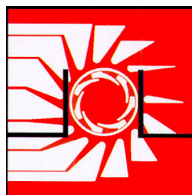
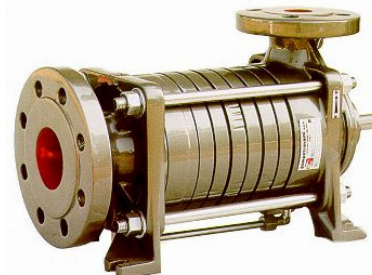


# TBA 290 Low NPSH Self-Priming Multi Stage Centrifugal Pump



# TRAVAINI

- HEAD** : 60 to 990 FT.  
**CAPACITY** : 3 to 20 USGPM  
**FEATURES** : Self-priming multi stage centrifugal pumps with horizontal mounting, end suction and top discharge flanges; Very low NPSH requirements; They are suitable for handling boiling liquids & other difficult volatile liquids; Especially suited to handle liquids with entrained gases and liquefied gases such as LPG; Low operating speed; Parts are interchangeable with the TBH series, thus reducing need to stock spare parts for both series; Low vibration, low noise level; impellers individually hydraulically balanced to eliminate end thrust forces to bearings; Max. discharge pressure 40 bar at 120°C; 34 bar at 160°C  
**SHAFT SEALING** : Mechanical seal - Double mechanical seal optional  
**OPTIONS** : Bareshaft pump - Coupled to electric motor on baseplate - Monoblock  
**ACCESSORIES** : Cooled or heated seal housing are available; Optional upgrade to Mechanical seal with Silica Carbide or Tungsten Carbide faces



## TECHNICAL DATA at 1750 RPM (60 HZ)

CAPACITY	USGPM	3		6		10		13		16		19	
	m <sup>3</sup> /h	0.68		1.36		2.27		2.95		3.63		4.32	
MODEL		FT	HP	FT	HP	FT	HP	FT	HP	FT	HP	FT	HP
TBA 291	Flange size In 2 1/2" Out 1 1/4"	164	1.9	141	1.8	128	1.6	105	1.5	82	1.4	66	1.3
TBA 292		327	3.6	282	3.3	240	2.9	195	2.7	151	2.5	113	2.3
TBA 293		489	5.2	423	4.8	351	4.3	284	4.0	220	3.6	160	3.2
TBA 294		652	6.9	564	6.3	463	5.6	374	5.2	289	4.7	207	4.2
TBA 295		814	8.5	706	7.9	574	7.0	463	6.4	357	5.8	253	5.1
TBA 296		977	10.2	847	9.4	686	8.3	553	7.6	426	6.9	300	6.1
<b>NPSH</b>	FT	3.5		3.6		3.9		4.0		4.2		4.3	
<b>*ΔNPSH</b>		0.56		0.56		0.56		0.56		0.56		0.56	

\*ΔNPSH - Minimum positive head required for liquids in boiling conditions

## STANDARD MATERIALS OF CONSTRUCTION \*\*

Part No.	Description	GH	RA	A3	B2	GP
106	Suction casing	Ductile iron		Stainless steel AISI 316	Bronze	Ductile iron
107	Discharge casing					
109 114 149	Port plate & Diffuser	Cast iron				Cast iron
210	Shaft	S.S. AISI 420				S.S. AISI 420
230	Impeller	Brass			Bronze	Brass
310.1	Element bush	---		Carbon	---	Bronze
357	Bearing & mech. seal housing	Cast iron				

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

## MODEL DESIGNATION

T B A 293 A / 2 - R / A3 - M	
T	Travaini manufacturer
B	Self-priming multistage centrifugal pump
A	Type of construction
29	Pump size
3	Number of stages
A	Modification of hydraulics
2 - R	Construction modifications - Single mechanical seal
C	Shaft sealing C = Mechanical seal CC = Double mec .seal back to back C2 = Double mec. seal in tandem
A3	Materials of construction (see table)
M	Close coupled with lantern (opt.)



**Premier Fluid Systems**  
 Canadian Home Of Travaini Pumps