

Air-Operated Double Diaphragm Pumps



1/4" TC-X050 Series



The TC-X 050 is a small compact pump with an exceptional flow rate designed to be installed into liquid transfer applications. Featuring the new Looped C™ Air Motor Technology (patent pending). Multi-port options available.

Maximum Flow Rate: 3.0 GPM (11.5 LPM)

Maximum Discharge Head: 230 FT (70 m)

Available in: Stainless Steel, Aluminum, Pure Polypropylene, Acetal (POM), Glass Fiber Reinforced Polypropylene (PPG), & PVDF (Kynar®)

Spool valve type: Looped C-Spring Valve

Certification: CE, ATEX (select models), FDA (SS models)



SPECIFICATIONS

Material Code*	AT	ST	PT	VT	DT	PT-PP
Max Flow Rate	3.0 GPM (11.5 LPM)					
Max Air Pressure	100 PSI (0.7 MPa)					
Max Air Consumption	8.83 scfm (250 L/min)					
Supply Air Pressure Range ¹	30-100 PSI (0.2-0.7 MPa)					
Liquid Discharge Volume per cycle	0.7 oz (20 mL)					
Connection Suction x Discharge	NPT 1/4"					
Weight	3.53 lbs	6.0 lbs	2.87 lbs	3.7 lbs	3.1 lbs	
	1.6 kg	2.7 kg	1.3 kg	1.7 kg	1.4 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 30PSI (0.2 MPa), the pump may not operate properly.

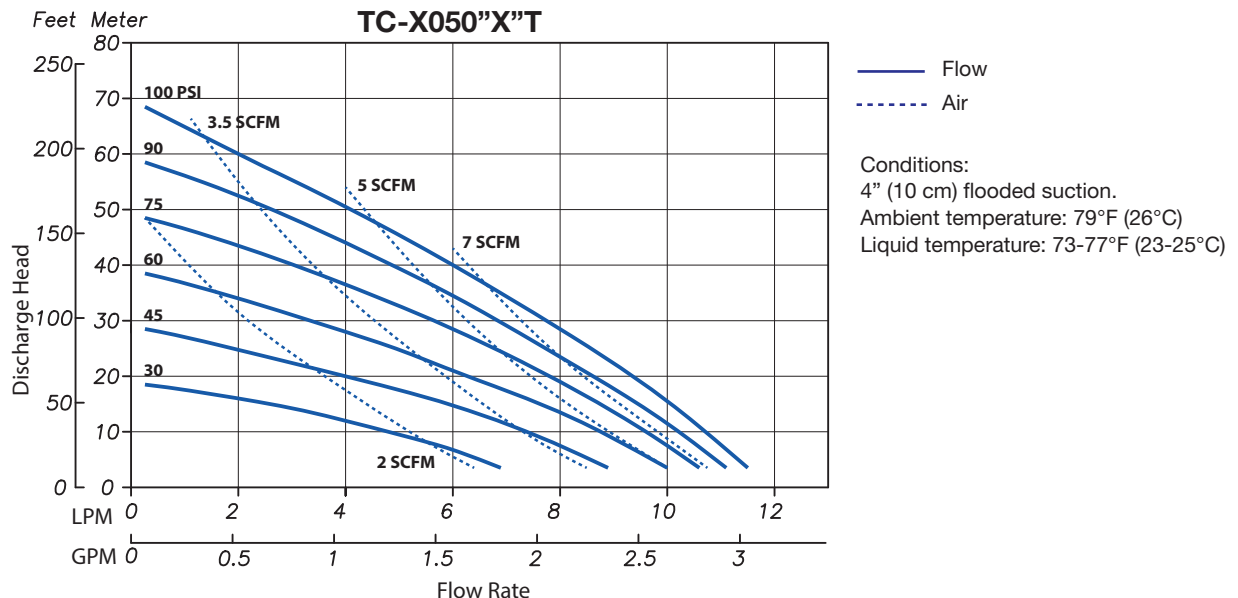
Pump Liquid Temperature Range: AT, ST 32-212°F (0-100°C) PT, VT, DT 32-140°F (0-60°C)

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

Not recommended for use with slurry liquid.

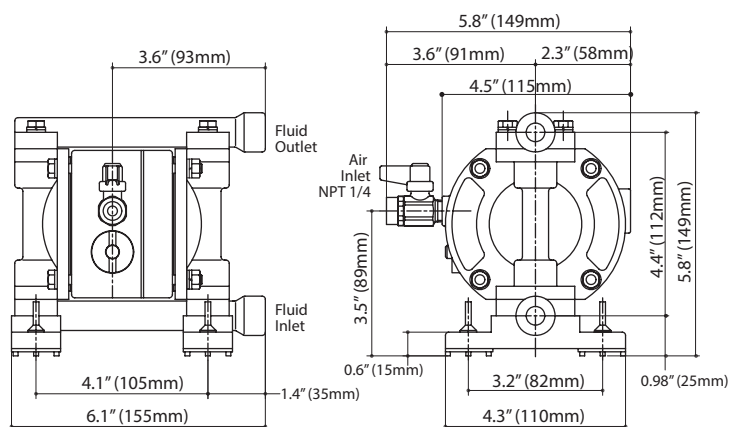
Viscosity Limit: ~100 cps (0.1 Pa-s) (Please contact your distributor for more details)

PERFORMANCE CURVES



WET END MATERIALS							
Model	Part Name	AT	ST	PT	VT	DT	PT-PP
TC-X 050	Pump wetted parts	AL Alloy	Cast SS	PPG	PVDF	Acetal	Pure Poly
	Diaphragm	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE
	Flat Valve	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE
	Valve Seat	SS316	SS316	PPG	PVDF	Acetal	Pure Poly
	Outer Diaphragm Plate	AL	SS316	PPG (SS303*)	PVDF (SS304*)	Acetal (SS304*)	Pure Poly (SS303*)
	Center Body	Ryton®					
AL Alloy AL Acetal SS316	Aluminum Alloy (ADC12/AC4C) Aluminum (A5056) Polyoxymethylene (POM) Stainless Steel Grade 316	PPG PTFE PVDF Cast SS Pure Poly	Glass Fiber Reinforced Polypropylene Polytetrafluoroethylene (Teflon®) Polyvinylidene Fluoride (Kynar®) Cast Stainless Steel (SCS14) Pure Polypropylene (PP)		*SS303 *SS304 Ryton®	Stainless Steel Grade 303 (Insert material) Stainless Steel Grade 304 (Insert material) Polyphenylene Sulphide (PPS)	

TC-X050 AT, ST

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TC-X 050 P T - PP - NPT

- Series:** TC-X
- Pump Connection Size:** 050 (1/4" x 1/4")
- Pump Body Material (wetted):** P: PPG, D: Acetal (POM), V: PVDF
- Diaphragm Material:** T: PTFE
- Optional Wetted Material:** PP: Pure Poly
- Connection Type:** NPT: Threaded