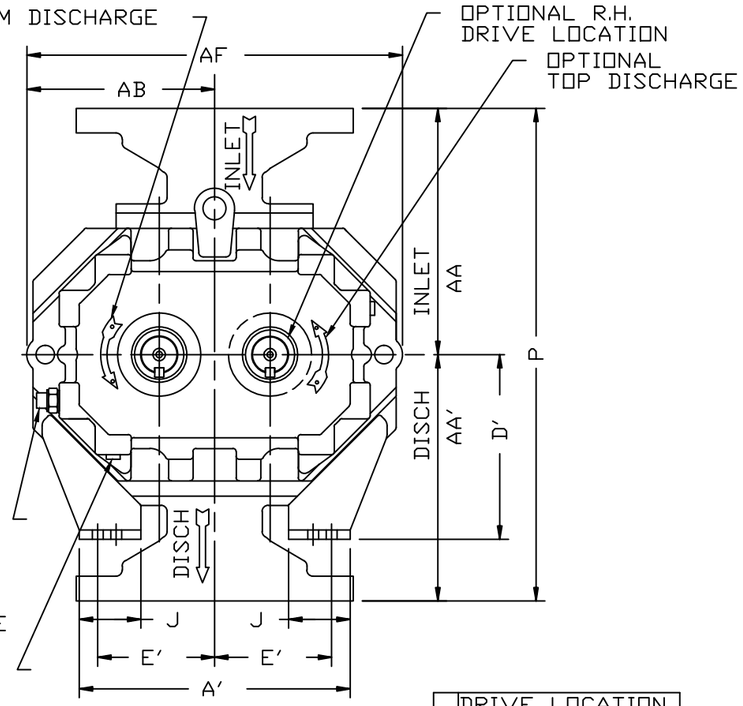

INLET & DISCHARGE FLANGES TO MATE FLUSH & SQUARE WITH FLAT FACE FLANGE ONLY. USE FULL FACE GASKETS.

V-BELT DRIVEN UNITS: MOTOR TO BE LOCATED ON INLET SIDE OF BLOWER.

AD - MAXIMUM SHEAVE WIDTH
(SEE OVERHUNG LOAD LIMIT K-24102)

AE - MINIMUM SHEAVE DIAMETER
(SEE OVERHUNG LOAD LIMIT K-24102)

ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED
METRIC DIMENSIONAL #90780021

ANSI FLANGE DIMENSIONS						
	FA	FB	FC	FD	FE	FG
6 FLG	6.00	9.50	11.25	8	.75-10	1.00
8 FLG	8.00	11.75	13.50	8	.75-10	1.13
10 FLG	10.00	14.25	16.00	12	.88-9	1.19

FA - FLANGE OPENING
FB - FLANGE BOLT CIRCLE
FC - FLANGE O.D.
FD - No. TAPPED HOLES
FE - SIZE OF TAPPED HOLES
FG - DEPTH OF TAP

DISCH. LOCATION	DRIVE LOCATION: LH	DRIVE LOCATION: RH
TOP	CW	CCW
BOTTOM	CCW	CW

UNIT IS BUILT TO CUSTOMERS SPECIFIED ORIENTATION

MODEL	A	A'	B	C	D	D'	E	E'	F	G	H	J	K	M	N	O	P	R	U MM	V MM	KEYWAY MM	INLET AA	DISCH AA'	AB	AD	AE	AF	FLANGE SIZE	APPROX WEIGHT
409	8.00	11.00	13.77	23.50	11.25	7.50	2.50	4.75	6.26	.38	.44	2.50	2.00	8.44	3.50	16.63	20.00	9.00	35.0	63.5	10.0X5.0	10.00	10.00	7.63	3.06	7.10	15.25	6"	356 LBS
413	"	"	17.78	27.50	"	"	"	"	8.26	"	"	"	"	10.44	"	"	21.25	"	"	"	"	10.63	10.63	"	"	"	"	"	428 LBS
416	"	"	21.03	30.75	"	"	"	"	9.88	"	"	"	"	12.06	"	"	21.50	"	"	"	"	10.75	10.75	"	"	"	"	8"	520 LBS
617	9.00	15.00	22.11	33.56	15.00	9.00	3.50	6.50	10.43	.38	.56	2.50	2.00	13.08	4.33	22.00	26.75	12.00	50.0	76.2	14.0X5.5	13.38	13.38	10.00	4.44	8.50	20.00	8"	836 LBS
621	"	"	27.73	37.73	"	"	"	"	12.52	"	"	"	"	15.17	"	"	26.88	"	"	"	"	13.44	13.44	"	"	"	"	10"	996 LBS

CERTIFIED CORRECT FOR
CUSTOMER ORDER No. _____
ROOTS ORDER No. _____
DATE _____

	REVISIONS	BY	CHANGE NOTICE	CHKD.	APP.
D	REV DIMS P, AA AND AA', 617 AND 622	SRL	17403V		DEB
C	UPDATE TO HOWDEN, TRI-RAM BRAND	MPM	16849V		MNM
B	REV DIMS AA AND AA'		11471H		
A	ORACLE CONVERSION				

V-BELT DRIVE DATA
BELTS
DRIVE SHEAVE
DRIVEN SHEAVE
CENTER DISTANCE

TRI-RAM™

TRI-LOBE BLOWERS 409, 413, 416, 617, & 621

Connersville, IN USA
P: 765-827-9200
F: 765-827-9266

Howden

RDR		
DR	CHKD	APP

90779021 REV. D

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