



WALRUS®

TQIC Series **Inverter Control Pump**

ISO 9001



Applications:

The TQIC series pumps are designed for water supply and pressure boosting in residential, commercial and light industrial applications where low or inadequate water pressure exists. It is suitable for boosting pressure from underground or surface water supplies.

Suitable liquids:

Potable water or other clean, non-corrosive liquids.

Operating Limits:

Ambient temperature: Max. +104°F (40°C)

Liquid temperature: + 39°F(4°C) ~ +104°F (40°C)

Relative Humidity: Max. 85%

Original constant inverter pressure setting: TQ400 - 28 PSI

TQ800/1500/2200 - 43PSI

Product Features:

1. The TQIC is a complete, all-in-one unit, consists of pump, motor, inverter, pressure tank, and electronic controller. The built-in electronic controller provides constant pressure which ensures that the pump starts automatically when water is consumed and operates continuously until water is not required.
2. The Micro Frequency Inverter detects the instantaneous pressure in the system through the pressure transmitted and adjusts motor speed to keep it at the required value. Depended on applications, the pumps offer energy saving or improved processing.
3. Compact design and quiet operation make the TQIC series suitable for many applications.
4. The TQIC is constructed from the top quality corrosion resistant materials.
5. The TQIC has automatic restart function. Once the pump starts to operate, the pressure sensor will automatically detect the pressure limit. If the pressure limit can not reach to the original setting within 2 minutes, the pump will stop and attempt to restart every 10 minutes until the function is deactivate. It will also stop when the temperature exceeds 131°F (55°C), and will restart when the temperature drops to 104°F (40°C).
6. The motor has built-in thermal overload to protect against high operating temperatures and over current.
7. The TQIC has an anti-cycling feature which prevents the pump from continuous starting and stopping when you have a dripping tap or minor leak in the system.
8. The pumps will lift water up to 25ft. with foot valve and pump suction piping filled with water.

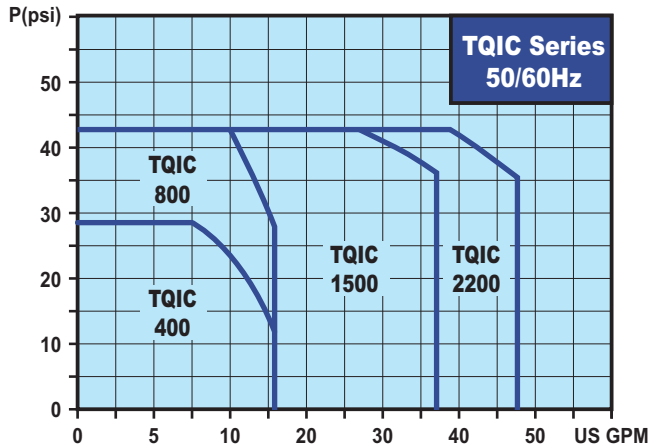
Walrus America Inc



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Hydraulic Performance curve:

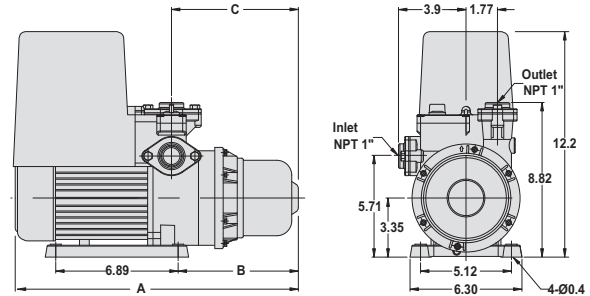


Materials

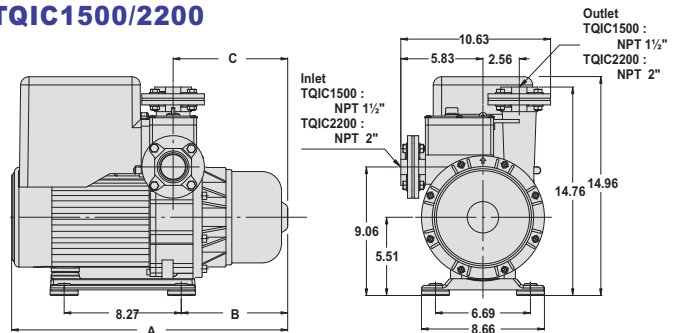
Part name	TQIC 400/800	TQIC 1500/2200
Pump casing	Glass filled noryl	
Filling plug	NyLon	
Outlet & Inlet	SUS 304	
Intermediate Chamber	Glass filled polycarbonate	SUS 304
Impeller	Glass filled noryl	SUS 304
Mechanical Seal	Ceramic+Carbon+NBR	SiC+Carbon+Viton
Shaft	SUS 410	SUS 304
Motor Shell	Aluminum alloy	

Dimensions: (in.)

TQIC400/800



TQIC1500/2200



Model	A (in.)	B (in.)	C (in.)
TQIC 400	16.73	6.77	6.97
TQIC 800	17.76	7.80	7.99
TQIC 1500/2200	19.75	7.48	8.07

Specification:

Model	Output Power of Inverter contron (HP)	Cycle (Hz)	Phase (Ø)	Voltage (V)	Output Ampere of Inverter contron (A)	Inlet (NPT)	Outlet (NPT)	Pre-set Constant Pressure (PSI)	Nominal Capacity (GPM)	N.W. (lbs)
TQIC400	½	60	1	115	3.0	1"	1"	28	7.9	25.4
			1	230						
TQIC800	1	60	1	115	5.0	1"	1"	43	10.5	29.7
			1	230						
TQIC1500	2	60	1	230	8.0	1½"	1½"	43	27	65.3
TQIC2200	3	60	1	230	11.0	2"	2"	43	38	67.0

Please set the cut in pressure lower than the preset constant pressure for the best performance.

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All specifications are subject to change without notice. 003