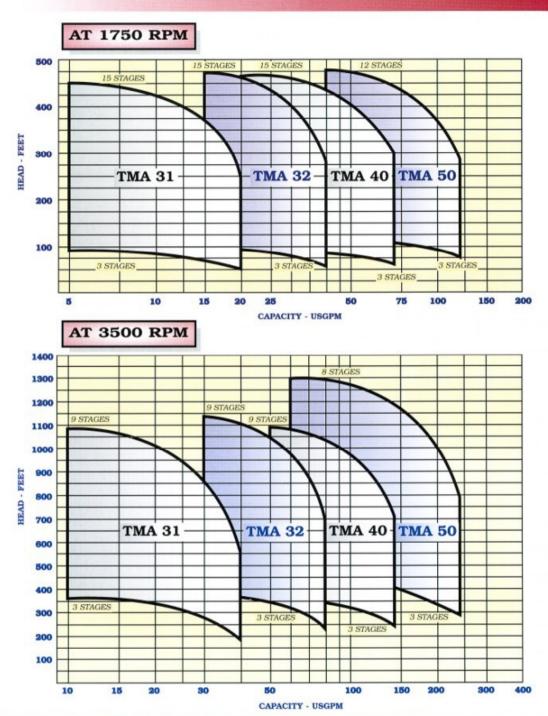


Premier Fluid Systems

TMA SERIES

MULTISTAGE CENTRIFUGAL PUMPS
Capacities to 240 USGPM Heads to 1,300 feet





		STANDA	RD CONSTRUCTION							
PUMP		SHAFT SE	AL	ARRANGEMENTS						
TYPES	STUFFING BOX	MECH. SEAL	DOUBLE MECH. SEAL	CLOSE COUPLED	BASE PLATE					
TMA 30/R		-		-	~ ES					
TMA 30/C				- TORROGENEE						
TMA 40										
TMA 50					-					
	SP	ECIFICATION	S AND OPERATING L	IMITS						
CAPACITIES			5 TO 240 USGPM							
HEADS TO			1,300 FEET							
MAXIMUM L	IQUID TEMP.		250° F							
WITH STAND	DARD STUFFING BO	X	- Waterday							
MAXIMUM L	IQUID TEMP.		320° F							
WITH COOLE	ED STUFFING BOX									
MAXIMUM D	ISCHARGE PRESSU	JRE	580 PSIG							
MAXIMUM SUCTION PRESSURE			230 PSIG							

PERFORMANCE DATA AT 3500 RPM, LIQUID WITH 1.0 S.G., VISCOSITY 1.0°E TOLERANCES ± 5% EXCEPT HP + 10%

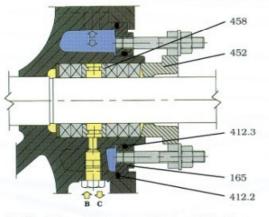
CAPACITY	- USGPM	1	0	20)	30)	40				33.00		
MODEL	IN/OUT	Ft.	HP	Ft.	HP	Ft.	HP	Ft.	HP				100000000000000000000000000000000000000	
TMA 31-3		360	4.8	339	5.4	282	6.1	183	6.3					
TMA 31-4		480	6.4	452	7.2	376	8.2	244	8.4					
TMA 31-5		600	8.0	565	9.0	470	10.2	305	10.5					
TMA 31-6	1.5"/1.25"	720	9.5	678	10.8	564	12.3	366	12.6		Marie III			
TMA 31-7		840	11.1	791	12.6	658	14.3	427	14.7					
TMA 31-8		960	12.7	904	14.4	752	16.4	488	16.8					
TMA 31-9		1080	14.3	1017	16.2	846	18.4	549	18.9					
NPSH	- Ft.		5	5	.2	5	.6	6.	.3					
CAPACITY	- USGPM	3	0	40)	50)	60		70		80		
MODEL	IN/OUT	Ft.	HP	Ft.	HP	Ft.	HP	Ft.	HP	Ft.	HP	Ft.	HP	27.265am224
TMA 32-3		378	6.3	369	6.7	351	7.8	324	8.5	282	9.1	228	9.4	
TMA 32-4		504	8.4	492	9.0	468	10.4	432	11.4	376	12.2	304	12.6	
TMA 32-5	and the second	630	10.5	615	11.2	585	13.0	540	14.2	470	15.2	380	15.8	

CAPACITI -	USGPM	3	U	.46	,	00		00		70		00		
MODEL	IN/OUT	Ft.	HP	Ft.	HP	Ft.	HP	Ft.	HP	Ft.	HP	Ft.	HP	
TMA 32-3		378	6.3	369	6.7	351	7.8	324	8.5	282	9.1	228	9.4	
TMA 32-4		504	8.4	492	9.0	468	10.4	432	11.4	376	12.2	304	12.6	
TMA 32-5		630	10.5	615	11.2	585	13.0	540	14.2	470	15.2	380	15.8	
TMA 32-6	1.5"/1.25"	756	12.6	738	13.5	702	15.6	648	17.1	564	18.3	456	19.0	
TMA 32-7		882	14.7	861	15.7	819	18.2	756	20.0	658	21.3	532	22.1	
TMA 32-8		1008	16.8	984	18.0	936	20.8	864	22.8	752	24.4	608	25.2	
TMA 32-9		1134	18.9	1107	20.2	1053	23.4	972	25.6	846	27.4	684	28.4	Significant of the same of the
NPSH	- Ft.	5.	.6	6	2		7	8	3.2	9	.8	1	2	

CAPACITY -	USGPM	5	0	60)	80		10	0	12	0	140)	Section 1
MODEL	IN/OUT	Ft.	HP	Ft.	HP	Ft.	HP	Ft.	HP	Ft.	HP	Ft.	HP	
TMA 40-3		363	11.4	360	12.0	345	13.2	321	14.4	282	15.9	237	17.1	
TMA 40-4		484	15.2	480	16.0	460	17.6	428	19.2	376	21.2	316	22.8	
TMA 40-5		605	19.0	600	20.0	575	22.0	535	24.0	470	26.5	395	28.5	
TMA 40-6	2.5"/2"	726	22.8	720	24.0	690	26.4	642	28.8	564	31.8	474	34.2	
TMA 40-7		847	26.6	840	28.0	805	30.8	749	33.6	658	37.1	553	39.9	
TMA 40-8		968	30.4	960	32.0	920	35.2	856	38.4	752	42.4	632	45.6	
TMA 40-9	4	1089	34.2	1080	36.0	1035	39.6	963	43.2	846	47.7	711	51.3	
NPSH -	Ft.		5	5	.5		3		12		7	2	2	

CAPACITY -	USGPM	60	0	80)	10	0	12	0	160)	200)	240)
MODEL	IN/OUT	Ft.	HP	Ft.	HP	Ft.	HP								
TMA 50-3		486	19.5	483	21.0	474	22.8	462	24.6	420	27.9	360	30.9	288	31.5
TMA 50-4		648	26.0	644	28.0	632	30.4	616	32.8	560	37.2	480	41.2	384	42.0
TMA 50-5		810	32.5	805	35.0	790	38.0	770	41.0	700	46.5	600	51.5	480	52.5
TMA 50-6	2.5"/2"	972	39.0	966	42.0	948	45.6	924	49.2	840	55.8	720	61.8	576	63.0
TMA 50-7		1134	45.5	1127	49.0	1106	53.2	1078	57.4	980	65.1	840	72.1	672	73.5
TMA 50-8		1296	52.0	1288	56.0	1264	60.8	1232	65.6	1120	74.4	960	82.4	764	84.0
NPSH -	Ft.	4.	5		5	5.	5	(3	8	3	1	1	15	.5

SEALING OPTIONS TMA SERIES



Stuffing Box with Lantern Ring and Flushing

The packed stuffing box with lantern ring design is provided to prevent air from entering the pump, especially at the pump suction end. The lantern ring is supplied to ensure that flushing liquid from an external source lubricates the packing. This arrangement is also provided where the liquid being pumped contains small solid particles or is prone to crystallization. The flushing liquid should be compatible with the media being pumped, and should be supplied at a pressure that is higher than the pump inlet pressure. This liquid enters through port B and exits through port C.

Description

Heating or Cooling Cover

Gasket

O-Ring

Gland

Mechanical Seal

Part No.

400.5

412.2(.3)

433.1(.2)

165

452

1	770	485
	3	400.5
	000	433.1
A		433.1
Single Weeks	B C	471

Single Mechanical Seal

Part No.

485(.1)

458

471

542

550.1

The series TMA pump seal housings are designed to accept single mechanical seals that are standardized according to DN 24690/K. To ensure proper lubrication the seal faces are flushed with the fluid that is being pumped through internal port A. When required, the flushing liquid can be supplied from an external source through port B.

Description

Mechanical seal Locking Ring

Mechanical Seal Cover

Mechanical Seal Bushing

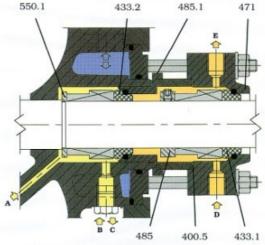
Lantern Ring

Junk Ring

433.2	485.1	471
XXX		E
\$		
uii.		D
ВС	485 400.5	433.1

Double Back to Back Mechanical Seals

This arrangement is suitable for handling hot or abrasive liquids. It is also used for liquids that are corrosive or which may solidify. The mechanical seals are supplied with an external flushing liquid through port D and exits through port E. The flushing liquid should be compatible with the liquid being pumped and supplied at a pressure of 0.5 to 1.0 Atm higher than the pump operating pressure.



Double Mechanical Seals in Series

This design is used when pumping hazardous liquids. The internal mechanical seal is flushed with the liquid that is being pumped through port A. The external mechanical seal is flushed with a liquid from an external source through port D and exits through port E. The flushing liquid for the external mechanical seal should be compatible with the liquid being pumped and can be supplied at low pressure.

OTHER PRODUCTS

CLOSE-COUPLED SINGLE STAGE LIQUID RING PUMPS FOR HIGH VACUUM



SELF-PRIMING CENTRIFUGAL PUMPS



MONOSTAGE CENTRIFUGAL PUMPS FOR THERMAL FLUIDS

LIQUID RING VACUUM PUMPS

Continuing research of TRAVAINI PUMPS results in product improvements: therefore any specifications may be subject to change without notice.

Premier Fluid Systems

4460 HARVESTER ROAD, BURLINGTON, ONTARIO L7L 4X2 Yoli free: 1-800-461-2611 - Phone: 001-905-637-2611 Fax: 001-905-333-4722 E-mail: info@pfspumps.com http://www.pfspumps.com



Represented by:

MULTISTAGE CENTRIFUGAL PUMPS FOR MEDIUM AND HIGH PRESSURES: TMA SERIES

MAIN APPLICATIONS:

- · Boiler feed
- · For handling clean or slightly dirty liquids
- · For heating plants
- · Water supply piping
- · Autoclaves
- · Fire fighting operations
- · Agriculture and irrigation
- · For handling all hydrocarbons

LIMITS OF USE:

Capacity from 5 to 240 USGPM Head to 1300 ft Temperature tolerance: maximum 250° F without cooled stuffing boxes, 320° F with cooled stuffing boxes.

CONSTRUCTION:

The Travaini TMA series pumps are multistage centrifugal type pumps that employ a closed type impeller design. The impellers are in series so that the head increases as the liquid being pumped is transferred from each impeller.

On the TMA series, the axial thrusts are balanced by balancing blades on the back of the impeller. The remaining thrust forces are absorbed by the heavy duty single ball bearing at the non-drive end and angular bearing at the drive end. For pump designs that have two external bearings, a pressure pipe is provided to relieve pressures in the seal area from the discharge side of the pump to the suction side.

The TMA pump design uses the latest foundry technologies. This allows for one piece components which effectively increases pump efficiencies, simplifies pump assembly and maintenance, at the same time, reducing the weight of the pump without sacrificing the overall strength and durability.

For the smaller TMA 30 series a close coupled design is available where space is limited. This design also eliminates any concerns for misalignment, which will enhance the pump's performance and extend the overall life of the pump.

