

Air-Operated Double Diaphragm Pumps



2" TC-X500-M Series

The TC-X500-M Series pumps offer excellent flow rates and a new heavy duty body design. The pumps can operate with variable air pressures and are suited for both start/stop and fully continuous duty pumping applications. They can easily handle high pressure and long discharge lines.



Maximum Flow Rate: 198.2 GPM (750 LPM)
 Maximum Discharge Head: 280 FT. (85m)
 Available in: Stainless Steel, Aluminum, Polypropylene, PVDF (Kynar®)
 Spool valve type: Coil Spring Air Spool
 Certification: CE, ATEX, FDA (SS models)

SPECIFICATIONS						
Material Code*	A"X"	S"X"	F"X"	AT/AW	ST/SW	FT/FW
Max Flow Rate	198.2 GPM (750 LPM)			137.4 GPM (520 LPM)		
Max Air Pressure	125 PSI (0.85 MPa)			100 PSI (0.7 MPa)		
Max Air Consumption	187.1 scfm (5300 L/min)			176.5 scfm (5000 L/min)		
Supply Air Pressure Range ¹	14-125 PSI (0.1 - 0.85 MPa)			22-100 PSI (0.15 - 0.7 MPa)		
Liquid Discharge Volume per cycle	118 oz (3500 mL)			44 oz (1300 mL)		
Connection Suction x Discharge	Combination Flange 2" ANSI 150lb - JIS10K 80A w/internal 2" NPT (F)					
Weight	77.2 lbs (35 kg)	121.3 lbs (55 kg)		77.2 lbs (35 kg)		121.3 lbs (55 kg)

* See Chart and Model Number nomenclature on back page for materials
 Note 1: A supply air pressure of 22 PSI (0.15 MPa) or more is required to operate the pump. If the supply pressure is less than 22 PSI (0.15 MPa), the pump may not operate properly.
 Pump Liquid Temperature Range: CR, NBR 32-180°F (0-82°C) TPEE,FKM* 32-212°F (0-100°C)* TPO, PTFE 32-212°F (0-100°C) * 248F (120C) option available, consult factory.
 Ambient Temperature Range: 32-158°F (0-70°C)
 Slurry Recommendation: 0.31" (8 mm) or less
 Viscosity Limit: Suction lift ~3000 cps (3 Pa-s) Force in ~8000 cps (8 Pa-s) (For applications requiring higher viscosity, please consult your distributor)

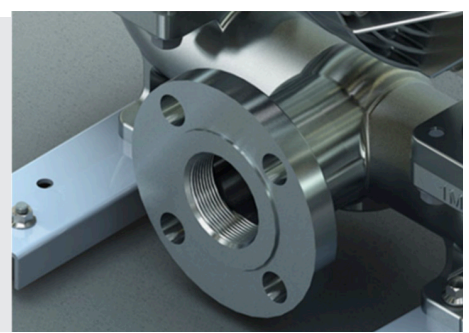
Material Code*	G"X"	V"X"	GT/GW	VT/VW
Max Flow Rate	169.1 GPM (640 LPM)		137.4 GPM (520 LPM)	
Max Air Pressure	100 PSI (0.7 MPa)			
Max Air Consumption	144.7 scfm (4100 L/min)		176.6 scfm (5000 L/min)	
Supply Air Pressure Range ¹	14-125 PSI (0.1 - 0.85 MPa)		22-100 PSI (0.15 - 0.7 MPa)	
Liquid Discharge Volume per cycle	118 oz (3500 mL)		68 oz (2000 mL)	
Connection Suction x Discharge	Combination Flange 2" ANSI 150lb - JIS10K 80A w/internal 2" NPT (F)			
Weight	83.8 lbs (38 kg)	98.1 lbs (44.5 kg)	83.8 lbs (38 kg)	98.1 lbs (44.5 kg)

* See Chart and Model Number nomenclature on back page for materials
 Note 1: A supply air pressure of 22 PSI (0.15 MPa) or more is required to operate the pump. If the supply pressure is less than 22 PSI (0.15 MPa), the pump may not operate properly.
 Pump Liquid Temperature Range: G"X", 32-180°F (0-82°C) ,V"X" CR, NBR 32-180°F (0-82°C) TPEE,FKM 32-248°F (0-120°C)* TPO, PTFE 32-212°F (0-100°C) 248F (120C) option available, consult factory.
 Ambient Temperature Range: 32-158°F (0-70°C)
 Slurry Recommendation: 0.31" (8 mm) or less
 Viscosity Limit: Suction lift ~3000 cps (3 Pa-s) Force in ~8000 cps (8 Pa-s) (Please contact your distributor for more details)

2" TC-X500-M Series

THREADED FLANGE MANIFOLD

The TC-X500-M model features a standard threaded flange manifold, offering both flange and threaded connection options.



WET END MATERIALS

Code	Pump Wetted Parts	Diaphragm	Ball Valve/Valve Seat	Outer Diaphragm Plate	Center Body
AC	AL Alloy/AL	Neoprene™	Neoprene™	AL	AL
AN		BUNA	BUNA		
AE		EPDM	EPDM		
AV		Viton®	Viton®		
AT		PTFE	PTFE		
AW		PTFE/EPDM backup (one-piece)	PTFE		
AH		Hytrel™	BUNA		
AS		Santoprene®	EPDM		
SC	Cast SS/SS316	Neoprene™	Neoprene™	SS316	
SN		BUNA	BUNA		
SE		EPDM	EPDM		
SV		Viton®	Viton®		
ST		PTFE	PTFE		
SW		PTFE/EPDM backup (one-piece)	PTFE		
SH		Hytrel™	BUNA		
SS		Santoprene®	EPDM		
FC	Cast Iron	Neoprene™	Neoprene™	SS316	
FN		BUNA	BUNA		
FE		EPDM	EPDM		
FV		Viton®	Viton®		
FT		PTFE	PTFE		
FW		PTFE/EPDM backup (one-piece)	PTFE		
FH		Hytrel™	BUNA		
FS		Santoprene®	EPDM		
GC	GFRPP	Neoprene™	Neoprene™	GFRPP (SCS13*)	
GN		BUNA	BUNA		
GE		EPDM	EPDM		
GV		Viton®	Viton®		
GT		PTFE	PTFE		
GW		PTFE/EPDM backup (one-piece)	PTFE		
GH		Hytrel™	BUNA		
GS		Santoprene®	EPDM		
VE	PVDF	EPDM	EPDM	PVDF (SCS13*)	
VV		Viton®	Viton®		
VT		PTFE	PTFE		
VW		PTFE/EPDM backup (one-piece)	PTFE		
VH		Hytrel™	BUNA		
VS		Santoprene®	EPDM		

AL Alloy
AL
Cast SS
SS316
Cast Iron
BUNA
Neoprene™
Viton®

Aluminum Alloy (ADC12)
Aluminum (A5056)
Cast Stainless Steel (SCS14)
Stainless Steel Grade 316
Cast Iron (S45C)
Nitrile Rubber (NBR)
Chloroprene Rubber (CR)
Fluoroelastomer (FKM)

Pure Poly
PTFE
PVDF
GFRPP
Santoprene®
Hytrel™
EPDM
* SCS13

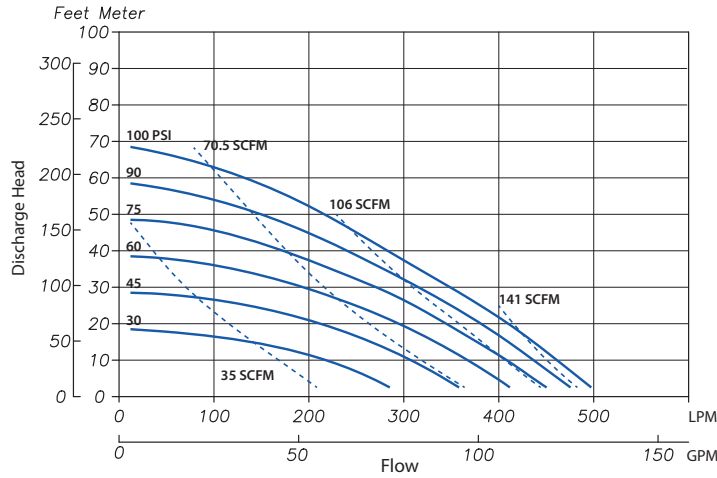
Pure Polypropylene
Polytetrafluoroethylene (Teflon®)
Polyvinylidene Fluoride (Kynar®)
Glass-Fiber Reinforced Polypropylene
Thermoplastic PolyOlefin (TPO)
Thermoplastic Polyester Elastomer (TPEE)
Ethylene Propylene Diene Monomer (Nordel™)
Cast Stainless Steel (insert material)

PERFORMANCE CURVES

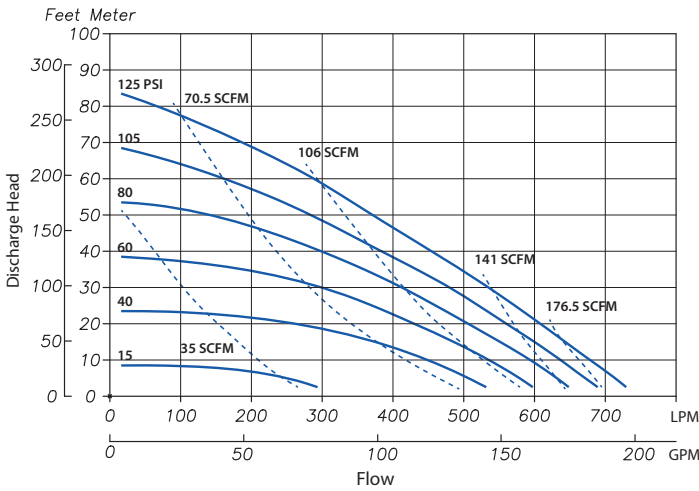
— Flow
 - - - - Air

Conditions:
 4" (10cm) flooded suction.
 Ambient temperature: 73°F (23°C)
 Liquid temperature: 64-68°F (18-20°C)

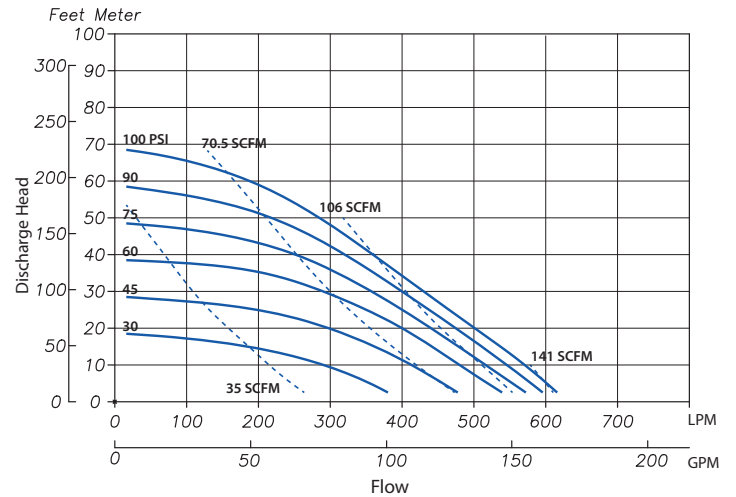
TC-X500-M AT/AW ST/SW FT/FW GT/GW VT/VW



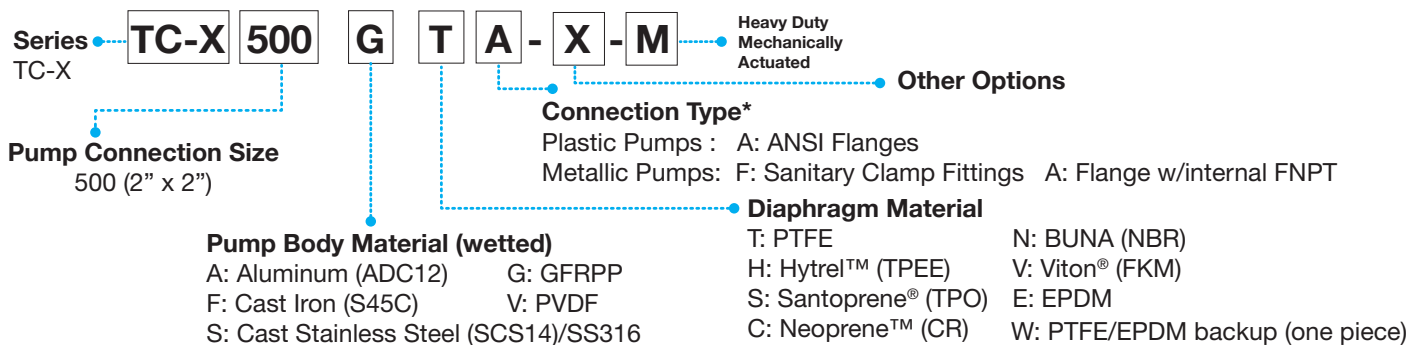
TC-X500-M A"X"/ S"X"/ F"X" (except W)



TC-X500-M "G"X" / "V"X" (except W)

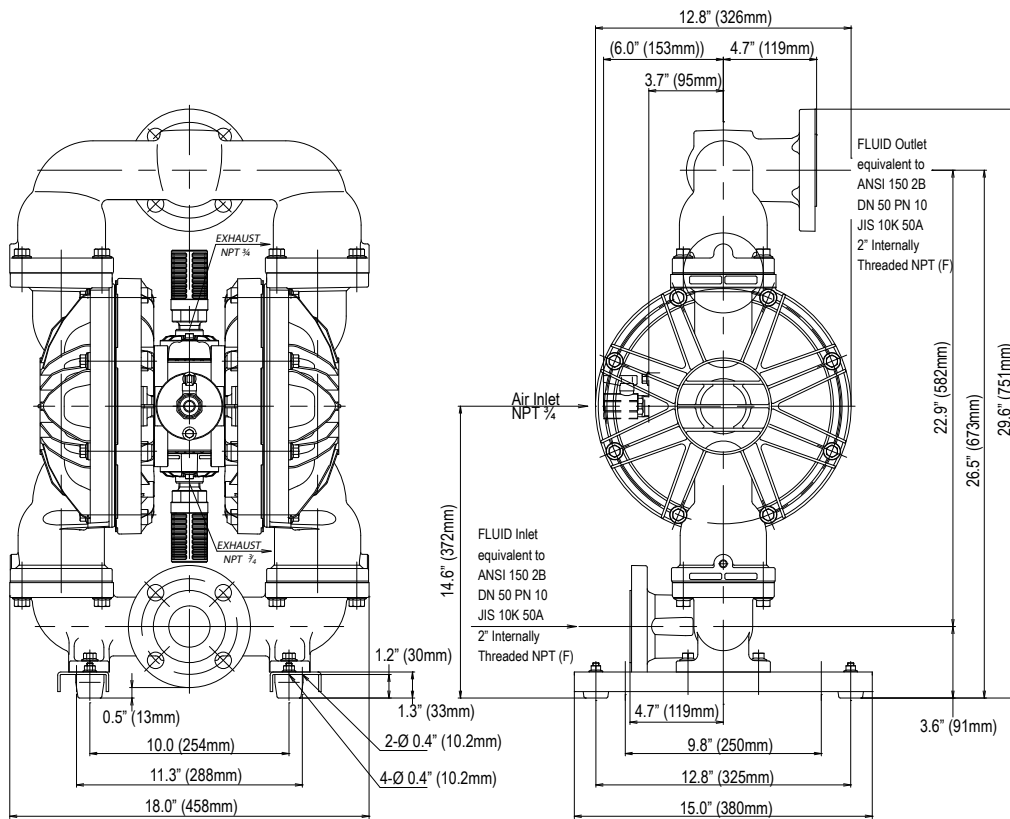


MODEL NUMBER NOMENCLATURE

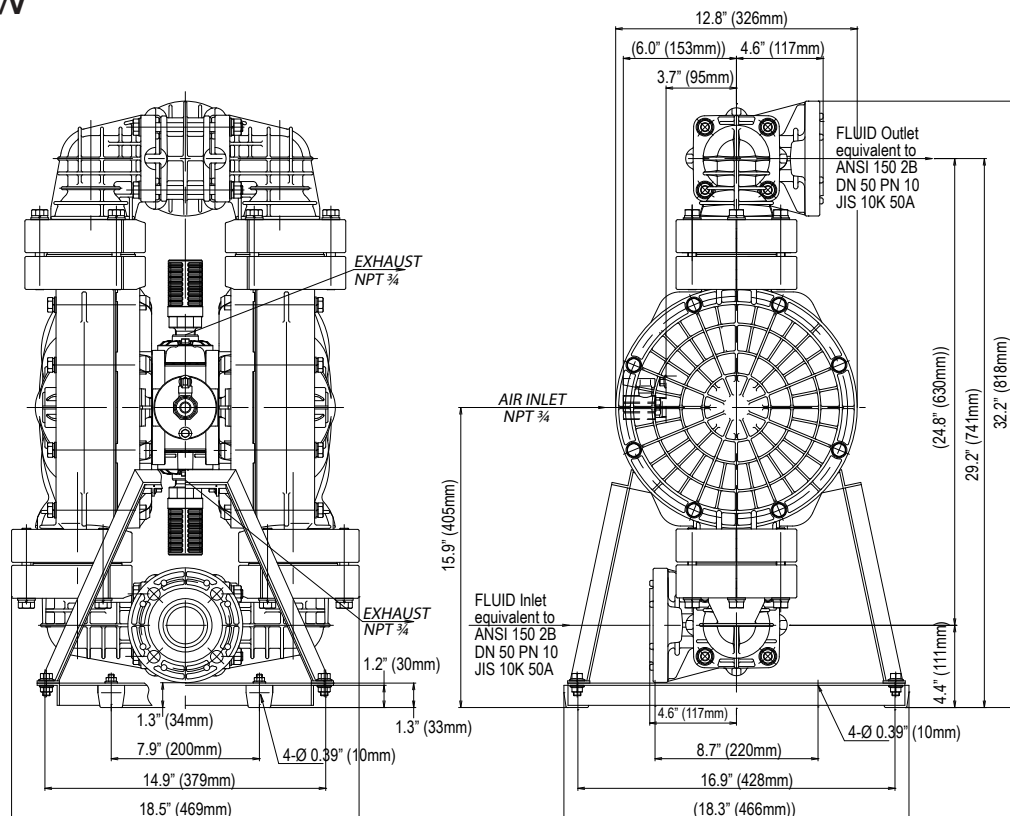


DIMENSIONS

TC-X500-M A/S/F



TC-X500-M "G" /V



Five Boynton Road, Holliston, MA 01746 USA
 Tel: 508-429-1440 / service@iwaki-america.com / www.iwaki-air.com