

Air-Operated Double Diaphragm Pumps



3" TC-X800-M Series Heavy Duty Air Motor

The TC-X800-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: 224.6 GPM (850 LPM)
 Maximum Discharge Head: 280 FT. (85m)
 Available in: Stainless Steel, Aluminum, Polypropylene, Cast Iron
 Spool valve type: Robust Coil Spring Air Motor
 Certification: CE, ATEX, FDA (SS models)

SPECIFICATIONS

Material Code*	A"X"	S"X"	F"X"	AT/AW	ST/SW	FT/FW
Max Flow Rate	224.6 GPM (850 LPM)			169.1 GPM (640 LPM)		
Max Air Pressure	125 PSI (0.85 MPa)			100 PSI (0.7 MPa)		
Max Air Consumption	194.2 scfm (5500 L/min)			208.3 scfm (5900 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	230 oz (6800 mL)			44 oz (1300 mL)		
Connection Suction x Discharge	Combination Flange 3"ANSI 150lb - JIS10K 80A w/internal 3" NPT (F)					
Weight	132 lbs (63 kg)	291 lbs (132 kg)		132 lbs (63 kg)	291 lbs (132 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: NBR/CR Diaphragm - 32-180°F (0-82°C) TPO/EPDM/PTFE Diaphragm - 32-212°F (0-100°C) TPEE/FKM Diaphragm - 32-248°F (0-120°C)

Ambient Temperature Range: 32-158°F (0-70°C)

Slurry Recommendation: 0.39" (10 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)

Material Code*	G"X"	GT/GW
Max Flow Rate	211.4 GPM (800 LPM)	169.1 GPM (640LPM)
Max Air Pressure	100 PSI (0.7 MPa)	
Max Air Consumption	201.2 scfm (5700 L/min)	208.3 scfm (5900 L/min)
Supply Air Pressure Range ¹	14-100 PSI (0.1 - 0.7 MPa)	22-100 PSI (0.15 - 0.7 MPa)
Liquid Discharge Volume per cycle	230 oz (6800 mL)	108 oz (3200 mL)
Connection Suction x Discharge	Combination Flange 3"ANSI 150lb - JIS10K 80A w/internal 3" NPT (F)	
Weight	155.4 lbs (70.5 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: 32-180°F (0-82°C)

Ambient Temperature Range: 32-158°F (0-70°C)

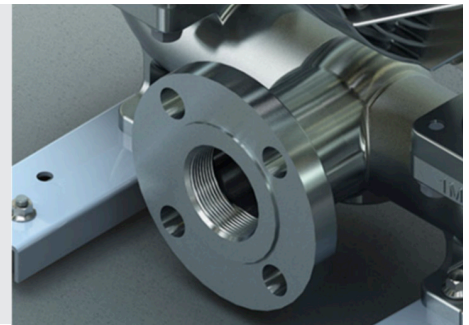
Slurry Recommendation: 0.39" (10 mm) or less

Viscosity Limit: Suction lift ~3000 cps (3 Pa-s) Force in ~8000 cps (8 Pa-s) (Please contact your distributor for more details)

3" TC-X800-M Series

THREADED FLANGE MANIFOLD

The TC-X800-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 <small>backup (one-piece)</small>	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 <small>backup (one-piece)</small>	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 <small>backup (one-piece)</small>	PTFE		
FH		Hytrel™	BUNA		
FS		Santoprene®	EPDM		
GC	GFRPP	Neoprene™	Neoprene™ / PP	PPG (SCS13*)	
GN		BUNA	BUNA / PP		
GE		EPDM	EPDM / PP		
GV		Viton®	Viton® / PP		
GT		PTFE	PTFE / PP		
GW		PTFE/EPDM <small>backup (one-piece)</small>	PTFE		
GH		Hytrel™	BUNA / PP		
GS		Santoprene®	EPDM / PP		

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
GFRPP
Santoprene®
Hytrel™
EPDM
* SCS13

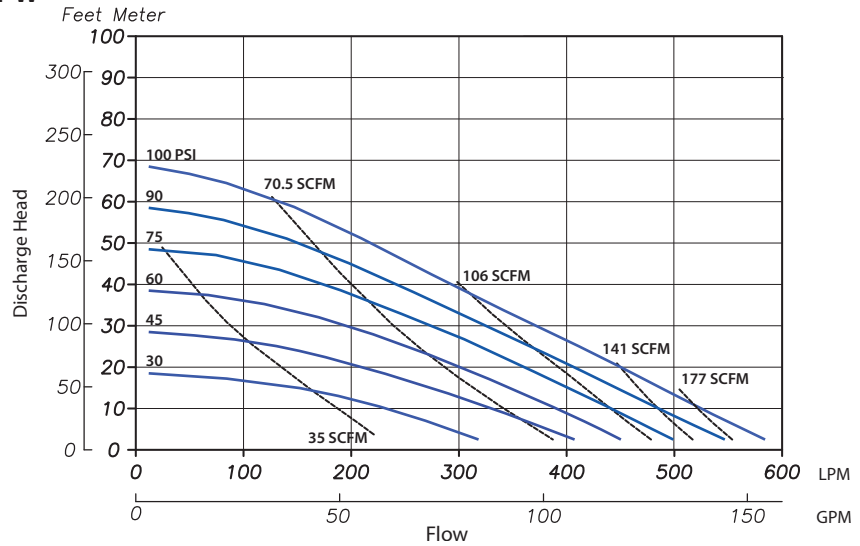
Pure Polypropylene
Polytetrafluoroethylene (Teflon®)
Glass Fiber Reinforced Polypropylene
Thermoplastic PolyOlefin (TPO)
Thermoplastic Polyester Elastomer (TPEE)
Ethylene Propylene Diene Monomer (Nordel™)
Cast Stainless Steel (insert material)

PERFORMANCE CURVES

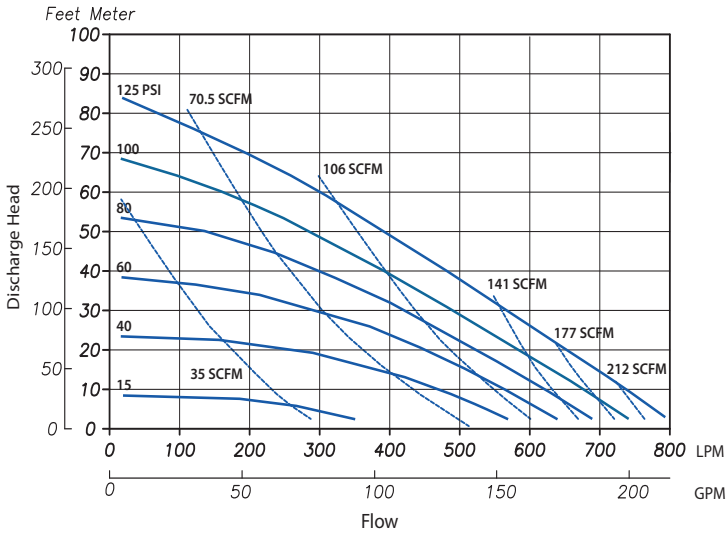
TC-X800-M AT/AW/ST/SW/FT/FW/GT/PW

— Flow
 - - - Air

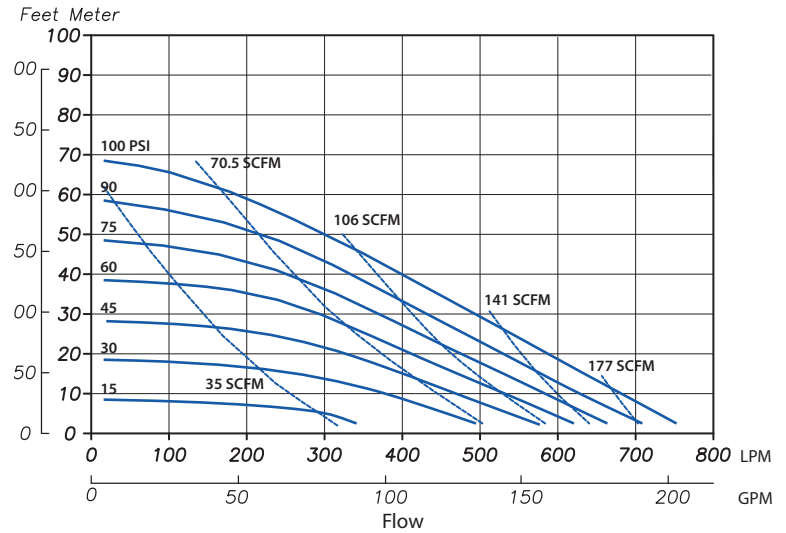
Conditions:
 20" (50cm) flooded suction.
 Ambient temperature: 77°F (25°C)
 Liquid temperature: 70-77°F (21-25°C)



TC-X800-M A"X"/ S"X"/ F"X" (except W)

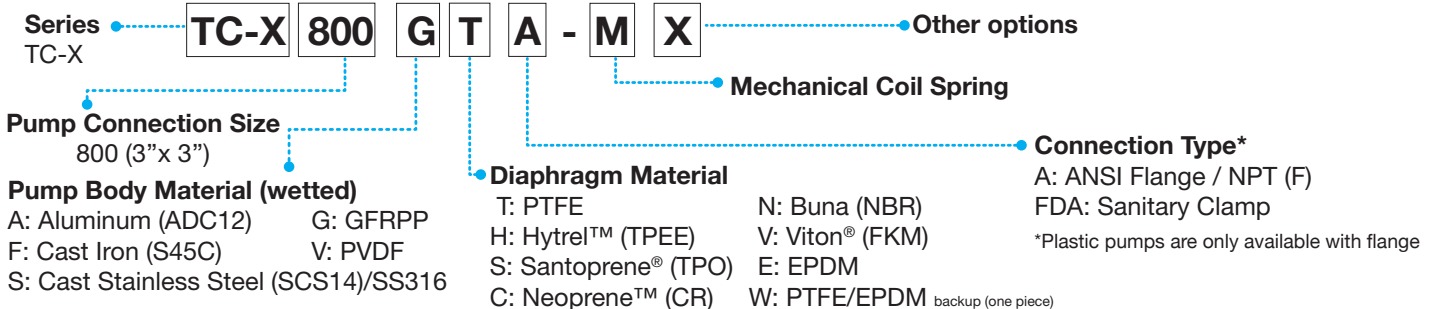


TC-X800-M G"X" (except W)



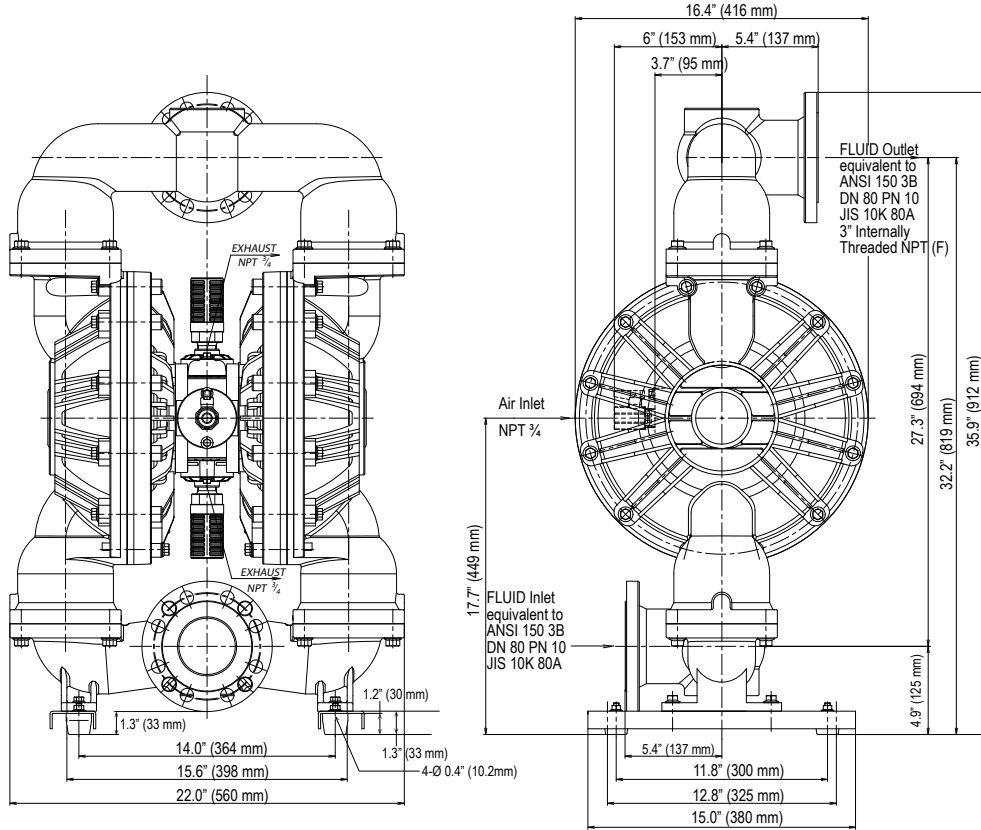
Conditions:
 20" (50cm) flooded suction.
 Ambient temperature: 73°F (23°C)
 Liquid temperature: 64-68°F (18-20°C)

MODEL NUMBER NOMENCLATURE



DIMENSIONS

TC-X800-M/F-A



TC-X800-M A

