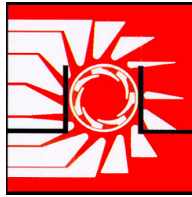
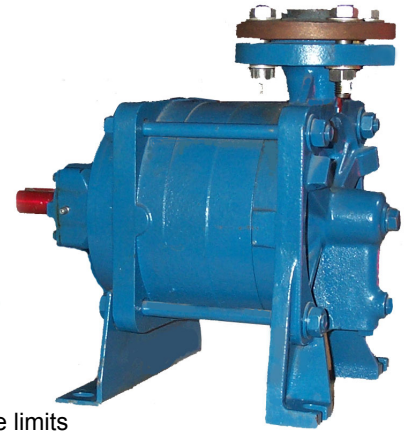


TMA 31/1-R Multi Stage Centrifugal Pump



TRAVAINI

- HEAD** : 225 to 720 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 to absorb remaining thrusts and sleeve bearing at non-drive end; One-piece stage/diffuser element increases efficiencies, simplifies maintenance and reduces weight
SHAFT SEALING : One mechanical seal with outboard bearing and sleeve bearing design - Double mechanical seals are optional
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: the type of mechanical seal used also dictates temperature limits*
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)

CAPACITY	USGPM	10		20		30		40	
		FT	HP	FT	HP	FT	HP	FT	HP
MODEL	Flange size In 1 1/2" Out 1 1/4"	360	4.8	339	5.4	282	6.1	183	6.3
TMA 31-3		480	6.4	452	7.2	376	8.2	244	8.4
TMA 31-4		600	8.0	565	9.0	470	10.2	305	10.5
TMA 31-5		720	9.5	678	10.8	564	12.3	366	12.6
TMA 31-6									
NPSH	FT	5.0		5.2		5.6		6.3	

MODEL DESIGNATION

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

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

**Special Materials Available Upon Request
-For further information please consult Premier Fluid Systems Inc.



Premier Fluid Systems
Canadian Home Of Travaini Pumps