

Air-Operated Double Diaphragm Pumps



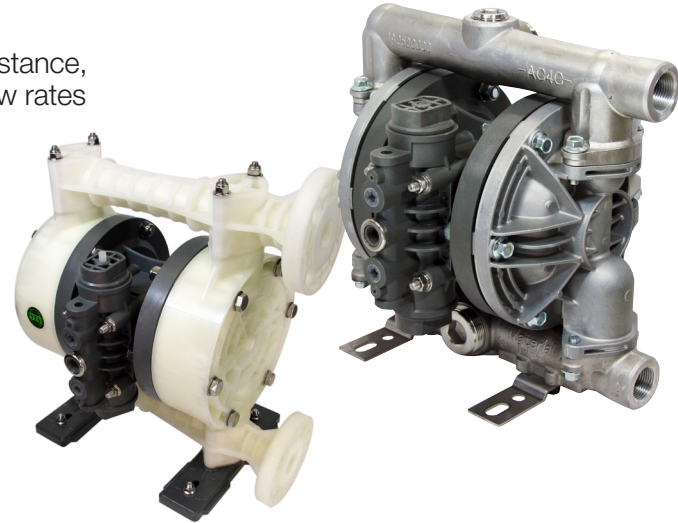
1" TC-X 250 Series

The TC-X250 pumps are heavy duty pumps with excellent leak resistance, exceptional flow performance and high reliability. They offer high flow rates and solids handling.

Featuring the new Looped C® Air Motor Technology
New Air EcoRing feature provides lower air consumption.



Maximum Flow Rate: 58.1GPM (220 L/Min)
Maximum Discharge Head: 230 ft (70 m)
Available in: Glass-Fiber Polypropylene,
Conductive Polypropylene, PVDF (Kynar®), Stainless Steel 316,
Aluminum and Cast Iron
Spool Valve Type: Looped C Spring Valve
Certification: CE, ATEX (select models)



SPECIFICATIONS

Material Code*	A"X"	S"X"	F"X"	AT/AW	ST/SW	FT/SW
Max Flow Rate	58.1 GPM (220 LPM)			50.2 GPM (190 LPM)		
Max Air Pressure	100 PSI (0.7 MPa)					
Max Air Consumption	63.5 scfm (1800 L/min)			56.5 scfm (1600 L/min)		
Supply Air Pressure Range ¹	30-100 PSI (0.2-0.7 MPa)					
Liquid Discharge Volume per cycle	27 oz (800 mL)			22 oz (650 mL)		
Connection Suction x Discharge	NPT 1" (NPT 1½" option)					
Weight	24.3 lbs (11 kg)	45.2 lbs (20.5 kg)		24.3 lbs (11 kg)	45.2 lbs (20.5 kg)	

* See Chart and Model Number nomenclature on back page for materials

Note 1: A supply air pressure of 30 PSI (0.2 MPa) or more is required to operate the pump. If the supply pressure is less than 30 PSI (0.2 MPa), the pump may not operate properly.

Pump Liquid Temperature Range: Standard PPG Air motor 0-82°C. Aluminum air motor: A"X", S"X", 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: 32-158°F (0-70°C)

Slurry Recommendation: 0.25" (6.5mm) or less

Viscosity Limit: Suction Lift ~3000 cps (3 Pa-s) Force in ~8000cps (8Pa-s) (Pumping slurry is dependent on pump size & materials. Please contact your distributor for more details)

SPECIFICATIONS

Material Code*	G"X" C"X"	V"X"	GT/GW	VT/GW
Max Flow Rate	43.6 GPM (165 LPM)			
Max Air Pressure	100 PSI (0.7 MPa)			
Max Air Consumption	56.5 scfm (1600 L/min)		63.6 scfm (1800 L/min)	
Supply Air Pressure Range ¹	30-100 PSI (0.2-0.7 MPa)			
Liquid Discharge Volume per cycle	20 oz (600 mL)		17 oz (500 mL)	
Connection Suction x Discharge	NPT 1"		ANSI 150lb 1" JIS 10 K25A (DIN 25PN10)	
Weight	24.3 lbs (11 kg)	29.8 lbs (13.5 kg)	24.3 lbs (11 kg)	29.8 lbs (13.5 kg)

* See Chart and Model Number nomenclature on back page for materials

Note 1: A supply air pressure of 30 PSI (0.2 MPa) or more is required to operate the pump. If the supply pressure is less than 30 PSI (0.2 MPa), the pump may not operate properly.

Pump Liquid Temperature Range: Standard PPG Air motor 0-82°C. Aluminum air motor: V"X", FKM 32-248°F (0-120°C) TPEE* 32-212°F (0-100°C) TPO, PTFE 32-212°F (0-100°C)

G"X", 32-180°F (0-82°C) * 248F (120C) option available, consult factory.

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

Slurry Recommendation: 0.08" (2mm) or less

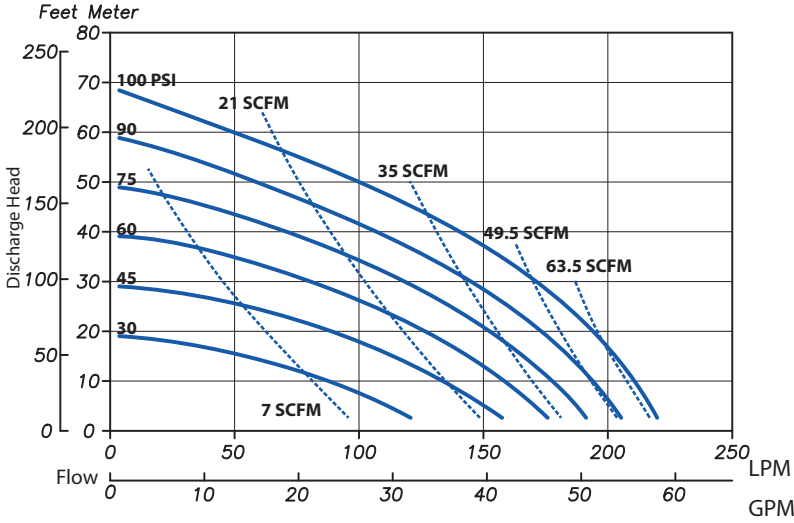
Viscosity Limit: Suction Lift ~3000 cps (3 Pa-s) Force in ~8000cps (8Pa-s) (Pumping slurry is dependent on pump size & materials. Please contact your distributor for more details)

PERFORMANCE CURVES

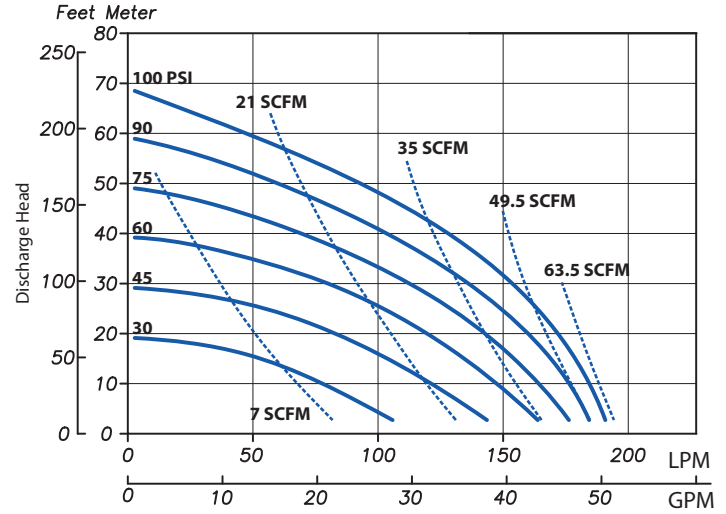
— Flow
 - - - Air

Conditions:
 4" (10 cm) flooded suction.
 Ambient temperature: 70°F (21°C)
 Liquid temperature: 70-73°F (21-23°C)

TC-X250A "X", "S" "X", "F" "X" (except T & W)



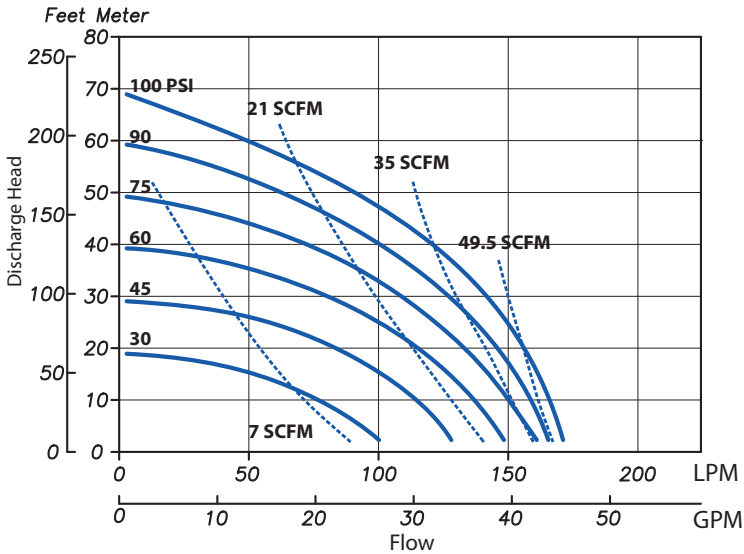
TC-X250 AT/AW, /ST/SW, /FT/FW



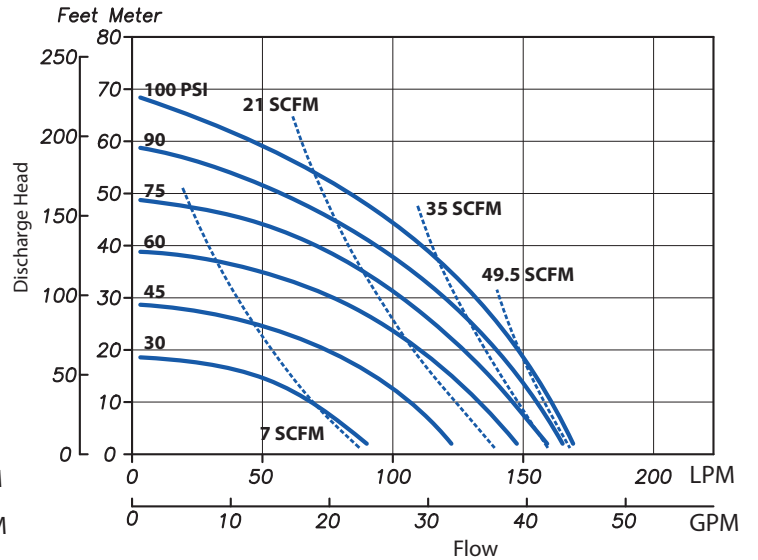
— Flow
 - - - Air

Conditions:
 4" (10 cm) flooded suction.
 Ambient temperature: 75°F (24°C)
 Liquid temperature: 72-75°F (22-24°C)

TC-X250G "X"/"C" "X"/"V" "X" (except T & W)



TC-X250GT/CT/VT/GW/CW/VW



WET END MATERIALS

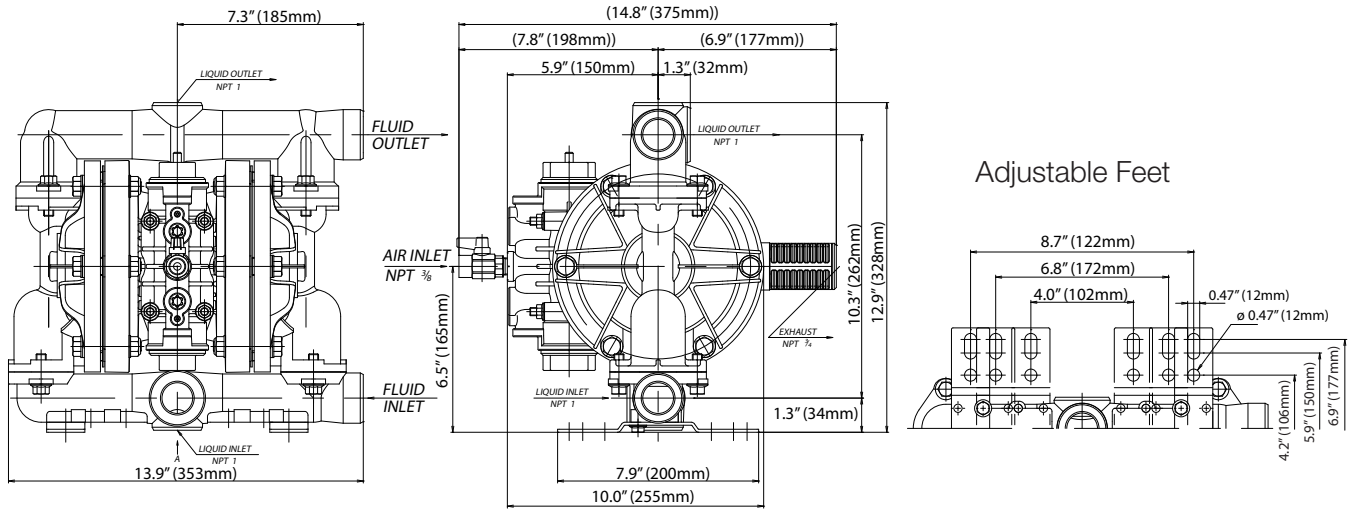
Code	Pump Wetted Parts	Diaphragm	Ball Valve/Seat O-Ring	Valve Stopper/ Seat	Outer Diaphragm Plate	Center Body		
AC	AL Alloy	Neoprene™	Neoprene™	SS316	AL	GFRPP or AL		
AN		BUNA	BUNA					
AE		EPDM	EPDM					
AV		Viton®	Viton®					
AT		PTFE	PTFE					
AW		PTFE/EPDM <small>backup (one-piece)</small>	PTFE					
AH		Hytrel™	BUNA					
AS		Santoprene®	EPDM					
SC	Cast SS	Neoprene™	Neoprene™		SS316		SS316	GFRPP or AL
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	SS316	GFRPP or AL		
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™/BUNA	GFRPP	GFRPP (SCS13*)		GFRPP	
GN		BUNA	BUNA					
GE		EPDM	EPDM					
GV		Viton®	Viton®					
GT		PTFE	PTFE					
GW		PTFE/EPDM <small>backup (one-piece)</small>	PTFE					
GH		Hytrel™	Hytrel™/BUNA					
GS		Santoprene®	Santoprene®/EPDM					
VE	PVDF	EPDM	EPDM	PVDF	PVDF (SCS13*)	GFRPP		
W		Viton®	Viton®					
VT		PTFE	PTFE					
VW		PTFE/EPDM <small>backup (one-piece)</small>	PTFE					
VH		Hytrel™	BUNA					
VS		Santoprene®	EPDM					
CC	Conductive Poly	Neoprene™	Neoprene™/BUNA	Conductive Poly	Conductive Poly (SCS13*)			Conductive Poly
CN		BUNA	BUNA					
CE		EPDM	EPDM					
CV		Viton®	Viton®					
CT		PTFE	PTFE					
CW		PTFE/EPDM <small>backup (one-piece)</small>	PTFE					
CH		Hytrel™	Hytrel™/BUNA					
CS		Santoprene®	Santoprene®/EPDM					

AL Alloy Aluminum Alloy (ADC12)
 AL Aluminum (A5056)
 Neoprene™ Chloroprene Rubber (CR)
 BUNA Nitrile Rubber (NBR)
 Cast SS Cast Stainless Steel (SCS14)
 SS316 Stainless Steel Grade 316*
 *SCS13 Cast Stainless Steel (insert material)
 Cast Iron Cast Iron S45C
 GFRPP Glass-Fiber Reinforced Polypropylene

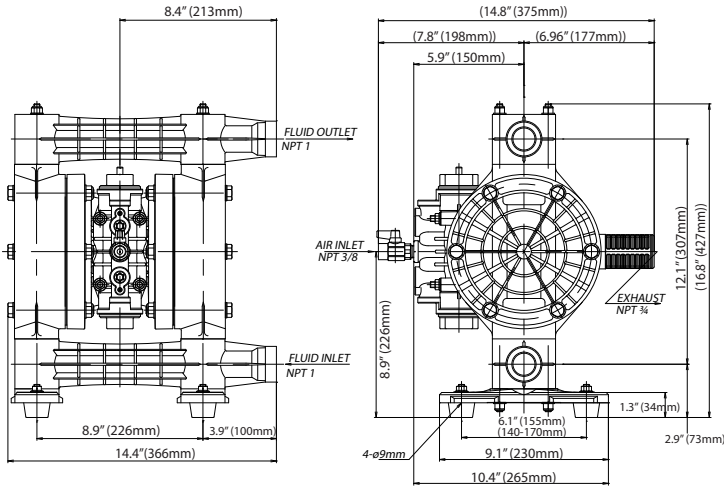
PTFE Polytetrafluoroethylene (Teflon®)
 PVDF Polyvinylidene Fluoride (Kynar®)
 Hytrel™ Thermoplastic Polyester Elastomer (TPEE)
 Santoprene® Thermoplastic PolyOlefin (TPO)
 Viton® Fluoroelastomer (FKM)
 EPDM Ethylene propylene diene monomer (Nordel™)
 Conductive Poly Conductive Polypropylene (PC)

DIMENSIONS

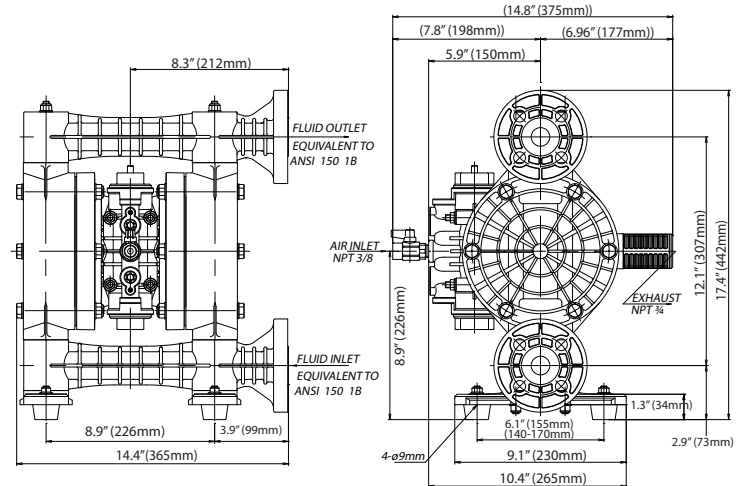
TC-X250A,S,F



TC-X250, G/C/V - NPT



TC-X250 G/C/V - FLANGE



MODEL NUMBER NOMENCLATURE

