TMA 31/1-C Multi Stage Centrifugal Pump



HEAD : 200 to 1080 FT. **CAPACITY** : 10 to 40 USGPM

FEATURES : Multi-stage centrifugal pumps which employ a closed

type impeller design; Axial thrusts are balanced by special blades on back of impellers; Heavy duty outboard single bearing and angular bearing absorb remaining thrusts; One-piece stage/diffuser element increases efficiencies,

simplifies maintenance and reduces weight

SHAFT SEALING : Single mechanical seals - (Optional) One mechanical seal

with outboard bearing and sleeve bearing design - Double

mechanical seals

OPTIONS : Bareshaft - Close-coupled monoblock - Directly

Coupled to electric motor - Mounted on baseplate

OPERATING LIMITS : Maximum liquid temperature 250°F; Max. liquid temp. with

cooled seal housing 320°F; Max. discharge pressure 580 PSIG; Max. suction pressure of 230 PSIG;

Note: Temperature limits are also dictated by the type of mechanical seal used

FLANGE ORIENTATION: Standard – Suction facing left viewed from drive end

Optional – Suction facing right or top viewed from drive end

TECHNICAL DATA at 3500 RPM (60 HZ)

TECHNICAE DATA at 3500 Ki iii (00 HZ)									
CAPACITY	USGPM	10		20		30		40	
MODEL	Flange size In 1 ½" Out 1 ¼"	FT	HP	FT	HP	FT	HP	FT	HP
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		720	9.5	678	10.8	564	12.3	366	12.6
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	5.0		5.2		5.6		6.3	

S	STANDARD MATERIALS OF CONSTRUCTION **							
Part No.	Description	F	GH					
106	Suction casing	Ductile iron						
107	Discharge casing	Ductile IIOH						
108.1	Stage casing							
165	Heating or Cooling cover	Cast iron						
210	Shaft	Stainless steel AISI 420						
230	Impeller	Cast iron	Brass					
357	Bearing & mech. seal housing	Cast iron						

^{**}Special Materials Available Upon Request

MODEL DESIGNATION

TMA 31 - 4 / 1 - C / F - M				
Т	Travaini manufacturer			
M	Multi-stage centrifugal pump			
Α	High pressure			
31	Pump series			
4	Number of stages			
1	Construction design level 1 = Standard bearings 1x = Double bearings at drive end			
С	Type of sealing on shaft C = 2 Mechanical seals RR = Double mec. seals back to back R2 = Double mec. seals in series			
F	Materials of construction (see table)			
M	Monoblock construction			



⁻For further information please consult Premier Fluid Systems Inc.